

ATLANTA MUNICIPAL, GA, USA

WMO#: 722190

Lat: 33.64N Long: 84.43W Elev: 1027 StdP: 14.16 Time Zone: -5 (NAE) Period: 86-10 WBAN: 13874

Annual Heating and Humidification Design Conditions

Coldest Month	Heating DB			Humidification DP/MCDB and HR						Coldest month WS/MCDB				MCWS/PCWD to 99.6% DB	
				99.6%			99%			0.4%		1%			
	99.6%	99%		DP	HR	MCDB	DP	HR	MCDB	WS	MCDB	WS	MCDB	MCWS	PCWD
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	
1	21.5	26.4	4.2	7.1	28.6	9.1	9.1	32.2	24.9	39.9	23.5	40.0	11.9	320	

Annual Cooling, Dehumidification, and Enthalpy Design Conditions

Hottest Month	Hottest Month DB Range	Cooling DB/MCWB						Evaporation WB/MCDB						MCWS/PCWD to 0.4% DB	
		0.4%		1%		2%		0.4%		1%		2%			
		DB	MCWB	DB	MCWB	DB	MCWB	WB	MCDB	WB	MCDB	WB	MCDB	MCWS	PCWD
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)
7	17.0	93.9	74.2	91.7	73.9	89.8	73.5	77.3	88.5	76.4	86.7	75.4	85.0	8.7	300

Coldest Month	Dehumidification DP/MCDB and HR						Enthalpy/MCDB						Hours 8 to 4 & 55/69		
	0.4%		1%		2%		0.4%		1%		2%				
	DP	HR	MCDB	DP	HR	MCDB	DP	HR	MCDB	Enth	MCDB	Enth		MCDB	Enth
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)
74.3	133.1	81.3	73.3	128.7	80.2	72.6	125.5	79.6	41.4	88.5	40.4	86.7	39.5	85.6	800

Extreme Annual Design Conditions

Extreme Annual WS			Extreme Max WB	Extreme Annual DB				n-Year Return Period Values of Extreme DB							
1%	2.5%	5%		Mean		Standard deviation		n=5 years		n=10 years		n=20 years		n=50 years	
(a)	(b)	(c)		(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)
21.5	19.0	17.1	82.4	14.1	96.7	4.4	3.3	10.9	99.1	8.3	101.0	5.8	102.9	2.6	105.3

Monthly Climatic Design Conditions

		Annual	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)
(5) Temperatures, Degree-Days and Degree-Hours	Tavg	62.9	44.5	47.7	54.8	62.3	70.4	77.2	80.3	79.5	73.8	63.2	54.1	45.6
	Sd		9.42	9.11	8.92	7.69	5.89	4.52	3.46	3.93	5.54	7.10	8.13	8.92
	HDD50	672	222	138	55	8	0	0	0	0	0	4	52	193
	HDD65	2671	637	484	329	135	22	1	0	0	8	118	335	602
	CDD50	5370	50	75	204	378	634	817	938	916	713	414	174	57
	CDD65	1893	0	1	12	55	190	368	473	451	271	63	8	1
	CDH74	16504	0	5	98	467	1453	3331	4587	4215	1985	335	27	1
(12) CDH80	6259	0	0	9	85	390	1340	2009	1760	627	38	1	0	
(13) Precipitation	PrecAvg	50.8	4.8	4.8	5.8	4.3	4.3	3.5	5.0	3.7	3.4	3.0	3.9	4.3
	PrecMax	64.9	10.2	12.8	11.7	11.9	8.4	7.4	8.5	8.7	6.1	7.5	7.2	9.9
	PrecMin	37.7	1.7	0.8	2.4	1.5	0.4	1.0	0.8	0.5	0.7	0.1	0.9	0.7
	PrecSD	7.2	2.1	2.8	2.7	2.4	2.3	1.8	2.2	2.2	1.6	2.1	1.6	2.4
(17) Monthly Design Dry Bulb and Mean Coincident Wet Bulb Temperatures	0.4%	DB	70.5	73.5	80.8	85.8	90.0	94.5	97.8	97.4	92.6	83.7	77.7	72.1
		MCWB	59.7	61.7	62.5	66.1	71.6	73.0	74.7	75.0	72.5	69.4	63.9	63.0
	2%	DB	66.1	69.2	76.7	82.4	86.9	91.8	94.4	93.3	88.8	80.7	73.6	67.5
		MCWB	58.0	58.9	60.1	64.3	69.8	72.9	74.6	74.7	71.4	66.5	62.1	61.0
	5%	DB	62.8	65.9	73.3	79.5	84.3	90.0	91.9	90.9	86.3	78.0	70.8	63.8
		MCWB	56.5	57.1	58.7	62.8	68.7	72.4	74.4	74.6	70.9	64.8	61.0	58.5
	10%	DB	59.3	62.8	69.8	76.2	81.8	87.7	89.5	88.5	83.7	74.9	67.7	60.2
		MCWB	53.1	54.8	57.4	61.5	67.5	71.9	74.3	73.8	70.5	64.0	59.4	54.0
(25) Monthly Design Wet Bulb and Mean Coincident Dry Bulb Temperatures	0.4%	WB	64.0	65.4	66.5	70.8	75.0	77.3	78.8	78.4	76.3	72.7	69.3	66.1
		MCDB	67.3	67.6	73.1	79.1	83.5	88.6	89.7	90.1	85.9	80.0	72.3	69.2
	2%	WB	61.0	62.6	64.1	68.1	72.8	75.8	77.4	77.3	74.6	70.4	66.5	63.1
		MCDB	64.0	66.6	71.5	76.2	82.3	86.5	88.5	88.7	83.0	76.1	70.4	65.9
	5%	WB	58.0	59.9	62.1	66.2	71.3	74.9	76.5	76.3	73.5	68.8	64.0	59.9
		MCDB	61.5	64.1	69.4	74.1	80.4	84.9	86.9	86.5	81.1	73.5	68.0	63.5
	10%	WB	54.6	56.4	59.9	64.2	69.9	73.8	75.4	75.3	72.6	67.0	61.3	55.3
		MCDB	58.0	60.7	66.4	72.2	78.2	83.0	85.1	84.5	79.7	72.0	65.9	58.4
(33) Mean Daily Temperature Range	5% DB	MDBR	17.3	18.1	19.5	20.2	18.5	17.4	17.0	16.5	16.4	18.2	18.3	16.8
		MCDBR	20.4	21.0	23.0	22.8	20.3	20.2	20.5	19.4	19.1	20.3	20.8	19.8
		MCWBR	14.2	13.0	11.4	9.7	7.7	6.5	6.2	6.0	6.8	9.1	11.6	13.9
	5% WB	MCDBR	16.7	17.2	18.0	18.3	17.3	17.3	17.7	17.1	15.6	14.7	16.4	17.1
MCWBR		14.0	13.3	11.6	10.0	7.7	6.8	6.5	6.1	7.0	8.9	12.4	14.3	
(38) Clear Sky Solar Irradiance	taub	0.334	0.324	0.355	0.383	0.379	0.406	0.440	0.427	0.388	0.358	0.354	0.335	
		2.614	2.580	2.474	2.328	2.324	2.270	2.202	2.269	2.428	2.514	2.523	2.618	
	Edh,noon	281	296	292	287	288	278	268	270	277	279	269	273	
		24	28	33	40	41	43	46	42	34	29	26	23	