

AIRPORT Portland: 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 normal ¹
1941	0	0	0	0	16	17	209	118	3	0	0	0	363	- 27
1942	0	0	0	0	6	31	152	150	24	0	0	0	364	- 26
1943	0	0	0	0	0	20	101	80	70	0	0	0	276	- 114
1944	0	0	0	0	10	30	116	88	88	0	0	0	332	- 58
1945	0	0	0	0	11	38	150	111	20	0	0	0	330	- 60
1946	0	0	0	0	6	16	115	107	26	0	0	0	270	- 120
1947	0	0	0	1	28	15	76	64	47	0	0	0	234	- 156
1948	0	0	0	0	5	94	90	39	48	0	0	0	276	- 105
1949	0	0	0	0	10	17	76	78	48	0	0	0	229	- 161
1950	0	0	0	0	0	28	88	140	31	0	0	0	287	- 103
1951	0	0	0	0	4	56	91	70	39	0	0	0	260	- 130
1952	0	0	0	0	6	9	116	109	66	8	0	0	314	- 76
1953	0	0	0	0	6	2	79	64	22	0	0	0	173	- 217
1954	0	0	0	0	1	1	11	15	4	0	0	0	32	- 358
1955	0	0	0	0	2	31	36	56	40	0	0	0	165	- 225
1956	0	0	0	0	24	3	124	67	3	0	0	0	221	- 169
1957	0	0	0	6	7	13	49	25	61	0	0	0	161	-229
1958	0	0	0	0	37	77	181	176	30	0	0	0	501	+ 111
1959	0	0	0	0	1	28	145	53	9	0	0	0	236	- 154
1960	0	0	0	0	0	26	151	73	17	0	0	0	267	- 123
1961	0	0	0	0	6	82	153	175	11	4	0	0	431	+ 141
1962	0	0	0	0	0	24	100	60	28	0	0	0	212	- 178
1963	0	0	0	0	18	22	18	68	53	0	0	0	179	- 211
1964	0	0	0	0	2	1	58	49	0	0	0	0	110	- 280
1965	0	0	0	0	0	24	175	132	10	0	0	0	341	- 49
1966	0	0	0	0	6	30	78	102	45	0	0	0	261	- 129
1967	0	0	0	0	5	85	143	255	78	0	0	0	566	+ 176
1968	0	0	0	0	1	33	137	75	27	0	0	0	273	- 117
1969	0	0	0	0	13	102	74	65	43	0	0	0	297	- 93
1970	0	0	0	0	8	106	150	120	8	0	0	0	394	+ 4
1971	0	0	0	0	5	14	170	217	7	2	0	0	416	+ 26
1972	0	0	0	0	27	39	200	221	44	3	0	0	531	+ 141
1973	0	0	0	0	34	65	178	81	45	0	0	0	403	+ 13
1974	0	0	0	0	1	60	102	144	102	0	0	0	409	+ 19
1975	0	0	0	0	12	39	157	57	75	2	0	0	342	- 48
1976	0	0	0	0	4	23	89	66	30	4	0	0	216	- 174
1977	0	0	0	0	0	42	90	233	10	0	0	0	375	- 15
1978	0	0	0	0	3	69	141	112	18	0	0	0	343	- 47
1979	0	0	0	0	18	65	183	124	65	7	0	0	462	+ 72
1980	0	0	0	1	0	2	141	75	35	12	0	0	266	- 124
1981	0	0	0	3	4	16	109	232	82	0	0	0	446	+ 56
1982	0	0	0	0	4	107	103	127	50	0	0	0	391	+ 1

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	Δ normal ¹
1983	0	0	0	0	48	23	80	137	12	0	0	0	300	- 90
1984	0	0	0	0	10	34	140	144	47	6	0	0	381	- 9
1985	0	0	0	0	11	53	291	145	5	0	0	0	505	+ 115
1986	0	0	0	0	40	87	52	235	50	0	0	0	464	+ 74
1987	0	0	0	4	37	102	95	177	77	12	0	0	504	+ 114
1988	0	0	0	0	10	39	147	115	67	8	0	0	386	- 4
1989	0	0	0	0	9	62	53	66	60	0	0	0	250	- 140
1990	0	0	0	2	3	45	206	193	83	0	0	0	532	+ 142
1991	0	0	0	0	0	7	164	176	102	2	0	0	451	+ 61
1992	0	0	0	1	57	114	174	164	31	0	0	0	541	+ 151
1993	0	0	0	0	21	24	22	132	80	3	0	0	282	- 108
1994	0	0	0	0	15	31	210	168	109	0	0	0	533	+ 143
1995	0	0	0	0	23	63	184	92	91	0	0	0	453	+ 63
1996	0	0	0	0	1	25	240	181	25	7	0	0	479	+ 89
1997	0	0	0	0	37	16	134	210	75	0	0	0	472	+ 82
1998	0	0	0	14	4	30	206	197	96	0	0	0	547	+ 157
1999	0	0	0	0	9	41	111	149	68	0	0	0	378	- 12
2000	0	0	0	0	3	78	113	107	50	0	0	0	351	- 39
2001	0	0	0	1	35	28	75	144	64	0	0	0	347	- 43
2002	0	0	0	0	1	69	165	149	57	0	0	0	441	+ 51
2003	0	0	0	0	16	108	212	165	99	14	0	0	614	+ 224
2004	0	0	0	6	8	83	210	211	15	3	0	0	536	+ 146
2005	0	0	0	0	26	22	176	190	25	0	0	0	439	+ 49
2006	0	0	0	1	31	82	199	148	74	0	1	0	536	+ 146
2007	0	0	0	0	22	34	184	114	46	0	0	0	400	+ 10
2008	0	0	0	0	40	58	134	169	73	0	0	0	474	+ 84
2009	0	0	0	0	34	56	281	170	86	0	0	0	627	+ 237
2010	0	0	0	0	0	18	120	131	45	0	0	0	314	-110
2011	0	0	0	0	0	16	73	160	114	0	0	0	363	-61
2012	0	0	0	5	11	24	115	201	79	1	0	0	436	+12
2013	0	0	0	0	15	67	168	203	86	0	0	0	539	+115
2014	0	0	0	3	25	29	220	258	101	17	0	0	653	+229
2015	0	0	0	2	20	185	287	235	51	5	0	0	785	+361
2016	0	0	0	18	31	105	140	224	30	0	0	0	548	+124
2017	0	0	0	0	41	88	164	275	132	0	0	0	700	+276
2018	0	0	0	9	34	73	289	238	48	1	0	0	692	+268
2019	0	0	0	0	28	74	176	216	70	0	0	0	564	+140
2020	0	0	0	0	39	60	180	197	115	9	0	0	600	-176
2021	0	0	0	0	21	217	258	249	93	0	0	0	838	+414
2022	0	0	0	0	0	75	279	321	145	45	0	0	865	+357
2023	0	0	0	12	87	96	269	327	91	16	0	0	898	+390
2024														
2025														
2026														
2027														
2028														
normal	0	0	0	2	21	56	171	181	73	4	0	0	508	C D D
Least	0	0	0	0	0	1	11	15	0	0	0	0	32	
	2023 ¹	2023 ¹	2023 ¹	2022 ¹	2022 ¹	1964 ¹	1954	1954	1964	2021 ¹	2023 ¹	2023 ¹	1954	
Most	0	0	0	18	87	217	291	327	145	45	1	0	865	
	2023 ¹	2023 ¹	2023 ¹	2016	2023	2021	1985	2023	2022	2022	2006	2023 ¹	2022	

¹Last year of multiple occurrences. Departure from normal is from the appropriate normal for that time frame.