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) ÷ 2 = 78.5

Min Temp: 63 CDD for the day = 78.5 **- 65** = **14** *(rounded)*

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	Δ norm[1]
1897	0	0	0	1	18	13	-	-	-	0	0	-	**-**	-
1898	0	0	0	0	0	-	-	-	-	-	-	-	**-**	-
1899	-	0	0	0	0	-	55	15	15	0	0	0	**85**	-
1900	0	0	0	0	-	-	-	-	-	0	0	0	**-**	-
1901	0	0	0	0	4	11	17	116	2	0	0	0	**150**	*-90*
1902	0	2	0	0	4	11	51	71	30	0	0	0	**169**	*-71*
1903	0	0	-	0	5	27	28	42	4	0	0	0	**106**	*-134*
1904	0	0	0	3	0	-	-	-	-	-	0	0	**-**	-
1905	0	0	0	0	0	2	94	64	12	0	0	0	**172**	*-68*
1906	0	0	0	1	0	6	182	73	16	1	0	0	**279**	*+39*
1907	0	0	0	0	7	23	62	29	22	0	0	0	**143**	*-97*
1908	0	0	0	0	0	12	116	72	27	1	0	0	**228**	*-12*
1909	0	0	0	0	1	12	15	36	44	0	0	0	**108**	*-132*
1910	0	0	0	4	9	10	86	17	0	4	0	0	**130**	*-110*
1911	0	0	0	0	2	7	122	35	3	0	0	0	**169**	*-71*
1912	0	0	0	0	9	19	78	38	14	0	0	0	**158**	*-82*
1913	0	0	0	0	0	4	42	97	14	0	0	0	**157**	*-83*
1914	0	0	0	0	23	42	97	49	0	0	0	0	**211**	*-29*
1915	0	0	0	0	0	10	61	129	8	1	0	0	**209**	*-31*
1916	0	0	0	0	0	22	6	55	7	0	0	0	**90**	*-150*
1917	0	0	0	0	0	6	104	107	14	2	0	0	**233**	*-7*
1918	0	0	0	1	0	65	55	89	43	0	0	0	**253**	*+13*
1919	0	0	0	0	3	1	104	89	1	0	0	0	**198**	*-42*
1920	0	0	0	0	0	12	49	121	7	2	0	0	**191**	*-49*
1921	0	0	0	0	0	26	34	62	0	0	0	0	**122**	*-118*
1922	0	0	0	0	14	32	96	31	36	0	0	0	**209**	*-31*
1923	0	0	0	0	4	26	58	107	30	2	0	0	**227**	*-13*
1924	0	0	0	0	6	27	51	42	17	0	0	0	**143**	*-97*
1925	0	0	0	0	0	47	110	55	9	0	0	0	**221**	*-19*
1926	0	0	0	9	3	87	117	48	7	1	0	0	**272**	*+32*
1927	0	0	0	0	2	15	83	102	11	0	0	0	**213**	*-27*
1928	0	0	0	0	10	7	109	55	4	0	0	0	**185**	*-55*
1929	0	0	0	0	0	11	59	62	10	0	0	0	**142**	*-98*
1930	0	0	0	0	0	7	36	85	8	0	0	0	**136**	*-104*
1931	0	0	0	0	19	10	104	72	32	0	0	0	**237**	*-3*
1932	0	0	0	0	0	57	29	77	15	1	0	0	**179**	*-61*
1933	0	0	0	0	0	9	62	118	1	0	0	0	**190**	*-50*
1934	0	0	0	2	7	16	29	68	20	7	1	0	**150**	*-90*
Norm[1]	***0***	***0***	***0***	***0***	***5***	***19***	***93***	***91***	***30***	***1***	***0***	***0***	**240**	

[1] *Δ norm are the appropriate normal for that time period. Normal at bottom of the table are the 1981-2010 normals.*

Cooling Degree Days

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	Δ norm
1935	0	0	0	0	0	23	83	69	30	0	0	0	**205**	*-35*
1936	0	0	0	0	3	15	27	52	7	0	0	0	**104**	*-136*
1937	0	0	0	0	0	36	83	69	31	0	0	0	**219**	*-21*
1938	0	0	0	0	19	46	189	33	40	1	0	0	**328**	*+88*
1939	0	0	0	0	14	11	128	118	38	0	0	0	**309**	*+69*
1940	0	0	0	0	1	49	67	107	29	15	0	0	**268**	*+28*
1941	0	0	0	0	7	13	164	88	8	0	0	0	**280**	*+40*
1942	0	0	0	0	5	19	102	133	14	0	0	0	**273**	*+33*
1943	0	0	0	0	0	13	95	45	55	5	0	0	**213**	*-27*
1944	0	0	0	0	0	14	93	65	67	0	0	0	**239**	*-1*
1945	0	0	0	0	4	30	118	75	16	0	0	0	**243**	*+3*
1946	0	0	0	0	2	22	106	72	10	0	0	0	**212**	*-28*
1947	0	0	0	0	14	3	40	29	19	0	0	0	**105**	*-135*
1948	0	0	0	0	0	55	52	23	42	0	0	0	**172**	*-68*
1949	0	0	0	0	5	18	63	49	23	0	0	0	**158**	*-82*
1950	0	0	0	0	1	39	105	141	36	2	0	0	**324**	*+84*
1951	0	0	0	0	1	72	89	77	26	0	0	0	**265**	*+25*
1952	0	0	0	0	3	4	112	78	61	2	0	0	**260**	*+20*
1953	0	0	0	0	4	0	53	62	22	0	0	0	**141**	*-99*
1954	0	0	0	0	0	0	11	8	3	0	0	0	**22**	*-218*
1955	0	0	0	0	0	21	24	32	34	0	0	0	**111**	*-129*
1956	0	0	0	0	9	4	105	63	6	0	0	0	**187**	*-53*
1957	0	0	0	2	2	9	24	14	52	0	0	0	**103**	*-137*
1958	0	0	0	0	8	53	193	157	30	2	0	0	**443**	*+203*
1959	0	0	0	0	0	18	143	48	2	1	0	0	**212**	*-28*
1960	0	0	0	0	0	23	135	53	19	0	0	0	**230**	*-10*
1961	0	0	0	0	2	64	102	129	4	3	0	0	**304**	*+64*
1962	0	0	0	0	0	9	75	42	21	0	0	0	**147**	*-93*
1963	0	0	0	0	13	29	14	85	82	0	0	0	**223**	*-17*
1964	0	0	0	0	0	3	91	70	7	0	0	0	**171**	*-69*
1965	0	0	0	0	0	16	133	99	13	0	0	0	**261**	*+21*
1966	0	0	0	0	0	41	86	106	48	0	0	0	**281**	*+41*
1967	0	0	0	0	2	65	129	225	64	0	0	0	**485**	*+245*
1968	0	0	0	0	0	30	128	87	23	0	0	0	**268**	*+28*
1969	0	0	0	0	12	60	72	37	33	0	0	0	**214**	*-26*
1970	0	0	0	0	4	93	173	99	1	0	0	0	**370**	*+130*
1971	0	0	0	0	0	3	119	129	2	0	0	0	**253**	*+13*
1972	0	0	0	0	11	6	156	159	26	0	0	0	**358**	*+118*
1973	0	0	0	0	2	38	119	50	26	0	0	0	**235**	*-5*
1974	0	0	0	0	3	57	127	143	110	0	0	0	**440**	*+200*
1975	0	0	0	0	3	25	135	47	82	1	0	0	**293**	*+53*
1976	0	0	0	0	3	12	101	82	30	3	0	0	**231**	*-9*
1977	0	0	0	0	0	10	52	177	12	0	0	0	**251**	*+11*
1978	0	0	0	0	2	34	101	88	10	0	0	0	**235**	*-5*
1979	0	0	0	0	0	16	111	40	15	0	0	0	**182**	*-58*
1980	0	0	0	0	0	0	91	23	16	12	0	0	**142**	*-98*
1981	0	0	0	1	0	4	63	138	38	0	0	0	**244**	*+4*
1982	0	0	0	0	0	51	59	73	20	0	0	0	**203**	*-37*
1983	0	0	0	0	17	3	23	56	0	0	0	0	**99**	*-141*
1984	0	0	0	0	2	14	69	55	23	5	0	0	**168**	*-72*
Norm	***0***	***0***	***0***	***0***	***5***	***19***	***93***	***91***	***30***	***1***	***0***	***0***	**240**	

Cooling Degree Days

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	Δ norm
1985	0	0	0	0	4	28	166	73	2	0	0	0	**273**	*+33*
1986	0	0	0	0	26	55	20	165	34	0	0	0	**300**	*+60*
1987	0	0	0	0	32	59	48	104	30	4	0	0	**277**	*+37*
1988	0	0	0	0	2	15	127	85	53	8	0	0	**290**	*+50*
1989	0	0	0	1	14	38	47	81	60	0	0	0	**241**	*+1*
1990	0	0	0	0	0	26	192	157	42	0	0	0	**417**	*+177*
1991	0	0	0	0	0	2	101	117	71	1	0	0	**292**	*+52*
1992	0	0	0	2	21	75	115	144	34	0	0	0	**391**	*+151*
1993	0	0	0	0	0	12	9	95	46	5	0	0	**167**	*-73*
1994	0	0	0	0	1	12	166	64	59	0	0	0	**302**	*+62*
1995	0	0	0	0	7	41	135	61	47	0	0	0	**291**	*+51*
1996	0	0	0	0	0	3	176	99	3	2	0	0	**283**	*+43*
1997	0	0	0	0	13	3	69	131	24	0	0	0	**240**	*0*
1998	0	0	0	0	1	0	142	117	50	0	0	0	**310**	*+70*
1999	0	0	0	0	0	5	56	97	26	0	0	0	**184**	*-56*
2000	0	0	0	0	0	34	46	70	32	0	0	0	**182**	*-58*
2001	0	0	0	0	10	3	46	85	43	1	0	0	**188**	*-52*
2002	0	0	0	0	0	19	119	89	20	0	0	0	**247**	*+7*
2003	0	0	0	0	0	44	136	90	55	8	0	0	**333**	*+93*
2004	0	0	0	0	0	29	152	147	1	1	0	0	**330**	*+90*
2005	0	0	0	0	9	6	112	120	10	0	0	0	**257**	*+17*
2006	0	0	0	0	4	37	141	70	23	0	1	0	**276**	*+36*
2007	0	0	0	0	0	4	115	62	24	0	0	0	**205**	*-35*
2008	0	0	0	0	23	31	95	115	29	2	0	0	**295**	*+55*
2009	0	0	0	0	7	10	170	110	33	0	0	0	**330**	*+90*
2010	0	0	0	0	0	1	98	95	31	0	0	0	**225**	*-15*
2011	0	0	0	0	0	0	38	112	81	0	0	0	**231**	*-9*
2012	0	0	0	1	0	11	64	124	30	0	0	0	**230**	*-10*
2013														
2014														
2015														
2016														
2017														
Norm	***0***	***0***	***0***	***0***	***5***	***19***	***93***	***91***	***30***	***1***	***0***	***0***	**240**	
	Jul	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**		

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
2012[1]	**2012[1]**	**2012[1]**	**2011[1]**	**2012[1]**	**2011[1]**	**1916**	**1954**	**1983[1]**	**2012[1]**	**2012[1]**	**2012[1]**	**1954**

Most Monthly and Annual CDD and year of occurrence

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
0	2	0	9	32	93	193	225	110	15	1	0	485
2012[1]	**1902**	**2012[1]**	**1926**	**1987**	**1970**	**1958**	**1967**	**1974**	**1940**	**2006[1]**	**2012[1]**	**1967**

[1]Multiple occurrences, so last year of occurrence listed.