Ayotunde Ogunmoyero

Environmental Systems 1

Philadelphia Weather Report 2

10/7/17

Station Location: Philadelphia International Airport, PA

Elevation: 6 ft

THE PHILADELPHIA PA CLIMATE SUMMARY FOR OCTOBER 6 2017

WEATHER ITEM	OBSERVED VALUE	TIME (LS:	RECORD VALUE	YEAR	NORMAL VALUE	DEPARTURE FROM NORMAL	LAST YEAR
TEMPERATURE (F TODAY MAXIMUM MINIMUM AVERAGE	82 67 75	148 725		1941 1965		12 15 14	76 56 66
PRECIPITATION TODAY 0.00 MONTH TO DAT 0.02 SINCE SEP 1 3.54 SINCE JAN 1 28.39	0.00		1.48	1873	0.11 0.67 4.45 32.47	-0.67 -0.59	
SNOWFALL (IN) TODAY MONTH TO DAT SINCE SEP 1 SINCE JUL 1 SNOW DEPTH	0.0 0.0 0.0 0.0		0.0	ММ	0.0 0.0 0.0		0.0 0.0 0.0

DEGREE DAYS

HEATING				
TODAY	0	5	- 5	0
MONTH TO DATE	9	27	-18	8
SINCE SEP 1	23	64	-41	18
SINCE JUL 1	23	65	-42	18
COOLING				
TODAY	10	1	9	1
MONTH TO DATE	17	10	7	5
SINCE SEP 1	231	171	60	277
SINCE JAN 1	1421	1288	133	1689
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WIND (MPH)

HIGHEST WIND SPEED 13 HIGHEST WIND DIRECTION SW (230) HIGHEST GUST SPEED 16 HIGHEST GUST DIRECTION SW (240) AVERAGE WIND SPEED 5.1

SKY COVER

POSSIBLE SUNSHINE MM AVERAGE SKY COVER 0.7

WEATHER CONDITIONS

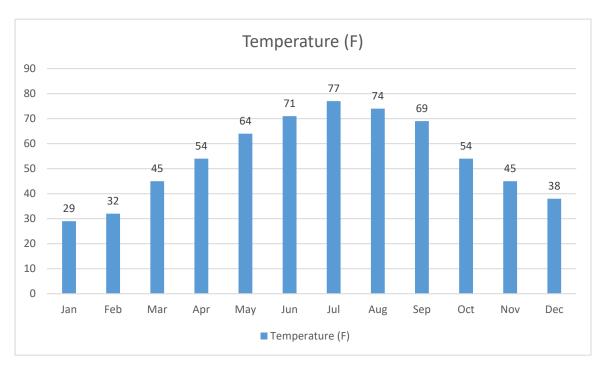
THE FOLLOWING WEATHER WAS RECORDED TODAY.
NO SIGNIFICANT WEATHER WAS OBSERVED.

RELATIVE HUMIDITY (PERCENT)

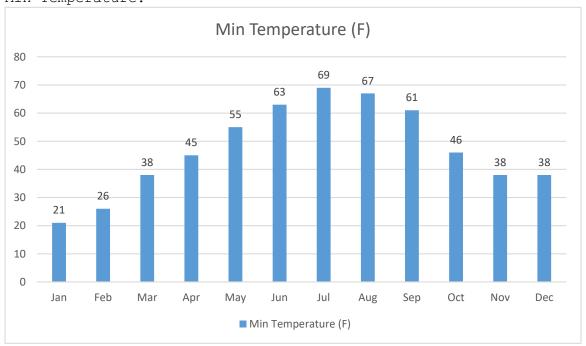
HIGHEST 87 500 AM LOWEST 54 100 PM AVERAGE 71

THE PHILADELPHIA PA CLIMATE SUMMARY FOR AN AVERAGE YEAR

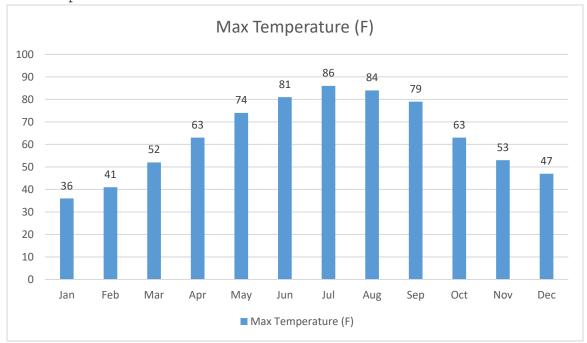
Temperature:



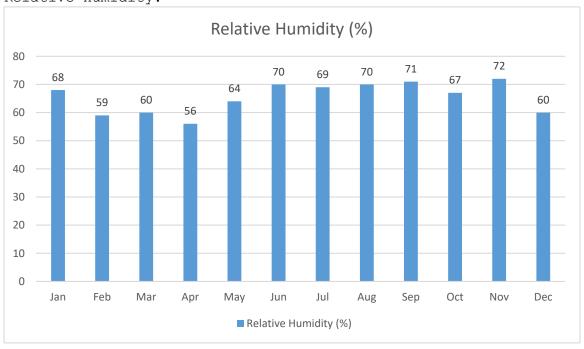
Min Temperature:



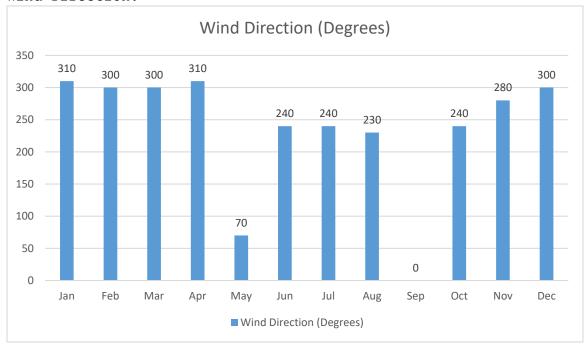
Max Temperature:



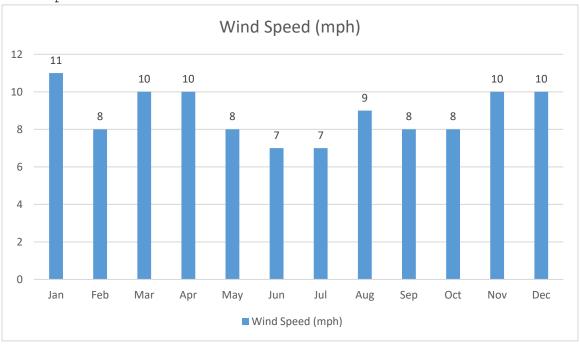
Relative Humidity:



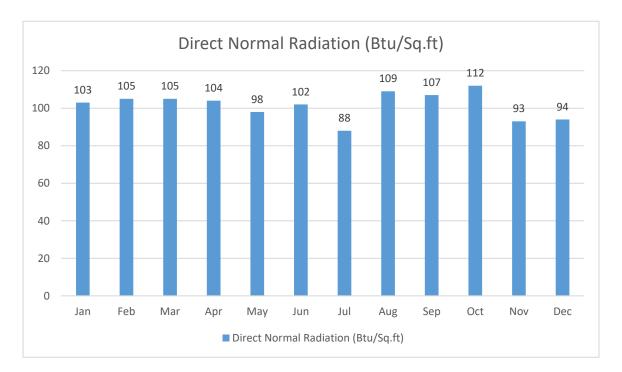
Wind Direction:



Wind Speed:



Direct Normal Radiation:



Passive Design Strategies:

Three important passive design strategies to consider in Philadelphia are:

- 1. Shading. Good use of window shading that allows the winter sun while blocking out the summer sun is very important.
- 2. Cross ventilation. Orient the building's opening to pick up summer winds as well as have an exhaust to allow the old/hot air to pass through.
- 3. Thermal Mass. This key strategies entail building up mass intended to retain inside heat in the winter and resist outside heat in the summer.