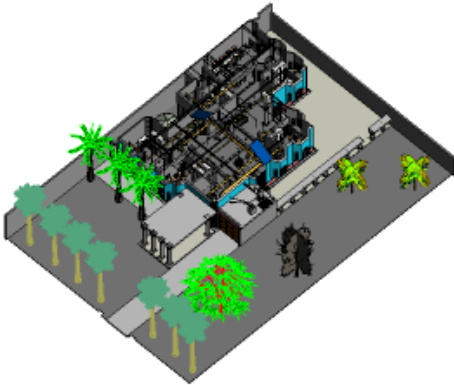


house

testing

Analyzed at 7/1/2015 2:31:31 PM

Energy Analysis Result



Building Performance Factors

Location:	Medan Johar, North Sumatra
Weather Station:	1439267
Outdoor Temperature:	Max: 35°C/Min: 19°C
Floor Area:	275 m ²
Exterior Wall Area:	210 m ²
Average Lighting Power:	4.84 W / m ²
People:	3 people
Exterior Window Ratio:	0.15
Electrical Cost:	\$0.06 / kWh
Fuel Cost:	\$2.61 / Therm

Energy Use Intensity

Electricity EUI:	72 kWh / sm / yr
Fuel EUI:	13 MJ / sm / yr
Total EUI:	272 MJ / sm / yr

Life Cycle Energy Use/Cost

Life Cycle Electricity Use:	1,138,592 kWh
Life Cycle Fuel Use:	204,461 MJ
Life Cycle Energy Cost:	\$33,824

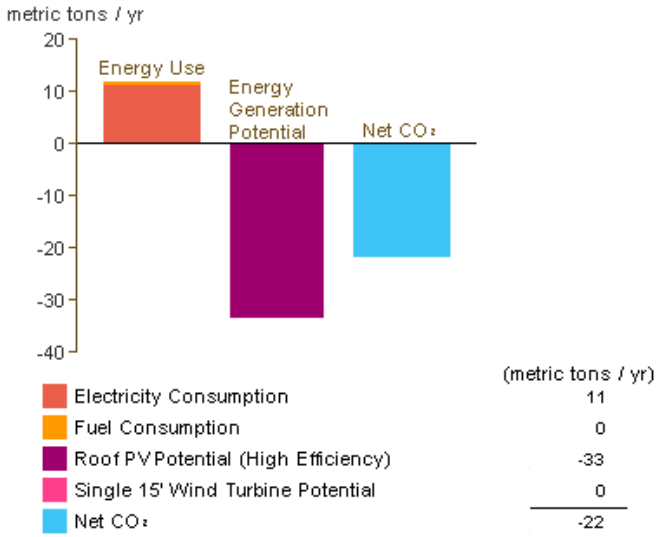
*30-year life and 6.1% discount rate for costs

Renewable Energy Potential

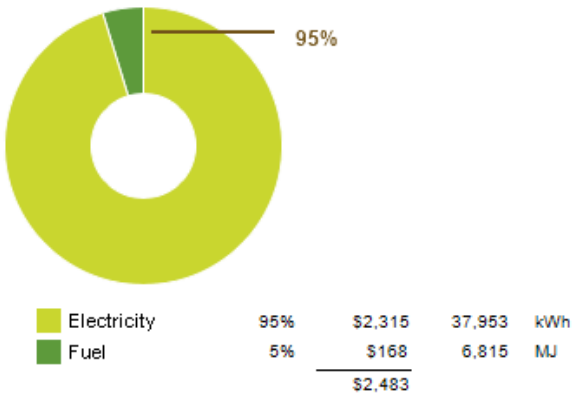
Roof Mounted PV System (Low efficiency):	37,227 kWh / yr
Roof Mounted PV System (Medium efficiency):	74,453 kWh / yr
Roof Mounted PV System (High efficiency):	111,680 kWh / yr
Single 15' Wind Turbine Potential:	147 kWh / yr

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

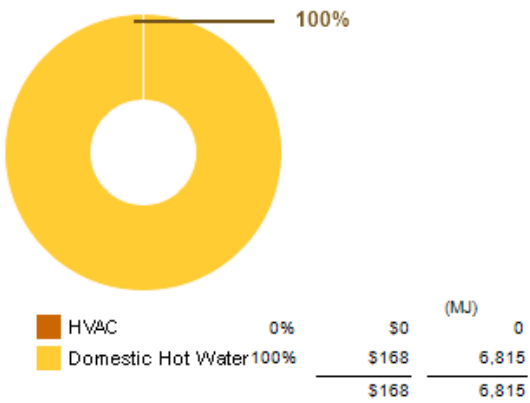
Annual Carbon Emissions



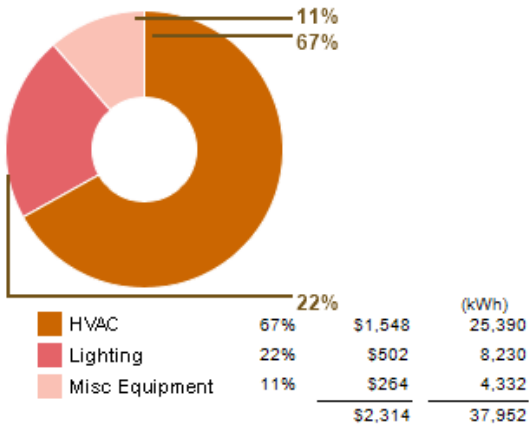
Annual Energy Use/Cost



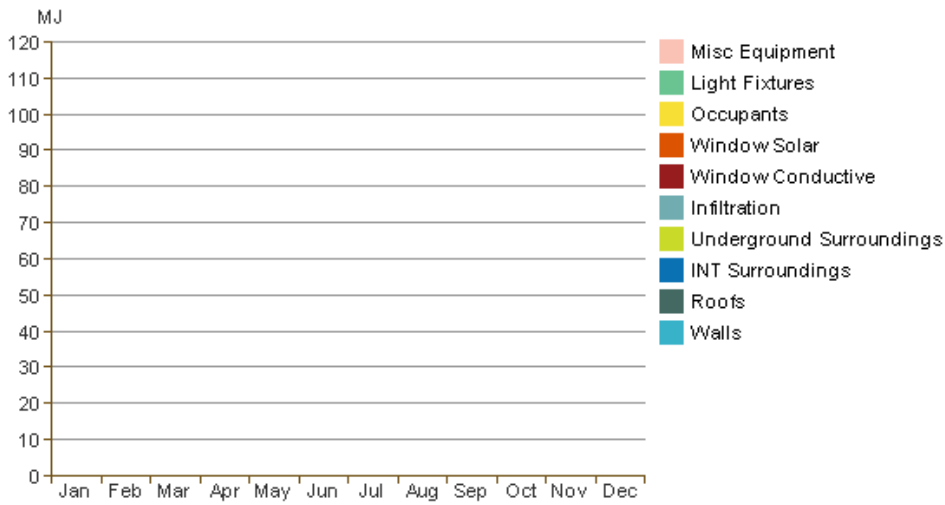
Energy Use: Fuel



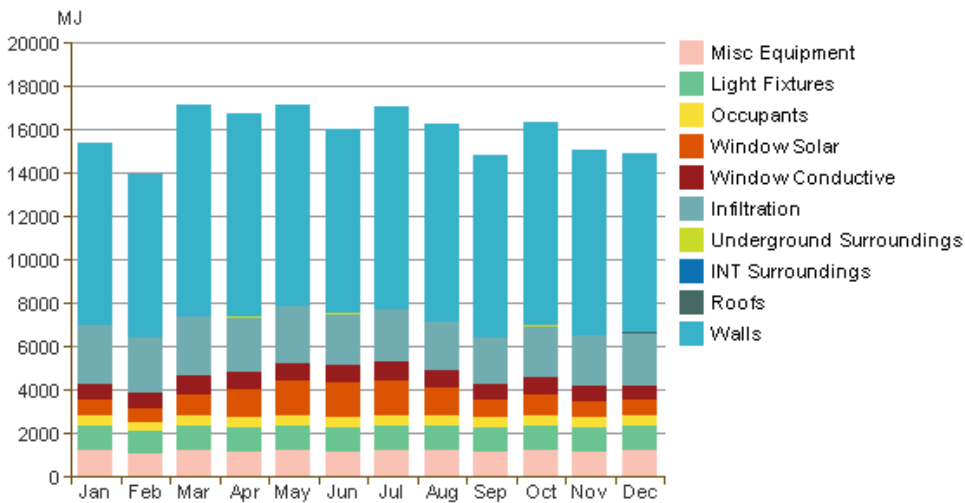
Energy Use: Electricity



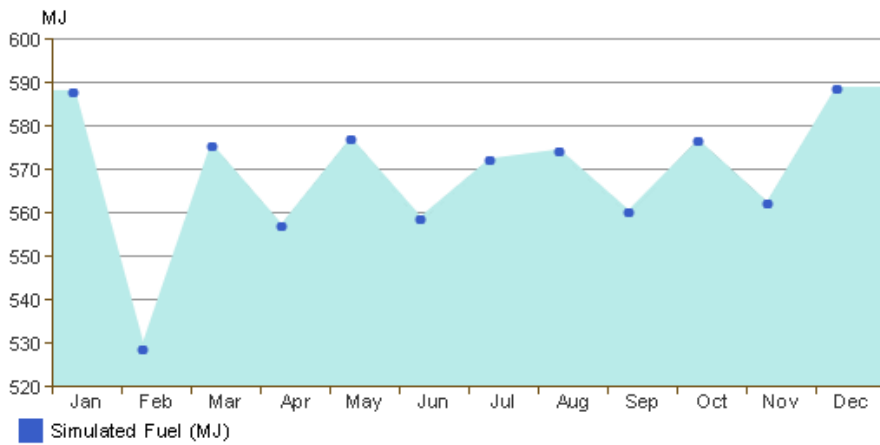
Monthly Heating Load



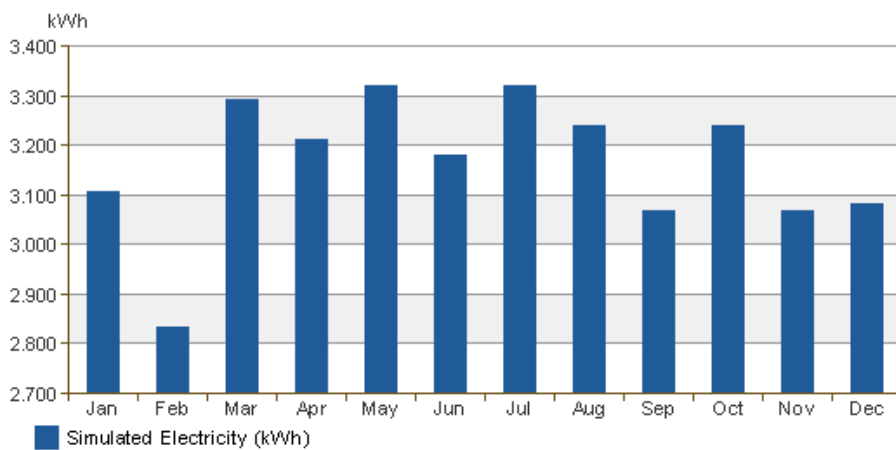
Monthly Cooling Load



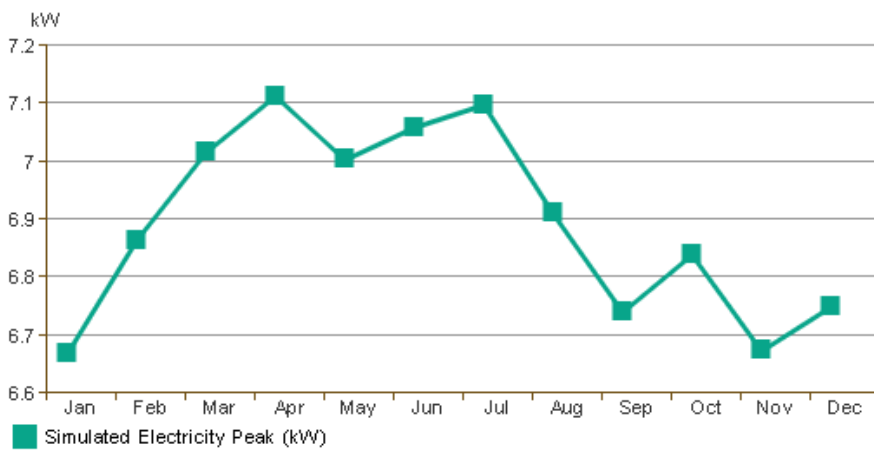
Monthly Fuel Consumption



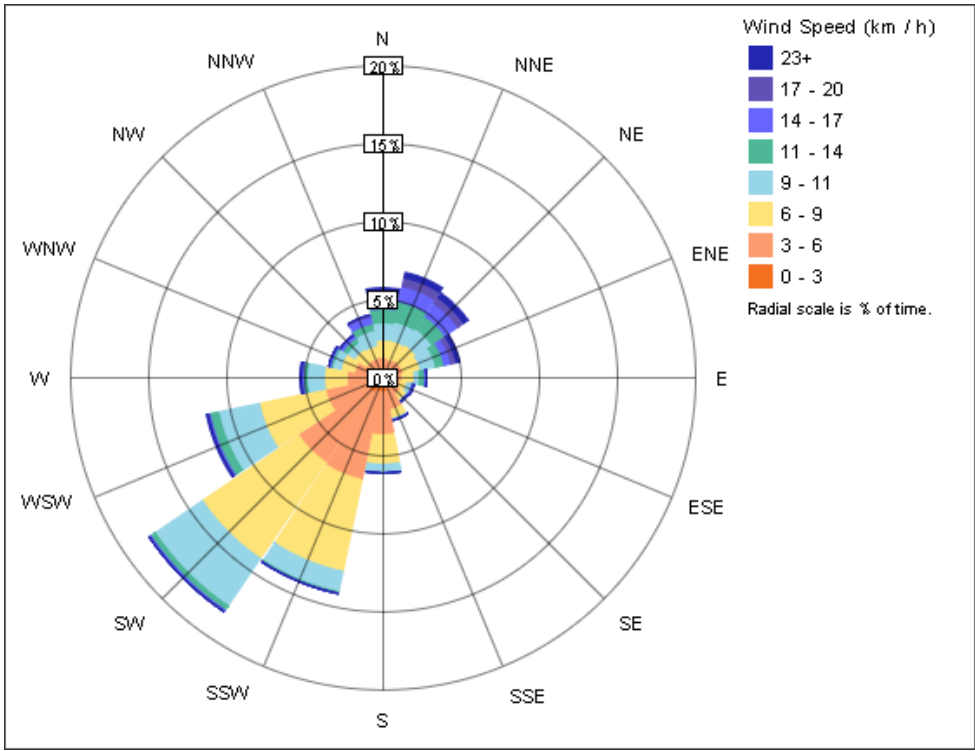
Monthly Electricity Consumption



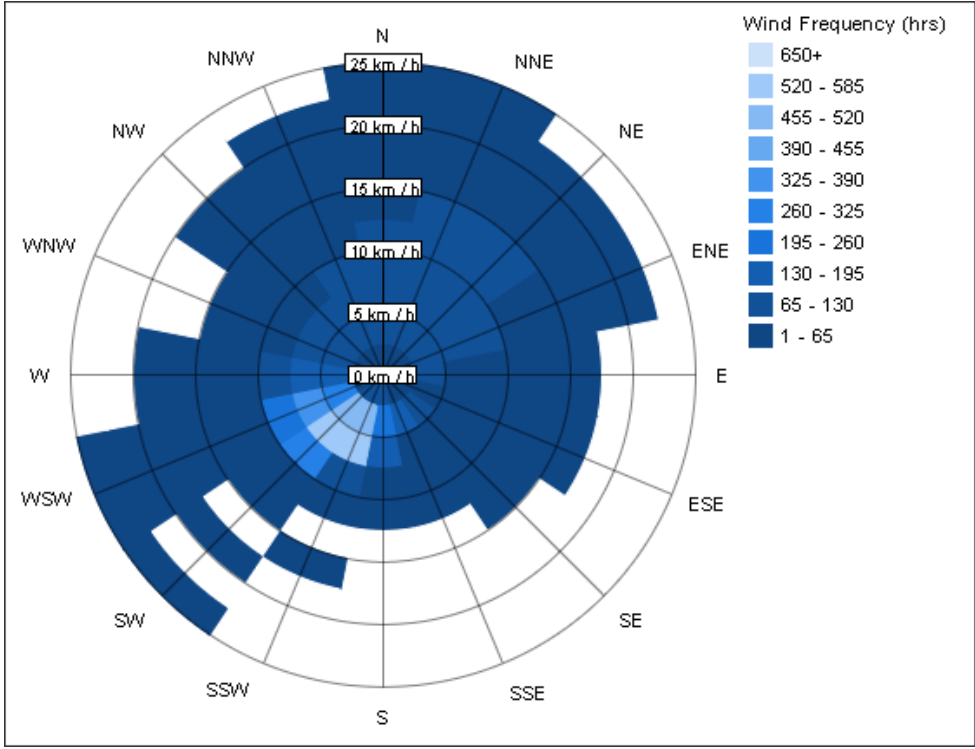
Monthly Peak Demand



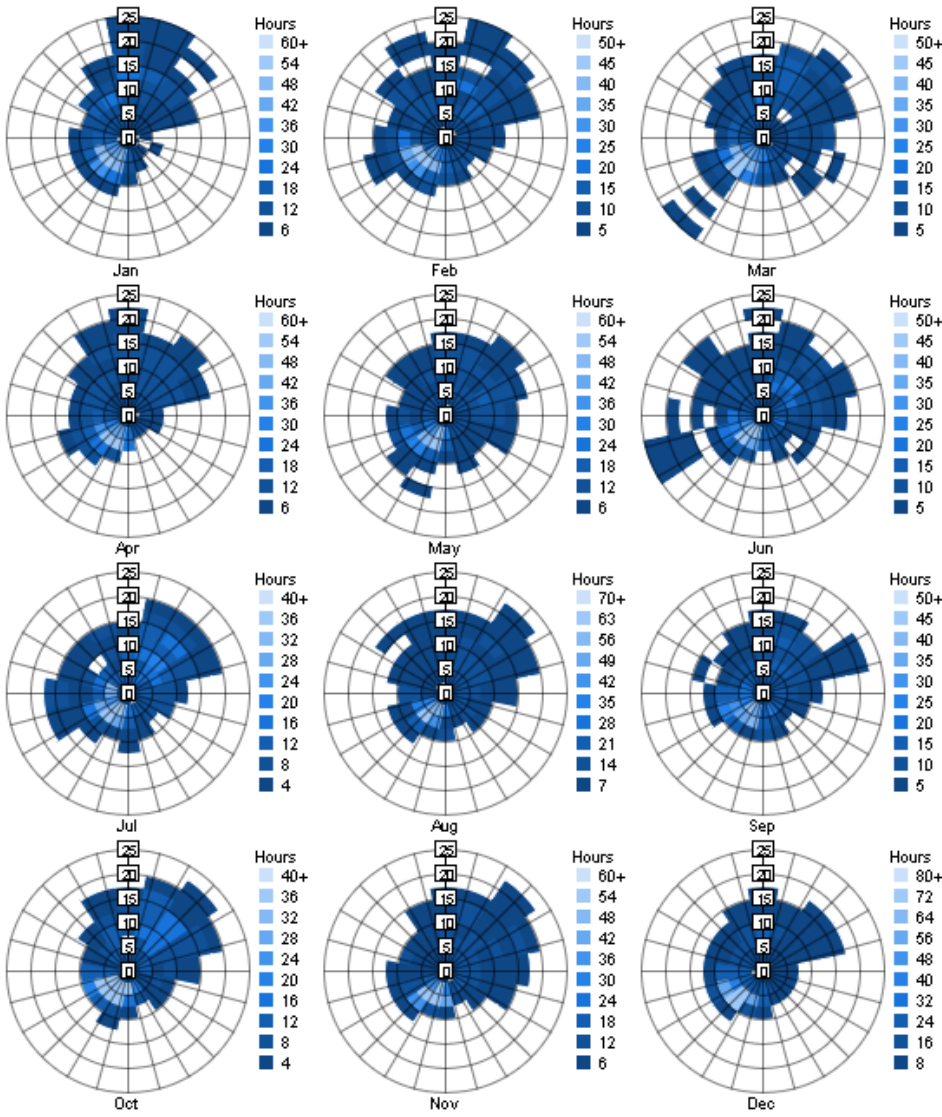
Annual Wind Rose (Speed Distribution)



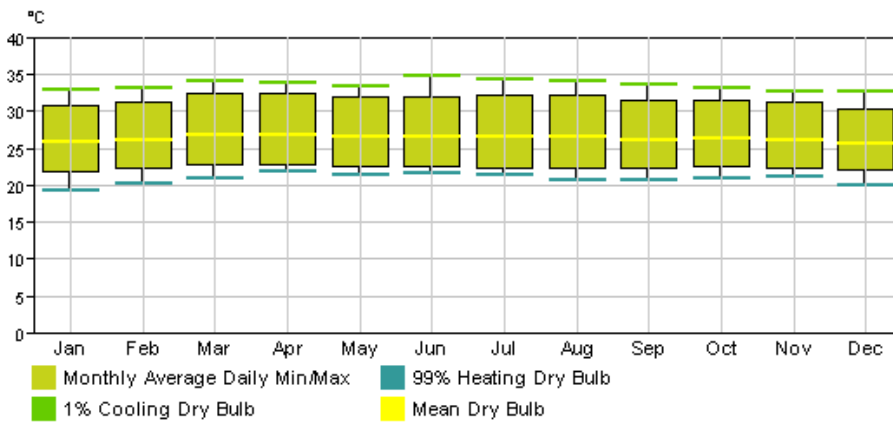
Annual Wind Rose (Frequency Distribution)



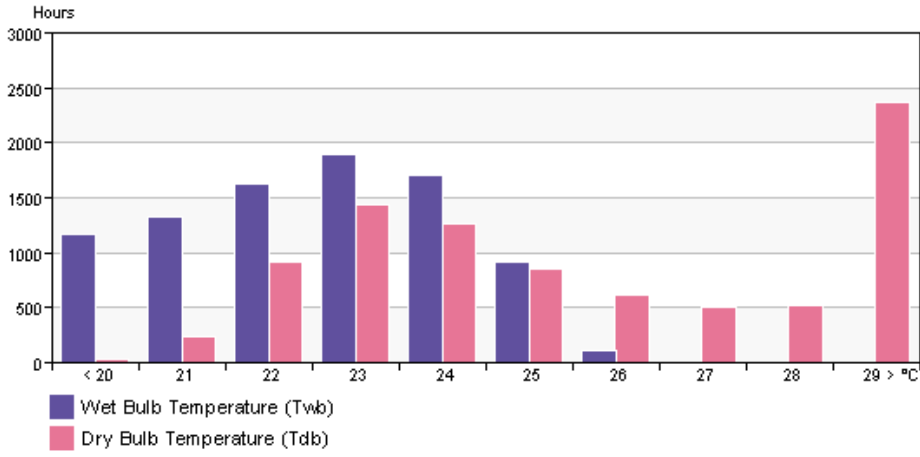
Monthly Wind Roses



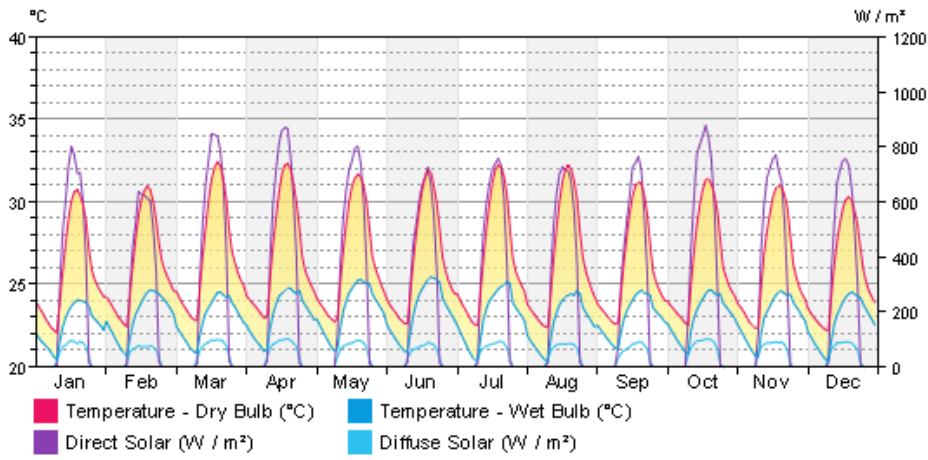
Monthly Design Data



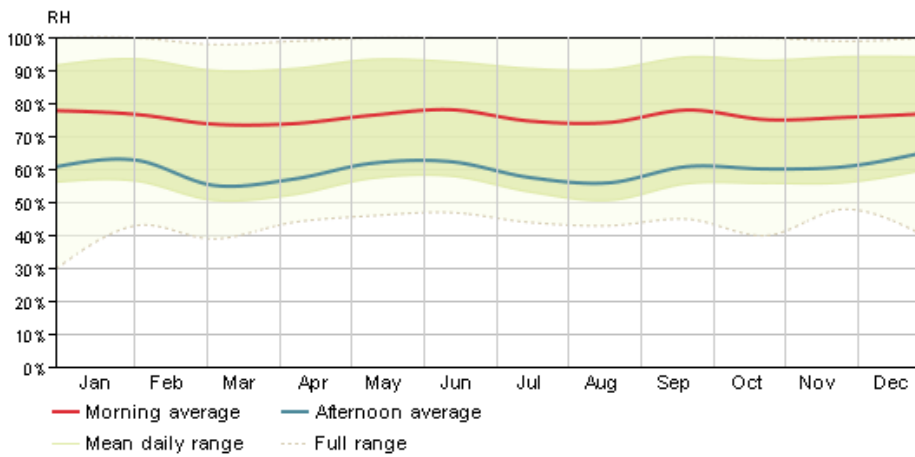
Annual Temperature Bins



Diurnal Weather Averages



Humidity



© Copyright 2014 Autodesk, Inc. All rights reserved. Portions of this software are copyrighted by James J. Hirsch & Associates, the Regents of the University of California, and others.