

Field work days	22-Jan-15	2-Apr-15	10-Jun-14	12-Jun-14	19-Jun-14	7-Nov-14
Mean temperature [°C]	14.0	24.0	36.0	34.0	32.0	22.0
Max temperature [°C]	18.0	31.0	43.0	42.0	39.0	29.0
Wind velocity [ms ⁻¹]	4.6	4.1	3.9	3.2	2.6	2.2
Seasonal normals	DJF	MAM	JJA	JJA	JJA	SON
Normal daily mean temperature [°C]	14.0	23.0	33.9	33.9	33.9	24.7
Normal daily max temperature [°C]	20.0	29.8	40.4	40.4	40.4	31.1
Normal mean wind velocity [ms ⁻¹]	2.4	3.0	3.0	3.0	3.0	2.7
Percent possible sunshine [%]	79.3	89.3	89.0	89.0	89.0	86.7
Difference from seasonal normals						
Mean temperature [°C]	0.0	1.0	2.1	0.1	-1.9	-2.7
Max temperature [°C]	-2.0	1.2	2.6	1.6	-1.4	-2.1
Wind velocity [ms ⁻¹]	2.2	1.1	0.9	0.2	-0.4	-0.5

Table 1: Comparison of conditions on field work days to seasonal normals (Phoenix KPHX weather station, 30 year normals (1981-2010), NCDC).

		Surface Temperature	WBG T	Globe Temperature	Air Temperature	Relative Humidity	Dew Point	Heat Index	Wind Speed	K_up	K_down	Ne
		[°C]	[°C]	[°C]	[°C]	[%]	[°C]	[°C]	[m/s]	[Wm-2]	[Wm-2]	[W
22-Jan-15	AVE	16.5	10.4	18.8	15.6	15.3	-9.6	12.7	1.1	33.7	129.9	
	SD	5.9	2.4	5.5	2.3	3.6	1.3	1.9	1.4	39.3	192.5	
	MIN	3.0	6.4	11.1	10.8	12.4	-12.2	9.1	0.0	0.0	0.0	
	MAX	35.0	18.7	32.8	19.3	26.2	-6.5	18.0	2.4	134.2	610.0	
2-Apr-15	AVE	27.9	19.2	30.5	27.3	16.0	0.6	24.8	0.5	35.2	161.6	
	SD	6.7	2.5	5.1	3.0	3.8	2.5	2.7	0.3	42.3	238.7	
	MIN	13.0	14.2	21.9	20.5	12.2	-4.0	18.4	0.0	0.0	0.0	
	MAX	47.0	25.1	43.3	30.6	25.3	6.3	30.0	1.4	150.4	849.0	
June 10, 12, 19, 2014	AVE	38.9	24.4	37.5	34.8	16.6	5.6	35.7	0.6	70.8	284.7	
	SD	8.5	2.6	5.7	3.1	3.5	2.3	4.3	0.4	55.2	343.2	
	MIN	20.0	19.9	29.2	28.3	11.0	2.2	25.8	0.0	26.5	25.2	
	MAX	64.0	31.8	51.7	43.0	33.3	13.0	44.3	1.9	195.0	972.0	
7-Nov-14	AVE	22.9	18.2	26.8	24.3	20.0	4.7	22.4	0.3	27.3	99.0	
	SD	5.8	2.8	6.1	3.1	5.8	1.1	2.8	0.4	40.6	175.7	
	MIN	12.0	13.9	18.6	18.2	18.7	2.3	16.6	0.0	0.0	0.0	
	MAX	39.0	27.0	44.7	30.8	40.3	8.1	29.9	2.0	133.6	641.4	

Table 2: Descriptive statistics of the observed variables in each season

	β	t	p
(Constant)		-25.784	0.000**
WBGT	0.301	1.750	0.080
Air Temperature	0.212	1.432	0.152
Water Vapor Pressure	-0.059	-1.159	0.247
Surface Temperature	-0.069	-1.052	0.293
K↓	-0.154	-1.843	0.066
K↑	0.107	1.116	0.265
Globe temperature	0.356	2.906	0.004**

Table 3: Multiple regression analysis ($N=1284$) to determine which meteorological observations significantly impact thermal comfort (** $p < .01$).