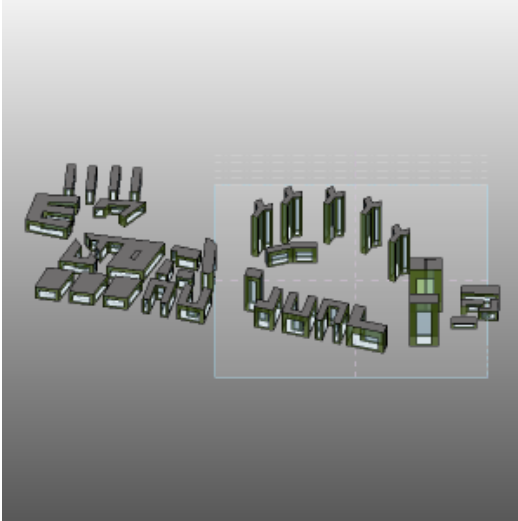


Project1

Project1 Analysis (1)

Analyzed at 12/19/2011 2:45:19 PM

Mass



Building Performance Factors

Location:	44.7920074462891,20.4591598510742
Weather Station:	53158
Outdoor Temperature:	Max: 82°F/Min: -10°F
Floor Area:	15,295 sf
Exterior Wall Area:	93,461 sf
Average Lighting Power:	0.70 W / ft ²
People:	36 people
Exterior Window Ratio:	0.39
Electrical Cost:	\$0.09 / kWh
Fuel Cost:	\$0.78 / Therm

Energy Use Intensity

Electricity EUI:	31 kWh / sf / yr
Fuel EUI:	315 kBtu / sf / yr
Total EUI:	421 kBtu / sf / yr

Life Cycle Energy Use/Cost

Life Cycle Electricity Use:	14,257,557 kWh
Life Cycle Fuel Use:	1,445,916 Therms
Life Cycle Energy Cost:	\$1,122,265

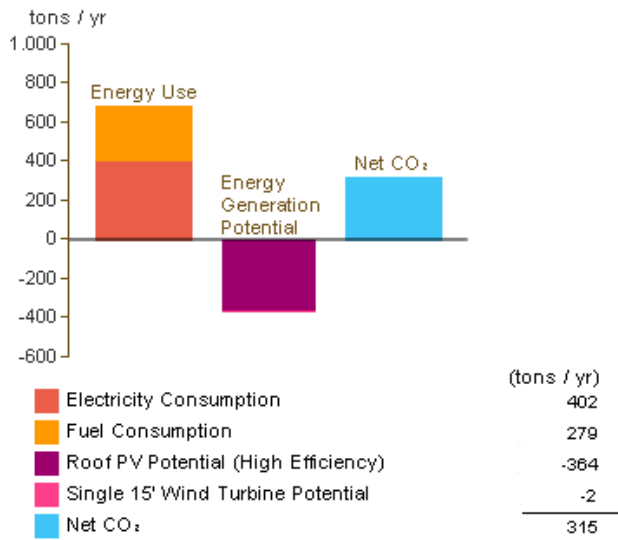
*30-year life and 6.1% discount rate for costs

Renewable Energy Potential

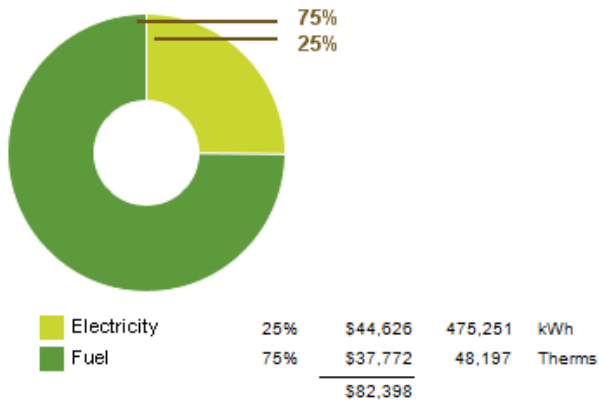
Roof Mounted PV System (Low efficiency):	143,378 kWh / yr
Roof Mounted PV System (Medium efficiency):	286,755 kWh / yr
Roof Mounted PV System (High efficiency):	430,133 kWh / yr
Single 15' Wind Turbine Potential:	2,969 kWh / yr

*PV efficiencies are assumed to be 5%, 10% and 15% for low, medium and high efficiency systems

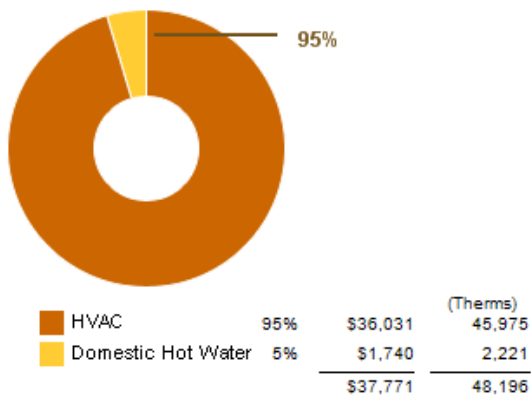
Annual Carbon Emissions



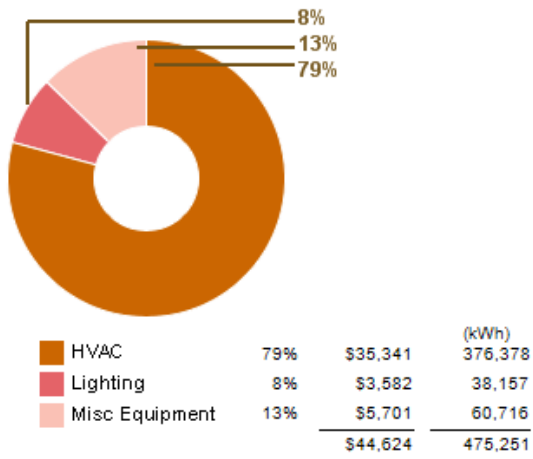
Annual Energy Use/Cost



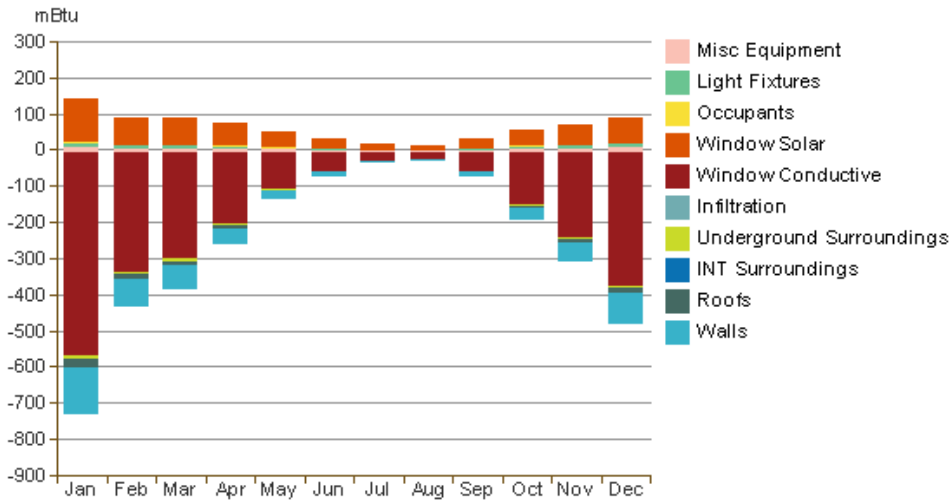
Energy Use: Fuel



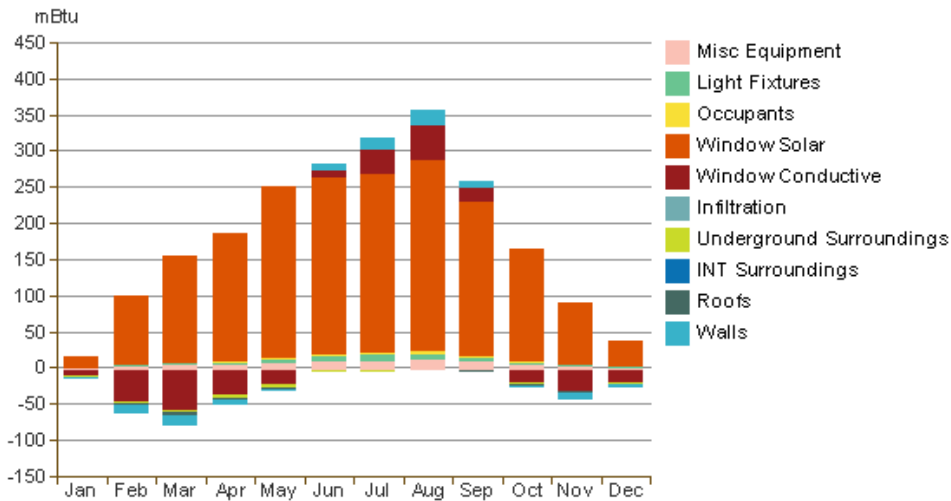
Energy Use: Electricity



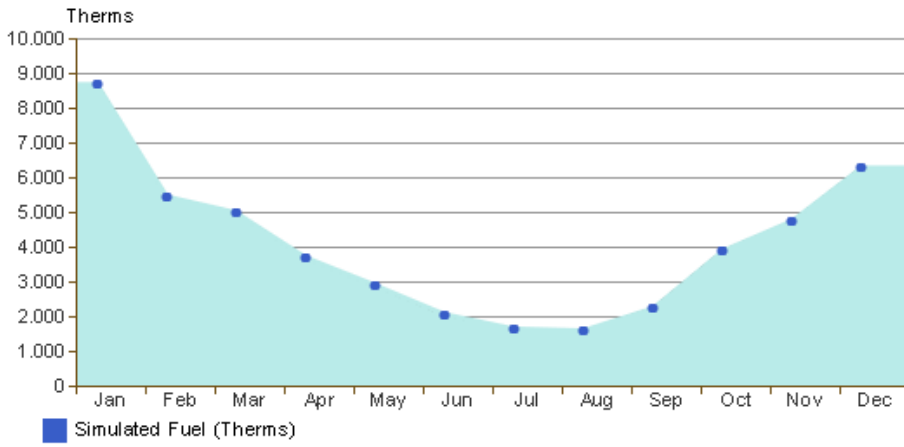
Monthly Heating Load



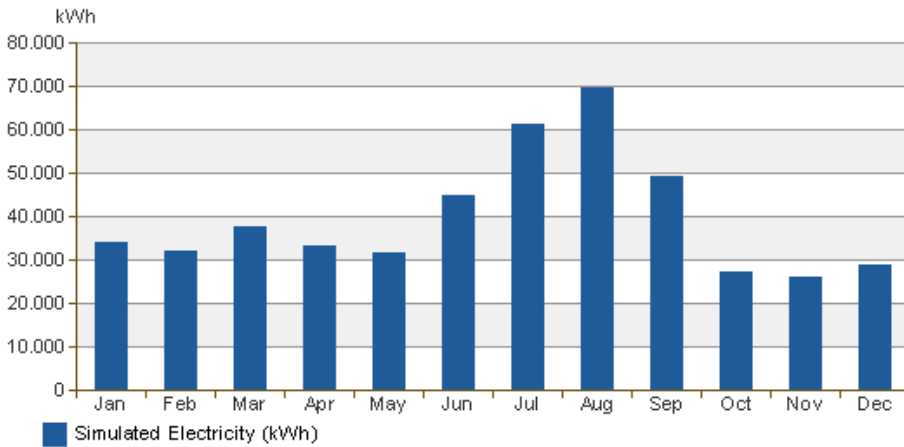
Monthly Cooling Load



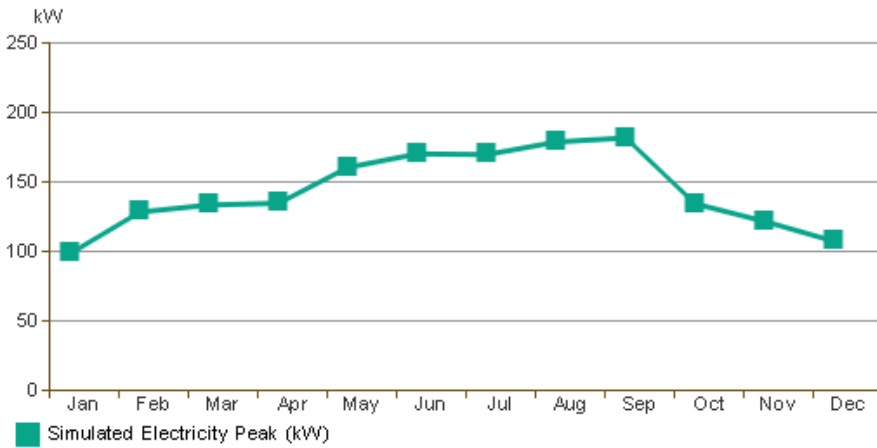
Monthly Fuel Consumption



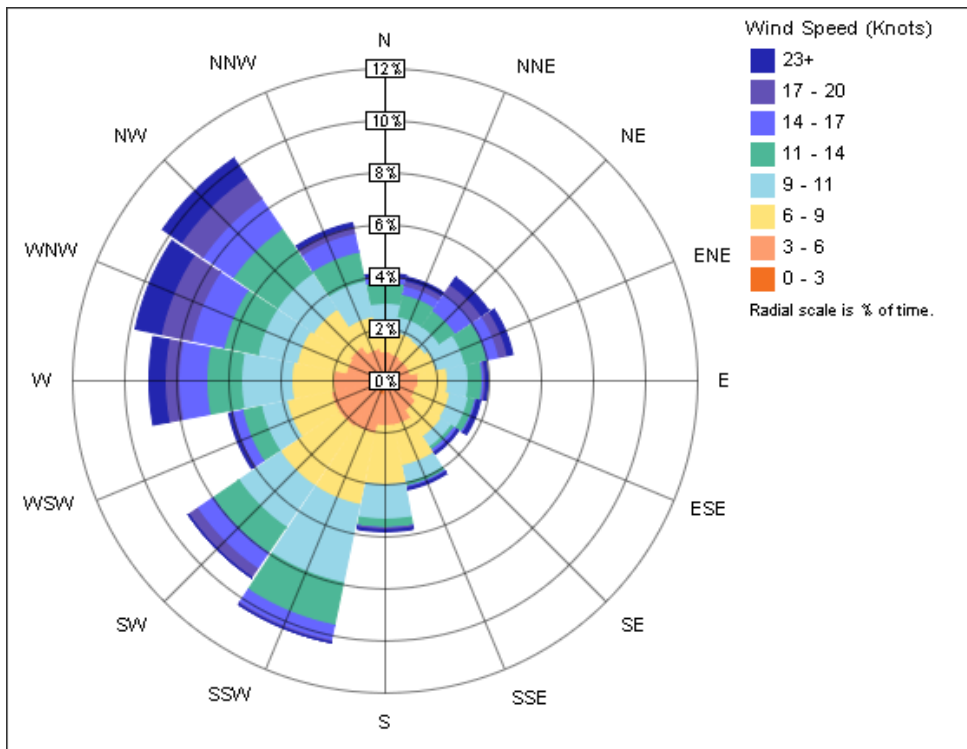
Monthly Electricity Consumption



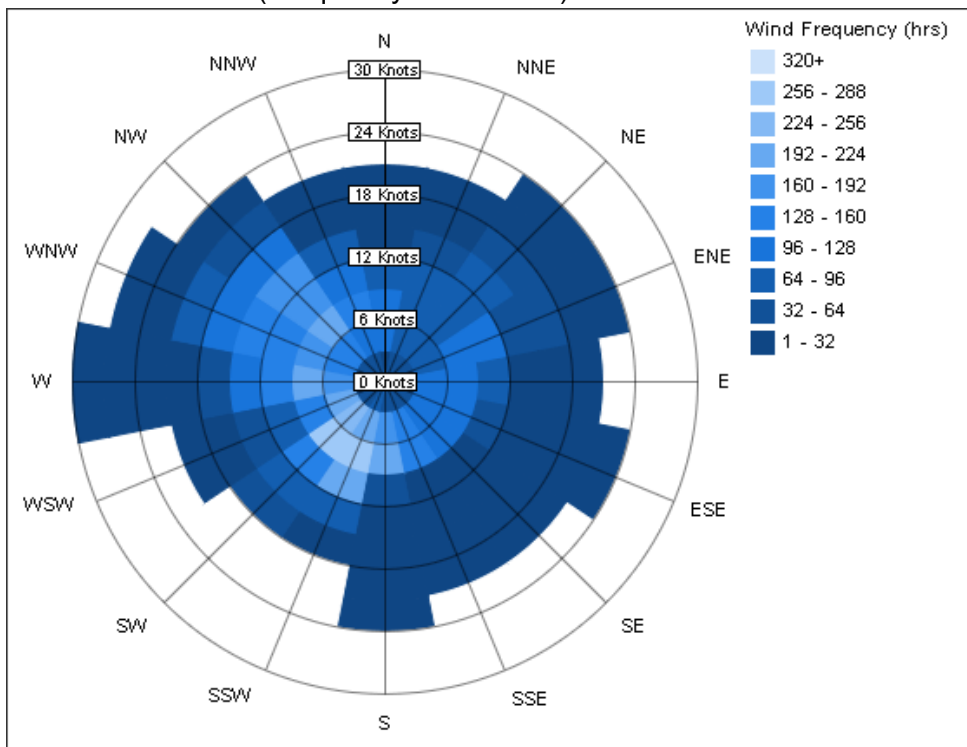
Monthly Peak Demand



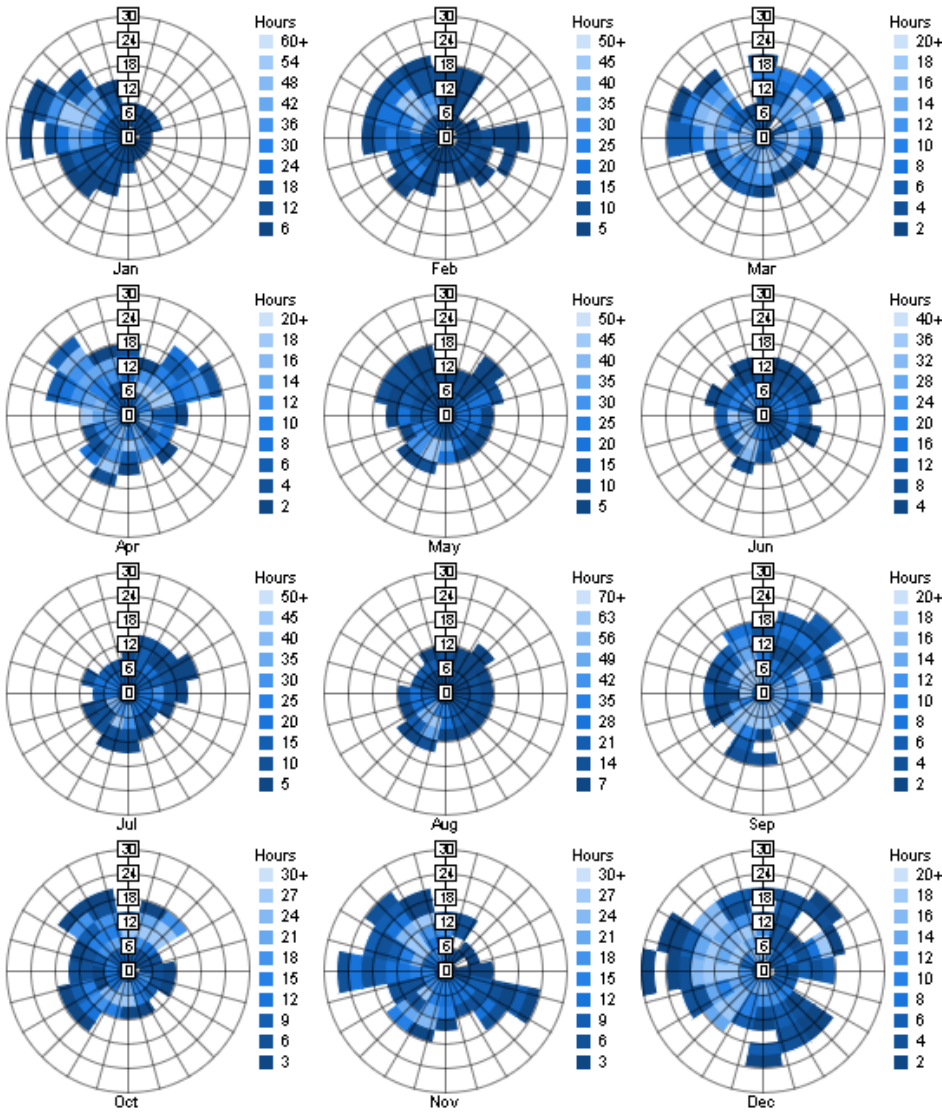
Annual Wind Rose (Speed Distribution)



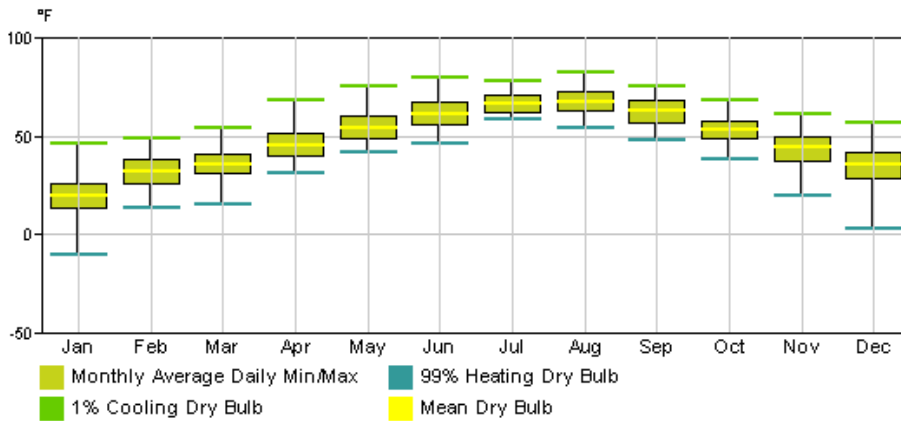
Annual Wind Rose (Frequency Distribution)



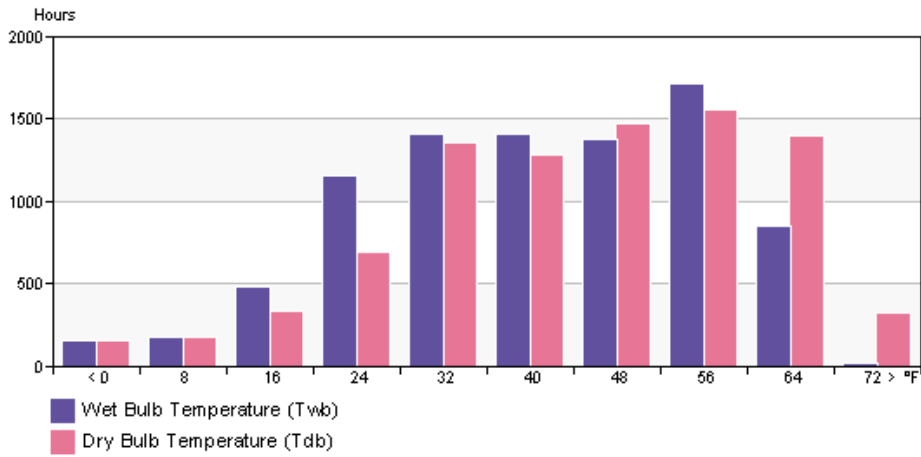
Monthly Wind Roses



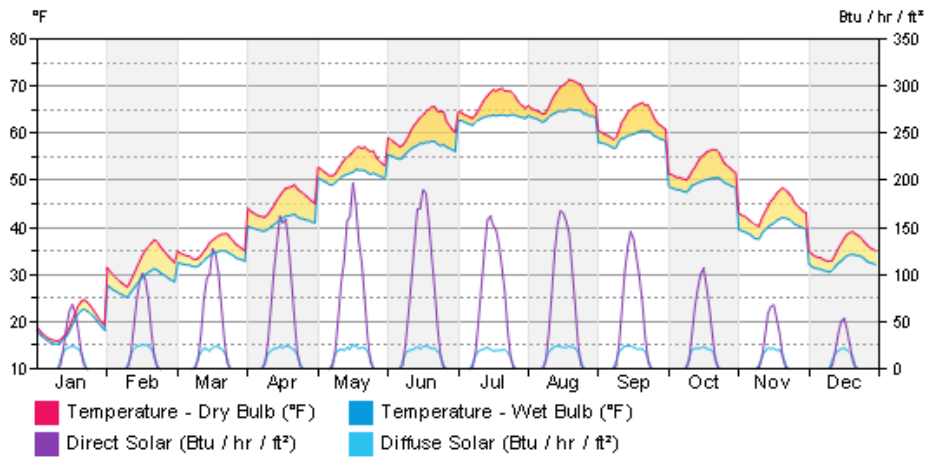
Monthly Design Data



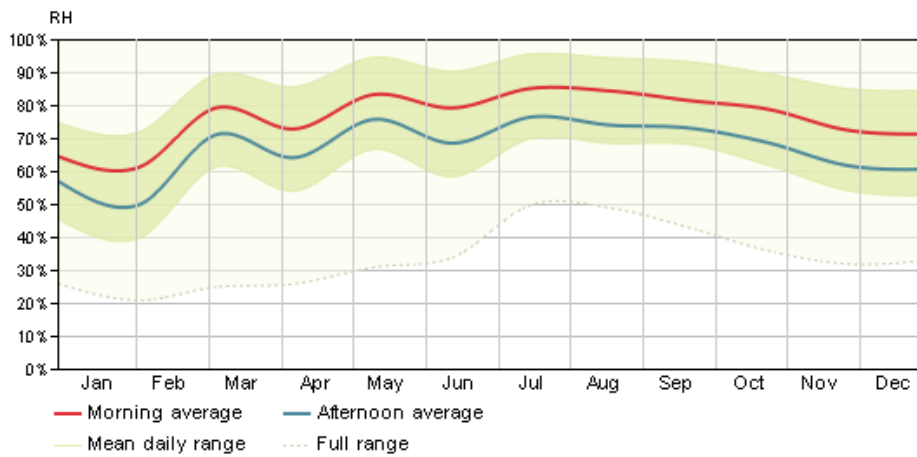
Annual Temperature Bins



Diurnal Weather Averages



Humidity



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