

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	0	M	M	M	M	M	0	0	M	-
1899	0	0	0	0	0	M	55	15	15	0	0	0	M	-
1900	0	0	0	0	M	M	M	M	M	0	0	0	M	-
1901	0	0	0	0	4	11	17	116	2	0	0	0	150	-89
1902	0	0	0	0	4	11	51	71	30	0	0	0	167	-72
1903	0	0	0	0	5	27	28	42	4	0	0	0	106	-133
1904	0	0	0	3	0	M	M	M	M	M	0	0	M	
1905	0	0	0	0	0	2	94	64	12	0	0	0	172	-67
1906	0	0	0	1	0	6	182	73	16	1	0	0	279	+40
1907	0	0	0	0	7	23	62	29	22	0	0	0	143	-96
1908	0	0	0	0	0	12	116	72	27	1	0	0	228	-11
1909	0	0	0	0	1	12	15	36	44	0	0	0	108	-131
1910	0	0	0	4	9	10	86	17	0	4	0	0	130	-109
1911	0	0	0	0	2	7	122	35	3	0	0	0	169	-70
1912	0	0	0	0	9	19	78	38	14	0	0	0	158	-81
1913	0	0	0	0	0	4	72	102	16	0	0	0	194	-45
1914	0	0	0	0	23	42	97	51	0	0	0	0	213	-26
1915	0	0	0	0	0	10	65	129	8	1	0	0	213	-26
1916	0	0	0	0	0	22	6	55	7	0	0	0	90	-149
1917	0	0	0	0	0	6	104	107	14	2	0	0	233	-6
1918	0	0	0	1	0	65	55	89	43	0	0	0	253	+14
1919	0	0	0	0	3	1	104	89	1	0	0	0	198	-41
1920	0	0	0	0	0	12	49	121	7	2	0	0	191	-48
1921	0	0	0	0	0	26	34	62	0	0	0	0	122	-117
1922	0	0	0	0	14	32	96	31	36	0	0	0	209	-30
1923	0	0	0	0	4	26	58	107	30	2	0	0	227	-12
1924	0	0	0	0	6	27	51	42	17	0	0	0	143	-96
1925	0	0	0	0	0	47	109	55	9	0	0	0	220	-19
1926	0	0	0	9	3	87	117	48	7	1	0	0	272	+33
1927	0	0	0	0	2	15	83	102	11	0	0	0	213	-26
1928	0	0	0	0	10	7	109	55	4	0	0	0	185	-54
1929	0	0	0	0	0	11	59	62	10	0	0	0	142	-97
1930	0	0	0	0	0	7	36	85	8	0	0	0	136	-103
1931	0	0	0	0	19	10	104	72	32	0	0	0	237	-2
1932	0	0	0	0	0	57	29	77	15	1	0	0	179	-60
1933	0	0	0	0	0	9	62	118	1	0	0	0	190	-49
1934	0	0	0	2	7	16	29	68	20	7	1	0	150	-89
1935	0	0	0	0	0	23	83	69	30	0	0	0	205	-34
1936	0	0	0	0	3	15	27	52	7	0	0	0	104	-135
1937	0	0	0	0	0	36	83	69	31	0	0	0	219	-20
1938	0	0	0	0	19	46	189	33	40	1	0	0	328	+89
1939	0	0	0	0	14	11	128	118	38	0	0	0	309	+70
1940	0	0	0	0	1	49	67	107	29	15	0	0	268	+29

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	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	Δ norm
1941	0	0	0	0	7	13	164	88	8	0	0	0	280	+41
1942	0	0	0	0	5	19	102	133	14	0	0	0	273	+34
1943	0	0	0	0	0	13	95	45	55	5	0	0	213	-26
1944	0	0	0	0	0	14	93	65	67	0	0	0	239	0
1945	0	0	0	0	4	30	118	75	16	0	0	0	243	+4
1946	0	0	0	0	2	22	106	72	10	0	0	0	212	-27
1947	0	0	0	0	14	3	40	29	19	0	0	0	105	-134
1948	0	0	0	0	0	55	60	23	42	0	0	0	180	-59
1949	0	0	0	0	5	18	63	49	23	0	0	0	158	-81
1950	0	0	0	0	1	39	105	141	36	2	0	0	324	+85
1951	0	0	0	0	1	72	89	77	26	0	0	0	265	+26
1952	0	0	0	0	3	4	112	78	61	2	0	0	260	+21
1953	0	0	0	0	4	0	53	62	22	0	0	0	141	-98
1954	0	0	0	0	0	0	11	8	3	0	0	0	22	-217
1955	0	0	0	0	0	21	24	32	34	0	0	0	111	-128
1956	0	0	0	0	9	4	105	63	6	0	0	0	187	-52
1957	0	0	0	2	2	9	24	14	52	0	0	0	103	-136
1958	0	0	0	0	8	53	193	157	30	2	0	0	443	+204
1959	0	0	0	0	0	18	143	48	2	1	0	0	212	-27
1960	0	0	0	0	0	23	135	53	19	0	0	0	230	-9
1961	0	0	0	0	2	64	102	129	4	3	0	0	304	+65
1962	0	0	0	0	0	9	75	42	21	0	0	0	147	-92
1963	0	0	0	0	13	29	14	85	82	0	0	0	223	-16
1964	0	0	0	0	0	3	91	70	7	0	0	0	171	-68
1965	0	0	0	0	0	16	133	99	13	0	0	0	261	+22
1966	0	0	0	0	0	41	86	106	48	0	0	0	281	+42
1967	0	0	0	0	2	65	129	225	64	0	0	0	485	+246
1968	0	0	0	0	0	30	128	87	23	0	0	0	268	+29
1969	0	0	0	0	12	60	72	37	33	0	0	0	214	-25
1970	0	0	0	0	4	93	173	99	1	0	0	0	370	+131
1971	0	0	0	0	0	3	119	129	2	0	0	0	253	+14
1972	0	0	0	0	11	6	156	159	26	0	0	0	358	+119
1973	0	0	0	0	2	38	119	50	26	0	0	0	235	-4
1974	0	0	0	0	3	57	127	143	110	0	0	0	440	+201
1975	0	0	0	0	3	25	135	47	82	1	0	0	293	+54
1976	0	0	0	0	3	12	101	82	30	3	0	0	231	-8
1977	0	0	0	0	0	10	52	177	12	0	0	0	251	+12
1978	0	0	0	0	2	34	101	88	10	0	0	0	235	-4
1979	0	0	0	0	0	16	111	40	15	0	0	0	182	-57
1980	0	0	0	0	0	0	91	23	16	12	0	0	142	-97
1981	0	0	0	1	0	4	63	138	38	0	0	0	244	+5
1982	0	0	0	0	0	51	59	73	20	0	0	0	203	-36
1983	0	0	0	0	17	3	23	56	0	0	0	0	99	-140
1984	0	0	0	0	2	14	69	55	23	5	0	0	168	-71
1985	0	0	0	0	4	28	166	73	2	0	0	0	273	+34
1986	0	0	0	0	26	55	20	165	34	0	0	0	300	+61
1987	0	0	0	0	32	59	48	104	30	4	0	0	277	+38
1988	0	0	0	0	2	15	127	85	53	8	0	0	290	+51
1989	0	0	0	1	14	38	47	81	60	0	0	0	241	+2
1990	0	0	0	0	0	26	192	157	42	0	0	0	417	+178

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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	2	101	117	71	1	0	0	292	+53
1992	0	0	0	2	21	75	115	144	34	0	0	0	391	+152
1993	0	0	0	0	0	12	9	95	46	5	0	0	167	-72
1994	0	0	0	0	1	12	166	64	59	0	0	0	302	+63
1995	0	0	0	0	7	41	135	61	47	0	0	0	291	+52
1996	0	0	0	0	0	3	176	99	3	2	0	0	283	+44
1997	0	0	0	0	13	3	69	131	24	0	0	0	240	+1
1998	0	0	0	0	1	0	142	117	50	0	0	0	310	+71
1999	0	0	0	0	0	5	56	97	26	0	0	0	184	-55
2000	0	0	0	0	0	34	46	70	32	0	0	0	182	-57
2001	0	0	0	0	10	3	46	85	43	1	0	0	188	-51
2002	0	0	0	0	0	19	119	89	20	0	0	0	247	+8
2003	0	0	0	0	0	44	136	90	55	8	0	0	333	+94
2004	0	0	0	0	0	29	152	147	1	1	0	0	330	+91
2005	0	0	0	0	9	6	112	120	10	0	0	0	257	+18
2006	0	0	0	0	4	37	141	70	23	0	1	0	276	+37
2007	0	0	0	0	0	4	115	62	24	0	0	0	205	-34
2008	0	0	0	0	23	31	95	115	29	2	0	0	295	+56
2009	0	0	0	0	7	10	170	110	33	0	0	0	330	+91
2010	0	0	0	0	0	1	98	95	31	0	0	0	225	-14
2011	0	0	0	0	0	0	38	112	81	0	0	0	231	-8
2012	0	0	0	1	0	11	64	124	30	0	0	0	230	-9
2013	0	0	0	0	5	48	146	149	63	0	0	0	411	+172
2014	0	0	0	0	3	6	193	206	59	8	0	0	475	+236
2015	0	0	0	0	5	113	213	161	32	5	0	0	529	+290
2016	0	0	0	0	3	65	85	160	10	2	0	0	325	+86
2017	0	0	0	0	13	31	85	173	74	0	0	0	376	+137
2018	0	0	0	0	0	20	153	147	13	3	0	0	336	+97
2019	0	0	0	0	1	41	108	158	45	0	0	0	353	+114
2020	0	0	0	0	8	42	146	150	55	3	0	0	404	+165
2021	0	0	0	0	3	145	205	205	43	0	0	0	601	+308
2022	0	0	0	0	0	31	204	210	65	4	0	0	514	+221
2023	0	0	0	6	43	55	190	246	48	6	0	0	594	+301
2024	0	0	0	0										
2025														
2026														
2027														
2028														
2029														
normal	0	0	0	0	4	23	113	114	38	1	0	0	293	

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	6	8	0	0	0	0	22
2024 ¹	2024 ¹	2024 ¹	2024 ¹	2022 ¹	2011 ¹	1916	1954	1983 ¹	2021 ¹	2023 ¹	2023 ¹	1954

EXTREMES: Most Monthly and Annual CDD and year of occurrence

0	0	0	9	43	145	213	246	110	15	1	0	601
2024 ¹	2024 ¹	2024 ¹	1926	2023	2021	2015	2023	1974	1940	2006 ¹	2023 ¹	2021

¹Multiple occurrences, so last year of occurrence listed.