

COOLING DEGREE DAYS

What are Cooling Degree Days? Cooling Degree Day (CDD) units are used by utility companies and institutions for determining energy consumption. The cooling season is January 1st to December 31st.

How are Cooling Degree Days calculated? Calculate the mean temperature for the day (*maximum and minimum added then divide by 2*) then subtract 65 (*baseline value*) from this value. All negative values are recorded as a zero. Monthly and seasonal values are sums of the daily values for that period.

Example: Max Temp: 94

Mean Temp = $(94 + 63) \div 2 = 78.5$

Min Temp: 63

CDD for the day = $78.5 - 65 = 14$ (rounded)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	Δ norm ¹
1898	0	0	0	0	3	35	63	125	26	0	0	0	252	-38
1899	0	0	0	0	0	0	94	26	16	0	0	0	136	-154
1900	0	0	0	0	0	65	145	89	M	0	M	M	299	9
1901	M	M	M	0	6	13	M	M	11	10	M	0	M	-
1902	0	0	0	0	8	17	M	M	30	0	0	0	M	-
1903	0	0	0	0	4	37	34	50	15	0	0	0	140	-150
1904	0	0	0	8	6	44	114	132	32	1	0	0	337	47
1905	0	0	0	0	2	1	141	81	29	0	0	0	254	-36
1906	0	0	0	2	5	11	224	122	23	0	0	0	387	97
1907	0	0	0	0	11	45	98	57	43	0	0	0	254	-36
1908	0	0	0	0	4	37	153	107	30	0	0	0	331	41
1909	0	0	0	0	3	16	23	54	45	0	0	0	141	-149
1910	0	0	0	4	13	12	98	31	7	0	0	0	165	-125
1911	0	0	0	0	9	22	177	78	8	0	0	0	294	4
1912	0	0	0	0	11	30	104	61	17	0	0	0	223	-67
1913	0	0	0	0	4	22	95	143	M	0	0	0	264	-26
1914	0	0	0	0	18	32	119	99	1	0	0	0	269	-21
1915	0	0	0	0	0	24	90	171	12	2	0	0	299	9
1916	0	0	0	0	0	45	41	116	12	0	0	0	214	-76
1917	0	0	0	0	0	20	141	179	9	0	0	0	349	59
1918	0	0	0	2	0	86	77	93	100	2	0	0	360	70
1919	0	0	0	0	0	4	107	76	11	0	M	0	198	-92
1920	0	0	0	0	1	23	60	143	7	1	0	0	235	-55
1921	0	0	0	0	0	32	49	83	0	0	0	0	164	-126
1922	0	0	0	0	31	72	151	85	42	0	0	0	381	91
1923	0	0	0	0	3	43	107	165	45	4	0	0	367	77
1924	0	0	0	0	14	65	97	84	47	0	0	0	307	17
1925	0	0	0	0	9	65	145	88	22	0	0	0	329	39
1926	0	0	0	16	5	128	192	85	18	0	0	0	444	154
1927	0	0	0	0	2	39	159	148	15	0	0	0	363	73
1928	0	0	0	0	24	10	133	52	12	2	0	0	233	-57
1929	0	0	0	0	0	23	44	77	26	0	0	0	170	-120
1930	0	0	0	0	0	2	27	74	18	0	0	0	121	-169
1931	0	0	0	0	16	13	85	91	37	0	0	0	242	-48
1932	0	0	0	0	0	68	30	95	21	6	0	0	220	-70
1933	0	0	0	0	0	14	51	101	1	0	0	0	167	-123
1934	0	0	0	0	1	24	32	73	25	6	0	0	161	-129
1935	0	0	0	0	0	30	104	95	45	2	0	0	276	-14
1936	0	0	0	2	7	23	43	60	12	2	0	0	149	-141
1937	0	0	0	0	0	29	56	58	18	0	0	0	161	-129
1938	0	0	0	0	17	38	164	25	48	0	0	0	292	2
1939	0	0	0	0	12	12	126	94	34	0	0	0	278	-12
1940	0	0	0	0	5	57	64	120	39	11	0	0	296	6

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	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	Δ norm
1941	0	0	0	0	14	19	226	125	7	0	0	0	391	101
1942	0	0	0	0	4	26	134	164	31	0	0	0	359	69
1943	0	0	0	0	3	14	96	53	66	4	0	0	236	-54
1944	0	0	0	0	1	25	111	78	92	0	0	0	307	17
1945	0	0	0	0	3	39	124	91	13	0	0	0	270	-20
1946	0	0	0	0	1	21	108	94	18	0	0	0	242	-48
1947	0	0	0	0	24	6	51	39	40	0	0	0	160	-130
1948	0	0	0	0	2	71	67	38	48	0	0	0	226	-64
1949	0	0	0	0	13	25	72	69	46	0	0	0	225	-65
1950	0	0	0	0	0	37	94	138	36	2	0	0	307	17
1951	0	0	0	0	3	62	81	53	34	0	0	0	233	-57
1952	0	0	0	0	3	4	104	80	62	5	0	0	258	-32
1953	0	0	0	0	5	1	48	62	26	1	0	0	143	-147
1954	0	0	0	0	1	0	9	14	3	0	0	0	27	-263
1955	0	0	0	0	2	26	26	48	42	0	0	0	144	-146
1956	0	0	0	0	23	9	129	60	13	0	0	0	234	-56
1957	0	0	0	3	3	11	34	12	59	0	0	0	122	-168
1958	0	0	0	0	26	72	202	172	39	5	0	0	516	226
1959	0	0	0	0	0	22	131	51	8	0	0	0	212	-78
1960	0	0	0	0	0	13	118	58	38	0	0	0	227	-63
1961	0	0	0	0	1	67	110	147	5	1	0	0	331	41
1962	0	0	0	0	0	7	77	49	17	0	0	0	150	-140
1963	0	0	0	0	7	16	11	51	72	0	0	0	157	-133
1964	0	0	0	0	1	1	91	49	4	0	0	0	146	-144
1965	0	0	0	0	0	12	124	87	9	1	0	0	233	-57
1966	0	0	0	0	2	29	57	88	28	0	0	0	204	-86
1967	0	0	0	0	0	57	96	214	52	0	0	0	419	129
1968	0	0	0	0	0	13	88	63	13	0	0	0	177	-113
1969	0	0	0	0	12	66	50	28	27	0	0	0	183	-107
1970	0	0	0	0	2	82	106	66	0	1	0	0	257	-33
1971	0	0	0	0	0	5	140	152	2	0	0	0	299	9
1972	0	0	0	0	10	6	122	148	21	0	0	0	307	17
1973	0	0	0	0	6	34	115	47	29	0	0	0	231	-59
1974	0	0	0	0	0	34	78	108	78	0	0	0	298	8
1975	0	0	0	0	1	16	109	30	41	0	0	0	197	-93
1976	0	0	0	0	0	6	59	48	16	3	0	0	132	-158
1977	0	0	0	0	0	19	50	187	5	0	0	0	261	-29
1978	0	0	0	0	6	63	143	130	16	0	0	0	358	68
1979	0	0	0	0	0	29	121	48	20	1	0	0	219	-71
1980	0	0	0	0	0	0	73	21	17	9	0	0	120	-170
1981	0	0	0	1	0	2	69	156	38	0	0	0	266	-24
1982	0	0	0	0	5	91	68	82	27	0	0	0	273	-17
1983	0	0	0	0	21	4	46	94	3	0	0	0	168	-122
1984	0	0	0	0	1	10	64	73	19	5	0	0	172	-118
1985	0	0	0	0	1	26	171	71	1	0	0	0	270	-20
1986	0	0	0	0	28	64	25	159	34	0	0	0	310	20
1987	0	0	0	0	27	64	59	110	31	4	0	0	295	5
1988	0	0	0	0	3	16	108	75	48	10	0	0	260	-30
1989	0	0	0	0	4	46	39	46	32	0	0	0	167	-123
1990	0	0	0	0	1	31	165	153	46	0	0	0	396	106

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	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	Δ norm
1991	0	0	0	0	0	1	111	127	78	0	0	0	317	27
1992	0	0	0	1	30	83	138	128	25	0	0	0	405	115
1993	0	0	0	0	17	11	10	108	51	1	0	0	198	-92
1994	0	0	0	0	8	21	155	79	61	2	0	0	326	36
1995	0	0	0	0	9	52	139	53	41	0	0	0	294	4
1996	0	0	0	0	0	6	194	119	9	4	0	0	332	42
1997	0	0	0	0	28	5	86	158	44	0	0	0	321	31
1998	0	0	0	4	3	7	163	140	68	0	0	0	385	95
1999	0	0	0	0	4	23	87	120	51	0	0	0	285	-5
2000	0	0	0	0	0	53	71	71	36	0	0	0	231	-59
2001	0	0	0	0	17	8	68	90	46	0	0	0	229	-61
2002	0	0	0	0	0	40	139	111	35	0	0	0	325	35
2003	0	0	0	0	8	70	176	128	69	8	0	0	459	169
2004	0	0	0	0	0	43	170	168	1	0	0	0	382	92
2005	0	0	0	0	17	8	139	137	15	0	0	0	316	26
2006	0	0	0	0	19	62	174	105	45	0	1	0	406	116
2007	0	0	0	0	8	23	159	90	31	0	0	0	311	21
2008	0	0	0	0	35	42	116	127	41	0	0	0	361	71
2009	0	0	0	0	20	29	218	132	55	0	0	0	454	164
2010	0	0	0	0	0	11	121	116	43	0	0	0	291	1
2011	0	0	0	0	0	15	57	143	101	0	0	0	316	26
2012	0	0	0	2	2	15	91	161	46	0	0	0	317	27
2013	0	0	0	0	10	53	176	188	75	0	0	0	502	212
2014	0	0	0	1	15	19	242	241	73	14	0	0	605	315
2015	0	0	0	0	13	160	261	203	43	2	0	0	682	392
2016	0	0	0	7	14	91	121	213	19	0	0	0	465	175
2017	0	0	0	0	27	72	168	258	127	0	0	0	652	362
2018	0	0	0	0	12	57	242	181	26	1	0	0	519	229
2019	0	0	0	0	7	47	108	159	39	0	0	0	360	70
2020	0	0	0	0	15	36	145	140	73	0	0	0	409	119
2021	0	0	0	0	16	200	264	244	77	0	0	0	801	400
2022	0	0	0	0	2	52	257	241	92	14	0	0	658	257
2023	0	0	0	7	54	64	196	258	48	9	0	0	636	235
2024	0													
2025														
2026														
2027														
2028														
2029														
normal	0	0	0	1	11	39	148	146	54	2	0	0	401	

EXTREMES: Least Monthly and Annual CDD and year of occurrence

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
0	0	0	0	0	0	9	12	0	0	0	0	27
2024 ¹	2023 ¹	2023 ¹	2022 ⁺	2011 ⁺	1980 ⁺	1954	1957	1970 ⁺	2021 ¹	2023 ¹	2023 ¹	1954

EXTREMES: Most Monthly and Annual CDD and year of occurrence

0	0	0	16	54	200	264	258	127	14	1	0	801
2024 ⁺	2023 ⁺	2023 ¹	1926	2023	2021	2021	2017	2017	2022	2006	2023 ¹	2021

¹Multiple occurrences, so last year of occurrence listed.