

Appendix A (Normative) - Design Temperature Limits by State and County, and U.S. Territory

State	County	1.0% Cooling Temperature (°F)	99.0% Heating Temperature (°F)	HDD/CDD Ratio	Reference	Reference
Alabama						
Alabama	Autauga	95	27	0.4	ASHRAE	Manual J
Alabama	Baldwin	93	29	0.3	Manual J	Manual J
Alabama	Barbour	95	24	0.4	ASHRAE	Manual J
Alabama	Bibb	92	26	0.5	Manual J	Manual J
Alabama	Blount	93	24	0.5	Manual J	Manual J
Alabama	Bullock	91	28	0.4	ASHRAE	ASHRAE
Alabama	Butler	93	28	0.3	ASHRAE	ASHRAE
Alabama	Calhoun	93	25	0.5	ASHRAE	ASHRAE
Alabama	Chambers	91	28	0.4	ASHRAE	ASHRAE
Alabama	Cherokee	91	22	0.7	ASHRAE	ASHRAE
Alabama	Chilton	93	27	0.4	ASHRAE	ASHRAE
Alabama	Choctaw	95	26	0.4	ASHRAE	Manual J
Alabama	Clarke	93	28	0.3	ASHRAE	ASHRAE
Alabama	Clay	94	22	0.7	Manual J	Manual J
Alabama	Cleburne	93	25	0.5	ASHRAE	ASHRAE
Alabama	Coffee	94	30	0.3	ASHRAE	ASHRAE
Alabama	Colbert	94	21	0.6	Manual J	Manual J
Alabama	Conecuh	93	28	0.3	ASHRAE	ASHRAE
Alabama	Coosa	93	22	0.6	Manual J	Manual J
Alabama	Covington	93	27	0.3	ASHRAE	ASHRAE
Alabama	Crenshaw	95	27	0.4	ASHRAE	Manual J
Alabama	Cullman	93	16	0.8	Manual J	Manual J
Alabama	Dale	94	30	0.3	ASHRAE	ASHRAE
Alabama	Dallas	95	26	0.4	Manual J	Manual J
Alabama	DeKalb	91	22	0.7	ASHRAE	ASHRAE
Alabama	Elmore	95	27	0.4	ASHRAE	Manual J
Alabama	Escambia	93	28	0.3	ASHRAE	ASHRAE
Alabama	Etowah	91	22	0.7	ASHRAE	ASHRAE
Alabama	Fayette	94	25	0.4	ASHRAE	Manual J
Alabama	Franklin	94	21	0.6	Manual J	Manual J
Alabama	Geneva	94	30	0.3	ASHRAE	ASHRAE
Alabama	Greene	94	25	0.4	ASHRAE	Manual J
Alabama	Hale	94	25	0.4	ASHRAE	Manual J
Alabama	Henry	94	30	0.3	ASHRAE	ASHRAE
Alabama	Houston	93	30	0.2	ASHRAE	ASHRAE
Alabama	Jackson	93	13	0.9	Manual J	Manual J
Alabama	Jefferson	93	24	0.5	Manual J	Manual J
Alabama	Lamar	95	25	0.5	ASHRAE	ASHRAE
Alabama	Lauderdale	94	21	0.6	Manual J	Manual J
Alabama	Lawrence	93	16	0.8	Manual J	Manual J
Alabama	Lee	91	28	0.4	ASHRAE	ASHRAE
Alabama	Limestone	93	23	0.6	ASHRAE	ASHRAE
Alabama	Lowndes	95	27	0.4	ASHRAE	Manual J
Alabama	Macon	91	28	0.4	ASHRAE	ASHRAE
Alabama	Madison	92	22	0.6	Manual J	Manual J
Alabama	Marengo	95	26	0.4	Manual J	Manual J
Alabama	Marion	94	21	0.6	Manual J	Manual J
Alabama	Marshall	91	22	0.7	ASHRAE	ASHRAE
Alabama	Mobile	93	29	0.3	Manual J	Manual J
Alabama	Monroe	93	28	0.3	ASHRAE	ASHRAE

Alabama	Montgomery	95	27	0.4	ASHRAE	Manual J
Alabama	Morgan	93	16	0.8	Manual J	Manual J
Alabama	Perry	92	26	0.5	Manual J	Manual J
Alabama	Pickens	94	25	0.4	ASHRAE	Manual J
Alabama	Pike	94	30	0.3	ASHRAE	ASHRAE
Alabama	Randolph	93	25	0.5	ASHRAE	ASHRAE
Alabama	Russell	95	24	0.4	ASHRAE	Manual J
Alabama	Shelby	93	27	0.4	ASHRAE	ASHRAE
Alabama	St. Clair	94	22	0.7	Manual J	Manual J
Alabama	Sumter	95	26	0.4	ASHRAE	Manual J
Alabama	Talladega	94	22	0.7	Manual J	Manual J
Alabama	Tallapoosa	93	22	0.6	Manual J	Manual J
Alabama	Tuscaloosa	94	25	0.4	ASHRAE	Manual J
Alabama	Walker	93	24	0.5	Manual J	Manual J
Alabama	Washington	93	29	0.3	Manual J	Manual J
Alabama	Wilcox	95	26	0.4	Manual J	Manual J
Alabama	Winston	93	16	0.8	Manual J	Manual J
Alaska						
Alaska	Aleutians East	59	12	70	Manual J	ASHRAE
Alaska	Anchorage	72	-14	14.7	ASHRAE	ASHRAE
Alaska	Bethel	71	-33	26.2	ASHRAE	ASHRAE
Alaska	Bristol Bay	68	-20	23.8	ASHRAE	ASHRAE
Alaska	Denali	72	-36	34	Manual J	ASHRAE
Alaska	Dillingham	66	-15	29.5	ASHRAE	ASHRAE
Alaska	Fairbanks North Star	78	-40	13.4	ASHRAE	ASHRAE
Alaska	Haines	70	4	11.8	ASHRAE	ASHRAE
Alaska	Hoonah-Angoon	66	8	16.3	ASHRAE	ASHRAE
Alaska	Juneau	70	8	13	ASHRAE	Manual J
Alaska	Kenai Peninsula	68	-20	25	Manual J	ASHRAE
Alaska	Ketchikan Gateway	69	19	8.7	ASHRAE	ASHRAE
Alaska	Kodiak Island	65	13	20.7	Manual J	ASHRAE
Alaska	Lake and Peninsula	67	-16	23	ASHRAE	ASHRAE
Alaska	Matanuska-Susitna	74	-19	14	Manual J	Manual J
Alaska	Nome	66	-29	189	Manual J	Manual J
Alaska	North Slope	67	-42	131.8	ASHRAE	ASHRAE
Alaska	Northwest Arctic	75	-40	30.8	ASHRAE	ASHRAE
Alaska	Petersburg	66	12	15.8	Manual J	ASHRAE
Alaska	Prince of Wales-	70	20	9.9	ASHRAE	ASHRAE
Alaska	Sitka	64	20	11	Manual J	Manual J
Alaska	Skagway Municipality	69	5	12	Manual J	ASHRAE
Alaska	Southeast Fairbanks	79	-46	23	ASHRAE	Manual J
Alaska	Valdez-Cordova	74	-33	25	Manual J	Manual J
Alaska	Wade Hampton	69	-20	45.5	Manual J	ASHRAE
Alaska	Wrangell	68	15	10	Manual J	Manual J
Alaska	Yakutat	64	6	26	ASHRAE	Manual J
Alaska	Yukon-Koyukuk	77	-44	19.8	Manual J	ASHRAE
Arizona						
Arizona	Apache	97	-13	6.8	Manual J - Micro	Manual J - Micro
Arizona	Cochise	103	16	1.7	Manual J - Micro	Manual J - Micro
Arizona	Coconino	110	-3	6.8	Manual J - Micro	Manual J - Micro
Arizona	Gila	108	11	1.6	Manual J - Micro	Manual J - Micro
Arizona	Graham	105	8	1.9	Manual J - Micro	Manual J - Micro

Arizona	Greenlee	104	7	2	Manual J - Micro	Manual J - Micro
Arizona	La Paz	112	25	0.2	Manual J - Micro	Manual J - Micro
Arizona	Maricopa	111	24	0.2	Manual J - Micro	Manual J - Micro
Arizona	Mohave	116	8	1.3	Manual J - Micro	Manual J - Micro
Arizona	Navajo	96	-7	1.6	Manual J - Micro	Manual J - Micro
Arizona	Pima	109	22	1.3	Manual J - Micro	Manual J - Micro
Arizona	Pinal	110	25	0.6	Manual J - Micro	Manual J - Micro
Arizona	Santa Cruz	105	19	0.9	Manual J - Micro	Manual J - Micro
Arizona	Yavapai	107	11	1.6	Manual J - Micro	Manual J - Micro
Arizona	Yuma	112	27	0.2	Manual J - Micro	Manual J - Micro
Arkansas						
Arkansas	Arkansas	93	25	0.6	Manual J	Manual J
Arkansas	Ashley	96	27	0.5	ASHRAE	ASHRAE
Arkansas	Baxter	94	18	0.8	ASHRAE	ASHRAE
Arkansas	Benton	93	16	0.9	ASHRAE	ASHRAE
Arkansas	Boone	91	16	0.9	ASHRAE	ASHRAE
Arkansas	Bradley	96	27	0.5	ASHRAE	ASHRAE
Arkansas	Calhoun	96	23	0.5	Manual J	Manual J
Arkansas	Carroll	91	16	0.9	ASHRAE	ASHRAE
Arkansas	Chicot	93	20	0.5	Manual J	Manual J
Arkansas	Clark	97	23	0.6	Manual J	Manual J
Arkansas	Clay	92	16	0.9	Manual J	Manual J
Arkansas	Cleburne	95	20	0.7	ASHRAE	ASHRAE
Arkansas	Cleveland	95	25	0.5	Manual J	Manual J
Arkansas	Columbia	96	25	0.5	Manual J	Manual J
Arkansas	Conway	95	21	0.6	ASHRAE	ASHRAE
Arkansas	Craighead	94	19	0.7	ASHRAE	Manual J
Arkansas	Crawford	97	20	0.6	ASHRAE	Manual J
Arkansas	Crittenden	95	20	0.6	ASHRAE	Manual J
Arkansas	Cross	94	19	0.7	ASHRAE	Manual J
Arkansas	Dallas	96	23	0.5	Manual J	Manual J
Arkansas	Desha	93	20	0.5	Manual J	Manual J
Arkansas	Drew	96	27	0.5	ASHRAE	ASHRAE
Arkansas	Faulkner	97	20	0.6	ASHRAE	Manual J
Arkansas	Franklin	97	20	0.6	ASHRAE	Manual J
Arkansas	Fulton	91	16	1	ASHRAE	ASHRAE
Arkansas	Garland	97	23	0.6	Manual J	Manual J
Arkansas	Grant	95	25	0.5	Manual J	Manual J
Arkansas	Greene	94	19	0.7	ASHRAE	Manual J
Arkansas	Hempstead	96	26	0.4	ASHRAE	Manual J
Arkansas	Hot Spring	97	23	0.6	Manual J	Manual J
Arkansas	Howard	96	25	0.5	ASHRAE	ASHRAE
Arkansas	Independence	95	20	0.7	ASHRAE	ASHRAE
Arkansas	Izard	95	20	0.7	ASHRAE	ASHRAE
Arkansas	Jackson	95	20	0.7	ASHRAE	ASHRAE
Arkansas	Jefferson	95	25	0.5	Manual J	Manual J
Arkansas	Johnson	95	21	0.6	ASHRAE	ASHRAE
Arkansas	Lafayette	96	26	0.4	ASHRAE	Manual J
Arkansas	Lawrence	93	19	0.8	Manual J	Manual J

Arkansas	Lee	94	19	0.6	Manual J	Manual J
Arkansas	Lincoln	95	25	0.5	Manual J	Manual J
Arkansas	Little River	96	26	0.4	ASHRAE	Manual J
Arkansas	Logan	95	21	0.6	ASHRAE	ASHRAE
Arkansas	Lonoke	97	20	0.6	ASHRAE	Manual J
Arkansas	Madison	93	15	0.9	Manual J	Manual J
Arkansas	Marion	94	18	0.8	Manual J	Manual J
Arkansas	Miller	96	26	0.4	ASHRAE	Manual J
Arkansas	Mississippi	95	17	0.7	Manual J	Manual J
Arkansas	Monroe	94	25	0.5	ASHRAE	ASHRAE
Arkansas	Montgomery	95	23	0.6	ASHRAE	ASHRAE
Arkansas	Nevada	96	23	0.5	Manual J	Manual J
Arkansas	Newton	91	16	0.9	ASHRAE	ASHRAE
Arkansas	Ouachita	96	23	0.5	Manual J	Manual J
Arkansas	Perry	95	21	0.6	ASHRAE	ASHRAE
Arkansas	Phillips	94	19	0.6	Manual J	Manual J
Arkansas	Pike	95	23	0.6	ASHRAE	ASHRAE
Arkansas	Poinsett	94	19	0.7	ASHRAE	Manual J
Arkansas	Polk	96	25	0.5	ASHRAE	ASHRAE
Arkansas	Pope	95	21	0.6	ASHRAE	ASHRAE
Arkansas	Prairie	94	25	0.5	ASHRAE	ASHRAE
Arkansas	Pulaski	97	20	0.6	ASHRAE	Manual J
Arkansas	Randolph	93	16	0.9	Manual J	Manual J
Arkansas	Saline	97	23	0.6	Manual J	Manual J
Arkansas	Scott	97	20	0.6	ASHRAE	Manual J
Arkansas	Searcy	94	18	0.8	Manual J	Manual J
Arkansas	Sebastian	97	20	0.6	ASHRAE	Manual J
Arkansas	Sevier	96	25	0.5	ASHRAE	ASHRAE
Arkansas	Sharp	95	20	0.7	ASHRAE	ASHRAE
Arkansas	St. Francis	94	19	0.7	ASHRAE	Manual J
Arkansas	Stone	95	20	0.7	ASHRAE	ASHRAE
Arkansas	Union	96	25	0.5	Manual J	Manual J
Arkansas	Van Buren	95	21	0.6	ASHRAE	ASHRAE
Arkansas	Washington	93	15	0.9	Manual J	Manual J
Arkansas	White	95	20	0.7	ASHRAE	ASHRAE
Arkansas	Woodruff	95	20	0.7	ASHRAE	ASHRAE
Arkansas	Yell	95	21	0.6	ASHRAE	ASHRAE

California						
California	Alameda	95	32	0.8	Manual J	Manual J - Micro
California	Alpine	88	4	11.5	Manual J - Micro	Manual J - Micro
California	Amador	102	28	1	Manual J - Micro	Manual J - Micro
California	Butte	102	27	1.2	Manual J - Micro	Manual J - Micro
California	Calaveras	102	23	2.9	Manual J - Micro	Manual J - Micro
California	Colusa	98	28	0.9	Manual J - Micro	Manual J - Micro
California	Contra Costa	97	27	0.6	Manual J	Manual J
California	Del Norte	96	27	1.4	Manual J - Micro	Manual J - Micro
California	El Dorado	97	6	9	Manual J - Micro	Manual J - Micro
California	Fresno	102	16	5.7	Manual J - Micro	Manual J - Micro
California	Glenn	101	30	0.8	Manual J - Micro	Manual J - Micro

California	Humboldt	96	29	1	Manual J - Micro	Manual J - Micro
California	Imperial	110	33	0.1	Manual J - Micro	Manual J - Micro
California	Inyo	118	8	1.1	Manual J - Micro	Manual J - Micro
California	Kern	108	23	1.7	Manual J - Micro	Manual J - Micro
California	Kings	102	30	0.5	Manual J - Micro	ASHRAE
California	Lake	101	26	1.2	Manual J - Micro	Manual J - Micro
California	Lassen	94	-4	5.8	Manual J - Micro	Manual J - Micro
California	Los Angeles	101	24	0.5	Manual J -	Manual J
California	Madera	104	26	0.6	Manual J - Micro	Manual J - Micro
California	Marin	88	32	0.7	Manual J - Micro	Manual J - Micro
California	Mariposa	98	20	4.1	Manual J - Micro	Manual J - Micro
California	Mendocino	97	26	1.2	ASHRAE	Manual J - Micro
California	Merced	99	31	0.5	ASHRAE	Manual J - Micro
California	Modoc	95	0	4	Manual J - Micro	Manual J - Micro
California	Mono	88	-13	18.9	Manual J - Micro	Manual J - Micro
California	Monterey	92	24	1.3	Manual J - Micro	Manual J - Micro
California	Napa	98	31	0.7	Manual J - Micro	Manual J - Micro
California	Nevada	95	-10	8	Manual J - Micro	Manual J - Micro
California	Orange	102	35	0.2	Manual J - Micro	Manual J - Micro
California	Placer	103	0	6.7	Manual J - Micro	Manual J - Micro
California	Plumas	97	1	5.3	Manual J - Micro	Manual J - Micro
California	Riverside	112	11	2.2	Manual J - Micro	Manual J - Micro
California	Sacramento	100	31	0.6	Manual J - Micro	Manual J - Micro
California	San Benito	93	29	0.7	Manual J - Micro	Manual J - Micro
California	San Bernardino	112	7	4.3	Manual J - Micro	Manual J - Micro
California	San Diego	105	23	1.1	Manual J - Micro	Manual J - Micro
California	San Francisco	79	40	1.8	ASHRAE	Manual J
California	San Joaquin	98	30	0.5	Manual J	Manual J - Micro
California	San Luis Obispo	99	23	0.8	Manual J - Micro	Manual J - Micro
California	San Mateo	86	31	0.8	Manual J - Micro	Manual J - Micro
California	Santa Barbara	93	24	2	Manual J - Micro	Manual J - Micro
California	Santa Clara	90	27	1.5	Manual J - Micro	Manual J - Micro
California	Santa Cruz	87	33	0.9	Manual J - Micro	Manual J - Micro

California	Shasta	102	8	6	ASHRAE	Manual J - Micro
California	Sierra	94	0	4.4	Manual J - Micro	Manual J - Micro
California	Siskiyou	96	0	3	Manual J - Micro	Manual J - Micro
California	Solano	99	31	0.5	ASHRAE	Manual J - Micro
California	Sonoma	96	29	1	Manual J - Micro	Manual J - Micro
California	Stanislaus	99	28	1	Manual J - Micro	Manual J - Micro
California	Sutter	101	31	0.7	Manual J	Manual J
California	Tehama	102	14	6.2	ASHRAE	Manual J - Micro
California	Trinity	97	22	1.6	Manual J - Micro	Manual J - Micro
California	Tulare	102	7	8.7	Manual J - Micro	Manual J - Micro
California	Tuolumne	99	21	1.7	Manual J - Micro	Manual J - Micro
California	Ventura	95	32	0.5	Manual J - Micro	Manual J - Micro
California	Yolo	100	28	0.6	Manual J - Micro	Manual J - Micro
California	Yuba	100	25	2.4	Manual J - Micro	Manual J - Micro

Colorado	-	-	-	-	-	-
Colorado	Adams	91	5	1.9	ASHRAE	ASHRAE
Colorado	Alamosa	83	-10	6	ASHRAE	Manual J
Colorado	Arapahoe	91	4	2.4	ASHRAE	Manual J
Colorado	Archuleta	88	5	3.3	ASHRAE	ASHRAE
Colorado	Baca	95	10	1.4	ASHRAE	ASHRAE
Colorado	Bent	98	7	1.5	Manual J	ASHRAE
Colorado	Boulder	91	0	2.2	Manual J	Manual J
Colorado	Broomfield	91	0	2.2	Manual J	Manual J
Colorado	Chaffee	81	-14	29.1	Manual J	Manual J
Colorado	Cheyenne	93	7	1.9	ASHRAE	ASHRAE
Colorado	Clear Creek	91	0	2.2	Manual J	Manual J
Colorado	Conejos	83	-10	6	ASHRAE	Manual J
Colorado	Costilla	83	-10	6	ASHRAE	Manual J
Colorado	Crowley	97	7	1.4	ASHRAE	Manual J
Colorado	Custer	83	-10	6	ASHRAE	Manual J
Colorado	Delta	91	9	2.1	ASHRAE	ASHRAE
Colorado	Denver	92	3	2.1	Manual J	Manual J
Colorado	Dolores	91	7	2.6	ASHRAE	ASHRAE
Colorado	Douglas	91	4	2.4	ASHRAE	Manual J
Colorado	Eagle	86	-2	5.1	ASHRAE	Manual J
Colorado	El Paso	88	7	2.5	ASHRAE	ASHRAE
Colorado	Elbert	90	1	3	ASHRAE	ASHRAE
Colorado	Fremont	88	7	2.5	ASHRAE	ASHRAE
Colorado	Garfield	93	6	2.6	Manual J	Manual J
Colorado	Gilpin	91	0	2.2	Manual J	Manual J
Colorado	Grand	91	0	2.2	Manual J	Manual J
Colorado	Gunnison	81	-11	8.8	ASHRAE	ASHRAE
Colorado	Hinsdale	81	-11	8.8	ASHRAE	ASHRAE
Colorado	Huerfano	96	5	1.7	Manual J	Manual J
Colorado	Jackson	84	1	4.8	ASHRAE	ASHRAE
Colorado	Jefferson	91	5	1.9	ASHRAE	ASHRAE
Colorado	Kiowa	98	7	1.5	Manual J	ASHRAE

Colorado	Kit Carson	93	7	1.9	ASHRAE	ASHRAE
Colorado	La Plata	88	5	3.3	ASHRAE	ASHRAE
Colorado	Lake	81	-14	29.1	Manual J	Manual J
Colorado	Larimer	91	3	2.5	Manual J	Manual J
Colorado	Las Animas	91	8	1.8	Manual J	Manual J
Colorado	Lincoln	90	1	3	Manual J	Manual J
Colorado	Logan	93	-2	2.2	Manual J	Manual J
Colorado	Mesa	95	10	1.5	ASHRAE	ASHRAE
Colorado	Mineral	81	-11	8.8	ASHRAE	ASHRAE
Colorado	Moffat	88	-9	5.7	Manual J	Manual J
Colorado	Montezuma	91	7	2.6	ASHRAE	ASHRAE
Colorado	Montrose	91	9	2.1	ASHRAE	ASHRAE
Colorado	Morgan	91	3	2.1	ASHRAE	ASHRAE
Colorado	Otero	97	7	1.4	ASHRAE	Manual J
Colorado	Ouray	91	9	2.1	ASHRAE	ASHRAE
Colorado	Park	81	-14	29.1	Manual J	Manual J
Colorado	Phillips	93	5	2.2	ASHRAE	ASHRAE
Colorado	Pitkin	82	1	6.6	Manual J	ASHRAE
Colorado	Prowers	98	7	1.5	Manual J	ASHRAE
Colorado	Pueblo	96	5	1.7	Manual J	Manual J
Colorado	Rio Blanco	88	-2	4.1	ASHRAE	ASHRAE
Colorado	Rio Grande	83	-10	6	ASHRAE	Manual J
Colorado	Routt	84	1	4.8	ASHRAE	ASHRAE
Colorado	Saguache	83	-10	6	ASHRAE	Manual J
Colorado	San Juan	88	5	3.3	ASHRAE	ASHRAE
Colorado	San Miguel	91	9	2.1	ASHRAE	ASHRAE
Colorado	Sedgwick	93	5	2.2	ASHRAE	ASHRAE
Colorado	Summit	81	-14	29.1	Manual J	Manual J
Colorado	Teller	88	7	2.5	ASHRAE	ASHRAE
Colorado	Washington	91	3	2.1	ASHRAE	ASHRAE
Colorado	Weld	92	0	2.5	Manual J	ASHRAE
Colorado	Yuma	93	7	1.9	ASHRAE	ASHRAE
Connecticut - - - - -						
Connecticut	Fairfield	85	9	2.1	Manual J	Manual J
Connecticut	Hartford	89	8	2.1	ASHRAE	Manual J
Connecticut	Litchfield	88	2	1.8	ASHRAE	Manual J
Connecticut	Middlesex	88	9	2.2	ASHRAE	Manual J
Connecticut	New Haven	88	2	1.8	ASHRAE	Manual J
Connecticut	New London	86	7	2.1	Manual J	Manual J
Connecticut	Tolland	86	9	2.2	ASHRAE	Manual J
Connecticut	Windham	86	9	2.2	ASHRAE	Manual J
Delaware - - - - -						
Delaware	Kent	90	18	1.2	Manual J	Manual J
Delaware	New Castle	89	16	1.3	ASHRAE	Manual J
Delaware	Sussex	91	19	1.1	ASHRAE	Manual J
District of Columbia - - - - -						
District of Columbia	District of Columbia	92	21	0.9	ASHRAE	ASHRAE
Florida - - - - -						
Florida	Alachua	92	33	0.2	Manual J	Manual J
Florida	Baker	94	32	0.2	Manual J	ASHRAE
Florida	Bay	91	36	0.2	ASHRAE	ASHRAE
Florida	Bradford	92	33	0.2	Manual J	Manual J
Florida	Brevard	91	42	0.1	Manual J	Manual J
Florida	Broward	91	48	0	ASHRAE	ASHRAE
Florida	Calhoun	93	30	0.2	ASHRAE	ASHRAE
Florida	Charlotte	91	41	0.1	ASHRAE	ASHRAE

Florida	Citrus	91	34	0.1	ASHRAE	ASHRAE
Florida	Clay	94	32	0.2	Manual J	ASHRAE
Florida	Collier	90	47	0	ASHRAE	ASHRAE
Florida	Columbia	92	33	0.2	Manual J	Manual J
Florida	DeSoto	91	41	0.1	ASHRAE	ASHRAE
Florida	Dixie	92	30	0.2	ASHRAE	ASHRAE
Florida	Duval	94	32	0.2	Manual J	ASHRAE
Florida	Escambia	92	32	0.2	Manual J	Manual J
Florida	Flagler	91	39	0.1	Manual J	Manual J
Florida	Franklin	91	36	0.2	ASHRAE	ASHRAE
Florida	Gadsden	94	29	0.2	Manual J	ASHRAE
Florida	Gilchrist	92	30	0.2	ASHRAE	ASHRAE
Florida	Glades	91	44	0	Manual J	Manual J
Florida	Gulf	86	40	0.2	Manual J	Manual J
Florida	Hamilton	94	31	0.2	Manual J	ASHRAE
Florida	Hardee	91	41	0.1	Manual J	Manual J
Florida	Hendry	91	44	0	Manual J	Manual J
Florida	Hernando	91	34	0.1	ASHRAE	ASHRAE
Florida	Highlands	91	41	0.1	ASHRAE	ASHRAE
Florida	Hillsborough	92	43	0.1	Manual J	ASHRAE
Florida	Holmes	94	30	0.3	ASHRAE	ASHRAE
Florida	Indian River	91	43	0	Manual J	ASHRAE
Florida	Jackson	93	30	0.2	ASHRAE	ASHRAE
Florida	Jefferson	94	29	0.2	Manual J	ASHRAE
Florida	Lafayette	91	30	0.2	ASHRAE	ASHRAE
Florida	Lake	92	39	0.1	ASHRAE	ASHRAE
Florida	Lee	93	45	0	Manual J	Manual J
Florida	Leon	94	29	0.2	Manual J	ASHRAE
Florida	Levy	92	30	0.2	ASHRAE	ASHRAE
Florida	Liberty	94	29	0.2	Manual J	ASHRAE
Florida	Madison	91	31	0.2	ASHRAE	ASHRAE
Florida	Manatee	91	44	0.1	ASHRAE	ASHRAE
Florida	Marion	92	34	0.1	Manual J	ASHRAE
Florida	Martin	90	41	0.1	ASHRAE	ASHRAE
Florida	Miami-Dade	91	48	0	ASHRAE	Manual J
Florida	Monroe	91	55	0	Manual J	ASHRAE
Florida	Nassau	94	32	0.2	Manual J	ASHRAE
Florida	Okaloosa	93	27	0.3	ASHRAE	ASHRAE
Florida	Okeechobee	90	41	0.1	ASHRAE	ASHRAE
Florida	Orange	93	42	0.1	Manual J	Manual J
Florida	Osceola	91	42	0.1	Manual J	Manual J
Florida	Palm Beach	91	44	0	Manual J	Manual J
Florida	Pasco	91	34	0.1	ASHRAE	ASHRAE
Florida	Pinellas	92	45	0.1	Manual J	ASHRAE
Florida	Polk	91	41	0.1	Manual J	Manual J
Florida	Putnam	92	33	0.2	Manual J	Manual J
Florida	Santa Rosa	93	31	0.3	ASHRAE	Manual J
Florida	Sarasota	92	43	0.1	Manual J	Manual J
Florida	Seminole	93	38	0.1	Manual J	Manual J
Florida	St. Johns	90	37	0.2	ASHRAE	ASHRAE
Florida	St. Lucie	90	41	0.1	ASHRAE	ASHRAE
Florida	Sumter	92	39	0.1	ASHRAE	ASHRAE
Florida	Suwannee	91	30	0.2	ASHRAE	ASHRAE
Florida	Taylor	91	30	0.2	ASHRAE	ASHRAE
Florida	Union	92	33	0.2	Manual J	Manual J
Florida	Volusia	91	39	0.1	Manual J	Manual J
Florida	Wakulla	94	29	0.2	Manual J	ASHRAE

Florida	Walton	93	27	0.3	ASHRAE	ASHRAE
Florida	Washington	91	30	0.2	ASHRAE	ASHRAE
Georgia						
Georgia	Appling	93	30	0.3	ASHRAE	ASHRAE
Georgia	Atkinson	93	30	0.3	ASHRAE	ASHRAE
Georgia	Bacon	93	30	0.3	ASHRAE	ASHRAE
Georgia	Baker	95	30	0.3	Manual J	ASHRAE
Georgia	Baldwin	95	27	0.4	ASHRAE	Manual J
Georgia	Banks	91	27	0.6	ASHRAE	ASHRAE
Georgia	Barrow	91	28	0.6	ASHRAE	ASHRAE
Georgia	Bartow	91	23	0.6	ASHRAE	ASHRAE
Georgia	Ben Hill	93	30	0.3	ASHRAE	ASHRAE
Georgia	Berrien	94	31	0.2	Manual J	ASHRAE
Georgia	Bibb	95	27	0.4	ASHRAE	Manual J
Georgia	Bleckley	95	28	0.4	Manual J	ASHRAE
Georgia	Brantley	95	31	0.2	ASHRAE	Manual J
Georgia	Brooks	94	31	0.2	Manual J	ASHRAE
Georgia	Bryan	93	30	0.3	ASHRAE	ASHRAE
Georgia	Bulloch	93	30	0.3	ASHRAE	ASHRAE
Georgia	Burke	95	26	0.4	Manual J	Manual J
Georgia	Butts	90	22	0.5	Manual J	Manual J
Georgia	Calhoun	95	30	0.3	Manual J	ASHRAE
Georgia	Camden	93	30	0.2	ASHRAE	ASHRAE
Georgia	Candler	93	25	0.4	Manual J	Manual J
Georgia	Carroll	90	21	0.8	ASHRAE	ASHRAE
Georgia	Catoosa	93	22	0.7	ASHRAE	Manual J
Georgia	Charlton	95	31	0.2	ASHRAE	Manual J
Georgia	Chatham	93	30	0.3	ASHRAE	ASHRAE
Georgia	Chattahoochee	95	24	0.4	ASHRAE	Manual J
Georgia	Chattooga	93	22	0.6	ASHRAE	Manual J
Georgia	Cherokee	91	25	0.6	ASHRAE	ASHRAE
Georgia	Clarke	93	26	0.5	ASHRAE	Manual J
Georgia	Clay	95	24	0.4	ASHRAE	Manual J
Georgia	Clayton	92	26	0.5	Manual J	Manual J
Georgia	Clinch	95	31	0.2	ASHRAE	Manual J
Georgia	Cobb	91	25	0.6	ASHRAE	ASHRAE
Georgia	Coffee	93	30	0.3	ASHRAE	ASHRAE
Georgia	Colquitt	95	30	0.3	Manual J	Manual J
Georgia	Columbia	95	26	0.4	Manual J	Manual J
Georgia	Cook	94	30	0.3	Manual J	Manual J
Georgia	Coweta	90	21	0.8	ASHRAE	ASHRAE
Georgia	Crawford	95	27	0.4	ASHRAE	Manual J
Georgia	Crisp	94	25	0.4	Manual J	Manual J
Georgia	Dade	93	22	0.7	ASHRAE	Manual J
Georgia	Dawson	91	27	0.6	ASHRAE	ASHRAE
Georgia	Decatur	94	29	0.2	Manual J	ASHRAE
Georgia	DeKalb	91	25	0.6	ASHRAE	ASHRAE
Georgia	Dodge	93	25	0.4	Manual J	Manual J
Georgia	Dooly	94	25	0.4	Manual J	Manual J
Georgia	Dougherty	95	30	0.3	Manual J	ASHRAE
Georgia	Douglas	92	25	0.6	ASHRAE	Manual J
Georgia	Early	93	30	0.2	ASHRAE	ASHRAE
Georgia	Echols	94	31	0.2	Manual J	ASHRAE
Georgia	Effingham	93	30	0.3	ASHRAE	ASHRAE
Georgia	Elbert	93	26	0.6	Manual J	ASHRAE
Georgia	Emanuel	93	25	0.4	Manual J	Manual J
Georgia	Evans	93	30	0.3	ASHRAE	ASHRAE

Georgia	Fannin	92	18	1	Manual J	Manual J
Georgia	Fayette	91	23	0.7	ASHRAE	Manual J
Georgia	Floyd	93	22	0.6	ASHRAE	Manual J
Georgia	Forsyth	91	27	0.6	ASHRAE	ASHRAE
Georgia	Franklin	93	26	0.5	ASHRAE	Manual J
Georgia	Fulton	92	25	0.6	ASHRAE	Manual J
Georgia	Gilmer	93	22	0.7	Manual J	Manual J
Georgia	GlascocK	95	26	0.4	Manual J	Manual J
Georgia	Glynn	93	30	0.2	ASHRAE	ASHRAE
Georgia	Gordon	93	22	0.7	Manual J	Manual J
Georgia	Grady	94	29	0.2	Manual J	ASHRAE
Georgia	Greene	93	26	0.5	ASHRAE	Manual J
Georgia	Gwinnett	91	25	0.6	ASHRAE	ASHRAE
Georgia	Habersham	91	27	0.6	ASHRAE	ASHRAE
Georgia	Hall	91	27	0.6	ASHRAE	ASHRAE
Georgia	Hancock	93	25	0.4	Manual J	Manual J
Georgia	Haralson	91	23	0.6	ASHRAE	ASHRAE
Georgia	Harris	94	29	0.3	ASHRAE	Manual J
Georgia	Hart	93	26	0.6	Manual J	ASHRAE
Georgia	Heard	91	23	0.6	Manual J	Manual J
Georgia	Henry	90	22	0.5	Manual J	Manual J
Georgia	Houston	95	28	0.4	Manual J	ASHRAE
Georgia	Irwin	94	30	0.3	Manual J	Manual J
Georgia	Jackson	91	28	0.6	ASHRAE	ASHRAE
Georgia	Jasper	90	22	0.5	Manual J	Manual J
Georgia	Jeff Davis	93	30	0.3	ASHRAE	ASHRAE
Georgia	Jefferson	95	26	0.4	Manual J	Manual J
Georgia	Jenkins	95	26	0.4	Manual J	Manual J
Georgia	Johnson	93	25	0.4	Manual J	Manual J
Georgia	Jones	95	27	0.4	ASHRAE	Manual J
Georgia	Lamar	90	22	0.5	Manual J	Manual J
Georgia	Lanier	94	31	0.2	Manual J	ASHRAE
Georgia	Laurens	93	25	0.4	Manual J	Manual J
Georgia	Lee	94	25	0.4	Manual J	Manual J
Georgia	Liberty	93	30	0.3	ASHRAE	ASHRAE
Georgia	Lincoln	93	22	0.7	Manual J	Manual J
Georgia	Long	93	30	0.2	ASHRAE	ASHRAE
Georgia	Lowndes	94	31	0.2	Manual J	ASHRAE
Georgia	Lumpkin	91	27	0.6	ASHRAE	ASHRAE
Georgia	Macon	94	25	0.4	Manual J	Manual J
Georgia	Madison	93	26	0.5	ASHRAE	Manual J
Georgia	Marion	94	25	0.4	Manual J	Manual J
Georgia	McDuffie	95	26	0.4	Manual J	Manual J
Georgia	McIntosh	93	30	0.2	ASHRAE	ASHRAE
Georgia	Meriwether	90	21	0.8	ASHRAE	ASHRAE
Georgia	Miller	93	30	0.2	ASHRAE	ASHRAE
Georgia	Mitchell	95	30	0.3	Manual J	ASHRAE
Georgia	Monroe	90	22	0.5	Manual J	Manual J
Georgia	Montgomery	93	25	0.4	Manual J	Manual J
Georgia	Morgan	93	26	0.5	ASHRAE	Manual J
Georgia	Murray	93	22	0.7	Manual J	Manual J
Georgia	Muscogee	94	29	0.3	ASHRAE	Manual J
Georgia	Newton	91	28	0.6	ASHRAE	ASHRAE
Georgia	Oconee	93	26	0.5	ASHRAE	Manual J
Georgia	Oglethorpe	93	26	0.5	ASHRAE	Manual J
Georgia	Paulding	91	23	0.6	ASHRAE	ASHRAE
Georgia	Peach	95	27	0.4	ASHRAE	Manual J

Georgia	Pickens	91	23	0.6	ASHRAE	ASHRAE
Georgia	Pierce	95	31	0.2	ASHRAE	Manual J
Georgia	Pike	90	22	0.5	Manual J	Manual J
Georgia	Polk	93	22	0.6	ASHRAE	Manual J
Georgia	Pulaski	95	28	0.4	Manual J	ASHRAE
Georgia	Putnam	93	26	0.5	ASHRAE	Manual J
Georgia	Quitman	95	24	0.4	ASHRAE	Manual J
Georgia	Rabun	91	28	0.5	ASHRAE	ASHRAE
Georgia	Randolph	95	30	0.3	Manual J	ASHRAE
Georgia	Richmond	95	26	0.4	Manual J	Manual J
Georgia	Rockdale	91	25	0.6	ASHRAE	ASHRAE
Georgia	Schley	94	25	0.4	Manual J	Manual J
Georgia	Screven	95	26	0.4	Manual J	Manual J
Georgia	Seminole	93	30	0.2	ASHRAE	ASHRAE
Georgia	Spalding	90	22	0.5	Manual J	Manual J
Georgia	Stephens	91	28	0.5	ASHRAE	ASHRAE
Georgia	Stewart	95	24	0.4	ASHRAE	Manual J
Georgia	Sumter	94	25	0.4	Manual J	Manual J
Georgia	Talbot	94	29	0.3	ASHRAE	Manual J
Georgia	Taliaferro	93	26	0.5	ASHRAE	Manual J
Georgia	Tattnall	93	30	0.3	ASHRAE	ASHRAE
Georgia	Taylor	94	25	0.4	Manual J	Manual J
Georgia	Telfair	93	30	0.3	ASHRAE	ASHRAE
Georgia	Terrell	95	30	0.3	Manual J	ASHRAE
Georgia	Thomas	95	30	0.3	Manual J	Manual J
Georgia	Tift	95	30	0.3	Manual J	Manual J
Georgia	Toombs	93	30	0.3	ASHRAE	ASHRAE
Georgia	Towns	91	27	0.6	ASHRAE	ASHRAE
Georgia	Treutlen	93	25	0.4	Manual J	Manual J
Georgia	Troup	91	23	0.6	Manual J	Manual J
Georgia	Turner	95	30	0.3	Manual J	Manual J
Georgia	Twiggs	95	28	0.4	Manual J	ASHRAE
Georgia	Union	91	27	0.6	ASHRAE	ASHRAE
Georgia	Upson	90	22	0.5	Manual J	Manual J
Georgia	Walker	93	22	0.7	ASHRAE	Manual J
Georgia	Walton	91	28	0.6	ASHRAE	ASHRAE
Georgia	Ware	95	31	0.2	ASHRAE	Manual J
Georgia	Warren	95	26	0.4	Manual J	Manual J
Georgia	Washington	93	25	0.4	Manual J	Manual J
Georgia	Wayne	93	30	0.2	ASHRAE	ASHRAE
Georgia	Webster	94	25	0.4	Manual J	Manual J
Georgia	Wheeler	93	25	0.4	Manual J	Manual J
Georgia	White	91	27	0.6	ASHRAE	ASHRAE
Georgia	Whitfield	93	22	0.7	Manual J	Manual J
Georgia	Wilcox	95	28	0.4	Manual J	ASHRAE
Georgia	Wilkes	93	26	0.5	ASHRAE	Manual J
Georgia	Wilkinson	93	25	0.4	Manual J	Manual J
Georgia	Worth	95	30	0.3	Manual J	ASHRAE
Guam						
Guam	N/A	89	75	0	ASHRAE	ASHRAE
Hawaii						
Hawaii	Hawaii	87	63	0	Manual J	ASHRAE
Hawaii	Honolulu	90	59	0	Manual J	Manual J
Hawaii	Kalawao	88	61	0	ASHRAE	ASHRAE
Hawaii	Kauai	84	62	0	ASHRAE	Manual J
Hawaii	Maui	88	61	0	ASHRAE	ASHRAE

Idaho						
Idaho	Ada	95	11	1.9	ASHRAE	Manual J
Idaho	Adams	83	-2	9.2	Manual J	Manual J
Idaho	Bannock	91	1	3.2	ASHRAE	Manual J
Idaho	Bear Lake	91	0	3.2	ASHRAE	Manual J
Idaho	Benewah	89	10	3.7	Manual J	ASHRAE
Idaho	Bingham	91	1	3.2	ASHRAE	Manual J
Idaho	Blaine	90	12	2.6	ASHRAE	ASHRAE
Idaho	Boise	95	11	1.9	ASHRAE	Manual J
Idaho	Bonner	89	10	3.7	Manual J	ASHRAE
Idaho	Bonneville	90	-2	4.1	ASHRAE	Manual J
Idaho	Boundary	89	10	3.7	Manual J	ASHRAE
Idaho	Butte	91	1	3.2	ASHRAE	Manual J
Idaho	Camas	90	-11	16.3	ASHRAE	ASHRAE
Idaho	Canyon	93	16	2.1	ASHRAE	Manual J
Idaho	Caribou	90	-2	4.1	ASHRAE	Manual J
Idaho	Cassia	91	6	2.6	Manual J	Manual J
Idaho	Clark	88	0	4.5	ASHRAE	ASHRAE
Idaho	Clearwater	93	15	3.4	Manual J	Manual J
Idaho	Custer	89	-11	16.3	Manual J	ASHRAE
Idaho	Elmore	97	9	2	ASHRAE	Manual J
Idaho	Franklin	91	0	3.2	ASHRAE	Manual J
Idaho	Fremont	88	0	4.5	ASHRAE	ASHRAE
Idaho	Gem	93	16	2.1	ASHRAE	Manual J
Idaho	Gooding	90	12	2.6	ASHRAE	ASHRAE
Idaho	Idaho	93	15	3.4	Manual J	Manual J
Idaho	Jefferson	90	-2	4.1	ASHRAE	Manual J
Idaho	Jerome	90	12	2.6	ASHRAE	ASHRAE
Idaho	Kootenai	89	10	3.7	Manual J	ASHRAE
Idaho	Latah	87	0	3.6	Manual J	Manual J
Idaho	Lemhi	88	0	4.8	Manual J	ASHRAE
Idaho	Lewis	93	15	3.4	Manual J	Manual J
Idaho	Lincoln	90	12	2.6	ASHRAE	ASHRAE
Idaho	Madison	88	0	4.5	ASHRAE	ASHRAE
Idaho	Minidoka	91	6	2.6	Manual J	Manual J
Idaho	Nez Perce	95	18	1.7	ASHRAE	Manual J
Idaho	Oneida	91	1	3.2	ASHRAE	Manual J
Idaho	Owyhee	97	9	2	ASHRAE	Manual J
Idaho	Payette	95	16	1.9	ASHRAE	ASHRAE
Idaho	Power	91	1	3.2	ASHRAE	Manual J
Idaho	Shoshone	84	8	5.6	ASHRAE	Manual J
Idaho	Teton	82	0	4.5	ASHRAE	ASHRAE
Idaho	Twin Falls	95	2	2.5	Manual J	Manual J
Idaho	Valley	83	-2	9.2	Manual J	Manual J
Idaho	Washington	95	16	1.9	ASHRAE	ASHRAE
Illinois						
Illinois	Adams	90	3	1.5	ASHRAE	Manual J
Illinois	Alexander	95	14	1	Manual J	Manual J
Illinois	Bond	92	4	1.5	Manual J	Manual J
Illinois	Boone	90	-3	2.5	Manual J	Manual J
Illinois	Brown	90	3	1.5	ASHRAE	Manual J
Illinois	Bureau	88	-2	2.1	ASHRAE	Manual J
Illinois	Calhoun	94	2	1.4	Manual J	Manual J
Illinois	Carroll	89	0	2.2	Manual J	Manual J
Illinois	Cass	90	9	1.4	ASHRAE	ASHRAE
Illinois	Champaign	92	1	1.8	Manual J	Manual J

Illinois	Christian	91	5	1.6	Manual J	Manual J
Illinois	Clark	90	7	1.4	Manual J	Manual J
Illinois	Clay	91	14	1.2	ASHRAE	ASHRAE
Illinois	Clinton	92	4	1.5	Manual J	Manual J
Illinois	Coles	90	9	1.4	Manual J	ASHRAE
Illinois	Cook	91	2	2.1	Manual J	Manual J
Illinois	Crawford	91	12	1.1	ASHRAE	ASHRAE
Illinois	Cumberland	90	9	1.4	Manual J	ASHRAE
Illinois	De Witt	90	-2	1.8	Manual J	Manual J
Illinois	DeKalb	88	-2	2.3	ASHRAE	Manual J
Illinois	Douglas	90	9	1.4	Manual J	ASHRAE
Illinois	DuPage	88	1	2.3	Manual J	Manual J
Illinois	Edgar	90	1	1.6	Manual J	Manual J
Illinois	Edwards	91	12	1.1	ASHRAE	ASHRAE
Illinois	Effingham	90	9	1.4	Manual J	ASHRAE
Illinois	Fayette	91	14	1.2	ASHRAE	ASHRAE
Illinois	Ford	92	1	1.8	Manual J	Manual J
Illinois	Franklin	91	16	0.9	ASHRAE	ASHRAE
Illinois	Fulton	92	0	2	Manual J	Manual J
Illinois	Gallatin	91	14	1.1	ASHRAE	ASHRAE
Illinois	Greene	90	9	1.4	ASHRAE	ASHRAE
Illinois	Grundy	90	0	2.2	Manual J	Manual J
Illinois	Hamilton	91	11	1.3	ASHRAE	Manual J
Illinois	Hancock	91	7	1.4	Manual J	ASHRAE
Illinois	Hardin	91	14	1.1	ASHRAE	ASHRAE
Illinois	Henderson	90	1	1.6	ASHRAE	Manual J
Illinois	Henry	91	0	1.8	Manual J	Manual J
Illinois	Iroquois	90	1	2	Manual J	Manual J
Illinois	Jackson	93	7	1.3	Manual J	Manual J
Illinois	Jasper	90	9	1.4	Manual J	ASHRAE
Illinois	Jefferson	91	11	1.3	ASHRAE	Manual J
Illinois	Jersey	94	2	1.4	Manual J	Manual J
Illinois	Jo Daviess	86	-3	2.6	Manual J	Manual J
Illinois	Johnson	91	16	0.9	ASHRAE	ASHRAE
Illinois	Kane	88	-2	2.5	ASHRAE	Manual J
Illinois	Kankakee	90	1	2	Manual J	Manual J
Illinois	Kendall	88	0	2.2	ASHRAE	Manual J
Illinois	Knox	91	-2	2	Manual J	Manual J
Illinois	Lake	89	-3	2.7	Manual J	Manual J
Illinois	LaSalle	91	-2	2.1	Manual J	Manual J
Illinois	Lawrence	91	12	1.1	ASHRAE	ASHRAE
Illinois	Lee	90	-2	2.6	Manual J	Manual J
Illinois	Livingston	90	-2	1.8	Manual J	Manual J
Illinois	Logan	91	5	1.5	Manual J	Manual J
Illinois	Macon	91	5	1.6	Manual J	Manual J
Illinois	Macoupin	90	9	1.4	ASHRAE	ASHRAE
Illinois	Madison	93	10	1.1	Manual J	Manual J
Illinois	Marion	91	14	1.2	ASHRAE	ASHRAE
Illinois	Marshall	91	-2	2.1	Manual J	Manual J
Illinois	Mason	91	5	1.5	Manual J	Manual J
Illinois	Massac	92	15	0.9	ASHRAE	Manual J
Illinois	McDonough	92	0	2	Manual J	Manual J
Illinois	McHenry	88	-2	2.5	Manual J	Manual J
Illinois	McLean	90	-2	1.8	Manual J	Manual J
Illinois	Menard	91	5	1.5	Manual J	Manual J
Illinois	Mercer	91	0	1.8	Manual J	Manual J
Illinois	Monroe	93	2	1.4	Manual J	Manual J

Illinois	Montgomery	92	4	1.5	Manual J	Manual J
Illinois	Morgan	90	9	1.4	ASHRAE	ASHRAE
Illinois	Moultrie	90	9	1.4	Manual J	ASHRAE
Illinois	Ogle	90	-2	2.6	Manual J	Manual J
Illinois	Peoria	90	2	1.7	Manual J	Manual J
Illinois	Perry	93	7	1.3	Manual J	Manual J
Illinois	Piatt	92	5	1.6	Manual J	Manual J
Illinois	Pike	90	3	1.5	ASHRAE	Manual J
Illinois	Pope	92	15	0.9	ASHRAE	Manual J
Illinois	Pulaski	92	15	0.9	ASHRAE	Manual J
Illinois	Putnam	91	-2	2.1	Manual J	Manual J
Illinois	Randolph	93	10	1.1	Manual J	Manual J
Illinois	Richland	91	12	1.1	ASHRAE	ASHRAE
Illinois	Rock Island	91	0	1.8	Manual J	Manual J
Illinois	Saline	91	16	0.9	ASHRAE	ASHRAE
Illinois	Sangamon	91	5	1.5	Manual J	Manual J
Illinois	Schuyler	92	0	2	Manual J	Manual J
Illinois	Scott	90	9	1.4	ASHRAE	ASHRAE
Illinois	Shelby	91	5	1.6	Manual J	Manual J
Illinois	St. Clair	93	10	1.1	Manual J	Manual J
Illinois	Stark	90	2	1.7	Manual J	Manual J
Illinois	Stephenson	89	-4	2.8	Manual J	Manual J
Illinois	Tazewell	90	2	1.7	Manual J	Manual J
Illinois	Union	93	7	1.3	Manual J	Manual J
Illinois	Vermilion	90	1	1.6	Manual J	Manual J
Illinois	Wabash	92	6	1.5	Manual J	Manual J
Illinois	Warren	91	-2	2	Manual J	Manual J
Illinois	Washington	93	10	1.1	Manual J	Manual J
Illinois	Wayne	91	11	1.3	ASHRAE	Manual J
Illinois	White	91	14	1.1	ASHRAE	ASHRAE
Illinois	Whiteside	88	0	2.2	ASHRAE	Manual J
Illinois	Will	90	0	2.2	Manual J	Manual J
Illinois	Williamson	91	16	0.9	ASHRAE	ASHRAE
Illinois	Winnebago	89	-2	2.3	Manual J	Manual J
Illinois	Woodford	90	-2	1.8	Manual J	Manual J
Indiana						
Indiana	Adams	88	4	1.9	ASHRAE	Manual J
Indiana	Allen	88	4	1.9	ASHRAE	Manual J
Indiana	Bartholomew	92	7	1.5	Manual J	Manual J
Indiana	Benton	90	4	1.6	Manual J	Manual J
Indiana	Blackford	90	2	1.9	Manual J	Manual J
Indiana	Boone	89	6	1.5	Manual J	Manual J
Indiana	Brown	92	7	1.5	Manual J	Manual J
Indiana	Carroll	90	4	1.6	Manual J	Manual J
Indiana	Cass	89	-1	2	Manual J	Manual J
Indiana	Clark	93	10	1	Manual J	Manual J
Indiana	Clay	90	7	1.4	Manual J	Manual J
Indiana	Clinton	90	0	2.2	Manual J	Manual J
Indiana	Crawford	90	14	1.2	ASHRAE	ASHRAE
Indiana	Daviess	92	6	1.5	Manual J	Manual J
Indiana	Dearborn	89	7	1.3	ASHRAE	Manual J
Indiana	Decatur	91	3	1.6	Manual J	Manual J
Indiana	DeKalb	88	4	1.9	ASHRAE	Manual J
Indiana	Delaware	90	2	1.9	Manual J	Manual J
Indiana	Dubois	90	14	1.2	ASHRAE	ASHRAE
Indiana	Elkhart	89	1	2	Manual J	Manual J
Indiana	Fayette	90	2	2	Manual J	Manual J

Indiana	Floyd	93	10	1	Manual J	Manual J
Indiana	Fountain	91	3	2.1	Manual J	Manual J
Indiana	Franklin	90	2	2	Manual J	Manual J
Indiana	Fulton	89	-1	2	Manual J	Manual J
Indiana	Gibson	92	12	1.1	Manual J	Manual J
Indiana	Grant	90	0	2	Manual J	Manual J
Indiana	Greene	92	5	1.5	Manual J	Manual J
Indiana	Hamilton	92	6	1.5	Manual J	Manual J
Indiana	Hancock	92	6	1.5	Manual J	Manual J
Indiana	Harrison	91	14	1.1	Manual J	Manual J
Indiana	Hendricks	89	6	1.5	Manual J	Manual J
Indiana	Henry	90	2	1.9	Manual J	Manual J
Indiana	Howard	90	0	2.2	Manual J	Manual J
Indiana	Huntington	89	1	2	Manual J	Manual J
Indiana	Jackson	92	7	1.5	Manual J	Manual J
Indiana	Jasper	90	3	2.1	Manual J	Manual J
Indiana	Jay	90	2	1.9	Manual J	Manual J
Indiana	Jefferson	93	10	1	Manual J	Manual J
Indiana	Jennings	92	7	1.5	Manual J	Manual J
Indiana	Johnson	92	7	1.5	Manual J	Manual J
Indiana	Knox	92	6	1.5	Manual J	Manual J
Indiana	Kosciusko	89	1	2	Manual J	Manual J
Indiana	LaGrange	88	7	2.1	Manual J	ASHRAE
Indiana	Lake	88	2	2.2	Manual J	Manual J
Indiana	La Porte	90	3	2.1	Manual J	Manual J
Indiana	Lawrence	92	5	1.5	Manual J	Manual J
Indiana	Madison	92	6	1.5	Manual J	Manual J
Indiana	Marion	89	6	1.5	Manual J	Manual J
Indiana	Marshall	88	5	2	ASHRAE	Manual J
Indiana	Martin	92	5	1.5	Manual J	Manual J
Indiana	Miami	89	-1	2	Manual J	Manual J
Indiana	Monroe	92	5	1.5	Manual J	Manual J
Indiana	Montgomery	91	3	2.1	Manual J	Manual J
Indiana	Morgan	89	6	1.5	Manual J	Manual J
Indiana	Newton	90	1	2	Manual J	Manual J
Indiana	Noble	89	1	2	Manual J	Manual J
Indiana	Ohio	89	7	1.3	ASHRAE	Manual J
Indiana	Orange	92	5	1.5	Manual J	Manual J
Indiana	Owen	92	5	1.5	Manual J	Manual J
Indiana	Parke	90	7	1.4	Manual J	Manual J
Indiana	Perry	90	14	1.2	ASHRAE	ASHRAE
Indiana	Pike	90	14	1.2	ASHRAE	ASHRAE
Indiana	Porter	90	3	2.1	Manual J	Manual J
Indiana	Posey	91	14	1.1	ASHRAE	ASHRAE
Indiana	Pulaski	90	3	2.1	Manual J	Manual J
Indiana	Putnam	91	3	2.1	Manual J	Manual J
Indiana	Randolph	90	2	1.9	Manual J	Manual J
Indiana	Ripley	89	7	1.3	ASHRAE	Manual J
Indiana	Rush	91	3	1.6	Manual J	Manual J
Indiana	Scott	93	10	1	Manual J	Manual J
Indiana	Shelby	91	3	1.6	Manual J	Manual J
Indiana	Spencer	90	14	1.2	ASHRAE	ASHRAE
Indiana	St. Joseph	88	5	2	ASHRAE	Manual J
Indiana	Starke	90	3	2.1	Manual J	Manual J
Indiana	Steuben	88	7	2.2	ASHRAE	ASHRAE
Indiana	Sullivan	90	7	1.4	Manual J	Manual J
Indiana	Switzerland	89	7	1.3	ASHRAE	Manual J

Indiana	Tippecanoe	90	4	1.6	Manual J	Manual J
Indiana	Tipton	90	0	2.2	Manual J	Manual J
Indiana	Union	90	2	2	Manual J	Manual J
Indiana	Vanderburgh	92	12	1.1	Manual J	Manual J
Indiana	Vermillion	90	1	1.6	Manual J	Manual J
Indiana	Vigo	90	7	1.4	Manual J	Manual J
Indiana	Wabash	89	1	2	Manual J	Manual J
Indiana	Warren	90	1	1.6	Manual J	Manual J
Indiana	Warrick	92	12	1.1	Manual J	Manual J
Indiana	Washington	92	5	1.5	Manual J	Manual J
Indiana	Wayne	90	2	2	Manual J	Manual J
Indiana	Wells	88	4	1.9	ASHRAE	Manual J
Indiana	White	90	4	1.6	Manual J	Manual J
Indiana	Whitley	89	1	2	Manual J	Manual J
Iowa						
Iowa	Adair	91	1	1.9	Manual J	ASHRAE
Iowa	Adams	91	1	1.9	Manual J	ASHRAE
Iowa	Allamakee	86	-3	2.4	ASHRAE	ASHRAE
Iowa	Appanoose	91	3	1.7	Manual J	ASHRAE
Iowa	Audubon	90	0	2.2	ASHRAE	ASHRAE
Iowa	Benton	89	-4	2.2	Manual J	Manual J
Iowa	Black Hawk	89	-6	2.4	Manual J	Manual J
Iowa	Boone	90	0	2	Manual J	Manual J
Iowa	Bremer	89	-6	2.4	Manual J	Manual J
Iowa	Buchanan	88	-1	2.3	ASHRAE	ASHRAE
Iowa	Buena Vista	90	-4	2	ASHRAE	Manual J
Iowa	Butler	88	-4	2.5	Manual J	ASHRAE
Iowa	Calhoun	91	-1	2	Manual J	ASHRAE
Iowa	Carroll	91	-1	2	Manual J	ASHRAE
Iowa	Cass	91	0	2	Manual J	ASHRAE
Iowa	Cedar	91	3	1.7	ASHRAE	ASHRAE
Iowa	Cerro Gordo	88	-8	2.8	Manual J	Manual J
Iowa	Cherokee	90	-4	2	ASHRAE	Manual J
Iowa	Chickasaw	88	-4	2.5	Manual J	ASHRAE
Iowa	Clarke	92	0	2	Manual J	Manual J
Iowa	Clay	89	-8	2.7	Manual J	Manual J
Iowa	Clayton	86	0	2.3	ASHRAE	ASHRAE
Iowa	Clinton	88	-1	2.2	Manual J	ASHRAE
Iowa	Crawford	90	0	2	ASHRAE	ASHRAE
Iowa	Dallas	90	-2	1.8	Manual J	Manual J
Iowa	Davis	90	0	1.8	ASHRAE	Manual J
Iowa	Decatur	92	0	2	Manual J	Manual J
Iowa	Delaware	88	-2	2.3	ASHRAE	ASHRAE
Iowa	Des Moines	90	1	1.6	ASHRAE	Manual J
Iowa	Dickinson	89	-8	2.7	Manual J	Manual J
Iowa	Dubuque	86	-3	2.6	Manual J	Manual J
Iowa	Emmet	88	-8	2.8	Manual J	ASHRAE
Iowa	Fayette	88	-1	2.3	ASHRAE	ASHRAE
Iowa	Floyd	88	-4	2.5	Manual J	ASHRAE
Iowa	Franklin	88	-8	2.8	Manual J	Manual J
Iowa	Fremont	93	3	1.5	ASHRAE	ASHRAE
Iowa	Greene	91	-1	2	Manual J	ASHRAE
Iowa	Grundy	88	-2	2.3	Manual J	ASHRAE
Iowa	Guthrie	90	0	2.2	ASHRAE	ASHRAE
Iowa	Hamilton	91	-2	2.1	Manual J	ASHRAE
Iowa	Hancock	90	-4	2.3	Manual J	ASHRAE
Iowa	Hardin	88	-2	2.3	Manual J	ASHRAE

Iowa	Harrison	92	-1	1.9	Manual J	ASHRAE
Iowa	Henry	91	3	1.7	Manual J	Manual J
Iowa	Howard	88	-4	2.5	Manual J	ASHRAE
Iowa	Humboldt	88	-6	2.5	ASHRAE	Manual J
Iowa	Ida	90	-4	2	ASHRAE	Manual J
Iowa	Iowa	89	-4	2.2	Manual J	Manual J
Iowa	Jackson	86	-3	2.6	Manual J	Manual J
Iowa	Jasper	91	-5	2	Manual J	Manual J
Iowa	Jefferson	91	1	1.7	Manual J	ASHRAE
Iowa	Johnson	90	-6	1.7	ASHRAE	Manual J
Iowa	Jones	88	-2	2.3	ASHRAE	ASHRAE
Iowa	Keokuk	91	1	1.7	Manual J	ASHRAE
Iowa	Kossuth	88	-4	2.4	ASHRAE	ASHRAE
Iowa	Lee	91	7	1.4	Manual J	ASHRAE
Iowa	Linn	89	-4	2.2	Manual J	Manual J
Iowa	Louisa	91	3	1.7	ASHRAE	ASHRAE
Iowa	Lucas	91	3	1.7	Manual J	ASHRAE
Iowa	Lyon	90	-4	2.4	ASHRAE	ASHRAE
Iowa	Madison	91	-2	1.8	Manual J	Manual J
Iowa	Mahaska	90	0	1.8	ASHRAE	Manual J
Iowa	Marion	90	3	1.6	ASHRAE	ASHRAE
Iowa	Marshall	88	-2	2.3	Manual J	ASHRAE
Iowa	Mills	91	2	1.6	Manual J	Manual J
Iowa	Mitchell	88	-4	2.5	Manual J	ASHRAE
Iowa	Monona	91	-1	1.9	Manual J	ASHRAE
Iowa	Monroe	90	3	1.6	ASHRAE	ASHRAE
Iowa	Montgomery	93	3	1.6	ASHRAE	ASHRAE
Iowa	Muscatine	91	3	1.7	ASHRAE	ASHRAE
Iowa	O'Brien	90	-4	2.4	ASHRAE	ASHRAE
Iowa	Osceola	85	-4	2.4	Manual J	ASHRAE
Iowa	Page	91	1	1.7	ASHRAE	ASHRAE
Iowa	Palo Alto	88	-8	2.8	Manual J	ASHRAE
Iowa	Plymouth	90	-2	2.1	ASHRAE	ASHRAE
Iowa	Pocahontas	88	-4	2	ASHRAE	Manual J
Iowa	Polk	91	-2	1.8	Manual J	Manual J
Iowa	Pottawattamie	91	-3	1.8	Manual J	Manual J
Iowa	Poweshiek	91	-5	2	Manual J	Manual J
Iowa	Ringgold	92	1	1.9	Manual J	ASHRAE
Iowa	Sac	90	-4	2	ASHRAE	Manual J
Iowa	Scott	88	0	2	ASHRAE	ASHRAE
Iowa	Shelby	90	0	2	ASHRAE	ASHRAE
Iowa	Sioux	90	-4	2.2	ASHRAE	ASHRAE
Iowa	Story	88	0	2.1	ASHRAE	ASHRAE
Iowa	Tama	88	-2	2.3	Manual J	ASHRAE
Iowa	Taylor	91	1	1.7	ASHRAE	ASHRAE
Iowa	Union	91	1	1.9	Manual J	ASHRAE
Iowa	Van Buren	91	1	1.7	Manual J	ASHRAE
Iowa	Wapello	90	0	1.8	ASHRAE	Manual J
Iowa	Warren	91	-2	1.8	Manual J	Manual J
Iowa	Washington	91	3	1.7	Manual J	Manual J
Iowa	Wayne	91	3	1.7	Manual J	ASHRAE
Iowa	Webster	88	-6	2.5	ASHRAE	Manual J
Iowa	Winnebago	86	-8	2.8	Manual J	Manual J
Iowa	Winneshiek	86	-3	2.4	ASHRAE	ASHRAE
Iowa	Woodbury	90	-4	2.1	ASHRAE	Manual J
Iowa	Worth	88	-8	2.8	Manual J	Manual J
Iowa	Wright	90	-4	2.3	Manual J	ASHRAE

Kansas						
Kansas	Allen	95	12	1	Manual J	Manual J
Kansas	Anderson	95	12	1	Manual J	Manual J
Kansas	Atchison	93	2	1.4	Manual J	Manual J
Kansas	Barber	100	12	0.9	Manual J	Manual J
Kansas	Barton	97	9	1.3	ASHRAE	ASHRAE
Kansas	Bourbon	95	12	1	Manual J	Manual J
Kansas	Brown	92	3	1.4	ASHRAE	ASHRAE
Kansas	Butler	98	7	1.2	Manual J	Manual J
Kansas	Chase	97	5	1.3	Manual J	Manual J
Kansas	Chautauqua	98	10	0.8	Manual J	Manual J
Kansas	Cherokee	94	12	0.9	Manual J	Manual J
Kansas	Cheyenne	95	4	1.8	Manual J	Manual J
Kansas	Clark	97	8	1.2	Manual J	Manual J
Kansas	Clay	97	6	1.2	ASHRAE	Manual J
Kansas	Cloud	96	5	1.4	Manual J	Manual J
Kansas	Coffey	97	5	1.3	Manual J	Manual J
Kansas	Comanche	100	12	0.9	Manual J	Manual J
Kansas	Cowley	99	16	0.8	Manual J	ASHRAE
Kansas	Crawford	94	12	0.9	Manual J	Manual J
Kansas	Decatur	99	7	1.6	Manual J	ASHRAE
Kansas	Dickinson	97	6	1.2	ASHRAE	Manual J
Kansas	Doniphan	93	2	1.4	Manual J	Manual J
Kansas	Douglas	95	9	1.2	Manual J	ASHRAE
Kansas	Edwards	97	9	1.3	ASHRAE	ASHRAE
Kansas	Elk	98	7	1.2	Manual J	Manual J
Kansas	Ellis	99	7	1.4	Manual J	Manual J
Kansas	Ellsworth	98	7	1.1	ASHRAE	Manual J
Kansas	Finney	97	6	1.3	Manual J	Manual J
Kansas	Ford	97	8	1.2	Manual J	Manual J
Kansas	Franklin	95	9	1.2	Manual J	ASHRAE
Kansas	Geary	97	10	1.1	ASHRAE	ASHRAE
Kansas	Gove	99	7	1.4	Manual J	Manual J
Kansas	Graham	99	7	1.4	Manual J	Manual J
Kansas	Grant	98	12	1.2	ASHRAE	ASHRAE
Kansas	Gray	97	6	1.3	Manual J	Manual J
Kansas	Greeley	95	4	1.8	Manual J	Manual J
Kansas	Greenwood	97	5	1.3	Manual J	Manual J
Kansas	Hamilton	98	7	1.5	Manual J	ASHRAE
Kansas	Harper	100	12	0.9	Manual J	Manual J
Kansas	Harvey	95	9	1.3	Manual J	Manual J
Kansas	Haskell	97	6	1.3	Manual J	Manual J
Kansas	Hodgeman	97	8	1.2	Manual J	Manual J
Kansas	Jackson	94	7	1.3	Manual J	Manual J
Kansas	Jefferson	95	9	1.2	Manual J	ASHRAE
Kansas	Jewell	96	5	1.4	Manual J	Manual J
Kansas	Johnson	93	10	1.2	Manual J	ASHRAE
Kansas	Kearny	97	6	1.3	Manual J	Manual J
Kansas	Kingman	100	12	0.9	Manual J	Manual J
Kansas	Kiowa	97	8	1.2	Manual J	Manual J
Kansas	Labette	97	14	0.9	Manual J	ASHRAE
Kansas	Lane	97	6	1.3	Manual J	Manual J
Kansas	Leavenworth	95	9	1.2	Manual J	ASHRAE
Kansas	Lincoln	98	5	1.3	ASHRAE	Manual J
Kansas	Linn	93	10	1.2	Manual J	ASHRAE
Kansas	Logan	95	4	1.8	Manual J	Manual J
Kansas	Lyon	97	5	1.3	Manual J	Manual J

Kansas	Marion	95	9	1.3	Manual J	Manual J
Kansas	Marshall	93	3	1.6	Manual J	ASHRAE
Kansas	McPherson	99	7	1.1	Manual J	Manual J
Kansas	Meade	98	12	1.2	ASHRAE	ASHRAE
Kansas	Miami	93	10	1.2	Manual J	ASHRAE
Kansas	Mitchell	96	5	1.4	Manual J	Manual J
Kansas	Montgomery	97	16	0.8	Manual J	ASHRAE
Kansas	Morris	97	10	1.1	ASHRAE	ASHRAE
Kansas	Morton	99	11	0.9	ASHRAE	ASHRAE
Kansas	Nemaha	92	3	1.4	ASHRAE	ASHRAE
Kansas	Neosho	95	12	1	Manual J	Manual J
Kansas	Ness	97	8	1.2	Manual J	Manual J
Kansas	Norton	99	7	1.4	Manual J	Manual J
Kansas	Osage	94	7	1.3	Manual J	Manual J
Kansas	Osborne	97	5	1.3	ASHRAE	Manual J
Kansas	Ottawa	98	7	1.1	ASHRAE	Manual J
Kansas	Pawnee	97	9	1.3	ASHRAE	ASHRAE
Kansas	Phillips	99	7	1.4	Manual J	Manual J
Kansas	Pottawatomie	97	10	1.1	Manual J	ASHRAE
Kansas	Pratt	100	12	0.9	Manual J	Manual J
Kansas	Rawlins	99	7	1.6	Manual J	ASHRAE
Kansas	Reno	99	8	1.3	Manual J	Manual J
Kansas	Republic	96	5	1.4	Manual J	Manual J
Kansas	Rice	99	8	1.3	Manual J	Manual J
Kansas	Riley	97	6	1.2	Manual J	Manual J
Kansas	Rooks	99	7	1.4	Manual J	Manual J
Kansas	Rush	99	7	1.4	Manual J	Manual J
Kansas	Russell	97	5	1.3	ASHRAE	Manual J
Kansas	Saline	98	7	1.1	ASHRAE	Manual J
Kansas	Scott	97	6	1.3	Manual J	Manual J
Kansas	Sedgwick	97	11	1	ASHRAE	Manual J
Kansas	Seward	98	12	1.2	ASHRAE	ASHRAE
Kansas	Shawnee	94	7	1.3	Manual J	Manual J
Kansas	Sheridan	99	7	1.4	Manual J	Manual J
Kansas	Sherman	95	4	1.8	Manual J	Manual J
Kansas	Smith	92	5	1.8	Manual J	ASHRAE
Kansas	Stafford	97	9	1.3	ASHRAE	ASHRAE
Kansas	Stanton	99	11	0.9	ASHRAE	ASHRAE
Kansas	Stevens	98	12	1.2	ASHRAE	ASHRAE
Kansas	Sumner	97	11	1	ASHRAE	Manual J
Kansas	Thomas	95	4	1.8	Manual J	Manual J
Kansas	Trego	99	7	1.4	Manual J	Manual J
Kansas	Wabaunsee	97	7	1.3	Manual J	Manual J
Kansas	Wallace	95	4	1.8	Manual J	Manual J
Kansas	Washington	96	5	1.4	Manual J	Manual J
Kansas	Wichita	97	6	1.3	Manual J	Manual J
Kansas	Wilson	95	12	1	Manual J	Manual J
Kansas	Woodson	95	12	1	Manual J	Manual J
Kansas	Wyandotte	94	9	1	Manual J	Manual J
Kentucky						
Kentucky	Adair	92	18	0.9	Manual J	ASHRAE
Kentucky	Allen	91	15	1	ASHRAE	Manual J
Kentucky	Anderson	90	14	1.2	ASHRAE	ASHRAE
Kentucky	Ballard	92	15	0.9	ASHRAE	Manual J
Kentucky	Barren	91	15	1	ASHRAE	Manual J
Kentucky	Bath	88	15	1.1	ASHRAE	Manual J
Kentucky	Bell	92	9	1.2	Manual J	Manual J

Kentucky	Boone	89	7	1.3	ASHRAE	Manual J
Kentucky	Bourbon	90	13	1.2	ASHRAE	Manual J
Kentucky	Boyd	91	10	1.6	Manual J	Manual J
Kentucky	Boyle	90	13	1.2	ASHRAE	Manual J
Kentucky	Bracken	90	12	1.3	ASHRAE	Manual J
Kentucky	Breathitt	88	15	1.1	ASHRAE	Manual J
Kentucky	Breckinridge	91	14	1.1	Manual J	Manual J
Kentucky	Bullitt	92	14	1.1	ASHRAE	Manual J
Kentucky	Butler	91	15	1	ASHRAE	Manual J
Kentucky	Caldwell	93	10	0.9	Manual J	Manual J
Kentucky	Calloway	92	15	0.9	ASHRAE	Manual J
Kentucky	Campbell	90	12	1.3	ASHRAE	Manual J
Kentucky	Carlisle	92	15	0.9	ASHRAE	Manual J
Kentucky	Carroll	90	14	1.2	ASHRAE	ASHRAE
Kentucky	Carter	92	10	1.5	Manual J	Manual J
Kentucky	Casey	92	18	0.9	Manual J	ASHRAE
Kentucky	Christian	93	15	1	Manual J	Manual J
Kentucky	Clark	90	13	1.2	ASHRAE	Manual J
Kentucky	Clay	92	9	1.2	Manual J	Manual J
Kentucky	Clinton	92	18	0.9	Manual J	ASHRAE
Kentucky	Crittenden	93	10	0.9	Manual J	Manual J
Kentucky	Cumberland	92	18	0.9	Manual J	ASHRAE
Kentucky	Daviess	94	10	0.9	Manual J	Manual J
Kentucky	Edmonson	91	15	1	ASHRAE	Manual J
Kentucky	Elliott	88	15	1.1	ASHRAE	Manual J
Kentucky	Estill	92	9	1.2	Manual J	Manual J
Kentucky	Fayette	90	13	1.2	ASHRAE	Manual J
Kentucky	Fleming	92	10	1.5	Manual J	Manual J
Kentucky	Floyd	88	15	1.1	ASHRAE	Manual J
Kentucky	Franklin	90	14	1.2	ASHRAE	ASHRAE
Kentucky	Fulton	95	19	0.7	Manual J	Manual J
Kentucky	Gallatin	89	7	1.3	ASHRAE	Manual J
Kentucky	Garrard	90	13	1.2	ASHRAE	Manual J
Kentucky	Grant	89	7	1.3	ASHRAE	Manual J
Kentucky	Graves	92	15	0.9	ASHRAE	Manual J
Kentucky	Grayson	91	15	1	ASHRAE	Manual J
Kentucky	Green	91	14	1.1	Manual J	Manual J
Kentucky	Greenup	92	10	1.5	Manual J	Manual J
Kentucky	Hancock	94	10	0.9	Manual J	Manual J
Kentucky	Hardin	91	14	1.1	Manual J	Manual J
Kentucky	Harlan	84	12	1.4	ASHRAE	ASHRAE
Kentucky	Harrison	90	13	1.2	ASHRAE	Manual J
Kentucky	Hart	91	14	1.1	Manual J	Manual J
Kentucky	Henderson	91	14	1.1	ASHRAE	ASHRAE
Kentucky	Henry	90	14	1.2	ASHRAE	ASHRAE
Kentucky	Hickman	92	15	0.9	ASHRAE	Manual J
Kentucky	Hopkins	93	10	0.9	Manual J	Manual J
Kentucky	Jackson	92	9	1.2	Manual J	Manual J
Kentucky	Jefferson	92	14	1	ASHRAE	Manual J
Kentucky	Jessamine	90	13	1.2	ASHRAE	Manual J
Kentucky	Johnson	88	15	1.1	ASHRAE	Manual J
Kentucky	Kenton	89	7	1.3	ASHRAE	Manual J
Kentucky	Knott	88	15	1.1	ASHRAE	Manual J
Kentucky	Knox	92	9	1.2	Manual J	Manual J
Kentucky	Larue	91	14	1.1	Manual J	Manual J
Kentucky	Laurel	92	9	1.2	Manual J	Manual J
Kentucky	Lawrence	90	15	1.1	ASHRAE	Manual J

Kentucky	Lee	88	15	1.1	ASHRAE	Manual J
Kentucky	Leslie	88	15	1.1	ASHRAE	Manual J
Kentucky	Letcher	84	12	1.4	ASHRAE	ASHRAE
Kentucky	Lewis	92	10	1.5	Manual J	Manual J
Kentucky	Lincoln	92	18	0.9	Manual J	ASHRAE
Kentucky	Livingston	92	15	0.9	ASHRAE	Manual J
Kentucky	Logan	91	15	1	ASHRAE	Manual J
Kentucky	Lyon	93	10	0.9	Manual J	Manual J
Kentucky	Madison	90	13	1.2	ASHRAE	Manual J
Kentucky	Magoffin	88	15	1.1	ASHRAE	Manual J
Kentucky	Marion	90	14	1.2	ASHRAE	ASHRAE
Kentucky	Marshall	92	15	0.9	ASHRAE	Manual J
Kentucky	Martin	90	15	1.1	ASHRAE	Manual J
Kentucky	Mason	90	12	1.3	ASHRAE	Manual J
Kentucky	McCracken	92	15	0.9	ASHRAE	Manual J
Kentucky	McCreary	92	18	0.9	Manual J	ASHRAE
Kentucky	McLean	94	10	0.9	Manual J	Manual J
Kentucky	Meade	91	14	1.1	Manual J	Manual J
Kentucky	Menifee	88	15	1.1	ASHRAE	Manual J
Kentucky	Mercer	90	13	1.2	ASHRAE	Manual J
Kentucky	Metcalfe	91	15	1	ASHRAE	Manual J
Kentucky	Monroe	91	15	1	ASHRAE	Manual J
Kentucky	Montgomery	90	13	1.2	ASHRAE	Manual J
Kentucky	Morgan	88	15	1.1	ASHRAE	Manual J
Kentucky	Muhlenberg	93	10	0.9	Manual J	Manual J
Kentucky	Nelson	92	14	1	ASHRAE	Manual J
Kentucky	Nicholas	90	13	1.2	ASHRAE	Manual J
Kentucky	Ohio	94	10	0.9	Manual J	Manual J
Kentucky	Oldham	93	14	1	Manual J	Manual J
Kentucky	Owen	90	14	1.2	ASHRAE	ASHRAE
Kentucky	Owsley	88	15	1.1	ASHRAE	Manual J
Kentucky	Pendleton	90	12	1.3	ASHRAE	Manual J
Kentucky	Perry	88	15	1.1	ASHRAE	Manual J
Kentucky	Pike	84	12	1.4	ASHRAE	ASHRAE
Kentucky	Powell	88	15	1.1	ASHRAE	Manual J
Kentucky	Pulaski	92	18	0.9	Manual J	ASHRAE
Kentucky	Robertson	90	12	1.3	ASHRAE	Manual J
Kentucky	Rockcastle	92	9	1.2	Manual J	Manual J
Kentucky	Rowan	88	15	1.1	ASHRAE	Manual J
Kentucky	Russell	92	18	0.9	Manual J	ASHRAE
Kentucky	Scott	90	13	1.2	ASHRAE	Manual J
Kentucky	Shelby	90	14	1.2	ASHRAE	ASHRAE
Kentucky	Simpson	91	15	1	ASHRAE	Manual J
Kentucky	Spencer	92	14	1	ASHRAE	Manual J
Kentucky	Taylor	92	18	0.9	Manual J	ASHRAE
Kentucky	Todd	93	15	1	Manual J	Manual J
Kentucky	Trigg	93	15	1	Manual J	Manual J
Kentucky	Trimble	93	14	1	Manual J	Manual J
Kentucky	Union	91	14	1.1	ASHRAE	ASHRAE
Kentucky	Warren	91	15	1	ASHRAE	Manual J
Kentucky	Washington	90	14	1.2	ASHRAE	ASHRAE
Kentucky	Wayne	92	18	0.9	Manual J	ASHRAE
Kentucky	Webster	93	10	0.9	Manual J	Manual J
Kentucky	Whitley	92	9	1.2	Manual J	Manual J
Kentucky	Wolfe	88	15	1.1	ASHRAE	Manual J
Kentucky	Woodford	90	13	1.2	ASHRAE	Manual J

Louisiana - - - - -

Louisiana	Acadia	93	32	0.2	Manual J	Manual J
Louisiana	Allen	94	30	0.3	Manual J	Manual J
Louisiana	Ascension	93	31	0.2	ASHRAE	Manual J
Louisiana	Assumption	91	36	0.2	ASHRAE	ASHRAE
Louisiana	Avoyelles	95	28	0.3	ASHRAE	Manual J
Louisiana	Beauregard	87	36	0.2	Manual J	Manual J
Louisiana	Bienville	96	25	0.4	Manual J	Manual J
Louisiana	Bossier	97	27	0.4	ASHRAE	Manual J
Louisiana	Caddo	97	28	0.3	Manual J	Manual J
Louisiana	Calcasieu	93	33	0.2	Manual J	Manual J
Louisiana	Caldwell	95	27	0.4	ASHRAE	Manual J
Louisiana	Cameron	93	33	0.2	Manual J	Manual J
Louisiana	Catahoula	95	28	0.3	ASHRAE	Manual J
Louisiana	Claiborne	96	25	0.4	Manual J	Manual J
Louisiana	Concordia	91	28	0.4	ASHRAE	ASHRAE
Louisiana	De Soto	97	28	0.3	Manual J	Manual J
Louisiana	East Baton Rouge	93	31	0.2	ASHRAE	Manual J
Louisiana	East Carroll	95	28	0.4	ASHRAE	ASHRAE
Louisiana	East Feliciana	93	31	0.2	ASHRAE	Manual J
Louisiana	Evangeline	93	32	0.2	Manual J	Manual J
Louisiana	Franklin	95	27	0.4	ASHRAE	Manual J
Louisiana	Grant	95	28	0.3	ASHRAE	Manual J
Louisiana	Iberia	93	34	0.2	ASHRAE	ASHRAE
Louisiana	Iberville	93	31	0.2	ASHRAE	Manual J
Louisiana	Jackson	95	27	0.4	ASHRAE	Manual J
Louisiana	Jefferson	92	35	0.2	ASHRAE	Manual J
Louisiana	Jefferson Davis	93	33	0.2	Manual J	Manual J
Louisiana	Lafayette	93	32	0.2	Manual J	Manual J
Louisiana	Lafourche	93	35	0.2	Manual J	Manual J
Louisiana	LaSalle	95	28	0.3	ASHRAE	Manual J
Louisiana	Lincoln	96	25	0.4	Manual J	Manual J
Louisiana	Livingston	93	31	0.2	ASHRAE	Manual J
Louisiana	Madison	95	28	0.4	ASHRAE	ASHRAE
Louisiana	Morehouse	95	27	0.4	ASHRAE	Manual J
Louisiana	Natchitoches	95	26	0.4	Manual J	Manual J
Louisiana	Orleans	92	39	0.1	Manual J	ASHRAE
Louisiana	Ouachita	95	27	0.4	ASHRAE	Manual J
Louisiana	Plaquemines	91	34	0.2	ASHRAE	Manual J
Louisiana	Pointe Coupee	93	31	0.2	ASHRAE	Manual J
Louisiana	Rapides	95	28	0.3	ASHRAE	Manual J
Louisiana	Red River	95	26	0.4	Manual J	Manual J
Louisiana	Richland	95	27	0.4	ASHRAE	Manual J
Louisiana	Sabine	95	26	0.4	Manual J	Manual J
Louisiana	St. Bernard	92	32	0.2	Manual J	ASHRAE
Louisiana	St. Charles	92	35	0.2	ASHRAE	Manual J
Louisiana	St. Helena	93	28	0.3	Manual J	Manual J
Louisiana	St. James	93	35	0.2	Manual J	Manual J
Louisiana	St. John the Baptist	92	35	0.2	ASHRAE	Manual J
Louisiana	St. Landry	93	32	0.2	Manual J	Manual J
Louisiana	St. Martin	93	34	0.2	ASHRAE	ASHRAE
Louisiana	St. Mary	91	36	0.2	ASHRAE	ASHRAE
Louisiana	St. Tammany	91	30	0.3	ASHRAE	ASHRAE
Louisiana	Tangipahoa	93	28	0.3	Manual J	Manual J
Louisiana	Tensas	91	28	0.4	ASHRAE	ASHRAE
Louisiana	Terrebonne	93	35	0.2	Manual J	Manual J
Louisiana	Union	95	27	0.4	ASHRAE	Manual J
Louisiana	Vermilion	93	34	0.2	ASHRAE	ASHRAE

Louisiana	Vernon	94	30	0.3	Manual J	Manual J
Louisiana	Washington	93	28	0.3	Manual J	Manual J
Louisiana	Webster	96	25	0.4	Manual J	Manual J
Louisiana	West Baton Rouge	93	31	0.2	ASHRAE	Manual J
Louisiana	West Carroll	95	28	0.4	ASHRAE	ASHRAE
Louisiana	West Feliciana	93	31	0.2	ASHRAE	Manual J
Louisiana	Winn	95	26	0.4	Manual J	Manual J
Maine						
Maine	Androscoggin	85	-2	3	Manual J	Manual J
Maine	Aroostook	82	-17	8.1	Manual J	ASHRAE
Maine	Cumberland	84	2	3.4	Manual J	Manual J
Maine	Franklin	85	-2	3	Manual J	Manual J
Maine	Hancock	79	1	4.7	Manual J	Manual J
Maine	Kennebec	84	-1	3.9	Manual J	Manual J
Maine	Knox	79	3	4.8	Manual J	Manual J
Maine	Lincoln	82	1	3.9	Manual J	Manual J
Maine	Oxford	86	-6	3.7	ASHRAE	ASHRAE
Maine	Penobscot	84	-9	4.9	ASHRAE	Manual J
Maine	Piscataquis	81	-9	5.4	Manual J	Manual J
Maine	Sagadahoc	82	2	3.4	Manual J	Manual J
Maine	Somerset	81	-9	5.4	Manual J	Manual J
Maine	Waldo	79	3	4.8	Manual J	Manual J
Maine	Washington	79	1	4.7	Manual J	Manual J
Maine	York	85	0	3.8	ASHRAE	Manual J
Maryland						
Maryland	Allegany	89	10	1.6	Manual J	Manual J
Maryland	Anne Arundel	91	17	1.2	ASHRAE	Manual J
Maryland	Baltimore	89	17	0.8	Manual J	Manual J
Maryland	Baltimore City	89	17	0.8	Manual J	Manual J
Maryland	Calvert	90	21	1	Manual J	ASHRAE
Maryland	Caroline	90	18	1.2	Manual J	Manual J
Maryland	Carroll	91	12	1.7	Manual J	ASHRAE
Maryland	Cecil	89	16	1.3	ASHRAE	Manual J
Maryland	Charles	90	20	1	ASHRAE	ASHRAE
Maryland	Dorchester	90	21	1	Manual J	ASHRAE
Maryland	Frederick	91	12	1.1	Manual J	Manual J
Maryland	Garrett	89	10	1.6	Manual J	Manual J
Maryland	Harford	89	17	0.8	Manual J	Manual J
Maryland	Howard	91	17	0.8	ASHRAE	Manual J
Maryland	Kent	91	17	1.2	ASHRAE	Manual J
Maryland	Montgomery	92	14	1.6	ASHRAE	Manual J
Maryland	Prince George's	91	18	1.1	Manual J	Manual J
Maryland	Queen Anne's	91	17	1.2	ASHRAE	Manual J
Maryland	Somerset	90	22	1	ASHRAE	ASHRAE
Maryland	St. Mary's	90	21	1	Manual J	ASHRAE
Maryland	Talbot	90	21	1	Manual J	ASHRAE
Maryland	Washington	91	12	1.6	Manual J	Manual J
Maryland	Wicomico	90	18	1.1	ASHRAE	Manual J
Maryland	Worcester	88	21	1	ASHRAE	ASHRAE
Massachusetts						
Massachusetts	Barnstable	82	13	2.4	Manual J	Manual J
Massachusetts	Berkshire	84	-3	2.5	Manual J	Manual J
Massachusetts	Bristol	88	9	1.9	ASHRAE	Manual J
Massachusetts	Dukes	81	12	2.6	ASHRAE	Manual J
Massachusetts	Essex	88	5	1.9	Manual J	Manual J
Massachusetts	Franklin	86	-2	2.8	ASHRAE	Manual J

Massachusetts	Hampden	88	0	2.9	ASHRAE	Manual J
Massachusetts	Hampshire	88	0	2.9	ASHRAE	Manual J
Massachusetts	Middlesex	88	1	2.6	ASHRAE	Manual J
Massachusetts	Nantucket	77	18	2.4	ASHRAE	ASHRAE
Massachusetts	Norfolk	88	9	2.4	Manual J	Manual J
Massachusetts	Plymouth	88	10	2.4	Manual J	ASHRAE
Massachusetts	Suffolk	88	12	1.9	Manual J	Manual J
Massachusetts	Worcester	87	2	2.6	Manual J	Manual J

Michigan

Michigan	Alcona	86	3	3.4	ASHRAE	ASHRAE
Michigan	Alger	83	-9	6.6	Manual J	Manual J
Michigan	Allegan	86	10	2.4	ASHRAE	Manual J
Michigan	Alpena	85	0	4.2	Manual J	Manual J
Michigan	Antrim	84	0	3.9	ASHRAE	Manual J
Michigan	Arenac	86	3	3.4	ASHRAE	ASHRAE
Michigan	Baraga	81	-1	5.4	ASHRAE	Manual J
Michigan	Barry	87	6	2.5	ASHRAE	Manual J
Michigan	Bay	87	4	2.7	Manual J	Manual J
Michigan	Benzie	82	7	3.8	Manual J	Manual J
Michigan	Berrien	86	10	2.4	Manual J	Manual J
Michigan	Branch	88	7	2.2	ASHRAE	ASHRAE
Michigan	Calhoun	88	7	2.2	ASHRAE	ASHRAE
Michigan	Cass	88	5	2	ASHRAE	Manual J
Michigan	Charlevoix	82	7	3.6	ASHRAE	ASHRAE
Michigan	Cheboygan	84	-4	4.3	Manual J	Manual J
Michigan	Chippewa	81	-6	5.6	Manual J	Manual J
Michigan	Clare	87	4	3.1	Manual J	Manual J
Michigan	Clinton	87	3	2.7	Manual J	Manual J
Michigan	Crawford	84	-1	3.9	Manual J	Manual J
Michigan	Delta	80	-3	5.1	ASHRAE	Manual J
Michigan	Dickinson	84	-6	4.5	ASHRAE	ASHRAE
Michigan	Eaton	87	3	2.7	Manual J	Manual J
Michigan	Emmet	84	-4	4.3	Manual J	Manual J
Michigan	Genesee	87	4	2.6	Manual J	Manual J
Michigan	Gladwin	84	-1	3.9	Manual J	Manual J
Michigan	Gogebic	82	-8	5.2	ASHRAE	ASHRAE
Michigan	Grand Traverse	86	5	3.2	Manual J	Manual J
Michigan	Gratiot	87	3	2.9	ASHRAE	ASHRAE
Michigan	Hillsdale	86	7	2.3	ASHRAE	ASHRAE
Michigan	Houghton	81	-1	5.4	ASHRAE	Manual J
Michigan	Huron	85	3	3.5	Manual J	ASHRAE
Michigan	Ingham	86	7	2.4	ASHRAE	ASHRAE
Michigan	Ionia	87	6	2.5	ASHRAE	Manual J
Michigan	Iosco	86	3	3.4	ASHRAE	ASHRAE
Michigan	Iron	84	-6	4.5	ASHRAE	ASHRAE
Michigan	Isabella	87	4	3.1	Manual J	Manual J
Michigan	Jackson	86	5	2.6	Manual J	Manual J
Michigan	Kalamazoo	88	5	2.6	Manual J	Manual J
Michigan	Kalkaska	84	0	3.9	ASHRAE	Manual J
Michigan	Kent	87	6	2.5	ASHRAE	Manual J
Michigan	Keweenaw	77	-4	10.7	ASHRAE	Manual J
Michigan	Lake	86	1	3.4	ASHRAE	ASHRAE
Michigan	Lapeer	87	4	2.5	Manual J	Manual J
Michigan	Leelanau	86	5	3.2	Manual J	Manual J
Michigan	Lenawee	88	3	2.5	Manual J	Manual J
Michigan	Livingston	88	7	2.3	Manual J	ASHRAE
Michigan	Luce	81	1	4.8	ASHRAE	ASHRAE

Michigan	Mackinac	81	-5	5.2	Manual J	Manual J
Michigan	Macomb	87	7	2.5	Manual J	Manual J
Michigan	Manistee	82	7	3.8	Manual J	Manual J
Michigan	Marquette	83	-9	6.6	Manual J	Manual J
Michigan	Mason	81	9	3.3	ASHRAE	ASHRAE
Michigan	Mecosta	86	1	3.4	ASHRAE	ASHRAE
Michigan	Menominee	82	-2	3.9	ASHRAE	ASHRAE
Michigan	Midland	87	4	2.7	Manual J	Manual J
Michigan	Missaukee	84	-2	4.1	Manual J	Manual J
Michigan	Monroe	88	9	2	ASHRAE	ASHRAE
Michigan	Montcalm	87	3	2.9	ASHRAE	ASHRAE
Michigan	Montmorency	82	0	4.2	ASHRAE	ASHRAE
Michigan	Muskegon	84	9	2.7	Manual J	Manual J
Michigan	Newaygo	86	1	3.4	ASHRAE	ASHRAE
Michigan	Oakland	87	4	2.5	Manual J	Manual J
Michigan	Oceana	81	9	3.3	ASHRAE	ASHRAE
Michigan	Ogemaw	84	-1	3.9	Manual J	Manual J
Michigan	Ontonagon	82	-4	10.7	ASHRAE	Manual J
Michigan	Osceola	84	-2	4.1	Manual J	Manual J
Michigan	Oscoda	84	-1	3.9	Manual J	Manual J
Michigan	Otsego	82	0	4.2	ASHRAE	ASHRAE
Michigan	Ottawa	84	9	2.7	Manual J	Manual J
Michigan	Presque Isle	85	0	4.2	Manual J	Manual J
Michigan	Roscommon	84	-1	3.9	Manual J	Manual J
Michigan	Saginaw	87	4	2.7	Manual J	Manual J
Michigan	Sanilac	85	3	3.5	Manual J	ASHRAE
Michigan	Schoolcraft	77	0	5.5	ASHRAE	ASHRAE
Michigan	Shiawassee	87	7	2.3	Manual J	ASHRAE
Michigan	St. Clair	87	4	2.6	Manual J	Manual J
Michigan	St. Joseph	88	7	2.1	Manual J	ASHRAE
Michigan	Tuscola	87	3	3.5	Manual J	ASHRAE
Michigan	Van Buren	86	10	2.4	Manual J	Manual J
Michigan	Washtenaw	89	5	2.6	Manual J	ASHRAE
Michigan	Wayne	88	6	2.3	ASHRAE	Manual J
Michigan	Wexford	84	-2	4.1	Manual J	Manual J
Minnesota						
Minnesota	Aitkin	82	-15	5.4	ASHRAE	Manual J
Minnesota	Anoka	88	-6	2.9	Manual J	ASHRAE
Minnesota	Becker	84	-16	4	Manual J	Manual J
Minnesota	Beltrami	84	-17	5.5	Manual J	ASHRAE
Minnesota	Benton	87	-13	3.8	Manual J	Manual J
Minnesota	Big Stone	88	-8	2.8	ASHRAE	ASHRAE
Minnesota	Blue Earth	86	-8	2.9	Manual J	ASHRAE
Minnesota	Brown	88	-9	3	Manual J	ASHRAE
Minnesota	Carlton	86	-12	6	ASHRAE	ASHRAE
Minnesota	Carver	88	-10	3.2	ASHRAE	Manual J
Minnesota	Cass	84	-17	5.4	ASHRAE	ASHRAE
Minnesota	Chippewa	88	-9	3.1	Manual J	Manual J
Minnesota	Chisago	86	-8	3.6	ASHRAE	ASHRAE
Minnesota	Clay	88	-15	3.7	Manual J	Manual J
Minnesota	Clearwater	84	-17	4.7	Manual J	ASHRAE
Minnesota	Cook	79	-11	8.3	Manual J	ASHRAE
Minnesota	Cottonwood	88	-6	2.8	ASHRAE	ASHRAE
Minnesota	Crow Wing	85	-17	4.9	ASHRAE	ASHRAE
Minnesota	Dakota	88	-10	3.2	ASHRAE	ASHRAE
Minnesota	Dodge	86	-8	3	Manual J	ASHRAE
Minnesota	Douglas	86	-14	3.7	Manual J	Manual J

Minnesota	Faribault	86	-7	2.9	ASHRAE	ASHRAE
Minnesota	Fillmore	85	-9	3.3	Manual J	Manual J
Minnesota	Freeborn	86	-8	2.9	Manual J	ASHRAE
Minnesota	Goodhue	88	-8	2.9	Manual J	Manual J
Minnesota	Grant	86	-13	3.8	Manual J	ASHRAE
Minnesota	Hennepin	88	-8	2.7	ASHRAE	Manual J
Minnesota	Houston	89	-6	2.4	Manual J	Manual J
Minnesota	Hubbard	84	-17	4.7	ASHRAE	ASHRAE
Minnesota	Isanti	88	-11	3.5	Manual J	ASHRAE
Minnesota	Itasca	82	-17	5.7	ASHRAE	ASHRAE
Minnesota	Jackson	88	-6	2.8	ASHRAE	ASHRAE
Minnesota	Kanabec	86	-11	4.1	Manual J	ASHRAE
Minnesota	Kandiyohi	85	-13	3.5	ASHRAE	ASHRAE
Minnesota	Kittson	85	-20	5.1	Manual J	Manual J
Minnesota	Koochiching	83	-21	6	Manual J	Manual J
Minnesota	Lac qui Parle	88	-9	3.1	ASHRAE	ASHRAE
Minnesota	Lake	82	-14	7.7	ASHRAE	Manual J
Minnesota	Lake of the Woods	82	-19	5.6	ASHRAE	ASHRAE
Minnesota	Le Sueur	86	-8	2.9	Manual J	ASHRAE
Minnesota	Lincoln	86	-8	3.1	Manual J	ASHRAE
Minnesota	Lyon	88	-8	3.1	Manual J	ASHRAE
Minnesota	Mahnomen	84	-16	4	Manual J	Manual J
Minnesota	Marshall	82	-18	5.1	Manual J	Manual J
Minnesota	Martin	86	-7	2.9	ASHRAE	ASHRAE
Minnesota	McLeod	88	-10	3.2	Manual J	Manual J
Minnesota	Meeker	85	-9	3.3	Manual J	ASHRAE
Minnesota	Mille Lacs	88	-9	3.5	Manual J	ASHRAE
Minnesota	Morrison	87	-13	3.9	Manual J	ASHRAE
Minnesota	Mower	86	-8	3	Manual J	ASHRAE
Minnesota	Murray	85	-8	3.2	Manual J	ASHRAE
Minnesota	Nicollet	88	-9	3	Manual J	ASHRAE
Minnesota	Nobles	85	-8	3.2	Manual J	ASHRAE
Minnesota	Norman	84	-19	4.9	Manual J	Manual J
Minnesota	Olmsted	85	-9	3.3	Manual J	Manual J
Minnesota	Otter Tail	86	-17	5.3	Manual J	ASHRAE
Minnesota	Pennington	82	-18	5.2	ASHRAE	ASHRAE
Minnesota	Pine	86	-8	3.6	ASHRAE	ASHRAE
Minnesota	Pipestone	86	-8	3.1	Manual J	ASHRAE
Minnesota	Polk	84	-19	4.9	Manual J	Manual J
Minnesota	Pope	86	-11	3.3	ASHRAE	ASHRAE
Minnesota	Ramsey	88	-8	2.8	Manual J	Manual J
Minnesota	Red Lake	82	-18	5.2	ASHRAE	ASHRAE
Minnesota	Redwood	89	-11	2.8	Manual J	Manual J
Minnesota	Renville	89	-11	2.8	Manual J	Manual J
Minnesota	Rice	87	-9	3	ASHRAE	Manual J
Minnesota	Rock	86	-8	3.1	Manual J	ASHRAE
Minnesota	Roseau	84	-20	6.1	ASHRAE	ASHRAE
Minnesota	Scott	88	-10	3.2	ASHRAE	ASHRAE
Minnesota	Sherburne	87	-13	3.8	Manual J	Manual J
Minnesota	Sibley	88	-10	3.2	Manual J	Manual J
Minnesota	St. Louis	83	-21	6.4	Manual J	Manual J
Minnesota	Stearns	85	-9	3.3	Manual J	ASHRAE
Minnesota	Steele	86	-9	3	ASHRAE	ASHRAE
Minnesota	Stevens	85	-13	3.8	ASHRAE	ASHRAE
Minnesota	Swift	88	-11	3.9	Manual J	ASHRAE
Minnesota	Todd	84	-13	4	ASHRAE	ASHRAE
Minnesota	Traverse	86	-13	3.7	ASHRAE	Manual J

Minnesota	Wabasha	88	-8	2.9	ASHRAE	ASHRAE
Minnesota	Wadena	84	-13	4	ASHRAE	ASHRAE
Minnesota	Waseca	86	-9	3	ASHRAE	ASHRAE
Minnesota	Washington	88	-8	2.8	Manual J	Manual J
Minnesota	Watsonwan	88	-6	2.6	Manual J	ASHRAE
Minnesota	Wilkin	86	-13	3.7	Manual J	Manual J
Minnesota	Winona	89	-4	2.5	Manual J	ASHRAE
Minnesota	Wright	87	-13	3.8	Manual J	Manual J
Minnesota	Yellow Medicine	88	-9	3.1	Manual J	Manual J
Mississippi						
Mississippi	Adams	91	28	0.4	ASHRAE	ASHRAE
Mississippi	Alcorn	94	23	0.6	Manual J	Manual J
Mississippi	Amite	93	28	0.3	Manual J	Manual J
Mississippi	Attala	94	25	0.4	ASHRAE	Manual J
Mississippi	Benton	94	23	0.6	Manual J	Manual J
Mississippi	Bolivar	93	20	0.5	Manual J	Manual J
Mississippi	Calhoun	94	23	0.6	Manual J	Manual J
Mississippi	Carroll	94	25	0.4	ASHRAE	Manual J
Mississippi	Chickasaw	94	23	0.6	Manual J	Manual J
Mississippi	Choctaw	94	25	0.5	ASHRAE	ASHRAE
Mississippi	Claiborne	95	26	0.3	Manual J	Manual J
Mississippi	Clarke	95	26	0.4	ASHRAE	Manual J
Mississippi	Clay	95	25	0.5	ASHRAE	ASHRAE
Mississippi	Coahoma	94	19	0.6	Manual J	Manual J
Mississippi	Copiah	94	26	0.4	ASHRAE	Manual J
Mississippi	Covington	93	28	0.3	Manual J	Manual J
Mississippi	DeSoto	95	20	0.6	ASHRAE	Manual J
Mississippi	Forrest	93	28	0.3	Manual J	Manual J
Mississippi	Franklin	91	28	0.4	ASHRAE	ASHRAE
Mississippi	George	91	30	0.3	ASHRAE	ASHRAE
Mississippi	Greene	93	28	0.3	Manual J	Manual J
Mississippi	Grenada	94	25	0.4	ASHRAE	Manual J
Mississippi	Hancock	91	30	0.3	ASHRAE	ASHRAE
Mississippi	Harrison	92	32	0.2	Manual J	ASHRAE
Mississippi	Hinds	94	26	0.4	ASHRAE	Manual J
Mississippi	Holmes	94	25	0.4	ASHRAE	Manual J
Mississippi	Humphreys	94	25	0.4	ASHRAE	Manual J
Mississippi	Issaquena	95	28	0.4	ASHRAE	ASHRAE
Mississippi	Itawamba	94	23	0.6	Manual J	Manual J
Mississippi	Jackson	91	30	0.3	ASHRAE	ASHRAE
Mississippi	Jasper	94	27	0.4	Manual J	Manual J
Mississippi	Jefferson	91	28	0.4	ASHRAE	ASHRAE
Mississippi	Jefferson Davis	93	28	0.3	Manual J	Manual J
Mississippi	Jones	94	27	0.4	Manual J	Manual J
Mississippi	Kemper	95	26	0.4	ASHRAE	Manual J
Mississippi	Lafayette	94	23	0.6	Manual J	Manual J
Mississippi	Lamar	93	28	0.3	Manual J	Manual J
Mississippi	Lauderdale	95	26	0.4	ASHRAE	Manual J
Mississippi	Lawrence	93	28	0.3	Manual J	Manual J
Mississippi	Leake	94	26	0.4	ASHRAE	Manual J
Mississippi	Lee	94	23	0.6	Manual J	Manual J
Mississippi	Leflore	94	25	0.4	ASHRAE	Manual J
Mississippi	Lincoln	93	28	0.3	Manual J	Manual J
Mississippi	Lowndes	95	25	0.5	ASHRAE	ASHRAE
Mississippi	Madison	94	26	0.4	ASHRAE	Manual J
Mississippi	Marion	93	28	0.3	Manual J	Manual J
Mississippi	Marshall	95	20	0.6	ASHRAE	Manual J

Mississippi	Monroe	95	25	0.5	ASHRAE	ASHRAE
Mississippi	Montgomery	94	25	0.4	ASHRAE	Manual J
Mississippi	Neshoba	95	26	0.4	ASHRAE	Manual J
Mississippi	Newton	95	26	0.4	ASHRAE	Manual J
Mississippi	Noxubee	95	25	0.5	ASHRAE	ASHRAE
Mississippi	Oktibbeha	95	25	0.5	ASHRAE	ASHRAE
Mississippi	Panola	94	19	0.6	Manual J	Manual J
Mississippi	Pearl River	93	28	0.3	Manual J	Manual J
Mississippi	Perry	93	28	0.3	Manual J	Manual J
Mississippi	Pike	93	28	0.3	Manual J	Manual J
Mississippi	Pontotoc	94	23	0.6	Manual J	Manual J
Mississippi	Prentiss	94	23	0.6	Manual J	Manual J
Mississippi	Quitman	94	19	0.6	Manual J	Manual J
Mississippi	Rankin	94	26	0.4	ASHRAE	Manual J
Mississippi	Scott	94	26	0.4	ASHRAE	Manual J
Mississippi	Sharkey	95	26	0.3	Manual J	Manual J
Mississippi	Simpson	94	26	0.4	ASHRAE	Manual J
Mississippi	Smith	94	27	0.4	Manual J	Manual J
Mississippi	Stone	92	32	0.2	Manual J	ASHRAE
Mississippi	Sunflower	93	20	0.5	Manual J	Manual J
Mississippi	Tallahatchie	94	19	0.6	ASHRAE	Manual J
Mississippi	Tate	95	20	0.6	ASHRAE	Manual J
Mississippi	Tippah	94	23	0.6	Manual J	Manual J
Mississippi	Tishomingo	94	21	0.6	Manual J	Manual J
Mississippi	Tunica	94	19	0.6	Manual J	Manual J
Mississippi	Union	94	23	0.6	Manual J	Manual J
Mississippi	Walthall	93	28	0.3	Manual J	Manual J
Mississippi	Warren	95	26	0.3	Manual J	Manual J
Mississippi	Washington	93	20	0.5	Manual J	Manual J
Mississippi	Wayne	94	27	0.4	Manual J	Manual J
Mississippi	Webster	94	25	0.5	ASHRAE	ASHRAE
Mississippi	Wilkinson	91	28	0.4	ASHRAE	ASHRAE
Mississippi	Winston	95	25	0.5	ASHRAE	ASHRAE
Mississippi	Yalobusha	94	25	0.4	ASHRAE	Manual J
Mississippi	Yazoo	94	26	0.4	ASHRAE	Manual J
Missouri						
Missouri	Adair	91	1	1.6	Manual J	Manual J
Missouri	Andrew	91	5	1.4	ASHRAE	ASHRAE
Missouri	Atchison	93	3	1.5	ASHRAE	ASHRAE
Missouri	Audrain	94	4	1.6	Manual J	Manual J
Missouri	Barry	92	16	0.9	Manual J	ASHRAE
Missouri	Barton	94	12	0.9	Manual J	Manual J
Missouri	Bates	93	10	1.2	Manual J	ASHRAE
Missouri	Benton	93	10	1.1	Manual J	ASHRAE
Missouri	Bollinger	93	14	1	Manual J	Manual J
Missouri	Boone	92	7	1.3	Manual J	Manual J
Missouri	Buchanan	91	5	1.4	ASHRAE	ASHRAE
Missouri	Butler	92	16	0.9	Manual J	Manual J
Missouri	Caldwell	92	5	1.5	ASHRAE	ASHRAE
Missouri	Callaway	91	12	1.1	ASHRAE	ASHRAE
Missouri	Camden	93	12	1.1	Manual J	ASHRAE
Missouri	Cape Girardeau	95	14	1	Manual J	Manual J
Missouri	Carroll	93	8	1.2	Manual J	Manual J
Missouri	Carter	93	16	0.9	Manual J	Manual J
Missouri	Cass	93	9	1	Manual J	Manual J
Missouri	Cedar	92	11	1.1	Manual J	Manual J
Missouri	Chariton	94	3	1.3	Manual J	Manual J

Missouri	Christian	92	11	1.1	Manual J	Manual J
Missouri	Clark	91	7	1.4	Manual J	ASHRAE
Missouri	Clay	94	9	1	Manual J	Manual J
Missouri	Clinton	93	5	1.3	Manual J	Manual J
Missouri	Cole	91	12	1.1	ASHRAE	ASHRAE
Missouri	Cooper	93	10	1.1	Manual J	ASHRAE
Missouri	Crawford	92	10	1.2	Manual J	Manual J
Missouri	Dade	92	11	1.1	Manual J	Manual J
Missouri	Dallas	92	11	1.1	Manual J	Manual J
Missouri	Daviess	92	5	1.5	ASHRAE	ASHRAE
Missouri	DeKalb	91	5	1.4	ASHRAE	ASHRAE
Missouri	Dent	92	10	1.2	Manual J	Manual J
Missouri	Douglas	91	16	1	ASHRAE	ASHRAE
Missouri	Dunklin	95	17	0.7	Manual J	Manual J
Missouri	Franklin	92	2	1.4	Manual J	Manual J
Missouri	Gasconade	92	10	1.2	Manual J	Manual J
Missouri	Gentry	92	0	2	Manual J	Manual J
Missouri	Greene	92	11	1.1	Manual J	Manual J
Missouri	Grundy	92	5	1.5	ASHRAE	ASHRAE
Missouri	Harrison	92	0	2	Manual J	Manual J
Missouri	Henry	93	8	1.2	Manual J	Manual J
Missouri	Hickory	92	11	1.1	Manual J	Manual J
Missouri	Holt	92	3	1.4	ASHRAE	ASHRAE
Missouri	Howard	94	3	1.3	Manual J	Manual J
Missouri	Howell	91	16	1	ASHRAE	ASHRAE
Missouri	Iron	93	8	1.4	Manual J	Manual J
Missouri	Jackson	94	9	1	Manual J	Manual J
Missouri	Jasper	94	12	0.9	Manual J	Manual J
Missouri	Jefferson	93	2	1.4	Manual J	Manual J
Missouri	Johnson	93	8	1.2	Manual J	Manual J
Missouri	Knox	91	1	1.6	Manual J	Manual J
Missouri	Laclede	93	12	1.1	Manual J	ASHRAE
Missouri	Lafayette	93	8	1.2	Manual J	Manual J
Missouri	Lawrence	92	11	1.1	Manual J	Manual J
Missouri	Lewis	91	7	1.4	Manual J	ASHRAE
Missouri	Lincoln	94	2	1.4	Manual J	Manual J
Missouri	Linn	91	1	1.6	Manual J	Manual J
Missouri	Livingston	92	5	1.5	ASHRAE	ASHRAE
Missouri	Macon	91	1	1.6	Manual J	Manual J
Missouri	Madison	93	8	1.4	Manual J	Manual J
Missouri	Maries	92	10	1.2	Manual J	Manual J
Missouri	Marion	93	3	1.6	Manual J	Manual J
Missouri	McDonald	93	16	0.9	ASHRAE	ASHRAE
Missouri	Mercer	92	5	1.5	ASHRAE	ASHRAE
Missouri	Miller	93	12	1.1	Manual J	ASHRAE
Missouri	Mississippi	95	14	1	Manual J	Manual J
Missouri	Moniteau	92	7	1.3	Manual J	Manual J
Missouri	Monroe	94	4	1.6	Manual J	Manual J
Missouri	Montgomery	94	4	1.6	Manual J	Manual J
Missouri	Morgan	93	10	1.1	Manual J	ASHRAE
Missouri	New Madrid	95	14	1	Manual J	Manual J
Missouri	Newton	94	12	0.9	Manual J	Manual J
Missouri	Nodaway	91	1	1.7	ASHRAE	ASHRAE
Missouri	Oregon	91	16	1	ASHRAE	ASHRAE
Missouri	Osage	91	12	1.1	ASHRAE	ASHRAE
Missouri	Ozark	94	18	0.8	ASHRAE	ASHRAE
Missouri	Pemiscot	95	17	0.7	Manual J	Manual J

Missouri	Perry	93	14	1	Manual J	Manual J
Missouri	Pettis	93	10	1.1	Manual J	ASHRAE
Missouri	Phelps	92	10	1.2	Manual J	Manual J
Missouri	Pike	93	3	1.6	Manual J	Manual J
Missouri	Platte	93	5	1.3	Manual J	Manual J
Missouri	Polk	92	11	1.1	Manual J	Manual J
Missouri	Pulaski	93	12	1.1	Manual J	ASHRAE
Missouri	Putnam	91	1	1.6	Manual J	Manual J
Missouri	Ralls	93	3	1.6	Manual J	Manual J
Missouri	Randolph	94	3	1.3	Manual J	Manual J
Missouri	Ray	94	9	1	Manual J	Manual J
Missouri	Reynolds	93	8	1.4	Manual J	Manual J
Missouri	Ripley	93	16	0.9	Manual J	Manual J
Missouri	Saline	93	10	1.1	Manual J	ASHRAE
Missouri	Schuyler	91	1	1.6	Manual J	Manual J
Missouri	Scotland	91	1	1.6	Manual J	Manual J
Missouri	Scott	95	14	1	Manual J	Manual J
Missouri	Shannon	91	16	1	ASHRAE	ASHRAE
Missouri	Shelby	94	3	1.3	Manual J	Manual J
Missouri	St. Charles	94	2	1.4	Manual J	Manual J
Missouri	St. Clair	93	8	1.2	Manual J	Manual J
Missouri	St. Francois	93	8	1.4	Manual J	Manual J
Missouri	St. Louis	94	2	1.4	Manual J	Manual J
Missouri	St. Louis City	94	2	1.4	Manual J	Manual J
Missouri	Ste. Genevieve	93	8	1.4	Manual J	Manual J
Missouri	Stoddard	95	16	0.9	Manual J	Manual J
Missouri	Stone	92	11	1.1	Manual J	Manual J
Missouri	Sullivan	91	1	1.6	Manual J	Manual J
Missouri	Taney	91	16	0.9	ASHRAE	ASHRAE
Missouri	Texas	91	16	1	ASHRAE	ASHRAE
Missouri	Vernon	94	12	0.9	Manual J	Manual J
Missouri	Warren	94	2	1.4	Manual J	Manual J
Missouri	Washington	93	8	1.4	Manual J	Manual J
Missouri	Wayne	92	16	0.9	Manual J	Manual J
Missouri	Webster	92	11	1.1	Manual J	Manual J
Missouri	Worth	92	0	2	Manual J	Manual J
Missouri	Wright	91	16	1	ASHRAE	ASHRAE

Montana

Montana	Beaverhead	86	0	5.1	Manual J	ASHRAE
Montana	Big Horn	92	-6	3.4	Manual J	Manual J
Montana	Blaine	91	-18	4	Manual J	Manual J
Montana	Broadwater	90	-8	3.8	ASHRAE	Manual J
Montana	Carbon	88	-5	3.6	Manual J	Manual J
Montana	Carter	91	-8	3.7	ASHRAE	ASHRAE
Montana	Cascade	90	-11	4	Manual J	Manual J
Montana	Chouteau	90	-18	4	Manual J	Manual J
Montana	Custer	95	-12	2.7	Manual J	Manual J
Montana	Daniels	91	-15	4.2	ASHRAE	ASHRAE
Montana	Dawson	91	-12	3.7	Manual J	Manual J
Montana	Deer Lodge	84	-12	7.9	ASHRAE	Manual J
Montana	Fallon	91	-8	3.7	ASHRAE	ASHRAE
Montana	Fergus	87	-10	5.3	Manual J	Manual J
Montana	Flathead	87	-1	5.5	ASHRAE	Manual J
Montana	Gallatin	89	-10	5.1	ASHRAE	Manual J
Montana	Garfield	93	-18	3.7	Manual J	Manual J
Montana	Glacier	85	-13	6.1	Manual J	Manual J
Montana	Golden Valley	87	-10	5.3	Manual J	Manual J

Montana	Granite	90	2	4.1	ASHRAE	Manual J
Montana	Hill	91	-18	4	Manual J	Manual J
Montana	Jefferson	84	-12	7.9	ASHRAE	Manual J
Montana	Judith Basin	87	-10	5.3	Manual J	Manual J
Montana	Lake	87	-1	5.5	ASHRAE	Manual J
Montana	Lewis and Clark	90	-8	3.8	ASHRAE	Manual J
Montana	Liberty	90	-11	4	Manual J	Manual J
Montana	Lincoln	84	8	5.6	ASHRAE	Manual J
Montana	Madison	86	0	5.1	Manual J	ASHRAE
Montana	McCone	91	-15	4.2	ASHRAE	ASHRAE
Montana	Meagher	89	-10	5.1	ASHRAE	Manual J
Montana	Mineral	84	8	5.6	ASHRAE	Manual J
Montana	Missoula	90	2	4.1	ASHRAE	Manual J
Montana	Musselshell	91	-6	2.7	ASHRAE	Manual J
Montana	Park	90	-14	4.2	ASHRAE	Manual J
Montana	Petroleum	87	-10	5.3	Manual J	Manual J
Montana	Phillips	91	-17	3.7	ASHRAE	Manual J
Montana	Pondera	85	-13	6.1	Manual J	Manual J
Montana	Powder River	92	-4	3.3	Manual J	Manual J
Montana	Powell	84	-8	3.8	ASHRAE	Manual J
Montana	Prairie	95	-12	2.7	Manual J	Manual J
Montana	Ravalli	90	2	4.1	ASHRAE	Manual J
Montana	Richland	91	-13	3.9	ASHRAE	Manual J
Montana	Roosevelt	91	-15	4.2	ASHRAE	ASHRAE
Montana	Rosebud	95	-12	2.7	Manual J	Manual J
Montana	Sanders	84	8	5.6	ASHRAE	Manual J
Montana	Sheridan	91	-18	4	Manual J	Manual J
Montana	Silver Bow	84	-12	7.9	ASHRAE	Manual J
Montana	Stillwater	91	-6	2.7	ASHRAE	Manual J
Montana	Sweet Grass	90	-14	4.2	ASHRAE	Manual J
Montana	Teton	85	-13	6.1	Manual J	Manual J
Montana	Toole	85	-13	6.1	Manual J	Manual J
Montana	Treasure	93	-18	3.7	Manual J	Manual J
Montana	Valley	91	-17	3.7	ASHRAE	Manual J
Montana	Wheatland	87	-10	5.3	Manual J	Manual J
Montana	Wibaux	91	-12	3.7	Manual J	Manual J
Montana	Yellowstone	91	-6	2.7	ASHRAE	Manual J

Nebraska

Nebraska	Adams	93	2	1.7	Manual J	ASHRAE
Nebraska	Antelope	92	-2	2	Manual J	Manual J
Nebraska	Arthur	93	5	2.2	ASHRAE	ASHRAE
Nebraska	Banner	93	-1	2.4	ASHRAE	Manual J
Nebraska	Blaine	91	1	2.3	ASHRAE	ASHRAE
Nebraska	Boone	92	-2	2	Manual J	Manual J
Nebraska	Box Butte	93	0	2.8	ASHRAE	ASHRAE
Nebraska	Boyd	91	-2	2.3	Manual J	Manual J
Nebraska	Brown	91	0	2.4	Manual J	ASHRAE
Nebraska	Buffalo	91	3	2	Manual J	ASHRAE
Nebraska	Burt	91	-1	1.9	Manual J	ASHRAE
Nebraska	Butler	91	0	2.1	Manual J	ASHRAE
Nebraska	Cass	91	2	1.6	Manual J	Manual J
Nebraska	Cedar	90	-3	2.3	Manual J	ASHRAE
Nebraska	Chase	93	5	2.2	ASHRAE	ASHRAE
Nebraska	Cherry	94	-6	2.5	Manual J	Manual J
Nebraska	Cheyenne	93	0	2.6	Manual J	Manual J
Nebraska	Clay	90	3	1.8	ASHRAE	ASHRAE
Nebraska	Colfax	91	0	2.1	Manual J	ASHRAE

Nebraska	Cuming	91	1	1.8	Manual J	ASHRAE
Nebraska	Custer	91	1	2.3	ASHRAE	ASHRAE
Nebraska	Dakota	90	-4	2.1	ASHRAE	Manual J
Nebraska	Dawes	94	-3	2.6	Manual J	Manual J
Nebraska	Dawson	91	1	2.3	ASHRAE	ASHRAE
Nebraska	Deuel	93	5	2.2	ASHRAE	ASHRAE
Nebraska	Dixon	90	-4	2.1	ASHRAE	Manual J
Nebraska	Dodge	91	1	1.8	Manual J	ASHRAE
Nebraska	Douglas	92	-2	1.8	Manual J	Manual J
Nebraska	Dundy	95	4	1.8	Manual J	Manual J
Nebraska	Fillmore	90	3	1.8	ASHRAE	ASHRAE
Nebraska	Franklin	92	5	1.8	Manual J	ASHRAE
Nebraska	Frontier	99	7	1.6	Manual J	ASHRAE
Nebraska	Furnas	92	5	1.8	Manual J	ASHRAE
Nebraska	Gage	93	3	1.6	Manual J	ASHRAE
Nebraska	Garden	93	0	2.8	ASHRAE	ASHRAE
Nebraska	Garfield	91	-2	2.3	Manual J	Manual J
Nebraska	Gosper	92	5	1.8	Manual J	ASHRAE
Nebraska	Grant	93	5	2.2	ASHRAE	ASHRAE
Nebraska	Greeley	93	0	1.8	Manual J	Manual J
Nebraska	Hall	93	0	1.8	Manual J	Manual J
Nebraska	Hamilton	90	3	1.8	ASHRAE	ASHRAE
Nebraska	Harlan	92	5	1.8	Manual J	ASHRAE
Nebraska	Hayes	99	7	1.6	Manual J	ASHRAE
Nebraska	Hitchcock	99	7	1.6	Manual J	ASHRAE
Nebraska	Holt	91	-2	2.3	Manual J	Manual J
Nebraska	Hooker	93	-1	2.2	Manual J	Manual J
Nebraska	Howard	93	0	1.8	Manual J	Manual J
Nebraska	Jefferson	93	3	1.6	Manual J	ASHRAE
Nebraska	Johnson	93	3	1.6	Manual J	ASHRAE
Nebraska	Kearney	91	3	2	Manual J	ASHRAE
Nebraska	Keith	93	5	2.2	ASHRAE	ASHRAE
Nebraska	Keya Paha	91	0	2.4	Manual J	ASHRAE
Nebraska	Kimball	93	-1	2.4	ASHRAE	Manual J
Nebraska	Knox	90	-3	2.3	Manual J	ASHRAE
Nebraska	Lancaster	94	0	1.7	Manual J	Manual J
Nebraska	Lincoln	93	-1	2.2	Manual J	Manual J
Nebraska	Logan	93	-1	2.2	Manual J	Manual J
Nebraska	Loup	91	1	2.3	ASHRAE	ASHRAE
Nebraska	Madison	92	-2	2	Manual J	Manual J
Nebraska	McPherson	93	-1	2.2	Manual J	Manual J
Nebraska	Merrick	90	3	1.8	ASHRAE	ASHRAE
Nebraska	Morrill	93	0	2.8	ASHRAE	ASHRAE
Nebraska	Nance	90	3	1.8	ASHRAE	ASHRAE
Nebraska	Nemaha	92	3	1.4	ASHRAE	ASHRAE
Nebraska	Nuckolls	93	2	1.7	Manual J	ASHRAE
Nebraska	Otoe	91	2	1.6	Manual J	Manual J
Nebraska	Pawnee	93	3	1.6	Manual J	ASHRAE
Nebraska	Perkins	93	5	2.2	ASHRAE	ASHRAE
Nebraska	Phelps	92	5	1.8	Manual J	ASHRAE
Nebraska	Pierce	92	-2	2	Manual J	Manual J
Nebraska	Platte	91	0	2.1	Manual J	ASHRAE
Nebraska	Polk	91	0	2.1	Manual J	ASHRAE
Nebraska	Red Willow	99	7	1.6	Manual J	ASHRAE
Nebraska	Richardson	92	3	1.4	ASHRAE	ASHRAE
Nebraska	Rock	91	0	2.4	Manual J	ASHRAE
Nebraska	Saline	93	3	1.6	Manual J	ASHRAE

Nebraska	Sarpy	91	2	1.6	Manual J	Manual J
Nebraska	Saunders	91	1	1.8	Manual J	ASHRAE
Nebraska	Scotts Bluff	93	-1	2.4	ASHRAE	Manual J
Nebraska	Seward	94	0	1.7	Manual J	Manual J
Nebraska	Sheridan	95	-2	2.6	ASHRAE	ASHRAE
Nebraska	Sherman	91	3	2	Manual J	ASHRAE
Nebraska	Sioux	93	-8	2.9	ASHRAE	Manual J
Nebraska	Stanton	92	-2	2	Manual J	Manual J
Nebraska	Thayer	96	5	1.4	Manual J	Manual J
Nebraska	Thomas	93	-1	2.2	Manual J	Manual J
Nebraska	Thurston	90	-4	2.1	ASHRAE	Manual J
Nebraska	Valley	91	1	2.3	ASHRAE	ASHRAE
Nebraska	Washington	91	-1	1.9	Manual J	ASHRAE
Nebraska	Wayne	92	-2	2	Manual J	Manual J
Nebraska	Webster	93	2	1.7	Manual J	ASHRAE
Nebraska	Wheeler	91	-2	2.3	Manual J	Manual J
Nebraska	York	90	3	1.8	ASHRAE	ASHRAE
Nevada						
Nevada	Carson City	91	9	2.4	Manual J	Manual J
Nevada	Churchill	97	10	2.1	ASHRAE	Manual J - Micro
Nevada	Clark	111	17	0.6	Manual J - Micro	Manual J - Micro
Nevada	Douglas	93	4	2.7	Manual J - Micro	Manual J - Micro
Nevada	Elko	97	-16	7.4	Manual J - Micro	Manual J - Micro
Nevada	Esmeralda	99	2	1.9	Manual J - Micro	Manual J - Micro
Nevada	Eureka	96	-10	5.1	Manual J - Micro	Manual J - Micro
Nevada	Humboldt	97	-9	2.6	Manual J - Micro	Manual J - Micro
Nevada	Lander	97	-9	3.3	Manual J - Micro	Manual J - Micro
Nevada	Lincoln	103	-7	0.9	Manual J - Micro	Manual J - Micro
Nevada	Lyon	97	7	1.7	Manual J - Micro	Manual J - Micro
Nevada	Mineral	99	-2	1.9	Manual J - Micro	Manual J - Micro
Nevada	Nye	105	-7	6.1	Manual J - Micro	Manual J - Micro
Nevada	Pershing	101	6	2.1	Manual J - Micro	Manual J - Micro
Nevada	Storey	86	18	2.8	Manual J - Micro	Manual J - Micro
Nevada	Washoe	97	-2	3.1	Manual J - Micro	Manual J - Micro
Nevada	White Pine	91	-11	6.1	Manual J - Micro	Manual J - Micro
New Hampshire						
New Hampshire	Belknap	84	1	3.3	ASHRAE	Manual J
New Hampshire	Carroll	86	-6	3.7	ASHRAE	ASHRAE
New Hampshire	Cheshire	85	0	3.3	Manual J	Manual J
New Hampshire	Coos	82	-18	92.5	ASHRAE	Manual J
New Hampshire	Grafton	86	-3	3.5	Manual J	Manual J
New Hampshire	Hillsborough	89	7	2.2	Manual J	Manual J
New Hampshire	Merrimack	87	0	3.1	ASHRAE	Manual J
New Hampshire	Rockingham	89	7	2.2	Manual J	Manual J

New Hampshire	Strafford	86	5	2.8	ASHRAE	ASHRAE
New Hampshire	Sullivan	86	-4	3.7	Manual J	Manual J
New Jersey - - - - -						
New Jersey	Atlantic	90	15	1.4	ASHRAE	Manual J
New Jersey	Bergen	90	15	1.5	Manual J	Manual J
New Jersey	Burlington	90	15	1.4	ASHRAE	Manual J
New Jersey	Camden	90	18	1.1	ASHRAE	ASHRAE
New Jersey	Cape May	88	19	1.3	ASHRAE	Manual J
New Jersey	Cumberland	90	11	1.4	Manual J	Manual J
New Jersey	Essex	91	14	1.6	Manual J	ASHRAE
New Jersey	Gloucester	91	18	1.1	ASHRAE	ASHRAE
New Jersey	Hudson	91	17	1.2	Manual J	ASHRAE
New Jersey	Hunterdon	90	6	1.8	ASHRAE	Manual J
New Jersey	Mercer	90	14	1.5	ASHRAE	Manual J
New Jersey	Middlesex	89	10	1.7	Manual J	Manual J
New Jersey	Monmouth	90	13	1.7	Manual J	Manual J
New Jersey	Morris	89	14	1.6	Manual J	ASHRAE
New Jersey	Ocean	90	13	1.7	Manual J	Manual J
New Jersey	Passaic	91	10	1.2	Manual J	Manual J
New Jersey	Salem	89	16	1.3	ASHRAE	Manual J
New Jersey	Somerset	89	10	1.7	Manual J	Manual J
New Jersey	Sussex	88	14	1.6	ASHRAE	ASHRAE
New Jersey	Union	91	17	1.2	ASHRAE	ASHRAE
New Jersey	Warren	89	6	1.8	Manual J	Manual J
New Mexico - - - - -						
New Mexico	Bernalillo	93	21	1	Manual J	Manual J
New Mexico	Catron	104	7	2	Manual J - Micro	Manual J - Micro
New Mexico	Chaves	98	21	0.6	ASHRAE	Manual J
New Mexico	Cibola	88	4	2.1	Manual J	Manual J
New Mexico	Colfax	89	1	2.6	Manual J	Manual J
New Mexico	Curry	95	17	0.9	Manual J	Manual J
New Mexico	De Baca	95	17	0.9	Manual J	Manual J
New Mexico	Dona Ana	97	20	0.6	Manual J	Manual J
New Mexico	Eddy	100	19	0.8	Manual J	Manual J
New Mexico	Grant	94	10	1.3	Manual J	Manual J
New Mexico	Guadalupe	86	13	2.4	ASHRAE	ASHRAE
New Mexico	Harding	95	15	0.9	Manual J	Manual J
New Mexico	Hidalgo	94	16	1.7	Manual J	Manual J - Micro
New Mexico	Lea	99	18	0.6	Manual J	Manual J
New Mexico	Lincoln	86	19	1.4	Manual J	Manual J
New Mexico	Los Alamos	87	9	3.2	Manual J	Manual J
New Mexico	Luna	99	23	0.6	ASHRAE	ASHRAE
New Mexico	McKinley	90	5	2.7	ASHRAE	Manual J
New Mexico	Mora	86	13	2.4	ASHRAE	ASHRAE
New Mexico	Otero	99	22	0.7	Manual J	ASHRAE
New Mexico	Quay	95	15	0.9	Manual J	Manual J
New Mexico	Rio Arriba	87	9	3.2	Manual J	Manual J
New Mexico	Roosevelt	95	17	0.9	Manual J	Manual J
New Mexico	San Juan	93	12	1.6	ASHRAE	ASHRAE
New Mexico	San Miguel	86	13	2.4	ASHRAE	ASHRAE
New Mexico	Sandoval	87	9	3.2	Manual J	Manual J
New Mexico	Santa Fe	90	10	2.5	ASHRAE	Manual J
New Mexico	Sierra	96	25	0.6	Manual J	Manual J
New Mexico	Socorro	95	17	1	Manual J	Manual J
New Mexico	Taos	86	3	3.6	Manual J	ASHRAE

New Mexico	Torrance	86	14	2.2	ASHRAE	ASHRAE
New Mexico	Union	93	12	1.4	ASHRAE	Manual J
New Mexico	Valencia	93	21	1	Manual J	Manual J
New York						
New York	Albany	88	1	2.7	Manual J	Manual J
New York	Allegany	81	3	3.4	ASHRAE	ASHRAE
New York	Bronx	90	17	1.2	ASHRAE	Manual J
New York	Broome	83	4	3.1	Manual J	Manual J
New York	Cattaraugus	84	2	3.1	Manual J	Manual J
New York	Cayuga	87	2	3.1	Manual J	Manual J
New York	Chautauqua	86	3	3.1	Manual J	Manual J
New York	Chemung	87	3	2.8	Manual J	Manual J
New York	Chenango	83	4	3.1	Manual J	Manual J
New York	Clinton	83	-5	3.7	ASHRAE	ASHRAE
New York	Columbia	84	-3	2.5	Manual J	Manual J
New York	Cortland	85	0	3	Manual J	Manual J
New York	Delaware	83	-4	3.1	Manual J	Manual J
New York	Dutchess	89	6	2.2	Manual J	Manual J
New York	Erie	84	7	2.5	Manual J	Manual J
New York	Essex	81	-11	6.4	ASHRAE	ASHRAE
New York	Franklin	81	-11	6.4	ASHRAE	ASHRAE
New York	Fulton	86	-2	3.6	Manual J	Manual J
New York	Genesee	87	5	2.5	Manual J	Manual J
New York	Greene	88	2	2.5	Manual J	Manual J
New York	Hamilton	86	-2	3.6	Manual J	Manual J
New York	Herkimer	86	0	3	Manual J	Manual J
New York	Jefferson	84	-6	3.5	Manual J	Manual J
New York	Kings	89	13	2.4	Manual J	ASHRAE
New York	Lewis	84	0	3	Manual J	Manual J
New York	Livingston	86	6	2.6	ASHRAE	Manual J
New York	Madison	86	0	3	Manual J	Manual J
New York	Monroe	86	6	2.6	ASHRAE	Manual J
New York	Montgomery	86	-2	3.6	Manual J	Manual J
New York	Nassau	88	17	1.2	Manual J	Manual J
New York	New York	89	13	2.4	Manual J	ASHRAE
New York	Niagara	86	7	2.5	Manual J	Manual J
New York	Oneida	86	0	3	Manual J	Manual J
New York	Onondaga	86	3	2.5	ASHRAE	Manual J
New York	Ontario	87	2	2.9	Manual J	Manual J
New York	Orange	88	9	2.2	ASHRAE	ASHRAE
New York	Orleans	87	5	2.5	Manual J	Manual J
New York	Oswego	84	3	2.9	ASHRAE	ASHRAE
New York	Otsego	83	-4	3.1	Manual J	Manual J
New York	Putnam	89	6	2.2	Manual J	Manual J
New York	Queens	90	17	1.2	ASHRAE	Manual J
New York	Rensselaer	88	1	2.7	Manual J	Manual J
New York	Richmond	91	17	1.2	ASHRAE	ASHRAE
New York	Rockland	90	15	1.5	Manual J	Manual J
New York	Saratoga	87	1	2.4	Manual J	Manual J
New York	Schenectady	87	1	2.4	Manual J	Manual J
New York	Schoharie	86	-2	3.6	Manual J	Manual J
New York	Schuyler	86	7	2.4	ASHRAE	ASHRAE
New York	Seneca	87	2	2.9	Manual J	Manual J
New York	St. Lawrence	85	-9	3.6	Manual J	Manual J
New York	Steuben	85	0	3.4	Manual J	Manual J
New York	Suffolk	88	10	1.7	Manual J	Manual J
New York	Sullivan	82	3	3.4	ASHRAE	Manual J

New York	Tioga	83	4	3.1	Manual J	Manual J
New York	Tompkins	85	0	3.4	Manual J	Manual J
New York	Ulster	88	2	2.5	Manual J	Manual J
New York	Warren	85	-3	3.2	ASHRAE	ASHRAE
New York	Washington	85	-4	3.3	Manual J	Manual J
New York	Wayne	87	2	2.9	Manual J	Manual J
New York	Westchester	87	12	1.9	Manual J	Manual J
New York	Wyoming	87	5	2.5	Manual J	Manual J
New York	Yates	86	7	2.4	ASHRAE	ASHRAE
North Carolina						
North Carolina	Alamance	91	21	0.8	ASHRAE	ASHRAE
North Carolina	Alexander	90	23	0.8	ASHRAE	Manual J
North Carolina	Alleghany	82	16	1.5	ASHRAE	ASHRAE
North Carolina	Anson	92	21	0.8	Manual J	Manual J
North Carolina	Ashe	82	16	1.5	ASHRAE	ASHRAE
North Carolina	Avery	82	16	1.5	ASHRAE	ASHRAE
North Carolina	Beaufort	92	26	0.5	Manual J	Manual J
North Carolina	Bertie	91	27	0.6	ASHRAE	ASHRAE
North Carolina	Bladen	92	21	0.6	Manual J	Manual J
North Carolina	Brunswick	91	28	0.4	Manual J	ASHRAE
North Carolina	Buncombe	86	19	1.2	Manual J	ASHRAE
North Carolina	Burke	90	23	0.8	ASHRAE	Manual J
North Carolina	Cabarrus	91	25	0.6	ASHRAE	ASHRAE
North Carolina	Caldwell	90	23	0.8	ASHRAE	Manual J
North Carolina	Camden	91	19	0.6	Manual J	Manual J
North Carolina	Carteret	86	28	0.5	ASHRAE	ASHRAE
North Carolina	Caswell	91	21	0.8	ASHRAE	ASHRAE
North Carolina	Catawba	90	23	0.8	ASHRAE	Manual J
North Carolina	Chatham	91	21	0.8	ASHRAE	ASHRAE
North Carolina	Cherokee	92	18	1	Manual J	Manual J
North Carolina	Chowan	91	27	0.6	ASHRAE	ASHRAE
North Carolina	Clay	91	27	0.6	ASHRAE	ASHRAE
North Carolina	Cleveland	91	25	0.7	ASHRAE	ASHRAE
North Carolina	Columbus	92	21	0.6	Manual J	Manual J
North Carolina	Craven	92	26	0.5	Manual J	Manual J
North Carolina	Cumberland	95	25	0.5	ASHRAE	ASHRAE
North Carolina	Currituck	91	19	0.6	Manual J	Manual J
North Carolina	Dare	90	30	0.5	ASHRAE	ASHRAE
North Carolina	Davidson	91	23	0.8	ASHRAE	Manual J
North Carolina	Davie	91	23	0.8	ASHRAE	Manual J
North Carolina	Duplin	91	25	0.6	ASHRAE	ASHRAE
North Carolina	Durham	92	20	0.8	Manual J	Manual J
North Carolina	Edgecombe	91	21	0.7	Manual J	Manual J
North Carolina	Forsyth	91	23	0.8	ASHRAE	Manual J
North Carolina	Franklin	92	15	1	Manual J	Manual J
North Carolina	Gaston	92	25	0.6	ASHRAE	ASHRAE
North Carolina	Gates	93	25	0.6	ASHRAE	ASHRAE
North Carolina	Graham	91	20	0.8	ASHRAE	Manual J
North Carolina	Granville	92	15	1	Manual J	Manual J
North Carolina	Greene	94	26	0.5	ASHRAE	Manual J
North Carolina	Guilford	90	22	0.8	ASHRAE	Manual J
North Carolina	Halifax	91	25	0.7	ASHRAE	ASHRAE
North Carolina	Harnett	95	27	0.5	ASHRAE	ASHRAE
North Carolina	Haywood	86	19	1.2	Manual J	ASHRAE
North Carolina	Henderson	86	19	1.2	Manual J	ASHRAE
North Carolina	Hertford	93	23	0.6	ASHRAE	ASHRAE
North Carolina	Hoke	93	25	0.5	ASHRAE	ASHRAE

North Carolina	Hyde	90	30	0.5	ASHRAE	ASHRAE
North Carolina	Iredell	90	23	0.8	ASHRAE	Manual J
North Carolina	Jackson	86	19	1.2	Manual J	ASHRAE
North Carolina	Johnston	95	27	0.5	ASHRAE	ASHRAE
North Carolina	Jones	92	26	0.5	Manual J	Manual J
North Carolina	Lee	93	23	0.7	ASHRAE	ASHRAE
North Carolina	Lenoir	94	26	0.5	ASHRAE	Manual J
North Carolina	Lincoln	92	25	0.6	ASHRAE	ASHRAE
North Carolina	Macon	91	28	0.5	ASHRAE	ASHRAE
North Carolina	Madison	90	16	1.5	Manual J	Manual J
North Carolina	Martin	93	25	0.6	Manual J	ASHRAE
North Carolina	McDowell	91	25	0.7	ASHRAE	ASHRAE
North Carolina	Mecklenburg	92	25	0.6	Manual J	Manual J
North Carolina	Mitchell	88	17	1.1	ASHRAE	Manual J
North Carolina	Montgomery	91	25	0.6	ASHRAE	ASHRAE
North Carolina	Moore	93	23	0.7	ASHRAE	ASHRAE
North Carolina	Nash	91	23	0.7	ASHRAE	ASHRAE
North Carolina	New Hanover	91	28	0.4	Manual J	ASHRAE
North Carolina	Northampton	91	25	0.7	ASHRAE	ASHRAE
North Carolina	Onslow	91	25	0.6	ASHRAE	ASHRAE
North Carolina	Orange	92	20	0.8	Manual J	Manual J
North Carolina	Pamlico	92	26	0.5	Manual J	Manual J
North Carolina	Pasquotank	91	19	0.6	Manual J	Manual J
North Carolina	Pender	91	28	0.4	Manual J	ASHRAE
North Carolina	Perquimans	91	27	0.6	ASHRAE	ASHRAE
North Carolina	Person	92	20	0.8	Manual J	Manual J
North Carolina	Pitt	93	25	0.6	Manual J	ASHRAE
North Carolina	Polk	91	25	0.7	ASHRAE	ASHRAE
North Carolina	Randolph	91	25	0.6	ASHRAE	ASHRAE
North Carolina	Richmond	92	21	0.8	Manual J	Manual J
North Carolina	Robeson	92	21	0.6	Manual J	Manual J
North Carolina	Rockingham	91	22	0.8	Manual J	Manual J
North Carolina	Rowan	91	23	0.8	ASHRAE	Manual J
North Carolina	Rutherford	91	25	0.7	ASHRAE	ASHRAE
North Carolina	Sampson	95	27	0.5	ASHRAE	ASHRAE
North Carolina	Scotland	93	25	0.5	ASHRAE	ASHRAE
North Carolina	Stanly	91	25	0.6	ASHRAE	ASHRAE
North Carolina	Stokes	91	23	0.8	ASHRAE	Manual J
North Carolina	Surry	84	16	1.4	ASHRAE	ASHRAE
North Carolina	Swain	91	20	0.8	ASHRAE	Manual J
North Carolina	Transylvania	86	19	1.2	Manual J	ASHRAE
North Carolina	Tyrrell	91	19	0.6	Manual J	Manual J
North Carolina	Union	91	25	0.6	ASHRAE	ASHRAE
North Carolina	Vance	92	15	1	Manual J	Manual J
North Carolina	Wake	92	23	0.7	ASHRAE	Manual J
North Carolina	Warren	93	23	0.7	ASHRAE	Manual J
North Carolina	Washington	91	27	0.6	ASHRAE	ASHRAE
North Carolina	Watauga	82	16	1.5	ASHRAE	ASHRAE
North Carolina	Wayne	94	26	0.5	ASHRAE	Manual J
North Carolina	Wilkes	82	16	1.5	ASHRAE	ASHRAE
North Carolina	Wilson	91	23	0.7	ASHRAE	ASHRAE
North Carolina	Yadkin	91	23	0.8	ASHRAE	Manual J
North Carolina	Yancey	86	19	1.2	Manual J	ASHRAE
North Dakota						
North Dakota	Adams	91	-9	4.1	ASHRAE	ASHRAE
North Dakota	Barnes	88	-15	3.9	Manual J	Manual J
North Dakota	Benson	82	-18	5	ASHRAE	Manual J

North Dakota	Billings	90	-13	3.9	Manual J	Manual J
North Dakota	Bottineau	89	-18	4.2	ASHRAE	ASHRAE
North Dakota	Bowman	92	-9	3.2	Manual J	Manual J
North Dakota	Burke	89	-18	4.2	ASHRAE	ASHRAE
North Dakota	Burleigh	90	-14	3.6	ASHRAE	Manual J
North Dakota	Cass	88	-15	3.7	Manual J	Manual J
North Dakota	Cavalier	82	-18	5	ASHRAE	Manual J
North Dakota	Dickey	89	-12	3.3	Manual J	ASHRAE
North Dakota	Divide	91	-18	4	Manual J	Manual J
North Dakota	Dunn	90	-13	3.9	Manual J	Manual J
North Dakota	Eddy	82	-18	5	ASHRAE	Manual J
North Dakota	Emmons	90	-14	3.6	ASHRAE	Manual J
North Dakota	Foster	88	-15	3.9	Manual J	Manual J
North Dakota	Golden Valley	91	-8	3.7	ASHRAE	ASHRAE
North Dakota	Grand Forks	88	-17	4.3	Manual J	ASHRAE
North Dakota	Grant	97	-13	2.7	ASHRAE	ASHRAE
North Dakota	Griggs	88	-15	3.9	Manual J	Manual J
North Dakota	Hettinger	91	-9	4.1	ASHRAE	ASHRAE
North Dakota	Kidder	90	-14	3.6	ASHRAE	Manual J
North Dakota	LaMoure	88	-15	3.9	Manual J	Manual J
North Dakota	Logan	88	-15	3.9	Manual J	Manual J
North Dakota	McHenry	89	-18	4.2	ASHRAE	ASHRAE
North Dakota	McIntosh	88	-15	3.9	Manual J	Manual J
North Dakota	McKenzie	91	-18	4	Manual J	Manual J
North Dakota	McLean	88	-17	4.6	ASHRAE	ASHRAE
North Dakota	Mercer	88	-17	4.6	ASHRAE	ASHRAE
North Dakota	Morton	90	-14	3.6	ASHRAE	Manual J
North Dakota	Mountrail	89	-18	4.2	ASHRAE	ASHRAE
North Dakota	Nelson	82	-18	5	ASHRAE	Manual J
North Dakota	Oliver	88	-17	4.6	ASHRAE	ASHRAE
North Dakota	Pembina	85	-20	5.1	Manual J	Manual J
North Dakota	Pierce	82	-18	5	ASHRAE	Manual J
North Dakota	Ramsey	82	-18	5	ASHRAE	Manual J
North Dakota	Ransom	89	-14	3.6	Manual J	Manual J
North Dakota	Renville	89	-18	4.2	ASHRAE	ASHRAE
North Dakota	Richland	89	-14	3.6	Manual J	Manual J
North Dakota	Rolette	82	-18	5	ASHRAE	Manual J
North Dakota	Sargent	89	-14	3.6	Manual J	Manual J
North Dakota	Sheridan	90	-14	3.6	ASHRAE	Manual J
North Dakota	Sioux	90	-14	3.6	ASHRAE	Manual J
North Dakota	Slope	90	-13	3.9	Manual J	Manual J
North Dakota	Stark	90	-13	3.9	Manual J	Manual J
North Dakota	Steele	88	-17	4.3	Manual J	ASHRAE
North Dakota	Stutsman	88	-15	3.9	Manual J	Manual J
North Dakota	Towner	82	-18	5	ASHRAE	Manual J
North Dakota	Traill	88	-17	4.3	Manual J	ASHRAE
North Dakota	Walsh	88	-17	4.3	Manual J	ASHRAE
North Dakota	Ward	89	-18	4.2	ASHRAE	ASHRAE
North Dakota	Wells	82	-18	5	ASHRAE	Manual J
North Dakota	Williams	91	-18	4	Manual J	Manual J
Northern Mariana Islands						
Northern Mariana Islan	N/A	90	75	0	ASHRAE	ASHRAE
Ohio						
Ohio	Adams	92	10	1.5	Manual J	Manual J
Ohio	Allen	91	4	1.9	Manual J	Manual J
Ohio	Ashland	86	6	2.2	Manual J	Manual J

Ohio	Ashtabula	88	9	2.6	ASHRAE	Manual J
Ohio	Athens	92	6	1.9	Manual J	Manual J
Ohio	Auglaize	91	4	1.9	Manual J	Manual J
Ohio	Belmont	86	5	1.6	Manual J	Manual J
Ohio	Brown	88	10	1.5	ASHRAE	ASHRAE
Ohio	Butler	90	5	1.3	ASHRAE	Manual J
Ohio	Carroll	88	10	1.9	ASHRAE	ASHRAE
Ohio	Champaign	89	3	2	Manual J	Manual J
Ohio	Clark	89	3	2	Manual J	Manual J
Ohio	Clermont	90	12	1.3	ASHRAE	Manual J
Ohio	Clinton	88	10	1.5	ASHRAE	ASHRAE
Ohio	Columbiana	86	5	1.9	Manual J	Manual J
Ohio	Coshocton	88	10	1.7	Manual J	Manual J
Ohio	Crawford	91	5	2.2	Manual J	Manual J
Ohio	Cuyahoga	87	9	2	ASHRAE	Manual J
Ohio	Darke	90	2	2	Manual J	Manual J
Ohio	Defiance	91	4	2.1	Manual J	Manual J
Ohio	Delaware	91	9	1.5	Manual J	Manual J
Ohio	Erie	91	6	2	Manual J	Manual J
Ohio	Fairfield	88	9	1.7	ASHRAE	ASHRAE
Ohio	Fayette	88	10	1.5	ASHRAE	ASHRAE
Ohio	Franklin	90	9	1.5	Manual J	Manual J
Ohio	Fulton	88	3	2.5	Manual J	Manual J
Ohio	Gallia	91	10	1.6	Manual J	Manual J
Ohio	Geauga	87	5	2.7	Manual J	Manual J
Ohio	Greene	89	9	1.6	Manual J	Manual J
Ohio	Guernsey	90	7	1.7	Manual J	Manual J
Ohio	Hamilton	90	12	1.3	ASHRAE	Manual J
Ohio	Hancock	88	6	2	ASHRAE	Manual J
Ohio	Hardin	88	6	2	ASHRAE	Manual J
Ohio	Harrison	88	10	1.9	ASHRAE	ASHRAE
Ohio	Henry	91	4	2.1	Manual J	Manual J
Ohio	Highland	88	10	1.5	ASHRAE	ASHRAE
Ohio	Hocking	88	9	1.7	ASHRAE	ASHRAE
Ohio	Holmes	86	6	2.3	Manual J	Manual J
Ohio	Huron	88	1	2.3	Manual J	Manual J
Ohio	Jackson	92	10	1.5	Manual J	Manual J
Ohio	Jefferson	86	5	1.9	Manual J	Manual J
Ohio	Knox	92	5	2.1	Manual J	Manual J
Ohio	Lake	87	9	2.6	ASHRAE	Manual J
Ohio	Lawrence	91	10	1.6	Manual J	Manual J
Ohio	Licking	92	5	2.1	Manual J	Manual J
Ohio	Logan	89	3	2	Manual J	Manual J
Ohio	Lorain	88	9	1.9	ASHRAE	ASHRAE
Ohio	Lucas	89	5	2.1	ASHRAE	Manual J
Ohio	Madison	89	3	2	Manual J	Manual J
Ohio	Mahoning	87	5	2.7	Manual J	Manual J
Ohio	Marion	91	5	2.2	Manual J	Manual J
Ohio	Medina	87	9	2	ASHRAE	Manual J
Ohio	Meigs	92	6	1.9	Manual J	Manual J
Ohio	Mercer	91	4	1.9	Manual J	Manual J
Ohio	Miami	89	7	1.7	Manual J	Manual J
Ohio	Monroe	86	5	1.6	Manual J	Manual J
Ohio	Montgomery	88	7	1.7	ASHRAE	Manual J
Ohio	Morgan	88	10	1.7	Manual J	Manual J
Ohio	Morrow	91	5	2.2	Manual J	Manual J
Ohio	Muskingum	88	10	1.7	Manual J	Manual J

Ohio	Noble	90	7	1.7	Manual J	Manual J
Ohio	Ottawa	83	11	1.9	ASHRAE	ASHRAE
Ohio	Paulding	91	4	2.1	Manual J	Manual J
Ohio	Perry	92	5	2.1	Manual J	Manual J
Ohio	Pickaway	91	12	1.3	ASHRAE	ASHRAE
Ohio	Pike	92	6	1.7	Manual J	Manual J
Ohio	Portage	86	7	2.1	ASHRAE	Manual J
Ohio	Preble	90	2	2	Manual J	Manual J
Ohio	Putnam	91	4	1.9	Manual J	Manual J
Ohio	Richland	86	6	2.2	Manual J	Manual J
Ohio	Ross	92	6	1.7	Manual J	Manual J
Ohio	Sandusky	88	1	2.1	Manual J	Manual J
Ohio	Scioto	92	10	1.5	Manual J	Manual J
Ohio	Seneca	88	1	2.1	Manual J	Manual J
Ohio	Shelby	91	4	1.9	Manual J	Manual J
Ohio	Stark	86	7	2.1	ASHRAE	Manual J
Ohio	Summit	86	7	2.1	ASHRAE	Manual J
Ohio	Trumbull	87	5	2.7	Manual J	Manual J
Ohio	Tuscarawas	88	10	1.9	ASHRAE	ASHRAE
Ohio	Union	91	5	2.2	Manual J	Manual J
Ohio	Van Wert	91	4	2.1	Manual J	Manual J
Ohio	Vinton	92	6	1.9	Manual J	Manual J
Ohio	Warren	88	10	1.5	ASHRAE	ASHRAE
Ohio	Washington	88	12	1.4	ASHRAE	Manual J
Ohio	Wayne	86	6	2.3	Manual J	Manual J
Ohio	Williams	86	7	2.3	ASHRAE	ASHRAE
Ohio	Wood	89	2	2.3	Manual J	Manual J
Ohio	Wyandot	91	5	2.2	Manual J	Manual J
Oklahoma						
Oklahoma	Adair	93	15	0.9	ASHRAE	Manual J
Oklahoma	Alfalfa	99	13	0.8	Manual J	Manual J
Oklahoma	Atoka	97	19	0.6	Manual J	Manual J
Oklahoma	Beaver	98	12	1.2	ASHRAE	ASHRAE
Oklahoma	Beckham	99	19	0.7	ASHRAE	Manual J
Oklahoma	Blaine	99	13	0.8	Manual J	Manual J
Oklahoma	Bryan	98	20	0.5	Manual J	Manual J
Oklahoma	Caddo	98	14	0.6	Manual J	Manual J
Oklahoma	Canadian	97	17	0.7	ASHRAE	Manual J
Oklahoma	Carter	99	17	0.5	ASHRAE	Manual J
Oklahoma	Cherokee	98	15	0.7	Manual J	Manual J
Oklahoma	Choctaw	97	25	0.5	Manual J	Manual J
Oklahoma	Cimarron	95	10	1.4	ASHRAE	ASHRAE
Oklahoma	Cleveland	99	13	0.7	ASHRAE	Manual J
Oklahoma	Coal	97	14	0.6	Manual J	Manual J
Oklahoma	Comanche	100	19	0.6	ASHRAE	Manual J
Oklahoma	Cotton	100	21	0.5	ASHRAE	Manual J
Oklahoma	Craig	97	16	0.8	Manual J	ASHRAE
Oklahoma	Creek	99	17	0.7	Manual J	Manual J
Oklahoma	Custer	99	19	0.7	ASHRAE	Manual J
Oklahoma	Delaware	93	16	0.9	ASHRAE	ASHRAE
Oklahoma	Dewey	97	10	0.8	Manual J	Manual J
Oklahoma	Ellis	98	13	0.9	Manual J	ASHRAE
Oklahoma	Garfield	99	13	0.8	Manual J	Manual J
Oklahoma	Garvin	99	13	0.7	ASHRAE	Manual J
Oklahoma	Grady	98	14	0.6	Manual J	Manual J
Oklahoma	Grant	99	13	0.8	Manual J	Manual J
Oklahoma	Greer	100	20	0.6	ASHRAE	Manual J

Oklahoma	Harmon	99	21	0.6	Manual J	ASHRAE
Oklahoma	Harper	97	10	0.8	Manual J	Manual J
Oklahoma	Haskell	98	15	0.7	Manual J	Manual J
Oklahoma	Hughes	96	15	0.7	Manual J	Manual J
Oklahoma	Jackson	100	20	0.6	ASHRAE	Manual J
Oklahoma	Jefferson	100	21	0.5	ASHRAE	Manual J
Oklahoma	Johnston	97	14	0.6	Manual J	Manual J
Oklahoma	Kay	98	15	0.8	Manual J	Manual J
Oklahoma	Kingfisher	99	13	0.8	Manual J	Manual J
Oklahoma	Kiowa	100	19	0.7	Manual J	ASHRAE
Oklahoma	Latimer	97	19	0.6	Manual J	Manual J
Oklahoma	Le Flore	97	20	0.6	ASHRAE	Manual J
Oklahoma	Lincoln	99	18	0.7	ASHRAE	Manual J
Oklahoma	Logan	99	19	0.6	ASHRAE	ASHRAE
Oklahoma	Love	99	17	0.5	ASHRAE	Manual J
Oklahoma	Major	99	13	0.8	Manual J	Manual J
Oklahoma	Marshall	98	20	0.5	Manual J	Manual J
Oklahoma	Mayes	98	17	0.7	Manual J	Manual J
Oklahoma	McClain	99	13	0.7	ASHRAE	Manual J
Oklahoma	McCurtain	96	25	0.5	ASHRAE	ASHRAE
Oklahoma	McIntosh	98	15	0.7	Manual J	Manual J
Oklahoma	Murray	99	17	0.5	ASHRAE	Manual J
Oklahoma	Muskogee	98	15	0.7	Manual J	Manual J
Oklahoma	Noble	99	18	0.7	ASHRAE	Manual J
Oklahoma	Nowata	97	16	0.8	Manual J	ASHRAE
Oklahoma	Okfuskee	96	15	0.7	Manual J	Manual J
Oklahoma	Oklahoma	97	17	0.7	ASHRAE	Manual J
Oklahoma	Okmulgee	99	17	0.7	Manual J	Manual J
Oklahoma	Osage	98	10	0.8	Manual J	Manual J
Oklahoma	Ottawa	94	12	0.9	Manual J	Manual J
Oklahoma	Pawnee	99	18	0.7	ASHRAE	Manual J
Oklahoma	Payne	99	18	0.7	ASHRAE	Manual J
Oklahoma	Pittsburg	97	19	0.6	Manual J	Manual J
Oklahoma	Pontotoc	97	14	0.6	Manual J	Manual J
Oklahoma	Pottawatomie	96	15	0.7	Manual J	Manual J
Oklahoma	Pushmataha	97	19	0.6	Manual J	Manual J
Oklahoma	Roger Mills	98	13	0.9	Manual J	ASHRAE
Oklahoma	Rogers	99	17	0.7	Manual J	Manual J
Oklahoma	Seminole	96	15	0.7	Manual J	Manual J
Oklahoma	Sequoyah	97	20	0.6	ASHRAE	Manual J
Oklahoma	Stephens	100	14	0.6	ASHRAE	Manual J
Oklahoma	Texas	99	11	0.9	ASHRAE	ASHRAE
Oklahoma	Tillman	100	23	0.5	ASHRAE	ASHRAE
Oklahoma	Tulsa	99	17	0.7	Manual J	Manual J
Oklahoma	Wagoner	98	15	0.7	Manual J	Manual J
Oklahoma	Washington	98	10	0.8	Manual J	Manual J
Oklahoma	Washita	99	19	0.7	ASHRAE	Manual J
Oklahoma	Woods	97	10	0.8	Manual J	Manual J
Oklahoma	Woodward	97	10	0.8	Manual J	Manual J
Oregon						
Oregon	Baker	90	7	4.2	Manual J	ASHRAE
Oregon	Benton	90	28	1.6	Manual J	ASHRAE
Oregon	Clackamas	88	24	1.6	ASHRAE	Manual J
Oregon	Clatsop	72	30	3.4	ASHRAE	Manual J
Oregon	Columbia	88	27	2.2	ASHRAE	ASHRAE
Oregon	Coos	69	34	3.1	Manual J	ASHRAE
Oregon	Crook	90	4	4.9	ASHRAE	Manual J

Oregon	Curry	96	27	1.4	Manual J - Micro	Manual J - Micro
Oregon	Deschutes	90	4	4.9	ASHRAE	Manual J
Oregon	Douglas	90	23	1.4	ASHRAE	Manual J
Oregon	Gilliam	93	23	1.5	ASHRAE	ASHRAE
Oregon	Grant	90	5	4.5	ASHRAE	ASHRAE
Oregon	Harney	90	5	4.5	ASHRAE	ASHRAE
Oregon	Hood River	89	19	1.5	Manual J	Manual J
Oregon	Jackson	96	26	1.4	ASHRAE	Manual J
Oregon	Jefferson	90	4	4.9	ASHRAE	Manual J
Oregon	Josephine	96	24	1.9	Manual J	Manual J
Oregon	Klamath	88	12	3.7	ASHRAE	ASHRAE
Oregon	Lake	88	9	4.9	ASHRAE	ASHRAE
Oregon	Lane	88	26	2.1	Manual J	Manual J
Oregon	Lincoln	63	34	6.2	Manual J	Manual J
Oregon	Linn	89	22	1.6	Manual J	Manual J
Oregon	Malheur	95	16	1.9	ASHRAE	ASHRAE
Oregon	Marion	88	26	2	ASHRAE	Manual J
Oregon	Morrow	95	11	1.4	ASHRAE	Manual J
Oregon	Multnomah	88	24	1.6	ASHRAE	Manual J
Oregon	Polk	89	22	1.6	Manual J	Manual J
Oregon	Sherman	89	19	1.5	Manual J	Manual J
Oregon	Tillamook	90	28	2.1	Manual J	ASHRAE
Oregon	Umatilla	95	2	10.3	ASHRAE	Manual J
Oregon	Union	90	15	3.2	ASHRAE	ASHRAE
Oregon	Wallowa	95	18	1.7	ASHRAE	Manual J
Oregon	Wasco	89	19	1.5	Manual J	Manual J
Oregon	Washington	88	27	2.1	ASHRAE	ASHRAE
Oregon	Wheeler	90	19	1.5	ASHRAE	Manual J
Oregon	Yamhill	90	28	2.1	Manual J	ASHRAE

Pennsylvania

Pennsylvania	Adams	90	12	1.7	Manual J	ASHRAE
Pennsylvania	Allegheny	88	9	1.8	ASHRAE	Manual J
Pennsylvania	Armstrong	86	9	2	ASHRAE	ASHRAE
Pennsylvania	Beaver	88	9	1.8	Manual J	Manual J
Pennsylvania	Bedford	86	10	2.1	Manual J	Manual J
Pennsylvania	Berks	90	13	1.6	Manual J	Manual J
Pennsylvania	Blair	86	10	2.1	Manual J	Manual J
Pennsylvania	Bradford	87	3	2.8	Manual J	Manual J
Pennsylvania	Bucks	89	16	1.5	ASHRAE	ASHRAE
Pennsylvania	Butler	85	9	2.3	ASHRAE	ASHRAE
Pennsylvania	Cambria	82	7	2.6	Manual J	ASHRAE
Pennsylvania	Cameron	84	9	2.6	ASHRAE	ASHRAE
Pennsylvania	Carbon	88	12	1.8	ASHRAE	Manual J
Pennsylvania	Centre	87	7	2.4	Manual J	Manual J
Pennsylvania	Chester	89	13	1.7	Manual J	Manual J
Pennsylvania	Clarion	82	6	2.8	ASHRAE	Manual J
Pennsylvania	Clearfield	84	9	2.6	ASHRAE	ASHRAE
Pennsylvania	Clinton	87	7	2.4	Manual J	Manual J
Pennsylvania	Columbia	89	7	2	Manual J	Manual J
Pennsylvania	Crawford	85	4	2.9	Manual J	Manual J
Pennsylvania	Cumberland	90	8	1.8	Manual J	Manual J
Pennsylvania	Dauphin	90	15	1.4	Manual J	Manual J
Pennsylvania	Delaware	91	18	1.1	ASHRAE	ASHRAE
Pennsylvania	Elk	83	5	2.8	Manual J	Manual J
Pennsylvania	Erie	84	10	2.2	ASHRAE	Manual J
Pennsylvania	Fayette	88	9	2	Manual J	Manual J

Pennsylvania	Forest	86	4	2.8	Manual J	Manual J
Pennsylvania	Franklin	90	8	1.8	Manual J	Manual J
Pennsylvania	Fulton	86	10	2.1	Manual J	Manual J
Pennsylvania	Greene	86	9	2.2	ASHRAE	ASHRAE
Pennsylvania	Huntingdon	86	10	2.1	Manual J	Manual J
Pennsylvania	Indiana	86	9	2	ASHRAE	ASHRAE
Pennsylvania	Jefferson	83	5	2.8	Manual J	Manual J
Pennsylvania	Juniata	87	7	2.4	Manual J	Manual J
Pennsylvania	Lackawanna	86	8	2.2	Manual J	Manual J
Pennsylvania	Lancaster	90	8	1.7	Manual J	Manual J
Pennsylvania	Lawrence	88	7	2.3	Manual J	Manual J
Pennsylvania	Lebanon	90	15	1.4	Manual J	Manual J
Pennsylvania	Lehigh	88	12	1.8	ASHRAE	Manual J
Pennsylvania	Luzerne	86	8	2.2	ASHRAE	Manual J
Pennsylvania	Lycoming	88	9	2	ASHRAE	Manual J
Pennsylvania	McKean	81	2	4.1	ASHRAE	Manual J
Pennsylvania	Mercer	88	7	2.3	Manual J	Manual J
Pennsylvania	Mifflin	87	7	2.4	Manual J	Manual J
Pennsylvania	Monroe	82	5	3.2	ASHRAE	ASHRAE
Pennsylvania	Montgomery	90	14	1.4	ASHRAE	Manual J
Pennsylvania	Montour	89	7	2	Manual J	Manual J
Pennsylvania	Northampton	89	6	1.8	Manual J	Manual J
Pennsylvania	Northumberland	89	7	2	Manual J	Manual J
Pennsylvania	Perry	90	15	1.4	Manual J	Manual J
Pennsylvania	Philadelphia	91	16	1.3	Manual J	Manual J
Pennsylvania	Pike	82	5	3.2	ASHRAE	ASHRAE
Pennsylvania	Potter	81	3	3.4	ASHRAE	ASHRAE
Pennsylvania	Schuylkill	90	13	1.6	Manual J	Manual J
Pennsylvania	Snyder	89	7	2	Manual J	Manual J
Pennsylvania	Somerset	82	7	2.6	Manual J	ASHRAE
Pennsylvania	Sullivan	88	9	2	ASHRAE	Manual J
Pennsylvania	Susquehanna	83	4	3.1	Manual J	Manual J
Pennsylvania	Tioga	87	3	2.8	Manual J	Manual J
Pennsylvania	Union	89	7	2	Manual J	Manual J
Pennsylvania	Venango	82	6	2.8	ASHRAE	Manual J
Pennsylvania	Warren	86	4	2.8	Manual J	Manual J
Pennsylvania	Washington	86	9	2.2	ASHRAE	ASHRAE
Pennsylvania	Wayne	86	8	2.2	Manual J	Manual J
Pennsylvania	Westmoreland	88	9	2	ASHRAE	Manual J
Pennsylvania	Wyoming	86	8	2.2	ASHRAE	Manual J
Pennsylvania	York	91	12	1.7	Manual J	ASHRAE
Puerto Rico						
Puerto Rico	N/A	90	68	0	ASHRAE	ASHRAE
Rhode Island						
Rhode Island	Bristol	87	9	1.9	Manual J	Manual J
Rhode Island	Kent	87	12	1.9	Manual J	Manual J
Rhode Island	Newport	85	9	2.2	Manual J	Manual J
Rhode Island	Providence	84	9	2.6	ASHRAE	Manual J
Rhode Island	Washington	80	16	2.1	ASHRAE	Manual J
South Carolina						
South Carolina	Abbeville	93	22	0.7	Manual J	Manual J
South Carolina	Aiken	95	26	0.4	Manual J	Manual J
South Carolina	Allendale	95	24	0.5	Manual J	Manual J
South Carolina	Anderson	93	26	0.6	Manual J	ASHRAE
South Carolina	Bamberg	95	24	0.5	Manual J	Manual J
South Carolina	Barnwell	95	26	0.4	Manual J	Manual J

South Carolina	Beaufort	93	31	0.3	Manual J	Manual J
South Carolina	Berkeley	92	28	0.3	ASHRAE	Manual J
South Carolina	Calhoun	95	24	0.5	Manual J	Manual J
South Carolina	Charleston	92	28	0.3	ASHRAE	Manual J
South Carolina	Cherokee	92	25	0.6	ASHRAE	ASHRAE
South Carolina	Chester	94	23	0.6	Manual J	Manual J
South Carolina	Chesterfield	92	21	0.8	Manual J	Manual J
South Carolina	Clarendon	93	27	0.4	ASHRAE	ASHRAE
South Carolina	Colleton	93	31	0.3	Manual J	Manual J
South Carolina	Darlington	93	27	0.4	ASHRAE	Manual J
South Carolina	Dillon	93	25	0.5	ASHRAE	ASHRAE
South Carolina	Dorchester	92	28	0.3	ASHRAE	Manual J
South Carolina	Edgefield	95	26	0.4	Manual J	Manual J
South Carolina	Fairfield	93	28	0.4	ASHRAE	ASHRAE
South Carolina	Florence	93	27	0.4	ASHRAE	Manual J
South Carolina	Georgetown	90	26	0.4	Manual J	Manual J
South Carolina	Greenville	92	22	0.6	ASHRAE	Manual J
South Carolina	Greenwood	93	22	0.7	Manual J	Manual J
South Carolina	Hampton	93	31	0.3	Manual J	Manual J
South Carolina	Horry	90	28	0.4	ASHRAE	Manual J
South Carolina	Jasper	93	31	0.3	Manual J	Manual J
South Carolina	Kershaw	93	27	0.4	ASHRAE	ASHRAE
South Carolina	Lancaster	91	25	0.6	ASHRAE	ASHRAE
South Carolina	Laurens	93	22	0.7	Manual J	Manual J
South Carolina	Lee	93	27	0.4	ASHRAE	ASHRAE
South Carolina	Lexington	95	26	0.5	Manual J	Manual J
South Carolina	Marion	93	27	0.4	ASHRAE	Manual J
South Carolina	Marlboro	92	21	0.8	Manual J	Manual J
South Carolina	McCormick	93	22	0.7	Manual J	Manual J
South Carolina	Newberry	93	22	0.7	Manual J	Manual J
South Carolina	Oconee	91	28	0.5	ASHRAE	ASHRAE
South Carolina	Orangeburg	95	24	0.5	Manual J	Manual J
South Carolina	Pickens	91	28	0.5	ASHRAE	ASHRAE
South Carolina	Richland	93	28	0.4	ASHRAE	ASHRAE
South Carolina	Saluda	93	22	0.7	Manual J	Manual J
South Carolina	Spartanburg	92	22	0.6	ASHRAE	Manual J
South Carolina	Sumter	93	27	0.4	ASHRAE	ASHRAE
South Carolina	Union	94	22	0.6	Manual J	Manual J
South Carolina	Williamsburg	90	26	0.4	Manual J	Manual J
South Carolina	York	94	23	0.6	Manual J	Manual J

South Dakota

South Dakota	Aurora	90	-6	2.5	ASHRAE	ASHRAE
South Dakota	Beadle	91	-10	2.7	Manual J	Manual J
South Dakota	Bennett	95	-2	2.6	ASHRAE	ASHRAE
South Dakota	Bon Homme	90	-3	2.3	Manual J	ASHRAE
South Dakota	Brookings	86	-10	3.6	Manual J	Manual J
South Dakota	Brown	89	-12	3.3	Manual J	ASHRAE
South Dakota	Brule	97	-5	2.4	ASHRAE	Manual J
South Dakota	Buffalo	97	-5	2.4	ASHRAE	Manual J
South Dakota	Butte	92	-9	3.2	Manual J	Manual J
South Dakota	Campbell	91	-10	2.9	Manual J	Manual J
South Dakota	Charles Mix	91	-2	2.3	Manual J	Manual J
South Dakota	Clark	87	-12	3.6	Manual J	Manual J
South Dakota	Clay	90	-3	2.3	Manual J	ASHRAE
South Dakota	Codington	87	-12	3.6	Manual J	Manual J
South Dakota	Corson	91	-10	2.9	Manual J	Manual J
South Dakota	Custer	84	-2	5.6	Manual J	Manual J

South Dakota	Davison	90	-6	2.5	ASHRAE	ASHRAE
South Dakota	Day	87	-12	3.6	Manual J	Manual J
South Dakota	Deuel	86	-10	3.6	Manual J	Manual J
South Dakota	Dewey	91	-10	2.9	Manual J	Manual J
South Dakota	Douglas	90	-6	2.5	ASHRAE	ASHRAE
South Dakota	Edmunds	89	-12	3.3	Manual J	ASHRAE
South Dakota	Fall River	84	-2	5.6	Manual J	Manual J
South Dakota	Faulk	89	-12	3.3	Manual J	ASHRAE
South Dakota	Grant	88	-8	2.8	ASHRAE	ASHRAE
South Dakota	Gregory	97	-5	2.4	ASHRAE	Manual J
South Dakota	Haakon	97	-3	2.3	ASHRAE	ASHRAE
South Dakota	Hamlin	87	-12	3.6	Manual J	Manual J
South Dakota	Hand	91	-10	2.7	Manual J	Manual J
South Dakota	Hanson	90	-6	2.5	ASHRAE	ASHRAE
South Dakota	Harding	92	-9	3.2	Manual J	Manual J
South Dakota	Hughes	95	-6	2.3	Manual J	Manual J
South Dakota	Hutchinson	90	-6	2.5	ASHRAE	ASHRAE
South Dakota	Hyde	97	-5	2.4	ASHRAE	Manual J
South Dakota	Jackson	97	-3	2.3	ASHRAE	ASHRAE
South Dakota	Jerauld	91	-10	2.7	Manual J	Manual J
South Dakota	Jones	95	-6	2.3	Manual J	Manual J
South Dakota	Kingsbury	87	-12	3.6	Manual J	Manual J
South Dakota	Lake	86	-10	3.6	Manual J	Manual J
South Dakota	Lawrence	84	-2	5.6	Manual J	Manual J
South Dakota	Lincoln	89	-8	2.7	Manual J	Manual J
South Dakota	Lyman	93	0	2	ASHRAE	ASHRAE
South Dakota	Marshall	89	-14	3.6	Manual J	Manual J
South Dakota	McCook	89	-8	2.7	Manual J	Manual J
South Dakota	McPherson	89	-12	3.3	Manual J	ASHRAE
South Dakota	Meade	92	-4	2.7	Manual J	Manual J
South Dakota	Mellette	94	-6	2.5	Manual J	Manual J
South Dakota	Miner	90	-6	2.5	ASHRAE	ASHRAE
South Dakota	Minnehaha	89	-8	2.7	Manual J	Manual J
South Dakota	Moody	86	-10	3.6	Manual J	Manual J
South Dakota	Pennington	93	-5	2.7	Manual J	Manual J
South Dakota	Perkins	97	-13	2.7	ASHRAE	ASHRAE
South Dakota	Potter	91	-10	2.9	Manual J	Manual J
South Dakota	Roberts	88	-9	3.3	ASHRAE	ASHRAE
South Dakota	Sanborn	90	-6	2.5	ASHRAE	ASHRAE
South Dakota	Shannon	95	-2	2.6	ASHRAE	ASHRAE
South Dakota	Spink	89	-12	3.3	Manual J	ASHRAE
South Dakota	Stanley	95	-6	2.3	Manual J	Manual J
South Dakota	Sully	95	-6	2.3	Manual J	Manual J
South Dakota	Todd	94	-6	2.5	Manual J	Manual J
South Dakota	Tripp	93	0	2	ASHRAE	ASHRAE
South Dakota	Turner	90	-3	2.3	Manual J	ASHRAE
South Dakota	Union	90	-2	2.1	ASHRAE	ASHRAE
South Dakota	Walworth	91	-10	2.9	Manual J	Manual J
South Dakota	Yankton	90	-3	2.3	Manual J	ASHRAE
South Dakota	Ziebach	97	-3	2.3	ASHRAE	ASHRAE
Tennessee						
Tennessee	Anderson	90	21	0.8	ASHRAE	ASHRAE
Tennessee	Bedford	93	13	0.9	Manual J	Manual J
Tennessee	Benton	93	15	1	Manual J	Manual J
Tennessee	Bledsoe	86	15	1.2	ASHRAE	Manual J
Tennessee	Blount	91	20	0.8	ASHRAE	Manual J
Tennessee	Bradley	93	22	0.7	ASHRAE	Manual J

Tennessee	Campbell	90	21	0.8	ASHRAE	ASHRAE
Tennessee	Cannon	94	14	1	Manual J	Manual J
Tennessee	Carroll	93	19	0.7	Manual J	Manual J
Tennessee	Carter	88	17	1.1	ASHRAE	Manual J
Tennessee	Cheatham	93	12	1	Manual J	Manual J
Tennessee	Chester	93	19	0.7	Manual J	Manual J
Tennessee	Claiborne	92	9	1.2	Manual J	Manual J
Tennessee	Clay	86	15	1.2	ASHRAE	Manual J
Tennessee	Cocke	90	16	1.5	Manual J	Manual J
Tennessee	Coffee	93	13	0.9	Manual J	Manual J
Tennessee	Crockett	93	19	0.7	Manual J	Manual J
Tennessee	Cumberland	86	15	1.2	ASHRAE	Manual J
Tennessee	Davidson	92	18	0.7	ASHRAE	Manual J
Tennessee	Decatur	93	19	0.7	Manual J	Manual J
Tennessee	DeKalb	94	14	1	Manual J	Manual J
Tennessee	Dickson	93	12	1	Manual J	Manual J
Tennessee	Dyer	93	19	0.7	ASHRAE	Manual J
Tennessee	Fayette	95	20	0.6	ASHRAE	Manual J
Tennessee	Fentress	86	15	1.2	ASHRAE	Manual J
Tennessee	Franklin	93	13	0.9	Manual J	Manual J
Tennessee	Gibson	93	19	0.7	Manual J	Manual J
Tennessee	Giles	94	15	1	Manual J	Manual J
Tennessee	Grainger	91	20	0.8	ASHRAE	Manual J
Tennessee	Greene	90	16	1.5	Manual J	Manual J
Tennessee	Grundy	93	13	0.9	Manual J	Manual J
Tennessee	Hamblen	90	16	1.5	Manual J	Manual J
Tennessee	Hamilton	93	22	0.7	ASHRAE	Manual J
Tennessee	Hancock	90	16	1.5	Manual J	Manual J
Tennessee	Hardeman	93	19	0.7	Manual J	Manual J
Tennessee	Hardin	94	21	0.6	Manual J	Manual J
Tennessee	Hawkins	90	16	1.5	Manual J	Manual J
Tennessee	Haywood	93	19	0.7	Manual J	Manual J
Tennessee	Henderson	93	19	0.7	Manual J	Manual J
Tennessee	Henry	92	15	0.9	ASHRAE	Manual J
Tennessee	Hickman	94	15	1	Manual J	Manual J
Tennessee	Houston	93	12	1	Manual J	Manual J
Tennessee	Humphreys	93	12	1	Manual J	Manual J
Tennessee	Jackson	86	15	1.2	ASHRAE	Manual J
Tennessee	Jefferson	91	20	0.8	ASHRAE	Manual J
Tennessee	Johnson	88	18	1.1	ASHRAE	ASHRAE
Tennessee	Knox	91	20	0.8	ASHRAE	Manual J
Tennessee	Lake	93	19	0.7	ASHRAE	Manual J
Tennessee	Lauderdale	93	19	0.7	ASHRAE	Manual J
Tennessee	Lawrence	94	21	0.6	Manual J	Manual J
Tennessee	Lewis	94	15	1	Manual J	Manual J
Tennessee	Lincoln	93	13	0.9	Manual J	Manual J
Tennessee	Loudon	90	21	0.8	ASHRAE	ASHRAE
Tennessee	Macon	91	15	1	ASHRAE	Manual J
Tennessee	Madison	93	19	0.7	Manual J	Manual J
Tennessee	Marion	93	22	0.7	ASHRAE	Manual J
Tennessee	Marshall	94	15	1	Manual J	Manual J
Tennessee	Maurry	94	15	1	Manual J	Manual J
Tennessee	McMinn	92	18	1	Manual J	Manual J
Tennessee	McNairy	93	19	0.7	Manual J	Manual J
Tennessee	Meigs	92	18	1	Manual J	Manual J
Tennessee	Monroe	92	18	1	Manual J	Manual J
Tennessee	Montgomery	93	12	1	Manual J	Manual J

Tennessee	Moore	93	13	0.9	Manual J	Manual J
Tennessee	Morgan	90	21	0.8	ASHRAE	ASHRAE
Tennessee	Obion	93	19	0.7	ASHRAE	Manual J
Tennessee	Overton	86	15	1.2	ASHRAE	Manual J
Tennessee	Perry	94	15	1	Manual J	Manual J
Tennessee	Pickett	86	15	1.2	ASHRAE	Manual J
Tennessee	Polk	92	18	1	Manual J	Manual J
Tennessee	Putnam	86	15	1.2	ASHRAE	Manual J
Tennessee	Rhea	86	15	1.2	ASHRAE	Manual J
Tennessee	Roane	90	21	0.8	ASHRAE	ASHRAE
Tennessee	Robertson	92	18	0.7	ASHRAE	Manual J
Tennessee	Rutherford	94	14	1	Manual J	Manual J
Tennessee	Scott	90	21	0.8	ASHRAE	ASHRAE
Tennessee	Sequatchie	93	22	0.7	ASHRAE	Manual J
Tennessee	Sevier	91	20	0.8	ASHRAE	Manual J
Tennessee	Shelby	95	20	0.6	ASHRAE	Manual J
Tennessee	Smith	94	14	1	Manual J	Manual J
Tennessee	Stewart	93	15	1	Manual J	Manual J
Tennessee	Sullivan	88	17	1.1	ASHRAE	Manual J
Tennessee	Sumner	92	18	0.7	ASHRAE	Manual J
Tennessee	Tipton	95	20	0.6	ASHRAE	Manual J
Tennessee	Trousdale	94	18	0.7	Manual J	Manual J
Tennessee	Unicoi	88	17	1.1	ASHRAE	Manual J
Tennessee	Union	90	21	0.8	ASHRAE	ASHRAE
Tennessee	Van Buren	86	15	1.2	ASHRAE	Manual J
Tennessee	Warren	93	13	0.9	Manual J	Manual J
Tennessee	Washington	88	17	1.1	ASHRAE	Manual J
Tennessee	Wayne	94	21	0.6	Manual J	Manual J
Tennessee	Weakley	93	19	0.7	Manual J	Manual J
Tennessee	White	86	15	1.2	ASHRAE	Manual J
Tennessee	Williamson	92	15	1	ASHRAE	Manual J
Tennessee	Wilson	94	14	1	Manual J	Manual J
Texas						
Texas	Anderson	98	27	0.3	Manual J	Manual J
Texas	Andrews	99	27	0.4	ASHRAE	ASHRAE
Texas	Angelina	96	29	0.3	ASHRAE	Manual J
Texas	Aransas	91	39	0.1	ASHRAE	ASHRAE
Texas	Archer	100	21	0.5	ASHRAE	Manual J
Texas	Armstrong	95	14	1	Manual J	Manual J
Texas	Atascosa	99	31	0.2	Manual J	Manual J
Texas	Austin	93	36	0.2	ASHRAE	ASHRAE
Texas	Bailey	95	17	0.9	Manual J	Manual J
Texas	Bandera	98	30	0.2	ASHRAE	Manual J
Texas	Bastrop	98	30	0.2	ASHRAE	ASHRAE
Texas	Baylor	100	17	0.6	Manual J	Manual J
Texas	Bee	98	34	0.1	ASHRAE	ASHRAE
Texas	Bell	99	28	0.3	ASHRAE	Manual J
Texas	Bexar	99	31	0.2	Manual J	Manual J
Texas	Blanco	97	30	0.3	Manual J	ASHRAE
Texas	Borden	96	17	0.7	Manual J	Manual J
Texas	Bosque	99	28	0.3	Manual J	Manual J
Texas	Bowie	96	26	0.4	ASHRAE	Manual J
Texas	Brazoria	93	36	0.2	ASHRAE	ASHRAE
Texas	Brazos	97	29	0.2	ASHRAE	Manual J
Texas	Brewster	92	28	0.3	Manual J	ASHRAE
Texas	Briscoe	96	13	0.9	Manual J	Manual J
Texas	Brooks	97	37	0.1	ASHRAE	Manual J

Texas	Brown	99	22	0.4	Manual J	Manual J
Texas	Burleson	97	29	0.2	ASHRAE	Manual J
Texas	Burnet	97	30	0.3	Manual J	ASHRAE
Texas	Caldwell	98	30	0.2	ASHRAE	ASHRAE
Texas	Calhoun	95	34	0.2	ASHRAE	Manual J
Texas	Callahan	99	22	0.4	ASHRAE	Manual J
Texas	Cameron	97	41	0.1	ASHRAE	ASHRAE
Texas	Camp	97	27	0.3	Manual J	Manual J
Texas	Carson	99	19	0.7	ASHRAE	ASHRAE
Texas	Cass	96	26	0.4	ASHRAE	Manual J
Texas	Castro	96	13	0.9	Manual J	Manual J
Texas	Chambers	91	37	0.1	Manual J	Manual J
Texas	Cherokee	98	27	0.3	Manual J	Manual J
Texas	Childress	99	21	0.6	Manual J	ASHRAE
Texas	Clay	100	21	0.5	ASHRAE	Manual J
Texas	Cochran	98	18	0.7	ASHRAE	Manual J
Texas	Coke	99	25	0.4	ASHRAE	Manual J
Texas	Coleman	99	22	0.4	Manual J	Manual J
Texas	Collin	99	27	0.4	ASHRAE	ASHRAE
Texas	Collingsworth	99	21	0.6	Manual J	ASHRAE
Texas	Colorado	97	32	0.2	ASHRAE	ASHRAE
Texas	Comal	99	32	0.2	ASHRAE	ASHRAE
Texas	Comanche	95	24	0.5	ASHRAE	Manual J
Texas	Concho	99	25	0.4	ASHRAE	Manual J
Texas	Cooke	100	22	0.5	ASHRAE	Manual J
Texas	Coryell	99	28	0.3	ASHRAE	Manual J
Texas	Cottle	99	21	0.6	Manual J	ASHRAE
Texas	Crane	99	27	0.4	ASHRAE	ASHRAE
Texas	Crockett	99	25	0.4	ASHRAE	Manual J
Texas	Crosby	96	13	0.9	Manual J	Manual J
Texas	Culberson	91	19	0.7	ASHRAE	Manual J
Texas	Dallam	95	13	1.2	ASHRAE	ASHRAE
Texas	Dallas	99	26	0.4	ASHRAE	Manual J
Texas	Dawson	96	17	0.7	Manual J	Manual J
Texas	Deaf Smith	95	17	0.9	Manual J	Manual J
Texas	Delta	97	25	0.5	Manual J	Manual J
Texas	Denton	100	22	0.5	ASHRAE	Manual J
Texas	DeWitt	95	34	0.2	ASHRAE	Manual J
Texas	Dickens	98	18	0.6	Manual J	Manual J
Texas	Dimmit	101	35	0.1	Manual J	Manual J
Texas	Donley	96	12	1.1	Manual J	Manual J
Texas	Duval	99	38	0.1	Manual J	ASHRAE
Texas	Eastland	99	22	0.4	Manual J	Manual J
Texas	Ector	99	27	0.4	ASHRAE	ASHRAE
Texas	Edwards	98	25	0.3	Manual J	Manual J
Texas	El Paso	99	26	0.4	ASHRAE	Manual J
Texas	Ellis	99	25	0.4	ASHRAE	Manual J
Texas	Erath	95	24	0.5	ASHRAE	Manual J
Texas	Falls	99	28	0.3	Manual J	Manual J
Texas	Fannin	99	22	0.5	Manual J	Manual J
Texas	Fayette	97	32	0.2	ASHRAE	ASHRAE
Texas	Fisher	98	18	0.6	Manual J	Manual J
Texas	Floyd	96	13	0.9	Manual J	Manual J
Texas	Foard	100	17	0.6	Manual J	Manual J
Texas	Fort Bend	93	36	0.2	ASHRAE	ASHRAE
Texas	Franklin	97	25	0.5	Manual J	Manual J
Texas	Freestone	98	25	0.4	Manual J	Manual J

Texas	Frio	101	35	0.1	Manual J	Manual J
Texas	Gaines	99	18	0.6	Manual J	Manual J
Texas	Galveston	91	37	0.1	Manual J	Manual J
Texas	Garza	98	18	0.6	Manual J	Manual J
Texas	Gillespie	97	30	0.3	Manual J	ASHRAE
Texas	Glasscock	97	20	0.5	Manual J	Manual J
Texas	Goliad	98	34	0.1	ASHRAE	ASHRAE
Texas	Gonzales	98	30	0.2	ASHRAE	ASHRAE
Texas	Gray	96	12	1.1	Manual J	Manual J
Texas	Grayson	98	20	0.5	Manual J	Manual J
Texas	Gregg	97	27	0.3	Manual J	Manual J
Texas	Grimes	97	27	0.3	ASHRAE	Manual J
Texas	Guadalupe	99	32	0.2	ASHRAE	ASHRAE
Texas	Hale	96	13	0.9	Manual J	Manual J
Texas	Hall	99	21	0.6	Manual J	ASHRAE
Texas	Hamilton	95	24	0.5	ASHRAE	Manual J
Texas	Hansford	99	19	0.7	ASHRAE	ASHRAE
Texas	Hardeman	100	17	0.6	Manual J	Manual J
Texas	Hardin	93	32	0.2	Manual J	Manual J
Texas	Harris	95	33	0.2	ASHRAE	Manual J
Texas	Harrison	97	27	0.3	Manual J	Manual J
Texas	Hartley	95	13	1.2	ASHRAE	ASHRAE
Texas	Haskell	99	22	0.4	ASHRAE	Manual J
Texas	Hays	98	30	0.2	ASHRAE	ASHRAE
Texas	Hemphill	98	13	0.9	Manual J	ASHRAE
Texas	Henderson	97	24	0.3	Manual J	Manual J
Texas	Hidalgo	99	41	0.1	ASHRAE	Manual J
Texas	Hill	99	28	0.3	Manual J	Manual J
Texas	Hockley	98	18	0.7	ASHRAE	Manual J
Texas	Hood	95	24	0.5	ASHRAE	Manual J
Texas	Hopkins	97	25	0.5	Manual J	Manual J
Texas	Houston	98	27	0.3	Manual J	Manual J
Texas	Howard	97	20	0.5	Manual J	Manual J
Texas	Hudspeth	91	19	0.7	ASHRAE	Manual J
Texas	Hunt	99	22	0.5	Manual J	Manual J
Texas	Hutchinson	99	19	0.7	ASHRAE	ASHRAE
Texas	Irion	99	25	0.4	ASHRAE	Manual J
Texas	Jack	99	22	0.3	Manual J	Manual J
Texas	Jackson	95	34	0.2	ASHRAE	Manual J
Texas	Jasper	87	36	0.2	Manual J	Manual J
Texas	Jeff Davis	92	19	0.9	Manual J	ASHRAE
Texas	Jefferson	93	32	0.2	Manual J	Manual J
Texas	Jim Hogg	101	38	0.1	Manual J	Manual J
Texas	Jim Wells	99	38	0.1	Manual J	ASHRAE
Texas	Johnson	99	22	0.4	ASHRAE	Manual J
Texas	Jones	99	22	0.4	ASHRAE	Manual J
Texas	Kames	98	34	0.1	ASHRAE	ASHRAE
Texas	Kaufman	99	28	0.3	ASHRAE	ASHRAE
Texas	Kendall	99	31	0.2	Manual J	Manual J
Texas	Kenedy	97	37	0.1	ASHRAE	Manual J
Texas	Kent	98	18	0.6	Manual J	Manual J
Texas	Kerr	98	25	0.3	Manual J	Manual J
Texas	Kimble	98	25	0.3	Manual J	Manual J
Texas	King	99	21	0.6	Manual J	ASHRAE
Texas	Kinney	102	34	0.2	Manual J	Manual J
Texas	Kleberg	97	37	0.1	ASHRAE	Manual J
Texas	Knox	100	17	0.6	Manual J	Manual J

Texas	La Salle	101	35	0.1	Manual J	Manual J
Texas	Lamar	97	25	0.5	Manual J	Manual J
Texas	Lamb	98	18	0.7	ASHRAE	Manual J
Texas	Lampasas	99	28	0.3	ASHRAE	Manual J
Texas	Lavaca	95	32	0.2	ASHRAE	ASHRAE
Texas	Lee	97	32	0.2	ASHRAE	ASHRAE
Texas	Leon	98	27	0.3	Manual J	Manual J
Texas	Liberty	95	33	0.2	ASHRAE	Manual J
Texas	Limestone	98	25	0.4	Manual J	Manual J
Texas	Lipscomb	98	13	0.9	Manual J	ASHRAE
Texas	Live Oak	98	34	0.1	ASHRAE	ASHRAE
Texas	Llano	97	30	0.3	Manual J	ASHRAE
Texas	Loving	102	24	0.4	Manual J	ASHRAE
Texas	Lubbock	98	18	0.7	ASHRAE	Manual J
Texas	Lynn	96	17	0.7	Manual J	Manual J
Texas	Madison	98	27	0.3	Manual J	Manual J
Texas	Marion	97	27	0.3	Manual J	Manual J
Texas	Martin	96	17	0.7	Manual J	Manual J
Texas	Mason	98	25	0.3	Manual J	Manual J
Texas	Matagorda	94	33	0.1	Manual J	Manual J
Texas	Maverick	99	32	0.2	Manual J	Manual J
Texas	McCulloch	99	22	0.4	Manual J	Manual J
Texas	McLennan	99	28	0.3	Manual J	Manual J
Texas	McMullen	101	35	0.1	Manual J	Manual J
Texas	Medina	98	30	0.2	ASHRAE	Manual J
Texas	Menard	98	25	0.3	Manual J	Manual J
Texas	Midland	98	23	0.5	ASHRAE	Manual J
Texas	Milam	97	29	0.2	ASHRAE	Manual J
Texas	Mills	99	22	0.4	Manual J	Manual J
Texas	Mitchell	98	18	0.6	Manual J	Manual J
Texas	Montague	100	22	0.5	ASHRAE	Manual J
Texas	Montgomery	95	30	0.3	ASHRAE	ASHRAE
Texas	Moore	99	19	0.7	ASHRAE	ASHRAE
Texas	Morris	97	27	0.3	Manual J	Manual J
Texas	Motley	99	21	0.6	Manual J	ASHRAE
Texas	Nacogdoches	95	28	0.3	ASHRAE	ASHRAE
Texas	Navarro	98	25	0.4	Manual J	Manual J
Texas	Newton	87	36	0.2	Manual J	Manual J
Texas	Nolan	99	22	0.4	ASHRAE	Manual J
Texas	Nueces	95	37	0.1	ASHRAE	Manual J
Texas	Ochiltree	96	12	1.1	Manual J	Manual J
Texas	Oldham	95	13	1.2	ASHRAE	ASHRAE
Texas	Orange	93	32	0.2	Manual J	Manual J
Texas	Palo Pinto	99	22	0.3	Manual J	Manual J
Texas	Panola	97	27	0.3	Manual J	Manual J
Texas	Parker	99	25	0.4	ASHRAE	ASHRAE
Texas	Parmer	95	17	0.9	Manual J	Manual J
Texas	Pecos	99	30	0.3	ASHRAE	ASHRAE
Texas	Polk	96	29	0.3	ASHRAE	Manual J
Texas	Potter	95	14	1	Manual J	Manual J
Texas	Presidio	92	19	0.9	Manual J	ASHRAE
Texas	Rains	99	22	0.5	Manual J	Manual J
Texas	Randall	95	14	1	Manual J	Manual J
Texas	Reagan	97	20	0.5	Manual J	Manual J
Texas	Real	98	25	0.3	Manual J	Manual J
Texas	Red River	97	25	0.5	Manual J	Manual J
Texas	Reeves	102	24	0.4	Manual J	ASHRAE

Texas	Refugio	91	39	0.1	ASHRAE	ASHRAE
Texas	Roberts	96	12	1.1	Manual J	Manual J
Texas	Robertson	97	29	0.2	ASHRAE	Manual J
Texas	Rockwall	99	28	0.3	ASHRAE	ASHRAE
Texas	Runnels	102	24	0.4	Manual J	Manual J
Texas	Rusk	97	27	0.3	Manual J	Manual J
Texas	Sabine	94	30	0.3	Manual J	Manual J
Texas	San Augustine	95	28	0.3	ASHRAE	ASHRAE
Texas	San Jacinto	95	30	0.3	ASHRAE	ASHRAE
Texas	San Patricio	95	37	0.1	ASHRAE	Manual J
Texas	San Saba	99	22	0.4	Manual J	Manual J
Texas	Schleicher	99	25	0.4	ASHRAE	Manual J
Texas	Scurry	98	18	0.6	Manual J	Manual J
Texas	Shackelford	99	22	0.4	ASHRAE	Manual J
Texas	Shelby	95	28	0.3	ASHRAE	ASHRAE
Texas	Sherman	95	13	1.2	ASHRAE	ASHRAE
Texas	Smith	97	24	0.3	Manual J	Manual J
Texas	Somervell	95	24	0.5	ASHRAE	Manual J
Texas	Starr	99	41	0.1	ASHRAE	Manual J
Texas	Stephens	99	22	0.3	Manual J	Manual J
Texas	Sterling	97	20	0.5	Manual J	Manual J
Texas	Stonewall	98	18	0.6	Manual J	Manual J
Texas	Sutton	98	25	0.3	Manual J	Manual J
Texas	Swisher	96	13	0.9	Manual J	Manual J
Texas	Tarrant	100	22	0.4	ASHRAE	Manual J
Texas	Taylor	99	22	0.4	ASHRAE	Manual J
Texas	Terrell	99	28	0.3	ASHRAE	ASHRAE
Texas	Terry	98	18	0.7	ASHRAE	Manual J
Texas	Throckmorton	99	22	0.4	ASHRAE	Manual J
Texas	Titus	97	25	0.5	Manual J	Manual J
Texas	Tom Green	99	25	0.4	ASHRAE	Manual J
Texas	Travis	98	30	0.2	ASHRAE	ASHRAE
Texas	Trinity	96	29	0.3	ASHRAE	Manual J
Texas	Tyler	96	29	0.3	ASHRAE	Manual J
Texas	Upshur	97	27	0.3	Manual J	Manual J
Texas	Upton	98	23	0.5	ASHRAE	Manual J
Texas	Uvalde	98	30	0.2	ASHRAE	Manual J
Texas	Val Verde	102	34	0.2	Manual J	Manual J
Texas	Van Zandt	99	28	0.3	ASHRAE	ASHRAE
Texas	Victoria	95	34	0.2	ASHRAE	Manual J
Texas	Walker	98	27	0.3	Manual J	Manual J
Texas	Waller	95	36	0.2	ASHRAE	ASHRAE
Texas	Ward	102	24	0.4	Manual J	ASHRAE
Texas	Washington	97	29	0.2	ASHRAE	Manual J
Texas	Webb	101	38	0.1	Manual J	Manual J
Texas	Wharton	94	33	0.1	Manual J	Manual J
Texas	Wheeler	96	12	1.1	Manual J	Manual J
Texas	Wichita	100	21	0.5	ASHRAE	Manual J
Texas	Wilbarger	100	17	0.6	Manual J	Manual J
Texas	Willacy	97	41	0.1	ASHRAE	ASHRAE
Texas	Williamson	97	28	0.3	ASHRAE	Manual J
Texas	Wilson	99	31	0.2	Manual J	Manual J
Texas	Winkler	102	24	0.4	Manual J	ASHRAE
Texas	Wise	100	22	0.4	ASHRAE	Manual J
Texas	Wood	97	24	0.3	Manual J	Manual J
Texas	Yoakum	99	18	0.6	Manual J	Manual J
Texas	Young	99	22	0.3	Manual J	Manual J

Texas	Zapata	101	38	0.1	Manual J	Manual J
Texas	Zavala	101	35	0.1	Manual J	Manual J
Utah						
Utah	Beaver	95	3	2	ASHRAE	ASHRAE
Utah	Box Elder	92	12	1.9	ASHRAE	ASHRAE
Utah	Cache	91	0	3.2	ASHRAE	Manual J
Utah	Carbon	91	8	2.6	ASHRAE	Manual J
Utah	Daggett	91	1	2.8	Manual J	ASHRAE
Utah	Davis	93	12	1.9	ASHRAE	ASHRAE
Utah	Duchesne	91	8	2.6	ASHRAE	Manual J
Utah	Emery	91	8	2.6	ASHRAE	Manual J
Utah	Garfield	91	5	2.7	Manual J	Manual J
Utah	Grand	98	10	1.3	ASHRAE	ASHRAE
Utah	Iron	91	8	2.1	ASHRAE	ASHRAE
Utah	Juab	93	3	2.2	Manual J	Manual J
Utah	Kane	110	8	1.3	Manual J - Micro	Manual J - Micro
Utah	Millard	93	3	2.2	Manual J	Manual J
Utah	Morgan	93	12	1.9	ASHRAE	ASHRAE
Utah	Piute	91	5	2.7	Manual J	Manual J
Utah	Rich	84	-3	7.9	Manual J	Manual J
Utah	Salt Lake	95	14	1.6	ASHRAE	Manual J
Utah	San Juan	97	10	1.3	Manual J -	ASHRAE
Utah	Sanpete	91	5	2.7	Manual J	Manual J
Utah	Sevier	91	5	2.7	Manual J	Manual J
Utah	Summit	84	-3	7.9	Manual J	Manual J
Utah	Tooele	93	12	1.7	ASHRAE	Manual J
Utah	Uintah	91	1	2.8	Manual J	ASHRAE
Utah	Utah	91	12	2.1	ASHRAE	ASHRAE
Utah	Wasatch	91	12	2.1	ASHRAE	ASHRAE
Utah	Washington	104	28	0.5	Manual J	Manual J
Utah	Wayne	91	5	2.7	Manual J	Manual J
Utah	Weber	92	12	1.9	ASHRAE	ASHRAE
Vermont						
Vermont	Addison	86	-4	3.1	ASHRAE	Manual J
Vermont	Bennington	84	1	3.1	ASHRAE	ASHRAE
Vermont	Caledonia	83	-11	4.4	ASHRAE	Manual J
Vermont	Chittenden	86	-4	3.1	ASHRAE	Manual J
Vermont	Essex	82	-18	92.5	ASHRAE	Manual J
Vermont	Franklin	83	-8	4.3	ASHRAE	Manual J
Vermont	Grand Isle	83	-5	3.7	ASHRAE	ASHRAE
Vermont	Lamoille	83	-8	4.3	ASHRAE	Manual J
Vermont	Orange	82	-11	4.4	Manual J	Manual J
Vermont	Orleans	83	-8	4.3	ASHRAE	Manual J
Vermont	Rutland	82	-2	3.6	Manual J	Manual J
Vermont	Washington	82	-11	4.4	Manual J	Manual J
Vermont	Windham	84	1	3.4	Manual J	Manual J
Vermont	Windsor	84	1	3.4	Manual J	Manual J
Virginia						
Virginia	Accomack	91	22	1	ASHRAE	ASHRAE
Virginia	Albemarle	91	19	1.1	ASHRAE	ASHRAE
Virginia	Alexandria City	92	20	0.9	Manual J	Manual J
Virginia	Alleghany	81	7	2.4	Manual J	Manual J
Virginia	Amelia	91	19	1	Manual J	Manual J
Virginia	Amherst	90	19	1.1	ASHRAE	ASHRAE
Virginia	Appomattox	93	19	0.9	ASHRAE	ASHRAE

Virginia	Arlington	92	20	0.9	Manual J	Manual J
Virginia	Augusta	91	16	1.1	ASHRAE	ASHRAE
Virginia	Bath	81	7	2.4	Manual J	Manual J
Virginia	Bedford	90	19	1.1	ASHRAE	ASHRAE
Virginia	Bedford City	90	19	1.1	ASHRAE	ASHRAE
Virginia	Bland	83	12	1.6	ASHRAE	Manual J
Virginia	Botetourt	90	19	1	Manual J	Manual J
Virginia	Bristol City	88	18	1.1	ASHRAE	ASHRAE
Virginia	Brunswick	93	23	0.7	ASHRAE	Manual J
Virginia	Buchanan	84	12	1.4	ASHRAE	ASHRAE
Virginia	Buckingham	93	19	0.9	ASHRAE	ASHRAE
Virginia	Buena Vista City	90	19	1.1	ASHRAE	ASHRAE
Virginia	Campbell	90	19	1.1	Manual J	Manual J
Virginia	Caroline	93	18	1	Manual J	Manual J
Virginia	Carroll	84	16	1.4	ASHRAE	ASHRAE
Virginia	Charles City	93	18	0.9	ASHRAE	Manual J
Virginia	Charlotte	91	19	1	Manual J	Manual J
Virginia	Charlottesville City	91	18	1	Manual J	Manual J
Virginia	Chesapeake City	93	22	0.6	ASHRAE	ASHRAE
Virginia	Chesterfield	95	19	0.8	Manual J	Manual J
Virginia	Clarke	91	18	1.2	Manual J	Manual J
Virginia	Colonial Heights City	95	19	0.8	Manual J	Manual J
Virginia	Covington City	81	7	2.4	Manual J	Manual J
Virginia	Craig	90	19	1	Manual J	Manual J
Virginia	Culpeper	93	18	1	ASHRAE	ASHRAE
Virginia	Cumberland	93	19	0.9	ASHRAE	ASHRAE
Virginia	Danville City	91	21	0.8	ASHRAE	ASHRAE
Virginia	Dickenson	84	12	1.4	ASHRAE	ASHRAE
Virginia	Dinwiddie	95	19	0.8	Manual J	Manual J
Virginia	Emporia City	91	25	0.7	ASHRAE	ASHRAE
Virginia	Essex	93	19	0.9	ASHRAE	ASHRAE
Virginia	Fairfax	94	18	1.1	ASHRAE	Manual J
Virginia	Fairfax City	94	18	1.1	ASHRAE	Manual J
Virginia	Falls Church City	92	20	0.9	Manual J	Manual J
Virginia	Fauquier	93	18	1	ASHRAE	ASHRAE
Virginia	Floyd	88	16	1.5	ASHRAE	ASHRAE
Virginia	Fluvanna	91	18	1	Manual J	Manual J
Virginia	Franklin	91	18	1	Manual J	Manual J
Virginia	Franklin City	93	23	0.6	ASHRAE	ASHRAE
Virginia	Frederick	91	18	1.2	Manual J	Manual J
Virginia	Fredericksburg City	93	14	1.2	Manual J	Manual J
Virginia	Galax City	84	16	1.4	ASHRAE	ASHRAE
Virginia	Giles	90	18	1.2	ASHRAE	ASHRAE
Virginia	Gloucester	92	23	0.8	Manual J	Manual J
Virginia	Goochland	93	19	0.8	ASHRAE	ASHRAE
Virginia	Grayson	88	12	1.5	Manual J	ASHRAE
Virginia	Greene	91	19	1.1	ASHRAE	ASHRAE
Virginia	Greensville	91	25	0.7	ASHRAE	ASHRAE
Virginia	Halifax	91	21	0.8	ASHRAE	ASHRAE
Virginia	Hampton City	91	24	0.8	Manual J	Manual J
Virginia	Hanover	93	19	0.9	ASHRAE	ASHRAE
Virginia	Harrisonburg City	91	16	1	Manual J	Manual J
Virginia	Henrico	93	18	0.9	ASHRAE	Manual J
Virginia	Henry	91	19	1	ASHRAE	ASHRAE
Virginia	Highland	81	7	2.4	Manual J	Manual J
Virginia	Hopewell City	93	18	0.9	ASHRAE	Manual J
Virginia	Isle of Wight	93	23	0.6	ASHRAE	ASHRAE

Virginia	James City	92	23	0.8	Manual J	Manual J
Virginia	King and Queen	93	18	0.9	ASHRAE	Manual J
Virginia	King George	90	20	1	ASHRAE	ASHRAE
Virginia	King William	93	18	0.9	ASHRAE	Manual J
Virginia	Lancaster	90	21	1	Manual J	ASHRAE
Virginia	Lee	90	16	1.5	Manual J	Manual J
Virginia	Lexington City	81	7	2.4	Manual J	Manual J
Virginia	Loudoun	93	14	1.6	ASHRAE	Manual J
Virginia	Louisa	93	19	0.8	ASHRAE	ASHRAE
Virginia	Lunenburg	93	23	0.7	ASHRAE	Manual J
Virginia	Lynchburg City	90	19	1.1	ASHRAE	ASHRAE
Virginia	Madison	91	19	1.1	ASHRAE	ASHRAE
Virginia	Manassas City	91	16	1.4	Manual J	Manual J
Virginia	Manassas Park City	91	16	1.3	ASHRAE	ASHRAE
Virginia	Martinsville City	91	18	1	Manual J	Manual J
Virginia	Mathews	91	24	0.8	Manual J	Manual J
Virginia	Mecklenburg	93	23	0.7	ASHRAE	Manual J
Virginia	Middlesex	92	23	0.8	Manual J	Manual J
Virginia	Montgomery	88	16	1.5	ASHRAE	ASHRAE
Virginia	Nelson	91	16	1.1	ASHRAE	ASHRAE
Virginia	New Kent	93	18	0.9	ASHRAE	Manual J
Virginia	Newport News	92	23	0.8	Manual J	Manual J
Virginia	Norfolk City	91	26	0.7	ASHRAE	Manual J
Virginia	Northampton	91	28	0.8	ASHRAE	ASHRAE
Virginia	Northumberland	90	21	1	Manual J	ASHRAE
Virginia	Norton City	84	12	1.4	ASHRAE	ASHRAE
Virginia	Nottoway	91	19	1	Manual J	Manual J
Virginia	Orange	93	19	0.8	ASHRAE	ASHRAE
Virginia	Page	91	16	1	Manual J	Manual J
Virginia	Patrick	91	19	1	ASHRAE	ASHRAE
Virginia	Petersburg City	95	19	0.8	Manual J	Manual J
Virginia	Pittsylvania	91	21	0.8	ASHRAE	ASHRAE
Virginia	Poquoson City	91	24	0.8	Manual J	Manual J
Virginia	Portsmouth City	91	26	0.7	ASHRAE	Manual J
Virginia	Powhatan	93	19	0.8	ASHRAE	ASHRAE
Virginia	Prince Edward	91	19	1	Manual J	Manual J
Virginia	Prince George	95	19	0.8	Manual J	Manual J
Virginia	Prince William	91	16	1.3	ASHRAE	ASHRAE
Virginia	Pulaski	90	18	1.2	ASHRAE	ASHRAE
Virginia	Radford City	90	18	1.2	ASHRAE	ASHRAE
Virginia	Rappahannock	93	18	1	ASHRAE	ASHRAE
Virginia	Richmond	90	21	1	Manual J	ASHRAE
Virginia	Richmond City	93	18	0.9	ASHRAE	Manual J
Virginia	Roanoke	90	19	1	Manual J	Manual J
Virginia	Roanoke City	90	19	1	Manual J	Manual J
Virginia	Rockbridge	81	7	2.4	Manual J	Manual J
Virginia	Rockingham	91	16	1	Manual J	Manual J
Virginia	Russell	88	18	1.1	ASHRAE	ASHRAE
Virginia	Salem City	90	19	1	Manual J	Manual J
Virginia	Scott	84	12	1.4	ASHRAE	ASHRAE
Virginia	Shenandoah	91	16	1	Manual J	Manual J
Virginia	Smyth	88	12	1.5	Manual J	ASHRAE
Virginia	Southampton	93	23	0.6	ASHRAE	ASHRAE
Virginia	Spotsylvania	93	18	1	Manual J	Manual J
Virginia	Stafford	90	20	1	Manual J	Manual J
Virginia	Staunton City	91	16	1.1	ASHRAE	ASHRAE
Virginia	Suffolk City	93	25	0.6	ASHRAE	ASHRAE

Virginia	Surry	91	23	0.8	ASHRAE	ASHRAE
Virginia	Sussex	91	23	0.8	ASHRAE	ASHRAE
Virginia	Tazewell	88	12	1.5	Manual J	ASHRAE
Virginia	Virginia Beach City	91	25	0.7	ASHRAE	Manual J
Virginia	Warren	91	18	1.2	Manual J	Manual J
Virginia	Washington	88	18	1.1	ASHRAE	ASHRAE
Virginia	Waynesboro City	91	16	1.1	ASHRAE	ASHRAE
Virginia	Westmoreland	90	21	1	Manual J	ASHRAE
Virginia	Williamsburg City	92	23	0.8	Manual J	Manual J
Virginia	Winchester City	91	18	1.2	Manual J	Manual J
Virginia	Wise	84	12	1.4	ASHRAE	ASHRAE
Virginia	Wythe	88	12	1.5	Manual J	ASHRAE
Virginia	York	91	24	0.8	Manual J	Manual J

Virgin Islands, U.S.

Virgin Islands, U.S.	N/A	89	70	0	ASHRAE	ASHRAE
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Washington

Washington	Adams	95	7	2.9	ASHRAE	Manual J
Washington	Asotin	95	18	1.7	ASHRAE	Manual J
Washington	Benton	97	11	1.4	ASHRAE	Manual J
Washington	Chelan	92	12	2	Manual J	Manual J
Washington	Clallam	75	27	4.9	Manual J	Manual J
Washington	Clark	88	28	1.8	Manual J	ASHRAE
Washington	Columbia	95	16	1.5	Manual J	Manual J
Washington	Cowlitz	83	26	2.3	Manual J	Manual J
Washington	Douglas	92	12	2	Manual J	Manual J
Washington	Ferry	93	10	2.4	ASHRAE	ASHRAE
Washington	Franklin	97	15	1.6	Manual J	Manual J
Washington	Garfield	95	18	1.7	ASHRAE	Manual J
Washington	Grant	95	7	2.9	ASHRAE	Manual J
Washington	Grays Harbor	77	28	3.3	Manual J	Manual J
Washington	Island	70	27	4.3	Manual J	Manual J
Washington	Jefferson	63	34	5.8	Manual J	Manual J
Washington	King	82	27	2.1	ASHRAE	Manual J
Washington	Kitsap	82	27	3.6	Manual J	ASHRAE
Washington	Kittitas	93	6	3.4	ASHRAE	Manual J
Washington	Klickitat	93	23	1.5	ASHRAE	ASHRAE
Washington	Lewis	83	24	2.9	ASHRAE	Manual J
Washington	Lincoln	95	7	2.9	ASHRAE	Manual J
Washington	Mason	83	27	3.3	Manual J	ASHRAE
Washington	Okanogan	93	10	2.4	ASHRAE	ASHRAE
Washington	Pacific	72	30	3.4	ASHRAE	Manual J
Washington	Pend Oreille	91	9	4.3	Manual J	ASHRAE
Washington	Pierce	83	24	2.9	ASHRAE	Manual J
Washington	San Juan	75	30	4.7	Manual J	ASHRAE
Washington	Skagit	79	25	3.4	ASHRAE	ASHRAE
Washington	Skamania	88	28	1.8	ASHRAE	ASHRAE
Washington	Snohomish	79	25	3.4	ASHRAE	ASHRAE
Washington	Spokane	91	9	4.3	Manual J	ASHRAE
Washington	Stevens	91	9	4.3	Manual J	ASHRAE
Washington	Thurston	83	24	3.2	ASHRAE	Manual J
Washington	Wahkiakum	72	30	3.4	ASHRAE	Manual J
Washington	Walla Walla	95	16	1.5	Manual J	Manual J
Washington	Whatcom	76	23	3.4	ASHRAE	Manual J
Washington	Whitman	90	14	3.5	Manual J	ASHRAE
Washington	Yakima	93	12	2.5	ASHRAE	Manual J

West Virginia

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West Virginia	Barbour	84	7	2.2	ASHRAE	Manual J
West Virginia	Berkeley	90	15	1.4	ASHRAE	Manual J
West Virginia	Boone	89	15	1.2	ASHRAE	Manual J
West Virginia	Braxton	90	10	1.8	Manual J	Manual J
West Virginia	Brooke	86	10	1.7	ASHRAE	ASHRAE
West Virginia	Cabell	90	15	1.1	ASHRAE	Manual J
West Virginia	Calhoun	88	12	1.4	ASHRAE	Manual J
West Virginia	Clay	89	15	1.2	ASHRAE	Manual J
West Virginia	Doddridge	90	10	1.8	Manual J	Manual J
West Virginia	Fayette	83	11	1.8	ASHRAE	Manual J
West Virginia	Gilmer	90	10	1.8	Manual J	Manual J
West Virginia	Grant	84	7	2.2	ASHRAE	Manual J
West Virginia	Greenbrier	84	12	2.2	ASHRAE	ASHRAE
West Virginia	Hampshire	89	10	1.6	Manual J	Manual J
West Virginia	Hancock	86	5	1.9	Manual J	Manual J
West Virginia	Hardy	91	16	1	Manual J	Manual J
West Virginia	Harrison	90	10	1.8	Manual J	Manual J
West Virginia	Jackson	89	15	1.2	ASHRAE	Manual J
West Virginia	Jefferson	90	15	1.4	ASHRAE	Manual J
West Virginia	Kanawha	89	15	1.2	ASHRAE	Manual J
West Virginia	Lewis	90	10	1.8	Manual J	Manual J
West Virginia	Lincoln	90	15	1.1	ASHRAE	Manual J
West Virginia	Logan	89	15	1.2	ASHRAE	Manual J
West Virginia	Marion	90	10	1.8	Manual J	Manual J
West Virginia	Marshall	86	5	1.6	Manual J	Manual J
West Virginia	Mason	92	6	1.9	Manual J	Manual J
West Virginia	McDowell	83	12	1.6	ASHRAE	Manual J
West Virginia	Mercer	83	12	1.6	ASHRAE	Manual J
West Virginia	Mineral	89	10	1.6	Manual J	Manual J
West Virginia	Mingo	90	15	1.1	ASHRAE	Manual J
West Virginia	Monongalia	87	12	1.5	ASHRAE	Manual J
West Virginia	Monroe	84	12	2.2	ASHRAE	ASHRAE
West Virginia	Morgan	90	15	1.4	ASHRAE	Manual J
West Virginia	Nicholas	84	12	2.2	ASHRAE	ASHRAE
West Virginia	Ohio	86	5	1.6	Manual J	Manual J
West Virginia	Pendleton	91	16	1	Manual J	Manual J
West Virginia	Pleasants	88	12	1.4	ASHRAE	Manual J
West Virginia	Pocahontas	81	7	2.4	Manual J	Manual J
West Virginia	Preston	87	12	1.5	ASHRAE	Manual J
West Virginia	Putnam	89	15	1.2	ASHRAE	Manual J
West Virginia	Raleigh	83	11	1.8	ASHRAE	Manual J
West Virginia	Randolph	84	7	2.2	ASHRAE	Manual J
West Virginia	Ritchie	88	12	1.4	ASHRAE	Manual J
West Virginia	Roane	89	15	1.2	ASHRAE	Manual J
West Virginia	Summers	83	11	1.8	ASHRAE	Manual J
West Virginia	Taylor	90	10	1.8	Manual J	Manual J
West Virginia	Tucker	84	7	2.2	ASHRAE	Manual J
West Virginia	Tyler	90	10	1.8	Manual J	Manual J
West Virginia	Upshur	84	7	2.2	ASHRAE	Manual J
West Virginia	Wayne	90	15	1.1	ASHRAE	Manual J
West Virginia	Webster	84	12	2.2	ASHRAE	ASHRAE
West Virginia	Wetzel	90	10	1.8	Manual J	Manual J
West Virginia	Wirt	88	12	1.4	ASHRAE	Manual J
West Virginia	Wood	88	12	1.4	ASHRAE	Manual J
West Virginia	Wyoming	83	12	1.6	ASHRAE	Manual J
Wisconsin						
Wisconsin	Adams	86	-2	2.7	Manual J	ASHRAE

Wisconsin	Ashland	84	-16	5.1	ASHRAE	Manual J
Wisconsin	Barron	84	-9	3.6	ASHRAE	ASHRAE
Wisconsin	Bayfield	84	-16	5.1	ASHRAE	Manual J
Wisconsin	Brown	85	-4	3.3	ASHRAE	Manual J
Wisconsin	Buffalo	89	-4	2.5	Manual J	ASHRAE
Wisconsin	Burnett	86	-8	3.6	ASHRAE	ASHRAE
Wisconsin	Calumet	86	-1	2.8	Manual J	ASHRAE
Wisconsin	Chippewa	87	-8	3	ASHRAE	ASHRAE
Wisconsin	Clark	82	-8	3.5	ASHRAE	Manual J
Wisconsin	Columbia	87	-3	2.8	Manual J	Manual J
Wisconsin	Crawford	86	0	2.3	ASHRAE	ASHRAE
Wisconsin	Dane	87	-3	2.8	Manual J	Manual J
Wisconsin	Dodge	84	0	2.7	ASHRAE	ASHRAE
Wisconsin	Door	82	0	3.7	Manual J	ASHRAE
Wisconsin	Douglas	82	-8	5.6	ASHRAE	ASHRAE
Wisconsin	Dunn	87	-8	3	ASHRAE	ASHRAE
Wisconsin	Eau Claire	87	-10	3.1	Manual J	Manual J
Wisconsin	Florence	84	-6	4.5	ASHRAE	ASHRAE
Wisconsin	Fond du Lac	86	0	2.7	Manual J	ASHRAE
Wisconsin	Forest	82	-9	5.3	Manual J	ASHRAE
Wisconsin	Grant	88	-2	2.4	ASHRAE	ASHRAE
Wisconsin	Green	86	0	2.4	ASHRAE	ASHRAE
Wisconsin	Green Lake	84	0	2.7	ASHRAE	ASHRAE
Wisconsin	Iowa	84	0	2.5	ASHRAE	ASHRAE
Wisconsin	Iron	82	-8	5.2	ASHRAE	ASHRAE
Wisconsin	Jackson	88	-8	3.2	ASHRAE	ASHRAE
Wisconsin	Jefferson	86	0	2.6	ASHRAE	ASHRAE
Wisconsin	Juneau	86	-2	2.7	Manual J	ASHRAE
Wisconsin	Kenosha	88	3	2.5	Manual J	ASHRAE
Wisconsin	Kewaunee	82	0	3.7	Manual J	ASHRAE
Wisconsin	La Crosse	89	-6	2.4	Manual J	Manual J
Wisconsin	Lafayette	84	0	2.5	ASHRAE	ASHRAE
Wisconsin	Langlade	82	-9	4.6	Manual J	ASHRAE
Wisconsin	Lincoln	82	-9	4.9	ASHRAE	ASHRAE
Wisconsin	Manitowoc	82	1	3.7	Manual J	ASHRAE
Wisconsin	Marathon	85	-8	3.5	Manual J	Manual J
Wisconsin	Marinette	84	-11	3.4	Manual J	Manual J
Wisconsin	Marquette	86	-2	2.7	ASHRAE	ASHRAE
Wisconsin	Menominee	86	-2	3	ASHRAE	ASHRAE
Wisconsin	Milwaukee	87	2	2.5	Manual J	Manual J
Wisconsin	Monroe	88	-8	3.2	ASHRAE	ASHRAE
Wisconsin	Oconto	85	-4	3.3	ASHRAE	Manual J
Wisconsin	Oneida	83	-9	4.6	Manual J	ASHRAE
Wisconsin	Outagamie	86	-1	2.8	Manual J	ASHRAE
Wisconsin	Ozaukee	84	1	3.3	Manual J	ASHRAE
Wisconsin	Pepin	87	-8	3	ASHRAE	ASHRAE
Wisconsin	Pierce	88	-8	2.9	ASHRAE	ASHRAE
Wisconsin	Polk	86	-8	3.2	ASHRAE	ASHRAE
Wisconsin	Portage	89	-11	3.8	Manual J	Manual J
Wisconsin	Price	82	-13	4.7	ASHRAE	Manual J
Wisconsin	Racine	88	-2	2.8	Manual J	Manual J
Wisconsin	Richland	88	-2	2.4	ASHRAE	ASHRAE
Wisconsin	Rock	90	-3	2.5	Manual J	Manual J
Wisconsin	Rusk	84	-11	4.4	ASHRAE	ASHRAE
Wisconsin	Sauk	86	-2	2.7	ASHRAE	ASHRAE
Wisconsin	Sawyer	84	-11	4.4	ASHRAE	ASHRAE
Wisconsin	Shawano	86	-2	3	ASHRAE	ASHRAE

Wisconsin	Sheboygan	84	1	3.3	Manual J	ASHRAE
Wisconsin	St. Croix	86	-8	3.2	ASHRAE	ASHRAE
Wisconsin	Taylor	82	-8	3.8	ASHRAE	ASHRAE
Wisconsin	Trempealeau	89	-4	2.5	Manual J	ASHRAE
Wisconsin	Vernon	88	-8	3.2	ASHRAE	ASHRAE
Wisconsin	Vilas	82	-9	5.3	Manual J	ASHRAE
Wisconsin	Walworth	87	-5	2.4	Manual J	Manual J
Wisconsin	Washburn	84	-11	4.4	ASHRAE	ASHRAE
Wisconsin	Washington	84	1	2.8	ASHRAE	ASHRAE
Wisconsin	Waukesha	87	-5	2.4	Manual J	Manual J
Wisconsin	Waupaca	86	-2	3	ASHRAE	ASHRAE
Wisconsin	Waushara	89	-11	3.8	Manual J	Manual J
Wisconsin	Winnebago	84	0	2.9	ASHRAE	ASHRAE
Wisconsin	Wood	86	-8	3.5	Manual J	Manual J
Wyoming						
Wyoming	Albany	82	-3	6.6	ASHRAE	ASHRAE
Wyoming	Big Horn	95	-6	2.9	ASHRAE	ASHRAE
Wyoming	Campbell	92	-4	3.3	Manual J	Manual J
Wyoming	Carbon	88	-4	4.4	ASHRAE	Manual J
Wyoming	Converse	93	0	3.2	ASHRAE	ASHRAE
Wyoming	Crook	87	-12	3.1	Manual J	Manual J
Wyoming	Fremont	90	-3	3.2	ASHRAE	Manual J
Wyoming	Goshen	93	-8	2.9	ASHRAE	Manual J
Wyoming	Hot Springs	93	-10	2.9	Manual J	Manual J
Wyoming	Johnson	90	0	3.2	ASHRAE	ASHRAE
Wyoming	Laramie	87	2	3.6	ASHRAE	Manual J
Wyoming	Lincoln	82	-13	11.1	ASHRAE	Manual J
Wyoming	Natrona	91	-2	3.3	ASHRAE	Manual J
Wyoming	Niobrara	87	-12	3.1	Manual J	Manual J
Wyoming	Park	88	-5	3.6	Manual J	Manual J
Wyoming	Platte	93	-8	2.9	ASHRAE	Manual J
Wyoming	Sheridan	92	-6	3.4	Manual J	Manual J
Wyoming	Sublette	82	-13	11.1	ASHRAE	Manual J
Wyoming	Sweetwater	85	0	4.4	ASHRAE	Manual J
Wyoming	Teton	82	-13	29.3	ASHRAE	Manual J
Wyoming	Uinta	84	-3	7.9	Manual J	Manual J
Wyoming	Washakie	93	-10	2.9	Manual J	Manual J
Wyoming	Weston	87	-12	3.1	Manual J	Manual J

The temperatures in this Appendix utilize the 1% cooling and 99% heating design temperatures in the ASHRAE 2013 Handbook of Fundamentals and Manual J Design Conditions 8th Edition.

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