

2021 ASHRAE Handbook - Fundamentals (SI)																	
CORRIENTES, ARGENTINA (WMO: 871660)																	
Lat:27.4497S			Long:58.7597W			Elev:62		StdP: 100.58			Time zone:-3.00 (W03)			Period:96-19		WBAN:99999	
Annual Heating, Humidification, and Ventilation Design Conditions																	
Coldest Month	Heating DB		Humidification DP/MCDB and HR						Coldest month WS/MCDB				MCWS/PCWD to 99.6% DB		WSF		
			99.6%			99%			0.4%		1%						
	99.6%	99%	DP	HR	MCDB	DP	HR	MCDB	WS	MCDB	WS	MCDB	MCWS	PCWD			
7	4.5	6.0	-1.6	3.3	10.3	0.2	3.8	10.7	11.2	19.9	9.6	19.3	2.2	160	0.388		
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		
1	10.6	36.9	24.5	35.7	24.6	34.2	24.3	27.2	32.6	26.6	31.9	26.1	31.2	5.3	20		
Dehumidification DP/MCDB and HR									Enthalpy/MCDB						Extreme Max WB		
0.4%			1%			2%			0.4%		1%		2%				
DP	HR	MCDB	DP	HR	MCDB	DP	HR	MCDB	Enth	MCDB	Enth	MCDB	Enth	MCDB			
26.0	21.5	30.4	25.2	20.4	29.6	24.8	20.0	29.2	86.9	32.8	84.1	32.0	81.4	31.5	29.9		
Extreme Annual Design Conditions																	
Extreme Annual WS				Extreme Annual Temperature				n-Year Return Period Values of Extreme Temperature									
				Mean		Standard deviation		n=5 years		n=10 years		n=20 years		n=50 years			
				1%	2.5%	5%	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	
9.8	8.5	7.4	DB	1.4	39.4	1.4	1.3	0.4	40.3	-0.4	41.0	-1.2	41.8	-2.3	42.7		
			WB	0.4	28.4	1.6	0.8	-0.8	29.0	-1.7	29.5	-2.6	29.9	-3.7	30.5		
Monthly Climatic Design Conditions																	
			Annual	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Temperatures, Degree-Days and Degree-Hours	DBAvg	21.8	27.3	26.8	25.1	22.2	18.5	16.7	16.1	17.8	19.5	22.5	24.0	26.0			
	DBStd	5.48	2.54	2.90	3.06	3.66	4.08	4.64	5.02	5.14	4.54	3.77	3.10	2.88			
	HDD10.0	10	0	0	0	0	1	2	5	2	0	0	0	0			
	HDD18.3	377	0	0	1	8	50	88	107	77	38	6	2	0			
	CDD10.0	4329	535	471	467	367	263	203	193	243	284	388	418	496			
	CDD18.3	1654	277	238	209	126	54	38	37	59	73	136	170	238			
	CDH23.3	15837	3092	2558	1919	951	308	178	221	517	682	1217	1646	2548			
	CDH26.7	6933	1522	1221	834	342	72	34	49	191	271	510	681	1206			
Wind		WSAvg	3.5	3.3	3.4	3.2	3.1	3.0	3.1	3.4	3.9	4.1	4.2	3.8	3.5		
Precipitation	PrecAvg	1460	168	147	162	189	87	65	43	54	74	144	160	153			
	PrecMax	2165	562	281	475	515	307	215	120	209	262	350	489	423			
	PrecMin	913	40	17	30	33	4	4	3	0	5	29	16	30			
	PrecStd	356	102	72	92	125	66	52	29	41	55	78	85	99			
Monthly Design Dry Bulb and Mean Coincident Wet Bulb Temperatures	0.4%	DB	38.0	38.0	37.1	34.2	31.2	29.8	30.1	33.4	36.1	37.6	36.3	37.9			
		MCWB	24.9	24.6	24.1	24.4	23.5	22.2	20.8	21.5	22.7	24.7	24.7	23.7			
	2%	DB	36.1	36.1	34.9	32.2	28.8	27.6	28.1	31.1	32.8	34.2	33.9	35.9			
		MCWB	24.9	25.0	24.5	24.2	22.5	21.7	20.2	21.0	21.9	24.3	24.0	24.4			
	5%	DB	34.9	34.7	32.9	30.4	26.5	25.2	26.1	28.9	29.8	31.7	32.1	34.2			
		MCWB	24.9	24.9	24.4	23.4	21.3	20.9	19.6	20.3	20.9	23.4	23.0	24.1			
	10%	DB	33.2	32.9	31.1	28.4	24.8	23.2	23.7	26.1	27.1	29.2	30.5	32.7			
		MCWB	24.5	24.4	23.8	22.4	20.5	19.8	18.9	19.2	19.4	21.6	22.3	23.7			
Monthly Design Wet Bulb and Mean Coincident Dry Bulb Temperatures	0.4%	WB	28.1	28.0	27.3	26.6	24.6	23.5	22.7	23.5	24.5	26.7	27.2	27.5			
		MCDB	33.6	33.1	32.2	31.5	28.9	27.8	27.4	30.8	32.0	32.8	32.3	33.5			
	2%	WB	27.1	27.0	26.4	25.6	23.4	22.2	21.3	22.0	23.2	25.3	25.9	26.6			
		MCDB	32.7	31.8	31.3	30.3	27.3	26.0	25.7	28.7	30.2	32.1	31.2	32.3			
	5%	WB	26.4	26.3	25.7	24.6	22.2	21.2	20.1	20.9	21.9	24.2	24.8	26.0			
		MCDB	31.7	31.2	30.4	29.0	25.6	24.5	24.6	27.5	27.5	30.6	29.9	31.2			
	10%	WB	25.8	25.6	24.9	23.6	21.2	20.3	19.2	19.6	20.7	23.1	23.8	25.2			
		MCDB	30.8	30.5	29.3	27.1	24.0	23.1	23.3	25.5	26.0	28.1	28.5	30.2			

Mean Daily Temperature Range		MDBR	10.6	10.2	10.2	9.5	8.9	8.6	10.0	11.2	11.6	10.4	10.8	10.8
	5% DB	MCDBR	12.9	12.2	12.9	11.8	10.4	9.6	11.3	13.7	14.5	13.6	13.2	13.2
		MCWBR	4.3	4.1	4.7	5.0	5.1	4.9	5.4	6.0	6.3	5.8	5.3	4.6
	5% WB	MCDBR	10.4	9.5	9.9	9.9	8.7	9.1	10.6	12.7	12.5	12.1	10.4	10.1
		MCWBR	4.5	4.1	4.6	4.9	4.6	5.0	6.0	6.1	6.3	5.8	5.3	4.6
Clear Sky Solar Irradiance	taub		0.410	0.408	0.396	0.393	0.374	0.392	0.386	0.479	0.544	0.477	0.403	0.412
	taud		2.400	2.411	2.428	2.415	2.426	2.362	2.360	2.044	1.889	2.148	2.376	2.376
	Ebn at noon		934	919	898	851	820	774	798	750	750	846	934	934
	Edn at noon		127	123	114	106	95	97	100	151	193	158	130	131
All-Sky Solar Radiation	RadAvg		6.78	6.21	5.33	4.13	3.23	2.65	3.15	3.84	4.65	5.43	6.54	6.77
	RadStd		0.56	0.42	0.38	0.44	0.40	0.23	0.28	0.34	0.57	0.59	0.49	0.50
Historical Trends														
		DBAvg	Heating		Cooling			Degree-Days						
			99% DB	99% DP	1% DB	1% WB	1% DP	HDD10.0	HDD18.3	CDD10.0	CDD18.3			
Station Only		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Regional (0 neighbors)		N/A	N/A	N/A	+0.43	N/A	N/A	N/A	N/A	N/A	N/A			

CDDn	Cooling degree-days base n°C, °C-day	Lat	Latitude, °	Period	Years used to calculate the design conditions
CDHn	Cooling degree-hours base n°C, °C-hour	Long	Longitude, °	Sd	Standard deviation of daily average temperature, °C
DB	Dry bulb temperature, °C	MCDB	Mean coincident dry bulb temperature, °C	StdP	Standard pressure at station elevation, kPa
DP	Dew point temperature, °C	MCDBR	Mean coincident dry bulb temp. range, °C	taub	Clear sky optical depth for beam irradiance
Ebn,noon	Clear sky beam normal and diffuse horizontal irradiances at solar noon, W/m2	MCDP	Mean coincident dew point temperature, °C	taud	Clear sky optical depth for diffuse irradiance
Edh,noon		MCWB	Mean coincident wet bulb temperature, °C	Tavg	Average temperature, °C
Elev	Elevation, m	MCWBR	Mean coincident wet bulb temp. range, °C	Time Zone	Hours ahead or behind UTC
Enth	Enthalpy, kJ/kg	MCWS	Mean coincident wind speed, m/s	WB	Wet bulb temperature, °C
HDDn	Heating degree-days base n°C, °C-day	MDBR	Mean dry bulb temp. range, °C	Hours 8/4 & 12.8/20.6	Number of hours between 8 a.m. and 4 p.m with DB between 12.8 and 20.6 °C
PCWD	Prevailing coincident wind direction, °, 0 = North, 90 = East	WS	Wind speed, m/s	HR	Humidity ratio, g of moisture per kg of dry air