

Ayotunde Ogunmoyero

Environmental Systems 1

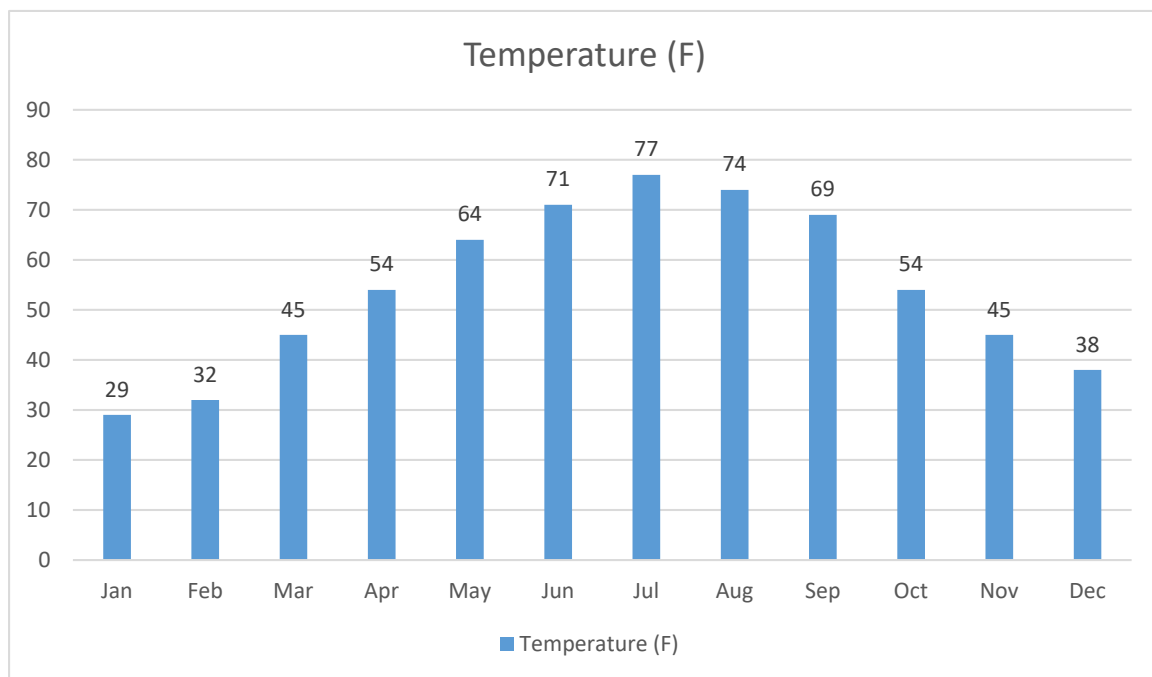
Philadelphia Weather Report

8/31/17

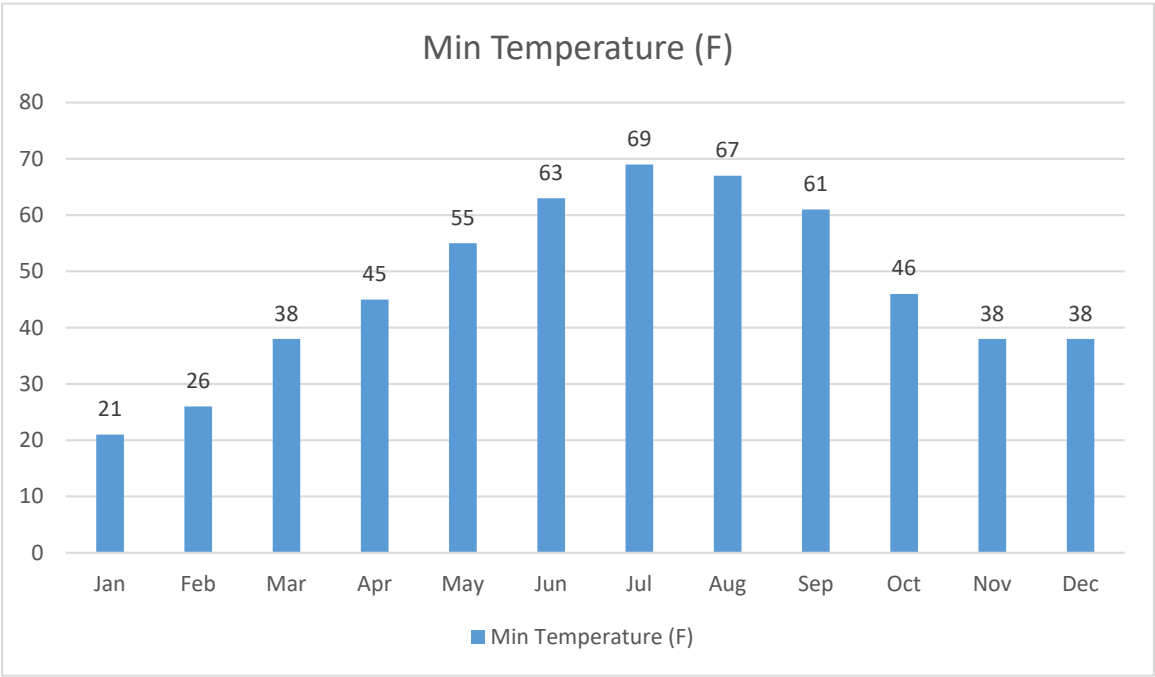
Station Location: Philadelphia International Airport, PA

Elevation: 6 ft

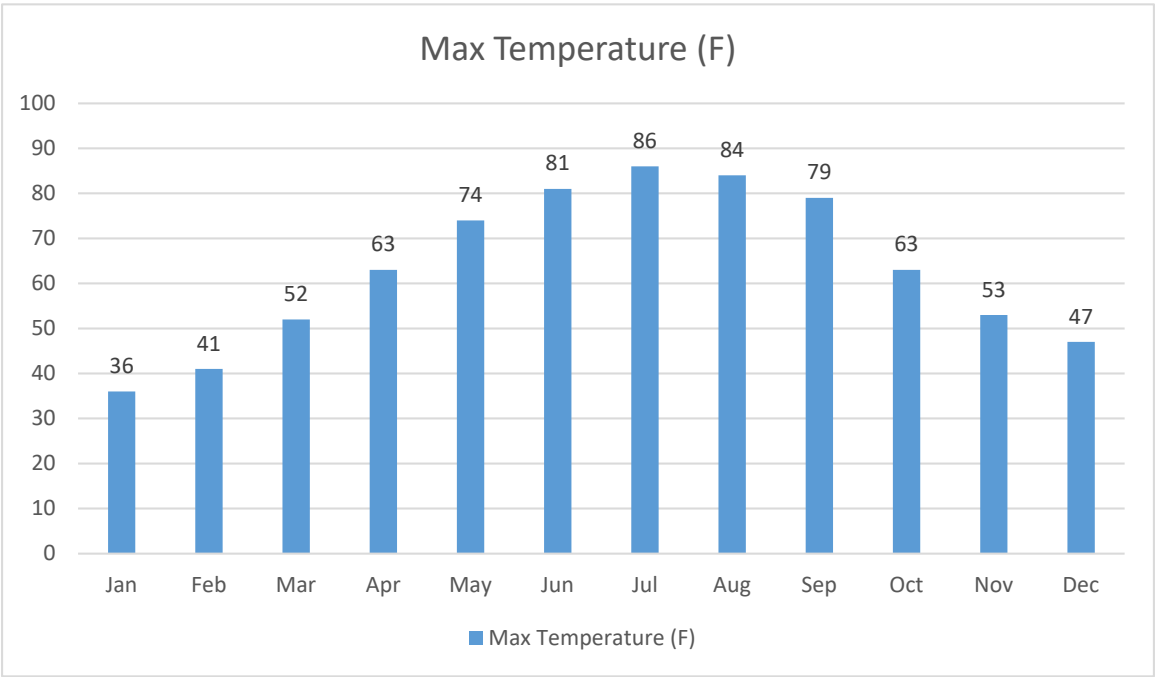
Temperature:



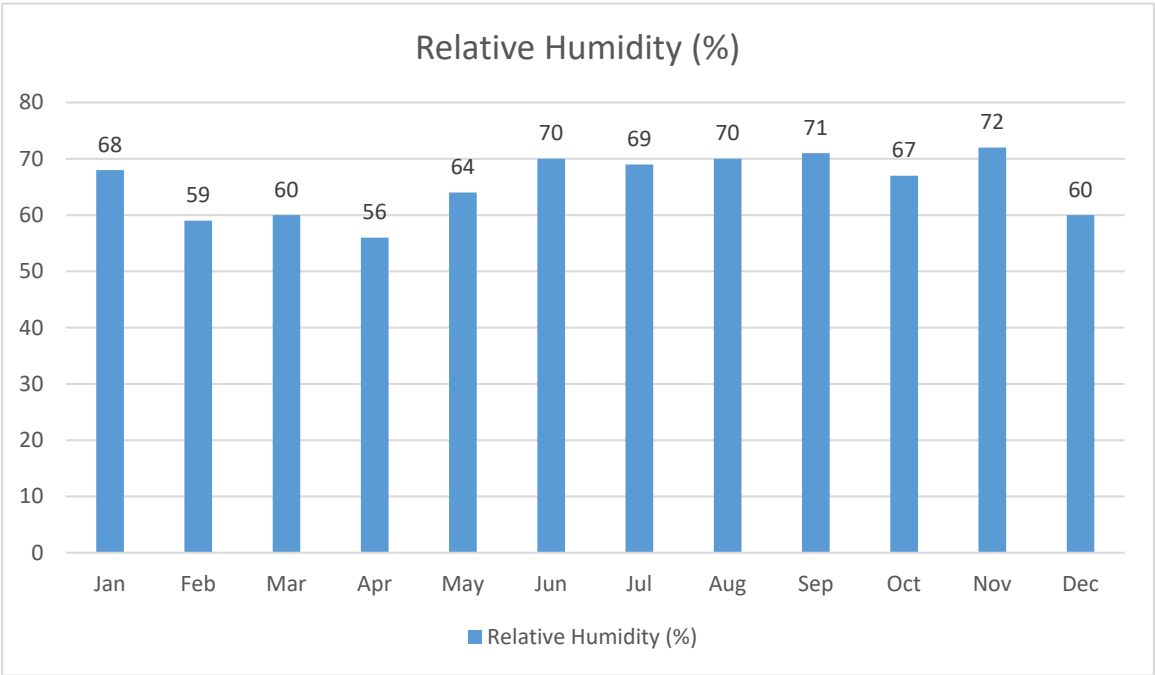
Min Temperature:



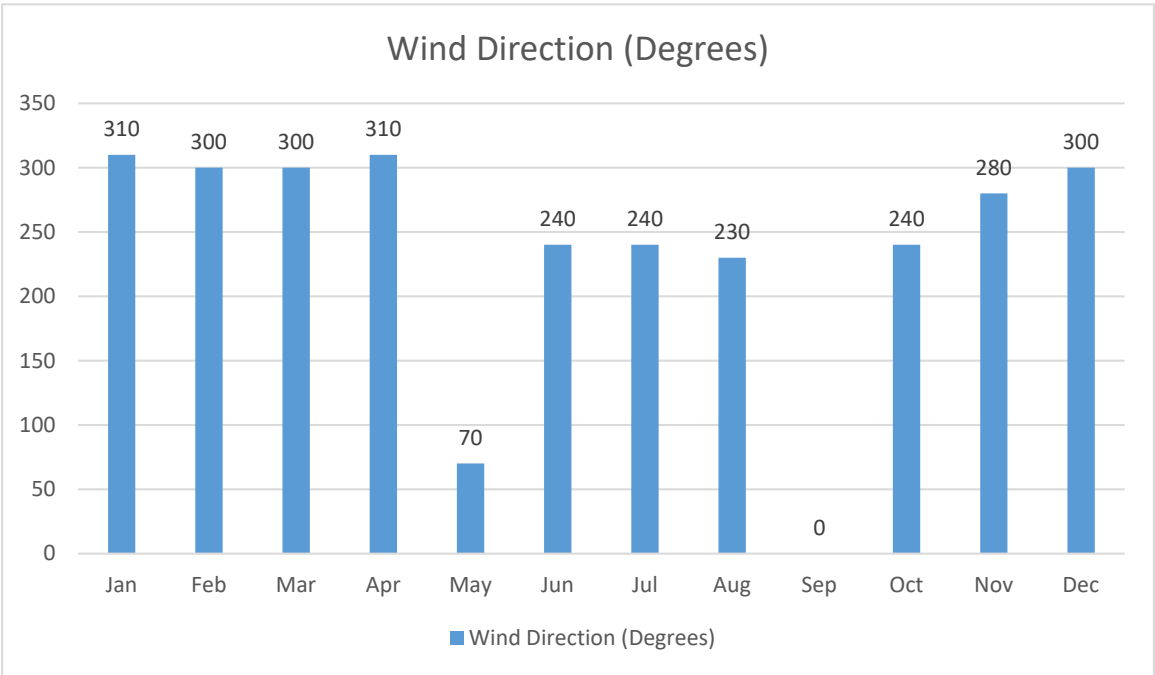
Max Temperature:



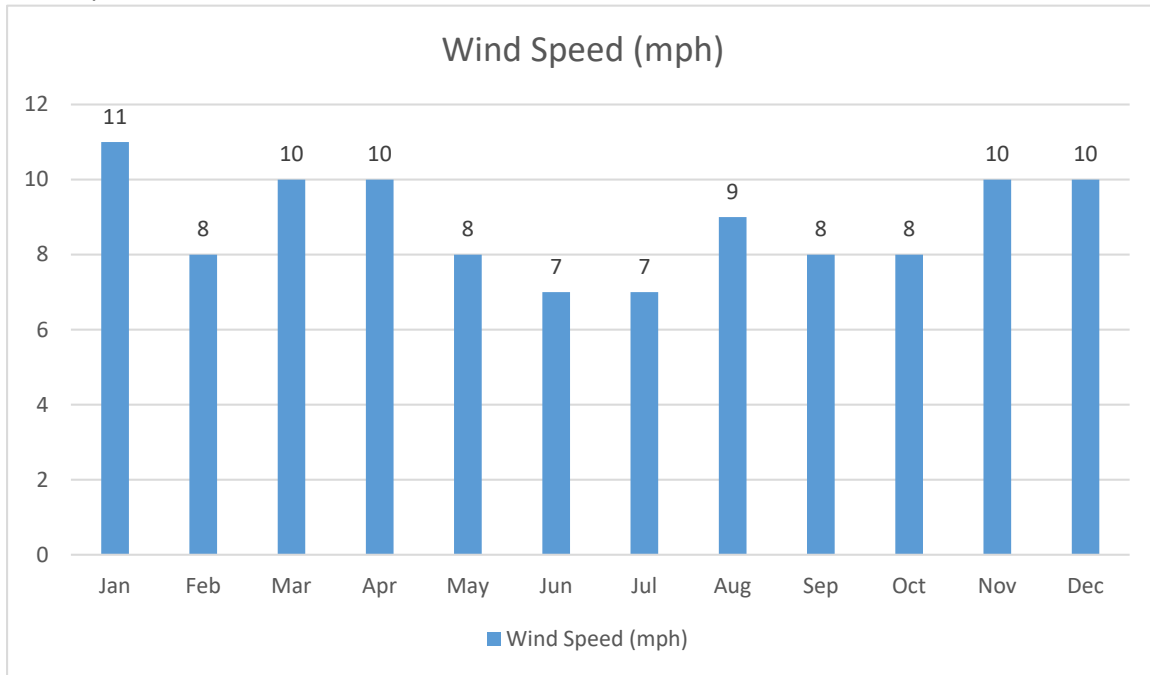
Relative Humidity:



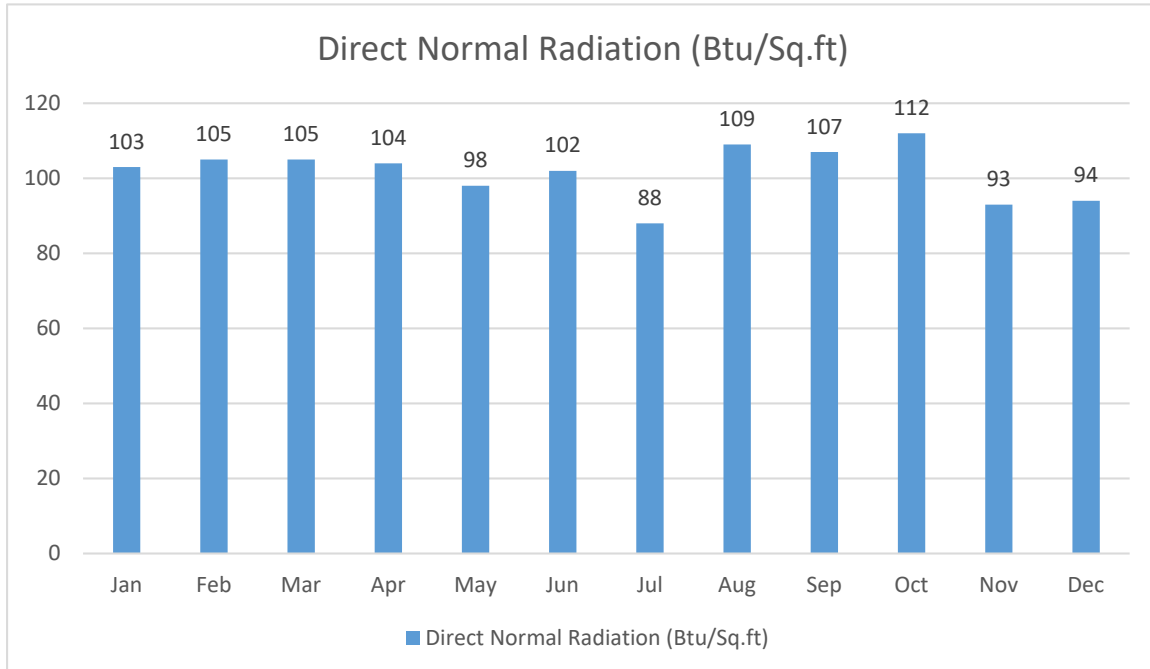
Wind Direction:



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.