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# eQuest INPUT SUMMARY FOR ENERGY MODELS

ASHRAE 90.1-2013 & 2016 NYCECC eQuest Templates

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# 1 PURPOSE

The purpose of this document is to describe the default inputs for the for New York City School Construction Authority (SCA) project templates. Only systems included in the SCA Design requirements are included in this guide. Instructions on how to use the templates and other, more detailed modeling guidance will be provided in the SCA Modeling Template How-To Guide, which is issued separately.

# 2 DEFINITIONS

*Proposed Design*- Model of the building based on the design documents

*LL86 Baseline*- A model of the building described according to the Energy Cost Budget Method of ASHRAE 90.1-2013 with amendments per the 2016 New York City Energy Conservation Code.

*GSG Baseline*- A model of the building described by the Performance Rating Method (Appendix G) of ASHRAE 90.1-2010.

# 3 BUILDING SHELL

## 3.1 Opaque Envelope Construction Definitions

Masonry wall constructions have been included in the template as it is the specified predominate assembly type by the SCA design requirements. The constructions correspond to descriptions in DR 4.2.1 and are consistent with ASHRAE 90.1 2013 Appendix A. All typical envelope constructions are summarized in Table 1. All baseline constructions are in accordance with ASHRAE 90.1 2010 Table 5.5-4

*Table 1. Opaque Envelope Construction Properties*

Description	Proposed Design	GSG Baseline	LL86 Baseline
<b>Exterior Wall</b>	Masonry Wall w/ Gypboard <ul style="list-style-type: none"> <li>• Face Brick</li> <li>• 3" rigid insulation (R-15)</li> <li>• 6" CMU Backup</li> <li>• 2-1/2" furring cavity</li> <li>• 5/8" Gypboard</li> <li>• U-0.122 BTU/Hr-ft<sup>2</sup>-°F</li> </ul>	Steel Framed <ul style="list-style-type: none"> <li>• Stucco</li> <li>• 5/8" Gypboard</li> <li>• 3" semi-rigid insulation</li> <li>• 5/8" Gypboard</li> <li>• U-0.064 BTU/Hr-ft<sup>2</sup>-°F</li> </ul>	Mass Wall <ul style="list-style-type: none"> <li>• Face Brick</li> <li>• rigid insulation (R-9.5)</li> <li>• 8" CMU Backup</li> <li>• Air barrier</li> <li>• 5/8" Gypboard</li> <li>• U-0.104 BTU/Hr-ft<sup>2</sup>-°F</li> </ul>
<b>Exterior Wall</b>	Masonry Wall <ul style="list-style-type: none"> <li>• Face Brick</li> <li>• 3" rigid insulation (R-15)</li> <li>• 6" CMU Backup</li> <li>• U-0.140 BTU/Hr-ft<sup>2</sup>-°F</li> </ul> Rainscreen Wall <ul style="list-style-type: none"> <li>• Stucco</li> <li>• 5/8" Gypboard</li> <li>• 3" semi-rigid insulation (derated)</li> <li>• 5/8" Gypboard</li> <li>• U-0.220 BTU/Hr-ft<sup>2</sup>-°F</li> </ul>	Steel Framed <ul style="list-style-type: none"> <li>• Stucco</li> <li>• 5/8" Gypboard</li> <li>• 3" semi-rigid insulation</li> <li>• 5/8" Gypboard</li> <li>• U-0.064 BTU/Hr-ft<sup>2</sup>-°F</li> </ul>	Mass Wall <ul style="list-style-type: none"> <li>• Face Brick</li> <li>• rigid insulation (R-9.5)</li> <li>• 8" CMU Backup</li> <li>• Air barrier</li> <li>• 5/8" Gypboard</li> <li>• U-0.104 BTU/Hr-ft<sup>2</sup>-°F</li> </ul> Steel Framed <ul style="list-style-type: none"> <li>• Stucco</li> <li>• 5/8" Gypboard</li> <li>• 3" semi-rigid insulation</li> <li>• 5/8" Gypboard</li> <li>• U-0.064 BTU/Hr-ft<sup>2</sup>-°F</li> </ul>

<b>Roof</b>	<p>Roof</p> <ul style="list-style-type: none"> <li>• 2" White Pavers with SRI &gt; 0.78</li> <li>• 6" Extruded polystyrene R5/inch</li> <li>• Hot rubberized asphalt</li> <li>• 4-6" Concrete</li> <li>• U-0.032 BTU/Hr-ft<sup>2</sup>-°F</li> </ul>	<p>Roof</p> <ul style="list-style-type: none"> <li>• 2" Gravel</li> <li>• Polystyrene (R-20)</li> <li>• Hot rubberized asphalt</li> <li>• 8" Concrete</li> <li>• U-0.048 BTU/Hr-ft<sup>2</sup>-°F</li> </ul>	<p>Roof</p> <ul style="list-style-type: none"> <li>• 2" Gravel</li> <li>• Polystyrene (R-30)</li> <li>• Hot rubberized asphalt</li> <li>• 8" MW Concrete</li> <li>• U-0.032 BTU/Hr-ft<sup>2</sup>-°F</li> </ul>
<b>Slab On Grade</b>	<p>Unheated Floor</p> <ul style="list-style-type: none"> <li>• 6" Concrete Slab</li> <li>• 2" polystyrene insulation (R-10) installed 24" vertical</li> <li>• F-Factor: 0.54</li> </ul> <p>Heated Floor</p> <ul style="list-style-type: none"> <li>• 6" Concrete Slab</li> <li>• 2" polystyrene insulation (R-10) installed 24" vertical</li> <li>• F-Factor: 0.90</li> </ul>	<p>Unheated Floor</p> <ul style="list-style-type: none"> <li>• 6" Concrete Slab</li> <li>• F-Factor: 0.730</li> </ul> <p>Heated Floor</p> <ul style="list-style-type: none"> <li>• 6" Concrete Slab</li> <li>• polystyrene insulation (R-15) installed 24" vertical</li> <li>• F-Factor: 0.86</li> </ul>	<p>Unheated Floor</p> <ul style="list-style-type: none"> <li>• 6" Concrete Slab</li> <li>• 3" polystyrene insulation (R-15) installed 24" vertical</li> <li>• F-Factor: 0.520</li> </ul> <p>Heated Floor</p> <ul style="list-style-type: none"> <li>• 6" Concrete Slab</li> <li>• polystyrene insulation (R-20) installed 24" vertical</li> <li>• F-Factor: 0.843</li> </ul>
<b>Exposed Floor</b>	<p>Project Specific Mass Floor</p> <ul style="list-style-type: none"> <li>• 6" Concrete Slab</li> <li>• 2" polystyrene insulation (R-10)</li> <li>• U-0.076 BTU/Hr-ft<sup>2</sup>-°F</li> </ul>	<p>Steel Framed Floor</p> <ul style="list-style-type: none"> <li>• U-0.038 BTU/Hr-ft<sup>2</sup>-°F</li> </ul>	<p>Mass Floor</p> <ul style="list-style-type: none"> <li>• 6" Concrete Slab</li> <li>• 3" rigid insulation (R-14.6)</li> <li>• U-0.057 BTU/Hr-ft<sup>2</sup>-°F</li> </ul>
<b>Below Grade Walls</b>	<p>Wall</p> <ul style="list-style-type: none"> <li>• 12" Concrete wall</li> <li>• 2" polystyrene insulation (R-10)</li> <li>• C-Factor: 0.116</li> </ul>	<p>Wall</p> <ul style="list-style-type: none"> <li>• 8" CMU</li> <li>• 5/8" Gypsum board</li> <li>• C-Factor: 1.140</li> </ul>	<p>Wall</p> <ul style="list-style-type: none"> <li>• 8" CMU</li> <li>• 1.5" rigid insulation (R-7.5)</li> <li>• 5/8" Gypsum board</li> <li>• C-Factor: 0.119</li> </ul>
<b>Doors</b>	<p>Swinging Door &lt;50% glazing</p> <ul style="list-style-type: none"> <li>• Solid Steel Door</li> <li>• U-0.60 BTU/Hr-ft<sup>2</sup>-°F</li> </ul> <p>Non-swinging</p> <ul style="list-style-type: none"> <li>• Roll Door</li> <li>• U-1.50 BTU/Hr-ft<sup>2</sup>-°F</li> </ul>	<p>Swinging &lt;50% glazing</p> <ul style="list-style-type: none"> <li>• Solid Steel Door</li> <li>• U-0.70 BTU/Hr-ft<sup>2</sup>-°F</li> </ul> <p>Non-swinging</p> <ul style="list-style-type: none"> <li>• Roll Door</li> <li>• U-1.50 BTU/Hr-ft<sup>2</sup>-°F</li> </ul>	<p>Swinging &lt;50% glazing</p> <ul style="list-style-type: none"> <li>• Solid Steel Door</li> <li>• U-0.50 BTU/Hr-ft<sup>2</sup>-°F</li> </ul> <p>Non-swinging</p> <ul style="list-style-type: none"> <li>• Roll Door</li> <li>• U-0.50 BTU/Hr-ft<sup>2</sup>-°F</li> </ul>

### 3.2 Window Definitions

Typical values for the proposed design windows have been included in the template up to the upper limit of 25% window to wall fraction. These values should be replaced with actual design values if they differ from the standard. The characteristics of the new or replacement typical punched window is taken from DR4.3.1. The characteristics of existing punched windows are taken from ASHRAE 90.1 Appendix A. The window details are given in Table 2

Table 2. Window Properties

Window Type		Proposed Design	GSG Baseline	LL86 Baseline
<b>Typical Punched Window&amp; Ribbon Windows, New &amp; Replacement (FIXED PORTION)</b>	Template Glass Type	GL-1-FIX	GL-ASH10-MF-AO	GL-ASH13-MF-AO
	U-assembly, Fixed	0.45 Btu/hr-ft <sup>2</sup> -F	0.55 Btu/hr-ft <sup>2</sup> -F	0.42 Btu/hr-ft <sup>2</sup> -F
	SHGC	0.38	0.40	0.40
	Shading Coefficient	0.44	0.465	0.465
	Visible Transmittance <sup>1</sup>	67%	44%	44%
<b>Typical Punched Window&amp; Ribbon Windows, New &amp; Replacement (OPERABLE PORTION)</b>	Template Glass Type	GL-1-OP	GL-ASH10-MF-AO	GL-ASH13-MF-OP
	U-assembly, Fixed	0.45 Btu/hr-ft <sup>2</sup> -F	0.55 Btu/hr-ft <sup>2</sup> -F	0.50 Btu/hr-ft <sup>2</sup> -F
	SHGC	0.38	0.40	0.40
	Shading Coefficient	0.44	0.465	0.465
	Visible Transmittance	68%	44%	44%
<b>Typical punched window, Existing, (Assumes Dual Pane)</b>	Template Glass Type	GL-EXIST	GL-EXIST	GL-EXIST
	U-assembly	0.9	Same as proposed	Same as proposed
	SHGC	0.68	Same as proposed	Same as proposed
	Shading Coefficient	0.79	Same as proposed	Same as proposed
	Visible Transmittance	66%	Same as proposed	Same as proposed
<b>Storefront</b>	Template Glass Type	Project specific	GL-ASH10-MF-CW	GL-ASH13-MF-CW
	U-assembly	0.50	0.50 Btu/hr-ft <sup>2</sup> -F	0.42 Btu/hr-ft <sup>2</sup> -F
	SHGC	0.44	0.40	0.40
	Shading Coefficient	0.50	0.465	0.465
	Visible Transmittance	68%	44%	44%
<b>Glass Block, steel framed</b>	Template Glass Type	Project specific	GL-ASH10-MF-AO	GL-ASH13-MF-AO
	U-assembly	0.6 Btu/hr-ft <sup>2</sup> -F	0.55 Btu/hr-ft <sup>2</sup> -F	0.42 Btu/hr-ft <sup>2</sup> -F
	SHGC	Project specific	0.40	0.40
	Shading Coefficient	Project specific	0.465	0.465
	Visible Transmittance	Project specific	44%	44%
<b>Entrance Doors with &gt;50% glazed area</b>	Template Glass Type	GL-DOOR	GL-ASH10-DR	GL-ASH13-DR
	U-assembly	0.85 Btu/hr-ft <sup>2</sup> -F	0.85 Btu/hr-ft <sup>2</sup> -F	0.77 Btu/hr-ft <sup>2</sup> -F

<sup>1</sup> Visible transmittance is not regulated under ASHRAE 90.1-2010. ASHRAE 90.1-2013 and the 2015 International Energy Conservation Code, Section C402.4.1.1 specifies that the visible transmittance must be at least 1.1x the SHGC.

	SHGC	0.40	0.40	0.40
	Shading Coefficient	0.465	0.465	0.465
	Visible Transmittance	68%	44%	44%
<b>Skylight<sup>2</sup></b>	Template Glass Type	GL-SKYLIGHT	GL-ASH10-SKY	GL-ASH13-SKY
	U-assembly	0.34 Btu/hr-ft2-F	0.69 Btu/hr-ft2-F	0.50 Btu/hr-ft2-F
	SHGC	0.28	0.39	0.40
	Shading Coefficient	0.325	0.45	0.465
	Visible Transmittance	31%	43%	44%

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<sup>2</sup> Skylights are currently not addressed in DR or model template. Values minimally compliant with ASHRAE 90.1-2013 are used for the design. Skylight w/o curb is assumed for the baselines.

## 4 INTERNAL LOADS

This section describes the default internal loads included in the template. All inputs are identical in the design and baselines unless otherwise noted. Music rooms, technology classrooms, and lab classrooms uses the same values as classrooms unless otherwise noted.

Appendix A, B, & C each contain a set of schedules including those referenced in this section. Each of these appendices represents a different building type. Some of the schedules have the same name because they reference the same design conditions, but due to the building type the number of Full load equivalent hours will differ. Likewise not all building types will have all of the space types mentioned in this section. In the event that a project requires a specific space type that is not covered by the schedules in the appropriate building type, the modeler shall consult with the SCA to develop a custom schedule for the needed application.

### 4.1 Occupant Loads

The loads from people to the space are specified in Table 3. The occupancy schedules and occupant densities are specified in Table 4. The occupant densities are based on worst-case default values comparing the 2014 NYC Building Egress load requirements and Mechanical ventilation requirements. These values are acceptable for early in the design phase. When the mechanical engineer finalizes their ventilation calculations based upon actual programmatic requirements the design model values may need to be updated to properly account for the effect of demand control ventilation.

*Table 3. Sensible loads from people by space type*

Space Type	ASHRAE Fundamentals 2013 Activity Level	Sensible Heat Gain (BTU/hr.-person)	Latent Heat Gain (BTU/hr.-person)
<b>Classrooms, Library</b>	Moderately active Office Work	250	200
<b>Auditorium Seating</b>	Seated at theater	245	105
<b>Auditorium Stage</b>	Moderate Dance	305	545
<b>Cafeteria</b>	(Lunch) Standing; walking	250	200
<b>Cafetorium</b>	(Lunch) Standing; walking	250	200
	Assembly Event – Seated at theater	245	105
<b>Gymnasium</b>	(one period – 132 people) Athletic	710	1090
<b>Gymatorium</b>	(one period – 132 people) Athletic	710	1090
	Assembly Event – Seated at theater	245	105
<b>Kitchen/Warming Kitchen</b>	Sedentary Work	275	275
<b>Office</b>	Moderately active Office Work	250	200

*Table 4. Occupancy & Equipment Loads by Space Type*

Space Type	Z o n e  T y p e	Default Area per Person <sup>a</sup> (ft <sup>2</sup> )	O c c u p a n c y  S c h e d u l e	Equipment Power Density (W/ft <sup>2</sup> )	Equipment Schedule
Classroom (ages 5-8)	C o n d i t i o n e d	46	C L A S S - O C C - Y R	1.52	CLASS-EQP-YR <sup>d</sup>
Classroom (ages 9+)	C o n d i t i o n e d	46	C L A S S - O C C - Y R	1.52	CLASS-EQP-YR <sup>d</sup>
Classroom (Pre-K) <sup>e</sup>	C o n d i t i o n	46	C L A S S - O C C	0.06	PREK-EQP-YR



Space Type	Zone Type	Default Area per Person <sup>a</sup> (ft <sup>2</sup> )	Occupancy Schedule	Equipment Power Density (W/ft <sup>2</sup> )	Equipment Schedule
	ed		- Y R		
<b>Auditorium</b>	C o n d i t i o n e d	9.2	A U D I T O R - O C C - Y R	0.1	AUD-EQP-YR
<b>Corridor</b>	C o n d i t i o n e d	~	N U L L - O C C - Y R	0	ALWAYS-OFF -YR
<b>Office</b>	C o n d i t	230	O F F I C E	5.3 <sup>d,e</sup>	OFFICE-EQP-YR <sup>d</sup>

Space Type	Zone Type	Default Area per Person <sup>a</sup> (ft <sup>2</sup> )	Occupancy Schedule	Equipment Power Density (W/ft <sup>2</sup> )	Equipment Schedule
	i o n e d		- O C C - Y R		
<b>Lobby</b>	C o n d i t i o n e d	115	N U L L - O C C - Y R	0.1 <sup>d</sup>	LOBBY-EQP-YR <sup>d</sup>
<b>All Locker Rooms</b>	C o n d i t i o n e d	50	N U L L - O C C - Y R	0	ALWAYS-OFF- YR
<b>Storage</b>	C o n d i	300	N U L L -	1.81 <sup>d</sup>	STORAGE-EQP-YR <sup>d</sup>

Space Type	Z o n e  T y p e	Default Area per Person <sup>a</sup> (ft2)	O c c u p a n c y  S c h e d u l e	Equipment Power Density (W/ft2)	Equipment Schedule
	t i o n e d		O C C - Y R		
<b>Library - Stacks</b>	C o n d i t i o n e d	115	C L A S S - O C C - Y R	0.5	LIB-EQP-YR
<b>Library – Reading Area</b>	C o n d i t i o n e d	115	C L A S S - O C C - Y R	0.5	LIB-EQP-YR
<b>Computer Classroom</b>	C o n d	46	T E C H	2	TECH-EQP-YR

Space Type	Zone Type	Default Area per Person <sup>a</sup> (ft <sup>2</sup> )	Occupancy Schedule	Equipment Power Density (W/ft <sup>2</sup> )	Equipment Schedule
	i t i o n e d		- C L A S S - O C C - Y R		
<b>Music Classroom</b>	C o n d i t i o n e d	46	C L A S S - O C C - Y R	0.29 <sup>d</sup>	MUSIC-EQP-YR <sup>d</sup>
<b>Mechanical</b>	C o n d i t i o n	300	N U L L - O C C -	0	N/A

Space Type	Zone Type	Default Area per Person <sup>a</sup> (ft <sup>2</sup> )	O c c u p a n c y  S c h e d u l e	Equipment Power Density (W/ft <sup>2</sup> )	Equipment Schedule
	e d		Y R		
<b>Electrical</b>	C o n d i t i o n e d	300	N U L L - O C C - Y R	0	N/A
<b>IDF/MDF</b>	C o n d i t i o n e d	300	N U L L - O C C - Y R	26.5 <sup>d</sup>	DATA-EQP-YR
<b>Gymnasium (class period)</b>	C o n d i t i o n e	17.25	G Y M - O C C - Y R	0	ALWAYS-OFF-YR

Space Type	Zone Type	Default Area per Person <sup>a</sup> (ft <sup>2</sup> )	Occupancy Schedule	Equipment Power Density (W/ft <sup>2</sup> )	Equipment Schedule
	d				
<b>Conference Room</b>	C o n d i t i o n e d	23	O F F I C E - O C C - Y R	1.96 <sup>d</sup>	LOUNGE-EQP-Y <sup>d</sup>
<b>Gymnasium (multiuse assembly)</b>	C o n d i t i o n e d	17.25	G Y M - O C C - Y R	0.25	GYM-EQP-YR
<b>Cafetorium (multiuse assembly)</b>	C o n d i t i o n	11.5	C A F E T E R I A	0.25	CAFE-EQP-YR

Space Type	Zone Type	Default Area per Person <sup>a</sup> (ft <sup>2</sup> )	Occupancy Schedule	Equipment Power Density (W/ft <sup>2</sup> )	Equipment Schedule
	ed		- OCC - YR		
<b>Cafeteria</b>	C o n d i t i o n e d	11.5	C A F E T E R I A - O C C - Y R	0.25	CAFE-EQP-YR
<b>Kitchen/ Servery</b>	C o n d i t i o n e d	200	K I T C H E N - O C C	33.2 <sup>d</sup>	KITCHEN-EQP-YR

Space Type	Zone Type	Default Area per Person <sup>a</sup> (ft <sup>2</sup> )	Occupancy Schedule	Equipment Power Density (W/ft <sup>2</sup> )	Equipment Schedule
			- Y R		
Warming kitchen	C o n d i t i o n e d	200	K I T C H E N - O C C - Y R	56.3 <sup>d</sup>	WKIT-EQP-YR
Dance Studio/ Exercise	C o n d i t i o n e d	28.8	M P - O C C - Y R	0	ALWAYS-OFF -YR
Stair	C o n d i t	~	N U L L - O	0	ALWAYS-OFF -YR



Space Type	Z o n e  T y p e	Default Area per Person <sup>a</sup> (ft <sup>2</sup> )	O c c u p a n c y  S c h e d u l e	Equipment Power Density (W/ft <sup>2</sup> )	Equipment Schedule
	i o n e d		C C - Y R		
<b>Community rooms</b>	C o n d i t i o n e d	11.5	O F F I C E - O C C - Y R	1.96 <sup>d</sup>	LOUNGE-EQP-YR <sup>d</sup>
<b>Copy Rooms</b>	C o n d i t i o n e d	250	N U L L - O C C - Y R	4.5 <sup>d</sup>	COPY-EQP-YR <sup>d</sup>
<b>Exam Areas of Medical Suites/Clinics</b>	C o n d i	57.5	O F F I C	9.07 <sup>d</sup>	NURSE-EQP-YR <sup>d</sup>

Space Type	Z o n e  T y p e	Default Area per Person <sup>a</sup> (ft <sup>2</sup> )	O c c u p a n c y  S c h e d u l e	Equipment Power Density (W/ft <sup>2</sup> )	Equipment Schedule
	t i o n e d		E - O C C - Y R		
<b>Laboratory</b>	C o n d i t i o n e d	46	S C I - L A B - O C C - Y R	2.48 <sup>d</sup> + 3.75 <sup>c</sup>	SCI-LAB-EQP-YR <sup>d</sup>
<b>Media Centers/ TV Studios</b>	C o n d i t i o n e d	46	C L A S S - O C C - Y R	1.25	LIB-EQP-YR

Space Type	Zone Type	Default Area per Person <sup>a</sup> (ft2)	Occupancy	Equipment Power Density (W/ft2)	Equipment Schedule
<b>Playroom</b>	C o n d i t i o n e d	46	C L A S S - O C C - Y R	0.26 <sup>d</sup>	MUSIC-EQP-YR <sup>d</sup>
<b>Records Room</b>	C o n d i t i o n e d	300	N U L L - O C C - Y R	0	ALWAYS-OFF -YR
<b>Workshop</b>	C o n d i t i o n e d	57.5	O F F I C E - O C C -	7.42 <sup>d</sup>	SHOP-EQP-YR

Space Type	Zone Type	Default Area per Person <sup>a</sup> (ft <sup>2</sup> )	Occupancy Schedule	Equipment Power Density (W/ft <sup>2</sup> )	Equipment Schedule
			YR		
<b>Restrooms</b>	C o n d i t i o n e d	300	N U L L - O C C - Y R	0	ALWAYS-OFF-F-YR
<b>Staff lunch/ lounge</b>	C o n d i t i o n e d	16.4	C A F E T E R I A - O C C - Y R	1.96 <sup>d</sup>	LOUNGE-EQP-YR <sup>d</sup>
<b>Resource Center/ Workrm</b>	C o n d i	23	O F F I C	11.33 <sup>d</sup>	OFFICE-EQP-YR <sup>d</sup>

Space Type	Zone Type	Default Area per Person <sup>a</sup> (ft <sup>2</sup> )	Occupancy Schedule	Equipment Power Density (W/ft <sup>2</sup> )	Equipment Schedule
	tioned		E - OCC - YR		
Shaft	Unconditioned	~	N/A	0	N/A
Plenum	Plenum	~	N/A	0	N/A

<sup>a</sup> Values are taken from the 2014 Ventilation code where available. If the value is not listed in the Ventilation code, then the value is based on the 2014 NYC Egress requirements (Table 1004.1.1). Those values listed as “net” have been converted to “gross” assuming a 15% wall adjustment.

<sup>b</sup> Density value for entire space including stage.

<sup>c</sup> Add power density if space has fume hoods, assume sensible and latent contribution to space is 20% rest lost up hood.

<sup>d</sup> Derived from the SCA LL31 Feasibility Study for Q375 - Reports for Phases 1 and 2

<sup>e</sup> Additional loads required to account for large equipment such as printers and copiers

Space Type	Z o n e  T y p e	Default Area per Person <sup>a</sup> (ft <sup>2</sup> )	O c c u p a n c y  S c h e d u l e	Equipment Power Density (W/ft <sup>2</sup> )	Equipment Schedule

#### 4.2 Kitchen Equipment Loads

The default equipment power densities are given in Table 4. Kitchen cooking equipment will need to be added based on the actual design. The default source load assumption for the kitchen equipment is 327 Btu/hr-ft<sup>2</sup>. This does not apply to warming kitchens, as they are assumed to only use electrical equipment. Table 5 details the default source loads and schedules for the kitchens and serveries.

*Table 5a. Kitchen and Servery Cooking Loads*

Description	Value
<b>Source Schedule</b>	KITCHEN-EQP-YR
<b>Source Type</b>	Gas
<b>Input Power (Btu/hr-ft<sup>2</sup>)</b>	327
<b>Source Sensible HG (Ratio )</b>	25%
<b>Source Latent HG (Ratio )</b>	25%

#### 4.3 Office Equipment Loads

The default minimum equipment power densities are given in Table 4. Addition equipment will need to be added based on the actual design. Table 5 details the default source loads and schedules for the printers and copiers.

*Table 6b. Office Plug Loads*

Description	Value
<b>Equipment Schedule</b>	OFF-P-EQP-YR
<b>Equipment Type</b>	Electric
<b>Printer Input Power (W/unit)</b>	700
<b>Copier Input Power (W/unit)</b>	700

#### 4.4 Elevator Loads

Elevator loads shall be project specific based upon height and speed. Load shall be modeled the same between the baseline and proposed design. Minimum program requirements are two elevators rated for 3500 lb each. The elevator loads should be determined based on the number and type included in the project. The loads below should be used for buildings of 6 floors or fewer. Project specific analysis should be used for other applications.

Elevator Type	Direct load per elevator (kW)	Schedule	Annual Energy Use (kWh)
Standard (3500 lb capacity)	8.15	ELEV-EQP-SCH	2550
For reduced mobility population (6000 lb capacity)	30.8	ELEV-EQP-SCH	9640

#### 4.5 Lighting Loads

The default lighting power density by space type is given in Table 7.

Per ASHRAE 90.1-2013 Table 11.5.1#6, the lighting power or lighting power density for each thermal block should be input in the model as shown on the lighting plans. Inputting an average lighting power density by space type or by building is acceptable in earlier stages of the model / design when no plan exists. The same method (space-by-space or whole building average) shall be used in the design and baseline models. When using the space-by-space method all non-corridor RCR corrections shall be explicitly documents for review. Space-by-space is recommended where practical, to provide the SCA with better feedback on the breakdown of design lighting power.

Table 7 lists the default lighting power density and lighting controls. Savings due to lighting controls are accounted for in the lighting schedules, which are shown in Table 8. Where the lighting controls differ among the baselines and proposed design, the schedules give 10% reduction for “Automatic full Off” controls and 5% for “Automatic partial off”. These types of controls include the standard occupancy or vacancy sensor. The areas where savings should be demonstrated are marked in bold.

*Table 7. Lighting Power Density by Space Type*

Space Type	Model Input Lighting Power Density Parameter	Proposed Design		GSG Baseline (ASHRAE 90.1 2010)		LL86 Baseline (ASHRAE 90.1 2013)	
		Controls	LPD (W/sq ft)	Controls	LPD* (W/sq ft)	Controls	LPD* (W/sq ft)
Auditorium	AUD-LPD	<b>Vacancy</b>	0.79	Timer	0.79	Timer	0.63
Cafeteria	CAFETERIA-LPD	Timer	0.65	Timer	0.65	Timer	0.65
Cafetorium	CFTRM-LPD	Timer	0.65	Timer	0.65	Timer	0.65
Classroom (ages 5-8)	CLASS-LPD	Vacancy	0.5	Vacancy	1.24	Vacancy	1.24
Classroom (ages 9+)	CLASS-LPD	Vacancy	0.5	Vacancy	1.24	Vacancy	1.24

Space Type	Model Input Lighting Power Density Parameter	Proposed Design		GSG Baseline (ASHRAE 90.1 2010)		LL86 Baseline (ASHRAE 90.1 2013)	
		Controls	LPD (W/sq ft)	Controls	LPD* (W/sq ft)	Controls	LPD* (W/sq ft)
Community rooms	COMMUN-LPD	Vacancy	0.7	Vacancy	1.23	Vacancy	1.23
Computer Classroom	COMP-CLASS-LPD	Vacancy	0.8	Vacancy	1.24	Vacancy	1.24
Conference Room	CONF-LPD	Vacancy	0.7	Vacancy	1.23	Vacancy	1.23
Copy Rooms	COPY-LPD	Vacancy	0.5	Vacancy	0.98	Vacancy	0.72
Corridor	CORR-LPD	Partial Vacancy	0.66	Timer	0.66	Partial Vacancy	0.66
Dance studio/ Exercise	AUX-GYM-LPD	<b>Vacancy</b>	0.8	Timer	1.2	Timer	1.2
Electrical	ELEC-LPD	Timer	0.4	Timer	0.95	Timer	0.42
Nurse's Office	NURSE-LPD	Timer	0.8	Timer	1.66	Timer	1.66
Gym Locker Room	LOCKER-G-LPD	Partial Vacancy	0.6	Timer	0.75	Partial Vacancy	0.75
Gymnasium	GYM-LPD	<b>Vacancy</b>	0.8	Timer	1.2	Timer	1.2
Gymnasium	GYMTRM-LPD	<b>Vacancy</b>	0.8	Timer	1.2	Timer	1.2
Kitchen	KITCHEN-LPD	Timer	0.8	Timer	0.99	Timer	1.21
Warming Kitchen	KITCHEN-LPD	Timer	0.8	Timer	0.99	Timer	1.21
Laboratory	LAB-CLASS-LPD	Vacancy	1.0	Timer	1.28	Partial Vacancy	1.43
Library - General	LIB-GEN-LPD	<b>Vacancy</b>	0.8	Timer	1.24	Timer	1.32
Library - Reading	LIB-READ-LPD	<b>Vacancy</b>	0.8	Timer	0.93	Timer	1.06
Library - Stacks	LIB-STAC-LPD	Vacancy	0.8	Timer	1.71	Partial Vacancy	1.71
Lobby	LOBBY-LPD	Partial Vacancy	0.8	Timer	0.9	Partial Vacancy	0.9
MDF/IDF	DATA-LPD	<b>Occupancy</b>	0.4	Timer	0.95	Timer	0.42
Mechanical	MECH-LPD	Timer	0.4	Timer	0.95	Timer	0.42
Media Centers/ TV Studios	MEDIA-LPD	Timer	1.1	Timer	1.24	Timer	1.24
Music Classroom	MUSIC-LPD	Vacancy	0.5	Vacancy	1.24	Vacancy	1.24
Office	OFFICE-LPD	Vacancy	0.6	Vacancy	1.1	Vacancy	1.0
Other Locker Room	LOCKER-O-LPD	Vacancy	0.6	Vacancy	0.75	Vacancy	0.75
Playroom	PLAY-LPD	<b>Vacancy</b>	0.8	Timer	1.2	Timer	1.2
Records Room	RECORDS-LPD	Vacancy	0.8	Vacancy	0.98	Vacancy	0.98
Resource Center/ Workroom	RESOURCE-LPD	Vacancy	0.8	Vacancy	1.23	Vacancy	1.23
Restrooms, other	RESTROOM-LPD	Partial Vacancy	0.7	Partial Vacancy	0.98	Partial Vacancy	0.98
Restrooms, staff	RESTRM-PRIV-LPD	Vacancy	0.7	Vacancy	0.98	Vacancy	0.98
Staff lunch/ lounge	LOUNGE-LPD	Vacancy	0.65	Vacancy	0.73	Vacancy	0.73
Stair	STAIR-LPD	Partial Vacancy	0.4	Timer	0.69	Timer	0.69
Storage	STORAGE-LPD	Vacancy	0.4	Vacancy	0.63	Vacancy	0.63



Space Type	Model Input Lighting Power Density Parameter	Proposed Design		GSG Baseline (ASHRAE 90.1 2010)		LL86 Baseline (ASHRAE 90.1 2013)	
		Controls	LPD (W/sq ft)	Controls	LPD* (W/sq ft)	Controls	LPD* (W/sq ft)
<b>Workshop</b>	WORKSHOP-LPD	Timer	0.9	Timer	1.59	Timer	1.59
<b>*Does not include RCR Threshold allowances. Taking such allowances shall be properly documented.</b>							

*Table 8. Lighting Schedules by Space Type*

<b>Space Type</b>	<b>Proposed Design</b>	<b>GSG Baseline (ASHRAE 90.1 2010)</b>	<b>LL86 Baseline (ASHRAE 90.1 2013)</b>
Auditorium (No extended hrs)	AUD-LT-YR	AUD-LT-TIM-YR	AUD-LT-TIM-YR
Auditor. (Thu, Fri extnd hrs)	AUD-EXT-LT-YR	AUD-LT-E-TIM-YR	AUD-LT-E-TIM-YR
Cafeteria	CAFE-LT-YR	CAFE-LT-YR	CAFE-LT-YR
Cafetorium	MP-LT-TIM-YR	MP-LT-TIM-YR	MP-LT-TIM-YR
Classroom (ages 5-8)	CLASS-LT-YR	CLASS-LT-YR	CLASS-LT-YR
Classroom (ages 9+)	CLASS-LT-YR	CLASS-LT-YR	CLASS-LT-YR
Community rooms	OFFICE-LT-YR	OFFICE-LT-YR	OFFICE-LT-YR
Computer Classroom	CLASS-LT-YR	CLASS-LT-YR	CLASS-LT-YR
Conference Room	OFFICE-LT-YR	OFFICE-LT-YR	OFFICE-LT-YR
Copy Rooms	OFFICE-LT-YR	OFFICE-LT-YR	OFFICE-LT-YR
Corridor	CORR-LT-YR	CORR-LT-TIM-YR	CORR-LT-YR
Dance studio/ Exercise	MP-LT-YR	MP-LT-TIM-YR	MP-LT-TIM-YR
Electrical	MECH-LT-YR	MECH-LT-YR	MECH-LT-YR
Nurse's Office	OFFICE-LT-YR	OFFICE-LT-YR	OFFICE-LT-YR
Gym Locker Room	GYM-LT-PV-YR	GYM-LT-TIM-YR	GYM-LT-PV-YR
Gymnasium (No extended hrs)	GYM-LT-YR	GYM-LT-TIM-YR	GYM-LT-TIM-YR
Gymnasium (Wed extnd hrs)	GYM-EXT-LT-YR	GYM-LT-E-TIM-YR	GYM-LT-E-TIM-YR
Gymnatorium	MP-LT-YR	MP-LT-TIM-YR	MP-LT-TIM-YR
Kitchen/ Warming Kitchen	KITCHEN-LT-YR	KITCHEN-LT-YR	KITCHEN-LT-YR
Laboratory	SCI-LT-YR	SCI-LT-TIM-YR	SCI-LT-TIM-YR
Library - General	CLASS-LT-YR	CLASS-LT-TIM-YR	CLASS-LT-TIM-YR
Library - Reading	CLASS-LT-YR	CLASS-LT-TIM-YR	CLASS-LT-TIM-YR
Library - Stacks	CLASS-LT-YR	CLASS-LT-TIM-YR	CLASS-LT-PV-YR
Lobby	CORR-LT-YR	CORR-LT-TIM-YR	CORR-LT-YR
MDF/IDF	MECH-LT-V-YR	MECH-LT-YR	MECH-LT-YR
Mechanical	MECH-LT-YR	MECH-LT-YR	MECH-LT-YR
Media Centers/ TV Studios	CLASS-LT-YR	CLASS-LT-YR	CLASS-LT-YR
Music Classroom	CLASS-LT-YR	CLASS-LT-YR	CLASS-LT-YR
Office	OFFICE-LT-YR	OFFICE-LT-YR	OFFICE-LT-YR
Other Locker Room	CLASS-LT-YR	CLASS-LT-YR	CLASS-LT-YR
Playroom	CLASS-LT-YR	CLASS-LT-TIM-YR	CLASS-LT-TIM-YR
Records Room	STORAGE-LT-YR	STORAGE-LT-YR	STORAGE-LT-YR
Resource Center/ Workroom	OFFICE-LT-YR	OFFICE-LT-YR	OFFICE-LT-YR
Restrooms, other	RESTRM-LT-PV-YR	RESTRM-LT-PV-YR	RESTRM-LT-PV-YR
Restrooms, staff	RESTROOM-LT-YR	RESTROOM-LT-YR	RESTROOM-LT-YR
Staff lunch/ lounge	CAFE-LT-YR	CAFE-LT-YR	CAFE-LT-YR
Stair	CORR-LT-YR	CORR-LT-TIM-YR	CORR-LT-TIM-YR
Storage	STORAGE-LT-YR	STORAGE-LT-YR	STORAGE-LT-YR
Workshop	OFFICE-LT-YR	OFFICE-LT-YR	OFFICE-LT-YR

Daylighting requirements and controls are covered in Table 9. The SCA DR requires daylight harvesting in all rooms with windows. Daylighting in the baseline is provided in spaces that comply with ASHRAE 90.1-2010 9.4.1.4 & 9.4.1.5 or 2014 NYC ECC Section C405.2.2.3.2.

The daylight illuminance settings shown in Table 9 are based on the DR 7.2.1B minimum illuminance requirements and 2014 NYC ECC respectively. These values are provided in the Code to assist the modeler and do not represent mandatory illuminance levels. The eQuest daylighting algorithm for California Title 24-2008 can be used to place the sensors and determine the controlled load.

Table 9. Lighting Daylight Controls by Space Type

Space Type	Minimum Foot Candles for Daylighting Control	
	Design	ASHRAE 90.1-2010 /2013 Baseline (GSG & LL86)
Classroom (ages 5-8)	40	50
Classroom (ages 9+)	40	50
Auditorium (No extended hours)	40	35
Auditorium (Thu, Fri extended hrs)	40	35
Gymnasium (No extended hours)	30	35
Gymnasium (Wed extended hrs)	30	35
Cafetorium	30/40	35
Corridor	20 @ 18" AFF	35
Office	40	50
Lobby	30	35
Gym Locker Room	20 @ 18" AFF	35
Other Locker Room	20 @ 18" AFF	35
Storage	30	35
Library - Reading	40	50
Library - Stacks	20@ 18" AFF	50
Computer Classroom	40	50
Music Classroom	40	50
Mechanical	30	~
Electrical	30	~
MDF/IDF	30	~
Conference Room	40	50
Gymnasium	30/40	35
Cafeteria	30	35
Kitchen/ Warming Kitchen	50	50
Dance studio/ Exercise Room	40	35
Stair	20	35
Community rooms	50	50
Copy Rooms	40	50
Exam Areas of Medical Suites/Clinics	50	50
Laboratory	50	50
Media Centers/ TV Studios	30/40	~
Playroom	30	50
Records Room	20 @ 18" AFF	50
Workshop	50	50
Restrooms	~	35
Staff lunch/ lounge	30	50
Resource Center/ Workroom	30/50	50

## 4.6 Infiltration Loads

The amount infiltration will depend on the building geometry. General guidance is given in Table 10.

Table 10. Infiltration Defaults

Description	Value
<b>Infiltration Method</b>	Air Change
<b>Schedule</b>	HVAC System Dependent, See Table 13
<b>Air Changes/Hour</b>	0.15, typical spaces with 1 major dimension on an exterior wall 0.10, cafeterias, auditoriums, and other deep spaces with at least 1 major dimension on an exterior wall 0.05, spaces with limited area on exterior walls 0.0, interior zones with no exterior walls
<b>Infiltration Flow</b>	Default

## 5 HVAC THERMAL ZONES

This section describes the default values for the HVAC zones. All schedule details can be found in Appendix A. All inputs are identical in the design and baselines unless otherwise noted.

### 5.1 Temperature Setpoints

The heating and cooling schedules for each zone, along with the design temperatures are shown in Table 11. The System Types are described in more detail in Section 6.

Table 11. Heating/Cooling Schedules & System Assignments by Space Type

Space Type	System Type	Heating		Cooling		Heating Schedule	Cooling Schedule
		Set point	Set back	Set point	Set back		
<b>Classroom (ages 5-8)</b>	CLASS-SYS	72	55	75	85	CLASS-HT-YR	CLASS-CL-YR
<b>Classroom (ages 9+)</b>	CLASS-SYS	72	55	75	85	CLASS-HT-YR	CLASS-CL-YR
<b>District 75 Classrooms</b>	CLASS-SYS	72	55	75	85	CLASS-HT-YR	CLASS-CL-YR
<b>Auditorium</b>	AUDITOR-SYS	72	55	78	85	AUD-HT-YR	AUD-CL-YR
<b>Gymnasium</b>	GYM-SYS	72	55	75	85	GYM-HT-YR	GYM-CL-YR
<b>Corridor</b>	CLASS-SYS/ CORRIDOR-SYS	72	55	78	85	CORR-HT-YR	CORR-CL-YR
<b>Office</b>	CLASS-SYS	72	55	75	85	OFFICE-HT-YR	OFFICE-CL-YR
<b>Lobby</b>	CLASS-SYS/ CORRIDOR-SYS	72	55	78	85	CORR-HT-YR	CORR-CL-YR
<b>Gym Locker Room</b>	GYM-SYS	72	55	78	85	GYM-HT-YR	GYM-CL-YR
<b>Other Locker Room</b>	CLASS-SYS	72	55	78	85	CLASS-HT-YR	CLASS-CL-YR
<b>Storage</b>	*	60	55	NR	NR	HT-60-YR	NA
<b>Library</b>	CLASS-SYS	72	55	75	85	CLASS-HT-YR	CLASS-CL-YR

<b>Computer Classroom</b>	CLASS-SYS	72	55	75	85	CLASS-HT-YR	CLASS-CL-YR
<b>Mechanical</b>	HEAT-ONLY-SYS	60	55	NR	NR	HT-60-YR	NA
<b>Electrical/EMR</b>	DATA-SYS	60	55	85	85	HT-60-YR	CL-85-YR
<b>Data</b>	DATA-SYS	60	55	85	85	HT-60-YR	CL-85-YR
<b>Conference Room</b>	CLASS-SYS	72	55	78	85	OFFICE-HT-YR	OFFICE-CL-YR
<b>Gymnasium</b>	MP-SYS	72	55	75	85	MP-HT-YR	CLASS-CL-YR
<b>Cafeteria</b>	K/C-SYS	72	55	75	85	CAFE-HT-YR	CAFE-CL-YR
<b>Kitchen/ Warming Kitchen</b>	K/C-SYS	65	55	78	85	KITCHEN-HT-YR	KITCHEN-CL-YR
<b>Dance studio/ Exercise Room</b>	AUX-GYM-SYS	72	55	78	85	AUX-GYM-HT-YR	AUX-GYM-CL-YR
<b>Stair</b>	HEAT-ONLY-SYS	60	55	NR	NR	STAIR-HT-YR	NA
<b>Community rooms</b>	CLASS-SYS	72	55	78	85	CLASS-HT-YR	CLASS-CL-YR
<b>Copy Rooms</b>	CLASS-SYS	72	55	78	85	CLASS-HT-YR	CLASS-CL-YR
<b>Exam Areas of Medical Suites/Clinics</b>	CLASS-SYS	72	55	78	85	CLASS-HT-YR	CLASS-CL-YR
<b>Laboratory</b>	CLASS-SYS	72	55	75	85	CLASS-HT-YR	CLASS-CL-YR
<b>Media Centers/ TV Studios</b>	CLASS-SYS	72	55	75	85	CLASS-HT-YR	CLASS-CL-YR
<b>Playroom</b>	CLASS-SYS	72	55	75	85	CLASS-HT-YR	CLASS-CL-YR
<b>Records Room</b>	CLASS-SYS	72	55	78	85	CLASS-HT-YR	CLASS-CL-YR
<b>Workshop</b>	CLASS-SYS	72	55	78	85	CLASS-HT-YR	CLASS-CL-YR
<b>Restrooms</b>	CLASS-SYS	60	55	85	85	STAIR-HT-YR	CL-85-YR
<b>Staff lunch/ lounge</b>	CLASS-SYS	72	55	75	85	CLASS-HT-YR	CLASS-CL-YR
<b>Resource Center/ Workroom</b>	CLASS-SYS	72	55	75	85	CLASS-HT-YR	CLASS-CL-YR

\* Storage rooms may be served indirectly by any system type and should be assigned based on their location in the proposed design.

## 5.2 Ventilation Loads

The ASHRAE 90.1-2010, Appendix G does not allow the GSG Baseline to have higher design ventilation rates than required by code. The 2014 New York City Mechanical Code requirements are given in Table 12 and should be used for both baselines and the proposed design until the mechanical engineer can provide a copy of the final ventilation calculation. For the final model the actual ventilation air in the Proposed Design and the LL86 Baseline should match the design documents, while the GSG baseline should match the code required ventilation.

In the template, a combined value tied to the occupancy is assigned to zones with both cfm/person and cfm/area requirements. Non-transition spaces served by CLASS-SYS will have occupancy sensor based ventilation controls. This is reflected by reducing the outside air per person by 10%, the estimated amount of time any space would be unoccupied during the hours of operation. This reduction is also taken in the baseline in spaces which require demand controlled ventilation.

Table 12. Ventilation Requirements by Space Type

Space Type	Default Area per Person <sup>a</sup> (ft <sup>2</sup> )	Outdoor flow (cfm per Person)	Outdoor flow (cfm per ft <sup>2</sup> )	Combined OA Rate (cfm per Person)	Exhaust (cfm per ft <sup>2</sup> ) <sup>f</sup>
Classroom (ages 5-8)	46	10	0.12	15.5	
Classroom (ages 9+)	46	10	0.12	15.5	
Classroom (Pre-K)	46	10	0.18	18.3	
Auditorium <sup>b</sup>	9.2	5	0.06	5.6	
Corridor	~	0	0.06	NA-use OA/ft2	
Office	230	5	0.06	18.8	
Lobby	115	5	0.06	11.9	
All Locker Rooms	50	0	0	0	0.5
Storage	300	0	0.12	NA-use OA/ft2	
Library	115	5	0.12	18.8	
Computer Classroom	46	10	0.12	15.5	
Music Classroom	46	10	0.12	15.5	
Mechanical	300	0	0.06	NA-use OA/ft2	
Electrical	300	0	0.06	NA-use OA/ft2	
IDF/MDF	300	0	0.06	NA-use OA/ft2	
Gymnasium (class period) <sup>c</sup>	17.25	5	0.06	6.0	
Conference Room	23	5	0.06	6.4	
Gymnasium (multiuse assembly) <sup>d</sup>	17.25	5	0.06	6.0	
Cafetorium (multiuse assembly)	11.5	7.5	0.18	9.6	
Cafeteria	11.5	7.5	0.18	9.6	
Kitchen/ Servery/ Warming Kitchen	200	0	0	NA-Use equipment requirement	0.7
Dance Studio/ Exercise	28.8	20	0.06	21.7	
Stair	~	0	0.06	NA-use OA/ft2	
Community rooms	11.5	7.5	0.06	8.2	
Copy Rooms	250	5	0.06	20	0.5
Exam Areas of Medical Suites/Clinics	57.5	15	0	15	
Laboratory	46	10	0.18	18.3	1
Media Centers/ TV Studios	46	10	0.12	15.5	
Playroom	46	10	0.18	18.3	
Records Room	300	0	0.12	NA-use OA/ft2	
Workshop	57.5	10	0.18	20.4	0.5
Restrooms	300	0	0	0	50-70 cfm/fixture
Staff lunch/ lounge	16.4	7.5	0.18	10.5	
Resource Center/ Workrm	23	5	0.06	6.4	

<sup>a</sup> Values are taken from the 2014 Ventilation code where available. If the value is not listed in the Ventilation code, then the value is based on the 2014 NYC Egress requirements (Table 1004.1.1). Those values listed as “net” have been converted to “gross” assuming a 15% wall adjustment.

<sup>b</sup> Density value for entire space including stage.

<sup>c</sup> Values provide 0.30 cfm/ft<sup>2</sup> as required by mechanical code, and allow for CO<sub>2</sub> occupant control in energy model.

<sup>d</sup> Greater of requirements of gymnasium and multiuse assembly

<sup>e</sup> Greater of requirements of cafeteria and multiuse assembly

<sup>f</sup> Exhaust air is provided via transfer air. Additional outside air is not required in these spaces for ventilation.

## 6 AIR SIDE SYSTEMS

This section describes the default system types provided in the template. It may be necessary to model more than one of any type of system, and not all systems apply to all buildings. All schedule details can be found in Appendix A. All inputs are identical in the design and baselines unless otherwise noted.

### 6.1 General Schedules

The fan, outside air, and infiltration schedules are given in Table 13.

*Table 13. System Fan and Outside Air Schedules*

<b>System Type</b>	<b>Typical Space Types</b>	<b>Fan Schedule</b>	<b>Outside Air Schedule</b>	<b>Infiltration Schedule</b>
<b>CLASS-SYS</b>	Classrooms, offices, corridors	CLASS-FAN-SCH	CLASS-OA-SCH	SCHOOL-INF
<b>GYM-SYS</b>	High school gymnasium	GYM-FAN-SCH	GYM-OA-SCH	GYM-INF-SCH
<b>CORRIDOR-SYS</b>	Corridors in additions to unimproved buildings	CLASS-FAN-SCH	CLASS-OA-SCH	SCHOOL-INF-SCH
<b>HEAT-ONLY-SYS</b>	Mechanical spaces, stairs, vestibules	ALWAYS-OFF-F/D-YR	NO-OA-SCH	NO-INF-SCH
<b>DATA-SYS</b>	Data rooms, EMR	DATA-FAN-SCH	NO-OA-SCH	NO-INF-SCH
<b>MP-SYS</b>	Gymnatoriums, multipurpose	MP-FAN-SCH	MP-OA-SCH	SCHOOL-INF-SCH
<b>AUX-GYM</b>	Exercise rooms	AUX-GYM-FAN-SCH	AUX-GYM-OA-SCH	AUX-GYM-INF-SCH
<b>K/C-SYS</b>	Kitchens & cafeterias	CAFE-FAN-SCH	CAFE-OA-SCH	K/C-INF-SCH
<b>AUDITOR-SYS</b>	Auditorium	AUDFAN-SCH	AUD-OA-SCH	SCHOOL-INF



## 6.2 Inputs for CLASS-SYS

### 6.2.1 Class System Typical Inputs

The classrooms are served by central air handlers with terminal variable air volume units. All heating and cooling is provided by a boiler and chiller plant in new construction, and where necessary due to design restrictions DX-cooling & indirect gas furnace in major renovations. The terminal units shall be variable air volume boxes. Perimeter spaces shall be served by fin tube radiation (FTR) (eQuest input baseboards).

	Design	LL86 Baseline	GSG Baseline		
<b>eQuest System Type</b>	Variable Air Volume	System Type #4: Packaged Variable Air Volume with reheat	Buildings > 150,000 ft2 Variable Air Volume Buildings < 150,000 ft2 Packaged Variable Air Volume		
<b>Fan Control</b>	Variable Air Volume	Variable Air Volume	Variable Air Volume		
<b>Minimum Flow Ratio</b>	Outdoor Air Flow Rate	30%	30%		
<b>Cooling Efficiency, Packaged DX Cases only</b>	EER 0.2 higher than ASHRAE 90.1-2010 for existing construction applications.  For new construction applications not applicable, cooling from chiller plant.	Per ASHRAE 90.1-2013 Table 6.8.1-1	Per ASHRAE 90.1-2010 Table 6.8.1A		
		Max Capacity	EER	Max Capacity	EER
		65 kBtu/h	14.0 SEER	65 kBtu/h	13.0 SEER
		135 kBtu/h	12.7 IEER	135 kBtu/h	11.0
		240 kBtu/h	12.4 IEER	240 kBtu/h	10.8
		760 kBtu/h	11.4 IEER	760 kBtu/h	9.8
		> 760 kBtu/h	11.0 IEER	> 760 kBtu/h	9.5
			Buildings >150,000 ft2 will take cooling from the chiller(s)		
<b>Heating Efficiency</b>	NA- heating from boiler	NA – heating from boiler	Per ASHRAE 90.1-2010 Table 6.8.1E		
			Max Capacity	Efficiency	
			225 kBtu/h	80% Et	
			> 225 kBtu/h	80% Et	
<b>Cooling Available</b>	When Chiller runs	As needed	As needed		
<b>Economizer Controls</b>	Differential- Enthalpy	For systems >54 kBTU/h	No required for Climate Zone 4a		
<b>Demand Controlled Ventilation?</b>	Yes, Both space and return CO <sub>2</sub> sensors.	Where required by Section 6.4.3.8. In general these are spaces larger than 500 sq ft and	Where required by Section 6.4.3.9. In general these are spaces larger than 500 sq ft and design occupancy		

		design occupancy density smaller than 40 sq ft / person, exceptions exist.	density smaller than 25 sq ft / person, though exceptions exist.
<b>Economizer Control?</b>	Differential-Enthalpy	Differential-Enthalpy with fixed upper drybulb limit of 75 °F	n/a
<b>Heat Recovery Efficiency</b>	75%	50%	50%
<b>Supply Air Reset Controls</b>	Reset supply temp up 65 °F when all boxes are at minimum.	5°F higher than design supply airflow under minimal cooling load	5°F higher than design supply airflow under minimal cooling load
<b>Dehumidification</b>	Each space equipped with humidistat that overrides supply air temperature set point.	Override supply air reset controls to meet humidistat setpoint. Reheat only when at box minimum.	Override supply air reset controls to meet humidistat setpoint. Reheat only when at box minimum.

### 6.2.2 Class System Fan Power

The default design fan power is approximately 9” of total static on the central air handling unit. The actual fan power may be much less depending on those features needed for the design. More details are included in the How-To Guide.

The following credits are from ASHRAE 90.1, Table 6.5.3.1.1B and are applied to the baselines in the default templates. Additional fan credits may be available for return/exhaust airflow control devices or sound attenuation sections.

Fan power credits:

Device Credit	Adjustment	Airstream Credit Applied
<b>Fully Ducted Return</b>	0.5 in w.c.	Return
<b>MERV filters &lt;9</b>	0.0 in w.c.	No credit
<b>MERV 9-12 filters</b>	0.5 in w.c.	Project specific pre-filter on OA
<b>MERV 13-15 filters</b>	0.9 in w.c.	Supply Airflow
<b>Carbon filter</b>	Clean filter pressure drop	Project Specific, Outdoor Air
<b>Energy Recovery Device #1 (preheat)</b>	2.2 x ER Effectiveness – 0.5 in w.c.	OA and Exhaust/Relief air (fan power credit is applied to both airstreams)
<b>Energy Recovery Device #2 (reheat)</b>	2.2 x ER Effectiveness – 0.5 in w.c.	Project Specific, Supply and Return (fan power credit is applied to both airstreams)
<b>Sound attenuation section</b>	0.15 in w.c.	Project Specific, Supply

### 6.3 Inputs for CORRIDOR-SYS

This system is only applicable to corridors serving additions which are connected to existing buildings without envelope renovations. All other corridors will be served by the CLASS-SYS.

	Design	LL86 Baseline	GSG Baseline
<b>eQuest System Type</b>	Packaged Variable Air Volume	Packaged Variable Air Volume	NA- no corridor system. Corridors included with CLASS-SYS regardless of design
<b>Fan Control</b>	Variable Air Volume	Variable Air Volume	
<b>Minimum Flow Ratio</b>	30%	30%	
<b>Cooling Efficiency</b>	EER 0.2 higher than ASHRAE 90.1-2010 for existing construction applications	Per ASHRAE 90.1-2013 Table 6.8.1-1	
	Max Capacity   EER	Max Capacity	EER
	65 kBtu/h   13.2 SEER	65 kBtu/h	14.0 SEER
	135 kBtu/h   11.2	135 kBtu/h	12.7 IEER
	240 kBtu/h   11.0	240 kBtu/h	12.4 IEER
	760 kBtu/h   10.0	760 kBtu/h	11.4 IEER
	> 760 kBtu/h   9.7	> 760 kBtu/h	11.0 IEER
	For new construction NA – cooling from chiller		
<b>Heating Efficiency</b>	NA- heating from boiler	NA- heating from boiler	
<b>Cooling Available</b>	When Chiller runs	As needed	
<b>Demand Controlled Ventilation?</b>	No	No	
<b>Economizer Control?</b>	Differential-Enthalpy	Differential-Enthalpy with fixed upper drybulb limit of 75 °F	None (not required)
<b>Heat Recovery Efficiency</b>	70%	50%	
<b>Fan Power Credits</b>		Fully ducted return MERV 13 filters Heat recovery device	

### 6.4 Inputs for GYM-SYS, MP-SYS, AUDITOR-SYS, AUX-GYM-SYS

	Design	LL86 Baseline	GSG Baseline
<b>eQuest System Type</b>	Variable Air Volume (Single Zone)	Packaged Single Zone DX (modeled as PTAC with PSZ efficiencies)	Packaged Single Zone DX (modeled as PTAC with PSZ efficiencies)
<b>Fan Control</b>	Variable Air Volume	Constant Volume, Two-Speed for units greater	Constant Volume

		than 65k BTU/h cooling capacity			
<b>Minimum Flow Ratio</b>	Outdoor Air Flow Rate	100% (66% where two speed)	100%		
<b>Cooling Efficiency</b>	NA- cooling from chiller	Per ASHRAE 90.1-2013 Table 6.8.1-1	Per ASHRAE 90.1-2010 Table 6.8.1A		
		Max Capacity	EER	Max Capacity	EER
		65 kBtu/h	14.0 SEER	65 kBtu/h	13.0 SEER
		135 kBtu/h	12.7 IEER	135 kBtu/h	11.0
		240 kBtu/h	12.2 IEER	240 kBtu/h	10.8
		760 kBtu/h	11.4 IEER	760 kBtu/h	9.8
		> 760 kBtu/h	11.0 IEER	> 760 kBtu/h	9.5
<b>Heating Efficiency</b>	NA- heating from boiler	Per ASHRAE 90.1 2013 Table 6.8.1-5	Per ASHRAE 90.1-2010 Table 6.8.1E		
		Max Capacity	Efficiency	Max Capacity	Efficiency
		225 kBtu/h	80% Et	225 kBtu/h	80% Et
		> 225 kBtu/h	81% Et	> 225 kBtu/h	80% Et
<b>Cooling Available</b>	When Chiller runs	As needed	As needed		
<b>Demand Controlled Ventilation?</b>	Yes, CO <sub>2</sub> -based	Where required by Section 6.4.3.8.	No		
<b>Economizer Control?</b>	Differential-Enthalpy	Differential Enthalpy with fixed dry-bulb temp of 75 °F	None (not required)		
<b>Heat Recovery Efficiency</b>	75%	50%	50%		
<b>Fan Power Credits</b>		Fully ducted return MERV 13 filters Heat recovery device	Fully ducted return MERV 13 filters Heat recovery device		

## 6.5 Inputs for K/C-SYS

This system serves the cafeteria and the kitchen, and provides make-up air to the kitchen hood. The design team may elect to use demand controlled ventilation instead of or in addition to energy recovery. It is important to note that demand control ventilation is only available when the kitchen hood is off, otherwise the outdoor air rate is fixed to meet the kitchen make-up air requirements. Energy is not recovered from the air exhausted through the kitchen hood in the design.

	<b>Design</b>	<b>LL86 Baseline</b>	<b>GSG Baseline</b>
<b>eQuest System Type</b>	Variable Air Volume (Single Zone)	Packaged Single Zone DX (modeled as PTAC with PSZ efficiencies)	Packaged Single Zone DX (modeled as PTAC with PSZ efficiencies)
<b>Fan Control</b>	Variable Volume	Constant Volume, Two-Speed for units greater than 65k BTU/h cooling capacity	Constant Volume

<b>Minimum Flow Ratio</b>	Kitchen Hood Exhaust Rate or, if KX off, Cafeteria demand control outdoor air rate	100% (66% where two speed)	100%		
<b>Cooling Efficiency</b>	NA- cooling from chiller	Per ASHRAE 90.1-2013 Table 6.8.1-1	Per ASHRAE 90.1-2010 Table 6.8.1A		
		Max Capacity	EER	Max Capacity	EER
		65 kBtu/h	14.0 SEER	65 kBtu/h	13.0 SEER
		135 kBtu/h	12.7 IEER	135 kBtu/h	11.0
		240 kBtu/h	12.2 IEER	240 kBtu/h	10.8
		760 kBtu/h	11.4 IEER	760 kBtu/h	9.8
> 760 kBtu/h	11.0 IEER	> 760 kBtu/h	9.5		
<b>Heating Efficiency</b>	NA- heating from boiler	Per ASHRAE 90.1-2013 Table 6.8.1-5	Per ASHRAE 90.1-2010 Table 6.8.1E		
		Max Capacity	Efficiency	Max Capacity	Efficiency
		225 kBtu/h	80% Et	225 kBtu/h	80% Et
		> 225 kBtu/h	80% Et	> 225 kBtu/h	80% Et
<b>Cooling Available</b>	When chiller runs	As needed	As needed		
<b>Demand Controlled Ventilation?</b>	Yes, CO <sub>2</sub> -based when kitchen hood off	No due to make-up air requirements	No		
<b>Economizer Control?</b>	Differential-Enthalpy	Differential Enthalpy with fixed dry-bulb temp of 75 °F	None (not required)		
<b>Heat Recovery Efficiency</b>	75%	50%	50%		
<b>Fan Power Credits</b>		Fully ducted return MERV 13 filters Heat recovery device	Fully ducted return MERV 13 filters Heat recovery device		

## 6.6 Inputs for DATA-SYS

This system type is intended to serve spaces that require minimal heating and may require year-round cooling, such as data rooms, electrical rooms, or elevator machine rooms. The standard proposed design is an air source heat pump with electric back-up. Since these units typically do not provide much heating, the heating source and efficiency are of little consequence.

	<b>Design</b>	<b>LL86 Baseline</b>	<b>GSG Baseline</b>
<b>System Type</b>	(modeled as PTAC with PSZ-HP efficiencies) Proposed system a single zone split heat pump	Packaged Single Zone DX (modeled as PTAC with PSZ-HP efficiencies)	(modeled as PTAC with PSZ-AC efficiencies)
<b>Fan Control</b>	Constant Volume	Constant Volume	Constant Volume
<b>Minimum Flow Ratio</b>	100%	100%	100%
<b>Cooling Efficiency</b>	Per ASHRAE 90.1-2010 Table 6.8.1B (split system)	Per ASHRAE 90.1-2013 Table 6.8. 1-2 (split)	Per ASHRAE 90.1-2010 Table 6.8.1A

			system)			
	Max Capacity	EER	Max Capacity	EER	Max Capacity	EER
	65 kBtu/h	13.0 SEER	65 kBtu/h	14.0 SEER	65 kBtu/h	13.0 SEER
	135 kBtu/h	10.8	135 kBtu/h	12.0 IEER	135 kBtu/h	11.0
	240 kBtu/h	10.4	240 kBtu/h	11.4 IEER	240 kBtu/h	10.8
					760 kBtu/h	9.8
	> 240 kBtu/h	9.3	> 240 kBtu/h	9.4 IEER	> 760 kBtu/h	9.5
<b>Heating Efficiency*</b>	Per ASHRAE 90.1-2013 Table 6.8.1-2 (heating mode 47 F design)		Per ASHRAE 90.1-2013 Table 6.8.1-2 (heating mode 47 F design)		Per ASHRAE 90.1-2010 Table 6.8.1E	
	Max Capacity	Efficiency	Max Capacity	Efficiency	Max Capacity	Efficiency
	65 kBtu/h	8.2 HSPF	65 kBtu/h	8.2 HSPF	225 kBtu/h	80% Et
	135 kBtu/h	3.3 COP	135 kBtu/h	3.3 COP		
	>135 kBtu/h	3.2 COP	>135 kBtu/h	3.2 COP	>225 kBtu/h	80% Et
<b>Cooling Available</b>	As needed		As needed		As needed	
<b>Demand Controlled Ventilation?</b>	No		No		No	
<b>Economizer Control?</b>	No		No		No	
<b>Heat Recovery Efficiency</b>	NA		NA		NA	
<b>Fan Power Credits</b>			None		None	

## 7 WATER-SIDE HVAC

### 7.1 General

No stand-by equipment shall be included in the model. For chilled water loops, primary pumps shall be attached to the chiller, and secondary pumps, if present, shall be attached to the loop. For hot water loops with primary-only pumps, the pumps shall be attached to the loop. If the hot water loop has primary and secondary pumps, the primary pumps shall be attached to the boiler and the secondary pumps shall be attached to the loop.

### 7.2 Chiller

The proposed chillers have a 30% propylene glycol solution. The modeled efficiency reflects a 10% reduction of performance efficiency due to the propylene glycol. The proposed design is an air-cooled chiller thus LL86 baseline does not use chillers, so no information is provided in this section.

	Design	GSG Baseline	
<b>Type</b>	Air cooled w/ 30% propylene glycol solution in primary loop	Size Dependent	
		Max Capacity	Type
		300 tons	1 screw chiller
		600 tons	2 screw chillers
		> 600 tons	2 centrifugal
<b>Full Load Cooling Efficiency</b>	AHRI Rating Conditions: X kW/ton	Size Dependent, per ASHRAE 90.1-2010 Table 6.8.1C, Path A	
	Design Conditions 1.297 kW/ton (adjusted for 30% propylene glycol)	Chiller Capacity	Efficiency
		75 tons	0.780 kW/ton
		150 tons	0.775 kW/ton
		300 tons	0.680 kW/ton
		600 tons	0.576 kW/ton
		> 600 tons	0.570 kW/ton
<b>Integrate/ Normalized Part Load Value (Cooling Efficiency)</b>	AHRI Rating Conditions (IPLV): X kW/ton	Size Dependent, per ASHRAE 90.1-2010 Table 6.8.1C, Path A	
	Design Conditions (NPLV): 0.884 kW/ton	Chiller Capacity	Efficiency
		75 tons	0.630 kW/ton
		150 tons	0.615 kW/ton
		300 tons	0.580 kW/ton
		600 tons	0.549 kW/ton
		> 600 tons	0.539 kW/ton
<b>Loop DT</b>	12°F (44 °F LWT, 56 °F EWT)	12°F(44 °F LWT, 56 °F EWT)	
<b>Water Temp. Reset Controls</b>	Demand Reset	Outdoor air – supply water temp reset. 44 °F water @ 80 °F and above, 54 °F water @ 60 °F and below	
<b>Oversizing Factor</b>	Sized per Design Documents	100%	

### 7.3 Boiler

The standard proposed design boilers are condensing so their efficiency will depend on the design return water temperature from the FTR, reheat coils, and preheat coils.

	Design	LL86 Baseline		GSG Baseline	
<b>Boiler Type</b>	Modulating Condensing w/ 30% propylene glycol solution in primary loop	Gas Fired, spark ignition, Hot Water		Gas Fired, Hot Water	
<b>Full Load Rated Efficiency</b>	AHRI Rating Conditions: 97% (80°F RWT)	Per ASHRAE 90.1-2013 Table 6.8.1-6		Per ASHRAE 90.1-2010 Table 6.8.1F	
	Design Conditions: 93% (@120 F return)86% (@140 F return)	<300 kBTU	82% AFU	<300 kBTU	80% AFU
		<2500kBTU	80% E <sub>t</sub>	<2500kBTU	80% E <sub>t</sub>
		>2500kBTU	82% E <sub>c</sub>	>2500kBTU	82% E <sub>c</sub>
<b>Water Temp. Reset</b>	Outdoor air – return	Outdoor air – supply		Outdoor air – supply water	

<b>Controls</b>	water temp reset. 140 °F water @ 20 °F and below, 120 °F water @50 °F and above	water temp reset. 180 °F water @ 20 °F and below, 150 °F water @50 °F and above	temp reset. 180 °F water @ 20 °F and below, 150 °F water @50 °F and above
<b>Loop DT</b>	Primary Loop : 40° F (180°F LWT, 140°F RWT) Secondary Loops: <i>FTR – 20° F</i> <i>DIU – 7° F</i> <i>Air Handler – 40° F</i>	50°F	50°F
<b>Oversizing Factor</b>	Sized per Design Documents	100%	100%



## 7.4 Pump

	Design	LL86 Baseline	GSG Baseline
<b>Hot Water Loop</b>			
<b>Pump Configuration</b>	Project specific	Match Proposed Design, unless no hot water plant in proposed, then Primary only.	Primary Only
<b>Pump Power Density</b>	Project specific (typical total value 35 W/gpm)	Match Proposed Design unless no hot water plant, then 19 W/gpm	19 W / gpm
<b>Flow Controls</b>	Project specific, at minimum variable speed drives on primary and secondary pumps	Variable speed drives as required by 6.5.4.2 Two-way valves on coils.	Variable speed drives for buildings over 120,000 sq ft. Otherwise ride pump curve. Two-way valves on coils.
<b>Chilled Water Loop</b>			
<b>Pump Configuration</b>	Project specific	n/a DX cooling	Primary / Secondary
<b>Pump Power Density</b>	Project specific (typical total value 50 W/gpm)	n/a DX cooling	22 W / gpm split between the primary and secondary. Split power evenly if no proposed plant, otherwise
<b>Flow Controls</b>	Project specific, at minimum variable speed drives on primary and secondary pumps	n/a DX cooling	Constant speed primary pumps, variable speed secondary pumps. Two-way valves on coils
<b>Condenser Water Loop</b>			
<b>Pump Configuration</b>	n/a air cooled chiller	n/a DX cooling	One pump per chiller
<b>Pump Power Density</b>	n/a air cooled chiller	n/a DX cooling	19 W/gpm
<b>Flow Controls</b>	n/a air cooled chiller	n/a DX cooling	Constant speed
<b>Water Source Heat Pump Loop</b>			
	Project specific	Single pump matching proposed design pump power density unless no water source heat pump, then 22 W / gpm. Pump shall be variable flow, with VFD as required by 6.5.4.4 (No temperature reset controls)	None (always chiller/boiler or air cooled heat pump)

## 7.5 Heat Rejection

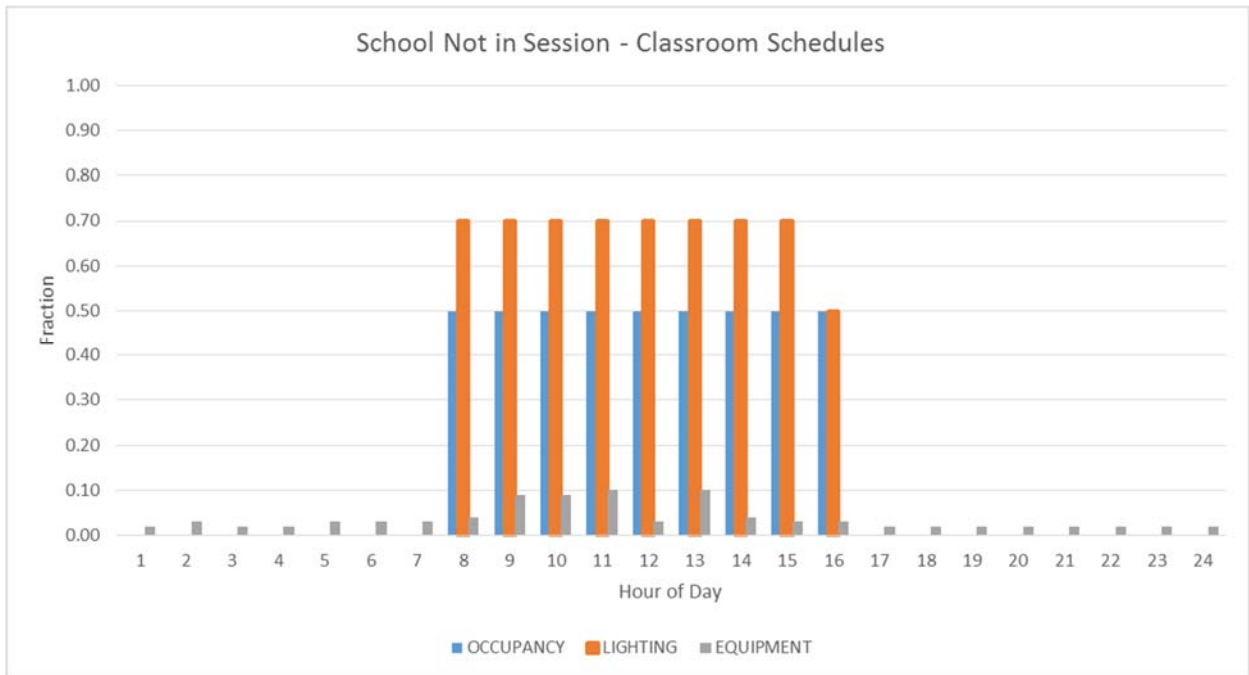
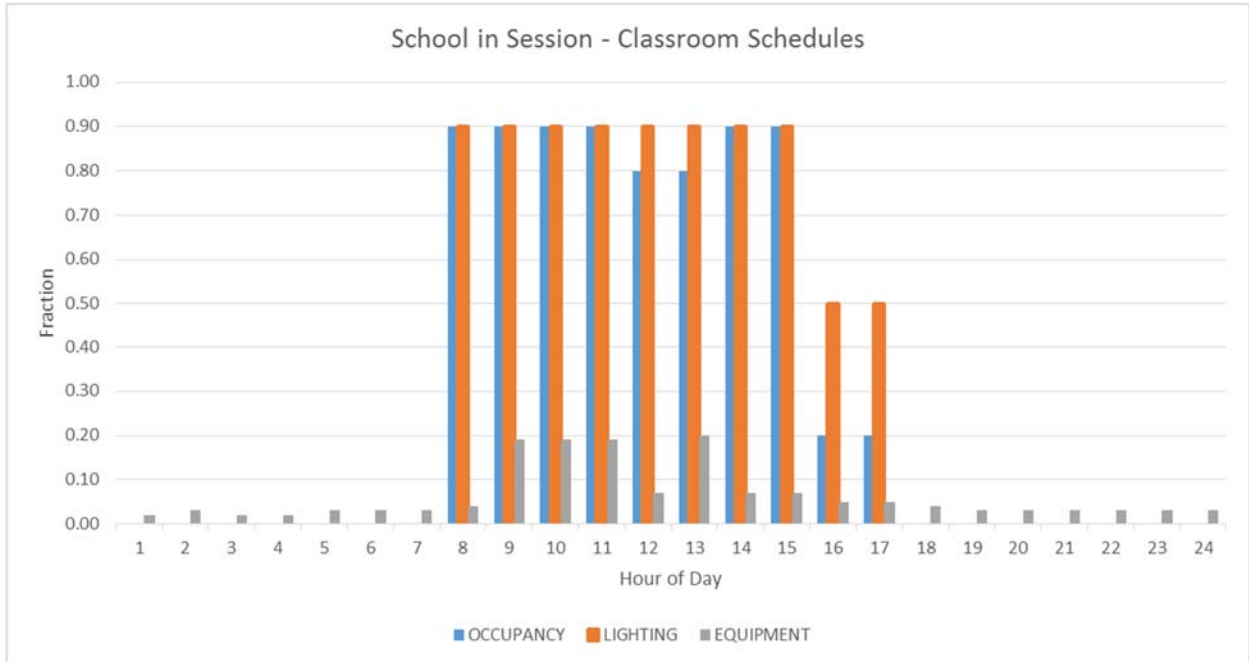
Applicable to GSG Baseline > 150,000 ft<sup>2</sup> only.

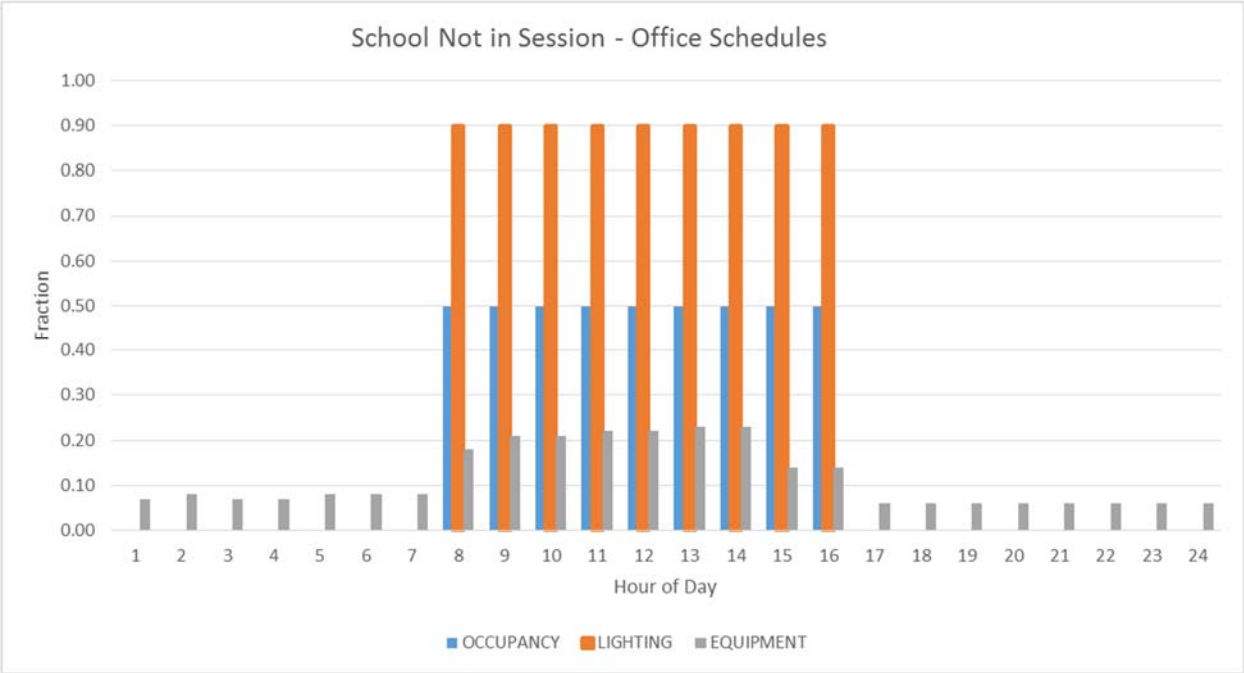
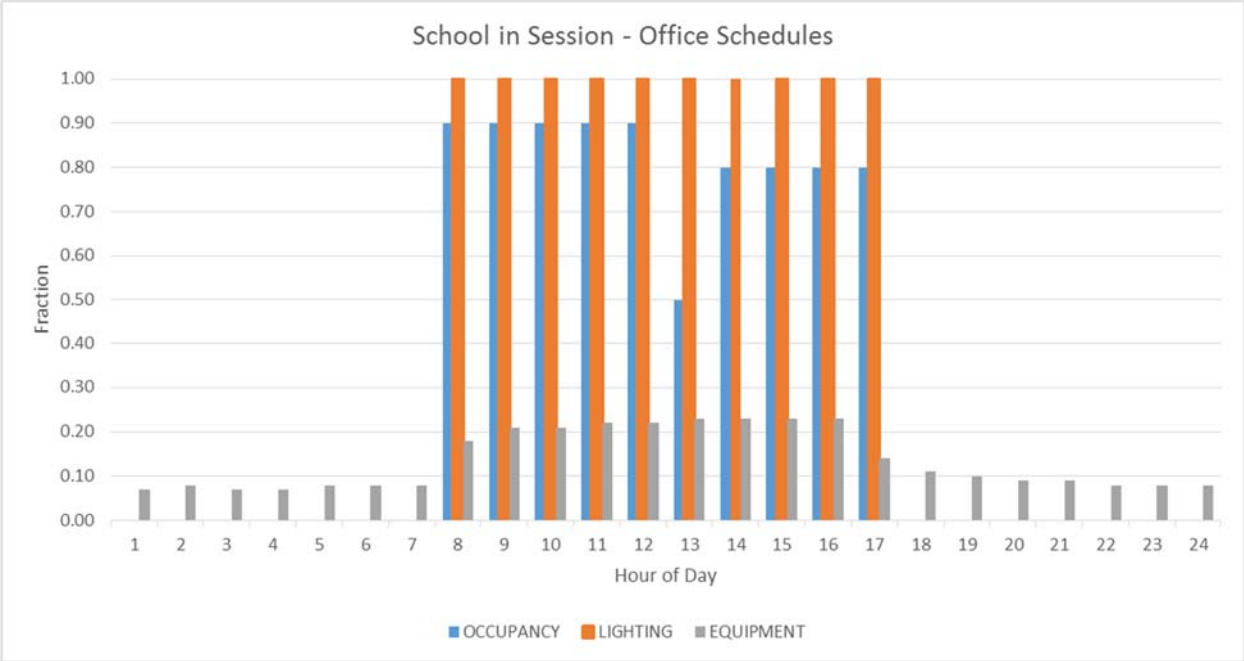
	Design	LL86 Baseline	GSG Baseline
<b>Cooling Tower Type</b>	Project Specific (not	n/a	Two Speed – Axial Fan, open tower

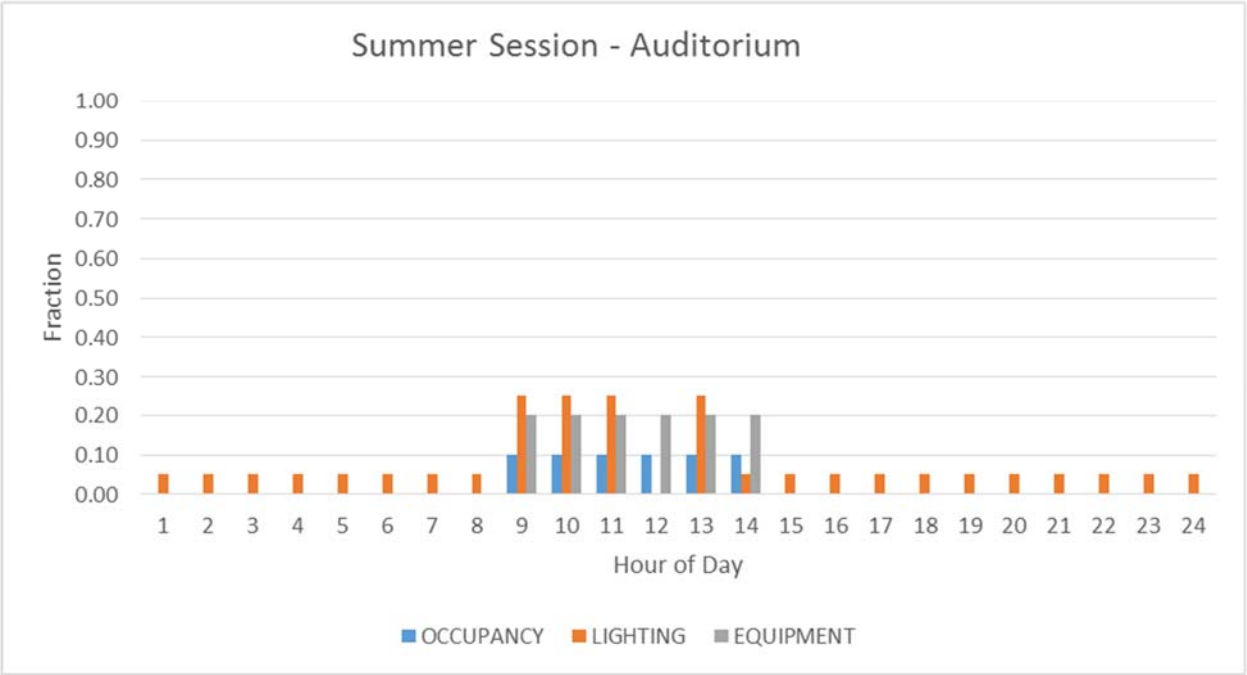
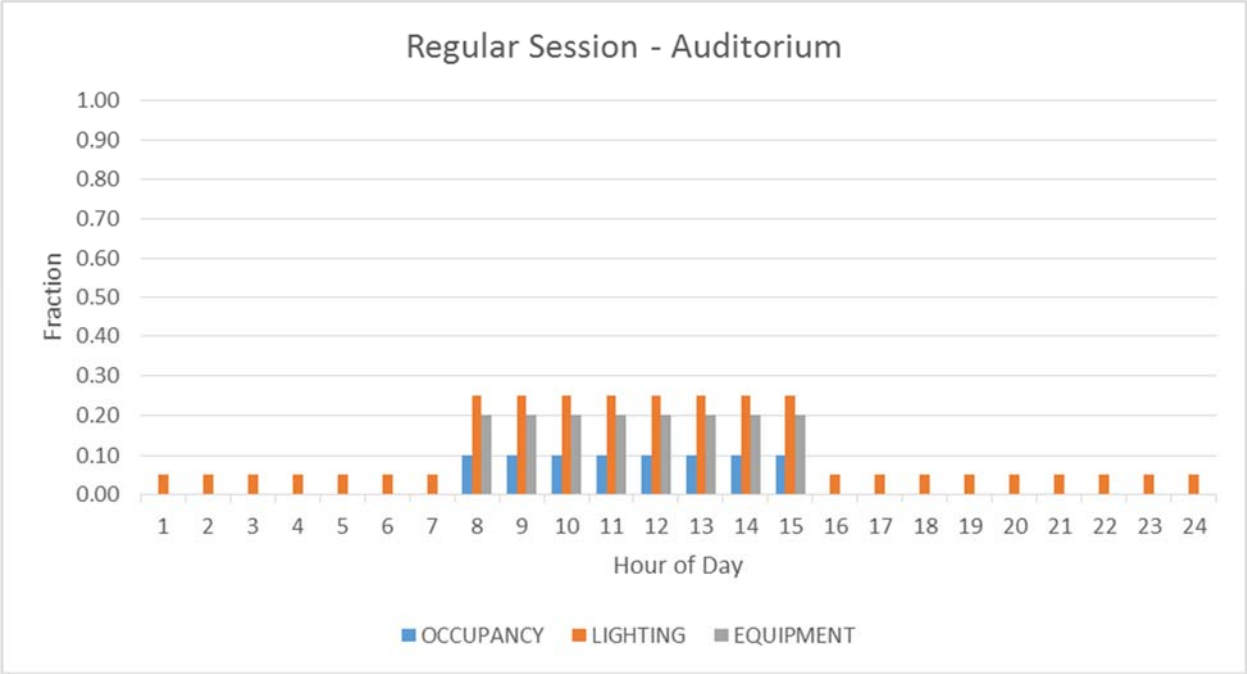
	typical)		
<b>Rating Conditions</b>	n/a	n/a	85 deg F leaving water temp, or a 10 deg F approach to design day wet bulb temperature, whichever is smaller
<b>Reset Controls</b>	n/a	n/a	Reset leaving water temp down to 70 deg F minimum. (Modeled as a wet-bulb reset schedule)
<b>Fan Sizing</b>	n/a	n/a	Assume 3 gpm / ton design cooling, Table 6.8.1G 38.2 gpm/ Hp

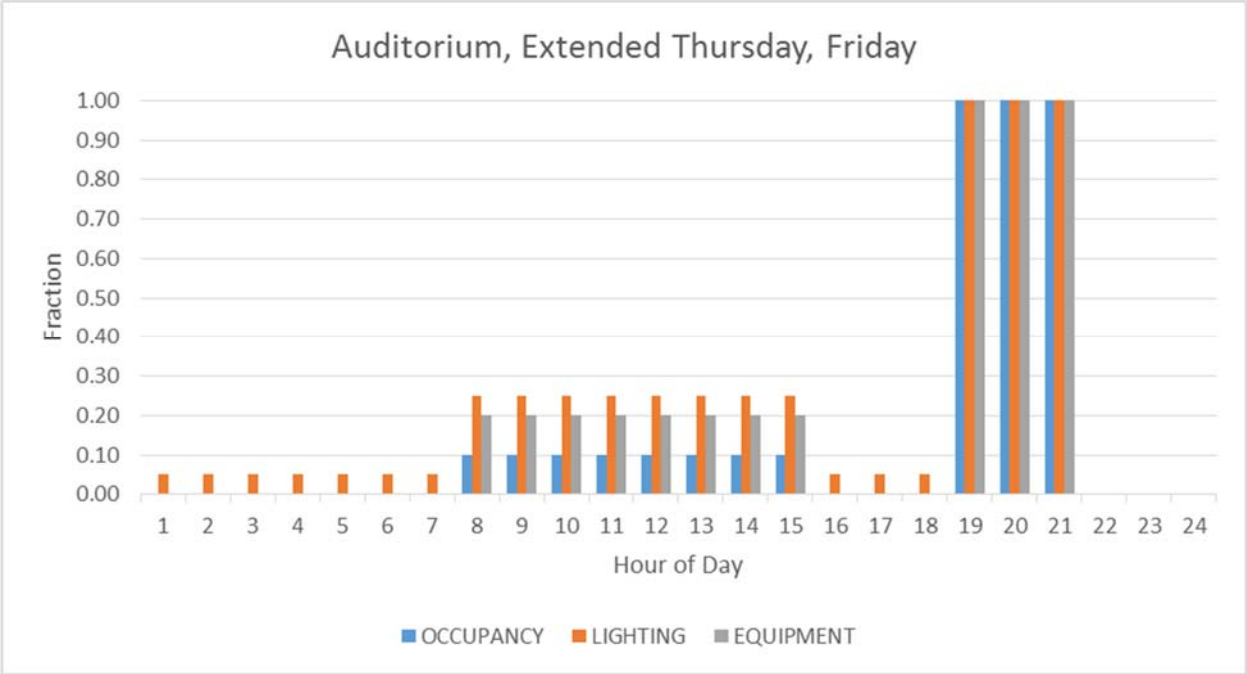
**APPENDIX A. ECC SCHEDULE DETAILS**

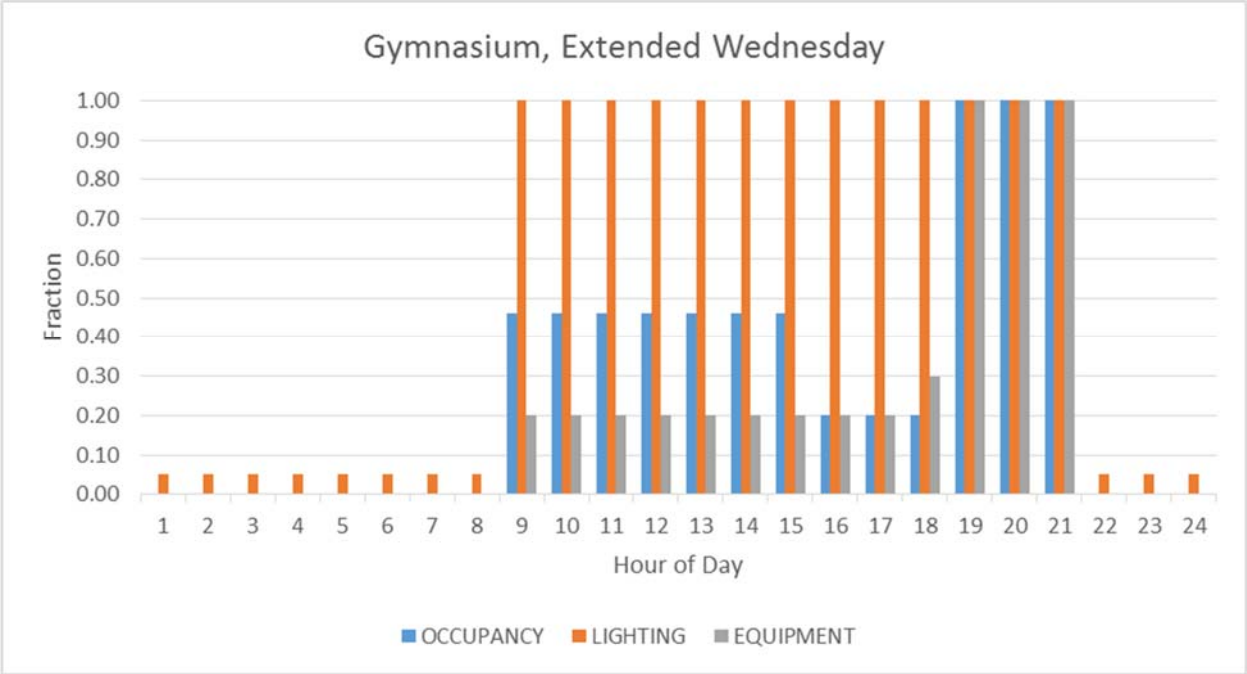
### A1. SCHEDULE FOR TYPICAL SPACES, EXTENDED SCHEDULE



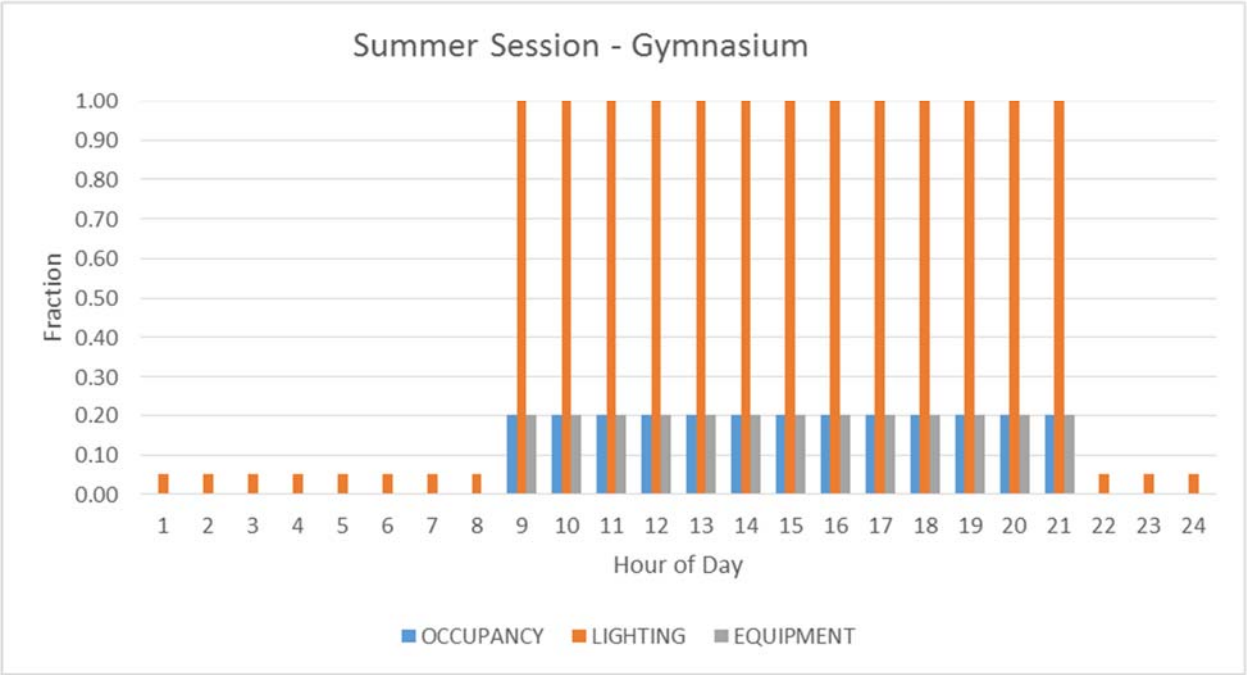
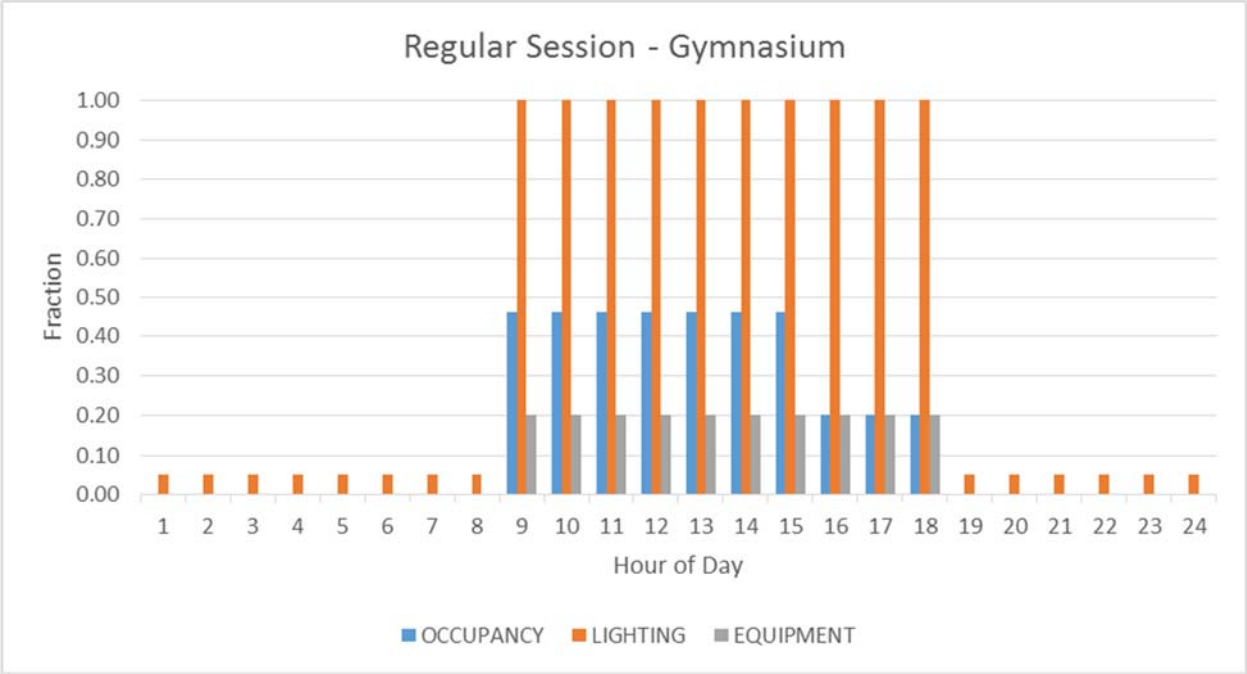


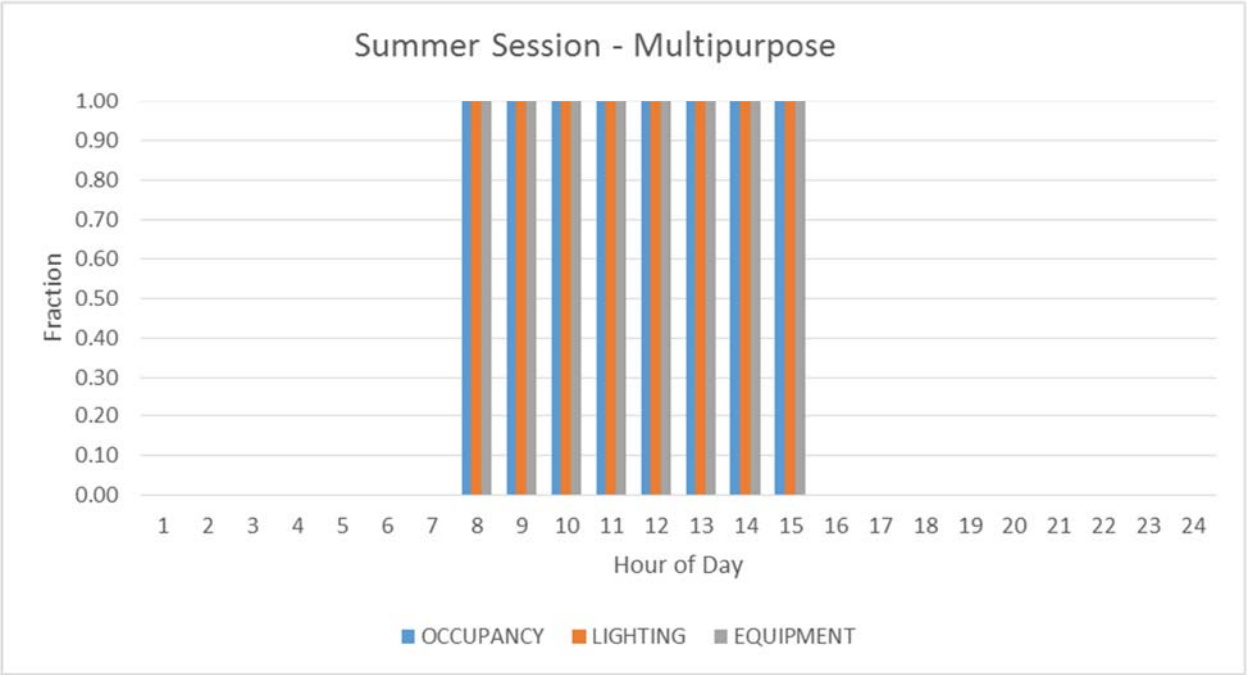
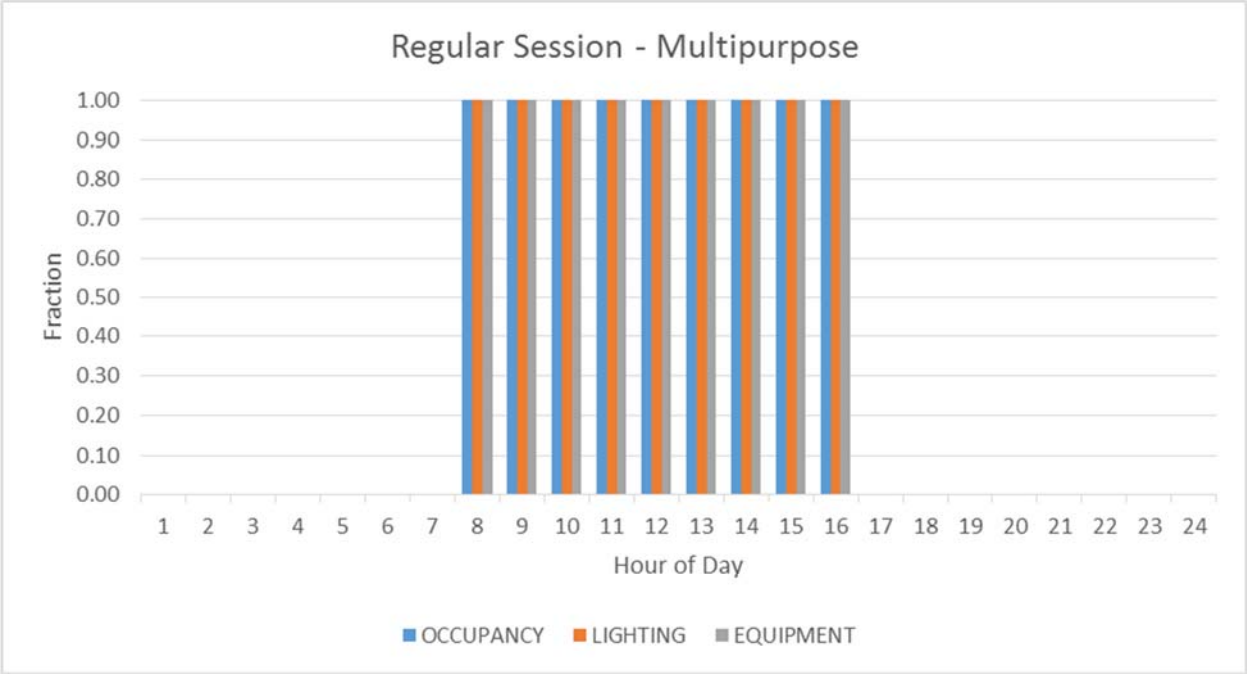












Schedule Name	Effective	12-1 am	1-2 am	2-3 am	3-4 am	4-5 am	5-6 am	6-7 am	7-8am	8-9 am	9-10 am	10-11 am	11-noon	noon-1 pm	1-2 pm	2-3 pm	3-4 pm	4-5 pm	5-6pm	6-7pm	7-8pm	8-9pm	9-10 pm	10-11 pm	11-12 mid	
ALWAYS-OFF-FAN	All days	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ALWAYS-OFF-F-YR	All days	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ALWAYS-OFF-MCR	All days	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ALWAYS-ON-FAN	All days	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ALWAYS-ON-F-YR	All days	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
AUD-AUX-EQP-YR	Regular, M-W	0	0	0	0	0	0	0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0	0	0	0	0	0	0	0	0	0
AUD-AUX-EQP-YR	Regular, Th-Fri	0	0	0	0	0	0	0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0	0	0	1	1	1	0	0	0	0
AUD-EXT-EQP-YR	Summer	0	0	0	0	0	0	0	0	0.2	0.2	0.2	0.2	0.2	0.2	0	0	0	0	0	0	0	0	0	0	0
AUD-EXT-LT-YR	Regular, M-W	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
AUD-EXT-LT-YR	Regular, Th-Fri	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.05	0.05	0.05	1	1	1	0	0	0	0
AUD-EXT-LT-YR	Summer	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.25	0.25	0.25	0	0.25	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
AUD-EXT-OCC-YR	Regular, M-W	0	0	0	0	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0	0	0	0	0	0	0	0	0	0
AUD-EXT-OCC-YR	Regular, Th-Fri	0	0	0	0	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0	0	0	1	1	1	0	0	0	0
AUD-EXT-OCC-YR	Summer	0	0	0	0	0	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0	0	0	0	0	0	0	0	0	0	0
AUD-CL-YR	Regular	85	85	85	85	85	85	85	78	78	78	78	78	78	78	78	85	85	85	78	78	78	85	85	85	85
AUD-CL-YR	Heating Season	85	85	85	85	85	85	85	85	78	78	78	78	78	78	85	85	85	85	85	85	85	85	85	85	85
AUD-EQP-YR	Regular	0	0	0	0	0	0	0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0	0	0	0	0	0	0	0	0	0
AUD-EQP-YR	Summer	0	0	0	0	0	0	0	0	0.2	0.2	0.2	0.2	0.2	0.2	0	0	0	0	0	0	0	0	0	0	0
AUD-FAN-SCH	Regular, M-W	0	0	0	0	-999	-999	-999	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
AUD-FAN-SCH	Regular, Th-Fri	0	0	0	0	-999	-999	-999	1	1	1	1	1	1	1	1	0	0	0	1	1	1	0	0	0	0
AUD-FAN-SCH	Summer	0	0	0	0	-999	-999	-999	-999	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
AUD-HT-YR	Heating Season	55	55	55	55	55	55	55	72	72	72	72	72	72	72	72	55	55	55	55	55	55	55	55	55	55
AUD-LT-YR	Regular	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
AUD-LT-YR	Summer	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.25	0.25	0.25	0	0.25	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
AUD-OA-SCH	Regular, M-W	0	0	0	0	0	0	0	-999	-999	-999	-999	-999	-999	-999	-999	0	0	0	0	0	0	0	0	0	0
AUD-OA-SCH	Regular, Th-Fri	0	0	0	0	0	0	0	-999	-999	-999	-999	-999	-999	-999	-999	0	0	0	-999	-999	-999	0	0	0	0
AUD-OA-SCH	Summer	0	0	0	0	0	0	0	-999	-999	-999	-999	-999	-999	-999	-999	0	0	0	0	0	0	0	0	0	0
AUD-OCC-YR	Regular	0	0	0	0	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0	0	0	0	0	0	0	0	0	0
AUD-OCC-YR	Summer	0	0	0	0	0	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0	0	0	0	0	0	0	0	0	0	0

AUX-GYM-CL-YR	Regular	85	85	85	85	85	85	85	85	78	78	78	78	78	78	78	78	78	78	85	85	85	85	85	85
AUX-GYM-CL-YR	Summer	85	85	85	85	85	85	85	85	78	78	78	78	78	78	78	78	78	85	85	85	85	85	85	85
AUX-GYM-FAN-SCH	Regular	0	0	0	0	-999	-999	-999	-999	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0
AUX-GYM-FAN-SCH	Summer	0	0	0	0	-999	-999	-999	-999	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
AUX-GYM-HT-YR	Heating Season	55	55	55	55	55	55	55	55	72	72	72	72	72	72	72	72	72	72	55	55	55	55	55	55
AUX-GYM-OA-SCH	Regular	0	0	0	0	0	0	0	0	-999	-999	-999	-999	-999	-999	-999	-999	-999	-999	0	0	0	0	0	0
AUX-GYM-OA-SCH	Summer	0	0	0	0	0	0	0	0	-999	-999	-999	-999	-999	-999	-999	-999	-999	-999	0	0	0	0	0	0
CAFE-CL-YR	Regular	85	85	85	85	85	85	85	85	78	78	78	78	78	78	78	78	78	85	85	85	85	85	85	85
CAFE-EQP-YR	Regular	0	0	0	0	0	0	0	0.5	0.2	0.2	0.2	1	1	1	0.2	0.2	0	0	0	0	0	0	0	0
CAFE-EQP-YR	Summer	0	0	0	0	0	0	0	0.2	0.2	0.2	0.2	0.75	0.75	0.75	0.2	0.2	0	0	0	0	0	0	0	0
CAFE-FAN-SCH	Regular	0	0	0	0	-999	-999	-999	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
CAFE-FAN-SCH	Summer	0	0	0	0	-999	-999	-999	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
CAFE-HT-YR	Heating Season	55	55	55	55	55	55	55	72	72	72	72	72	72	72	72	72	55	55	55	55	55	55	55	55
CAFE-LT-YR	Regular	0.05	0.05	0.05	0.05	0.05	0.05	0.05	1	0.5	0.5	0.5	1	1	1	0.5	0.5	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
CAFE-LT-YR	Summer	0.05	0.05	0.05	0.05	0.05	0.05	0.05	1	0.5	0.5	0.5	1	1	1	0.5	0.5	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
CAFE-OA-SCH	Regular	0	0	0	0	0	0	0	-999	-999	-999	-999	-999	-999	-999	-999	-999	0	0	0	0	0	0	0	0
CAFE-OA-SCH	Summer	0	0	0	0	0	0	0	-999	-999	-999	-999	-999	-999	-999	-999	-999	0	0	0	0	0	0	0	0
CAFE-OCC-YR	Regular	0	0	0	0	0	0	0	1	0.1	0.1	0.1	1	1	1	0.1	0.1	0	0	0	0	0	0	0	0
CAFE-OCC-YR	Summer	0	0	0	0	0	0	0	0.5	0.1	0.1	0.1	0.5	0.5	0.5	0.1	0.1	0	0	0	0	0	0	0	0
CL-85-YR	All days	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85
CLASS-AUX-LT-YR	Regular	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.4	0.4	0.4	0.4	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
CLASS-AUX-LT-YR	Summer	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
CLASS-CL-YR	Cooling Season	85	85	85	85	85	85	85	78	78	78	78	78	78	78	78	78	78	78	85	85	85	85	85	85
CLASS-EQP-YR	Regular	0.02	0.02	0.02	0.02	0.02	0.03	0.04	0.06	0.20	0.21	0.22	0.12	0.27	0.09	0.08	0.09	0.09	0.05	0.04	0.04	0.03	0.02	0.02	0.02
CLASS-EQP-YR	Summer	0.02	0.02	0.02	0.02	0.02	0.03	0.04	0.06	0.10	0.10	0.11	0.06	0.13	0.05	0.04	0.05	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03
CLASS-FAN-SCH	Regular	0	0	0	0	-999	-999	-999	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0
CLASS-FAN-SCH	Summer	0	0	0	0	-999	-999	-999	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0
CLASS-HT-YR	Heating Season	55	55	55	55	55	55	55	72	72	72	72	72	72	72	72	72	72	72	55	55	55	55	55	55
CLASS-LT-YR	Regular	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.5	0.5	0.5	0.05	0.05	0.05	0.05	0.05	0.05
CLASS-LT-YR	Summer	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.5	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
CLASS-OA-SCH	Regular	0	0	0	0	0	0	0	-999	-999	-999	-999	-999	-999	-999	-999	-999	-999	-999	0	0	0	0	0	0
CLASS-OA-SCH	Summer	0	0	0	0	0	0	0	-999	-999	-999	-999	-999	-999	-999	-999	-999	-999	-999	0	0	0	0	0	0
CLASS-OCC-YR	Regular	0	0	0	0	0	0	0	0.1	0.9	0.9	0.9	0.8	0.8	0.9	0.9	0.2	0.2	0.2	0	0	0	0	0	0
CLASS-OCC-YR	Summer	0	0	0	0	0	0	0	0.1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0	0	0	0	0	0	0	0	0
CL-DATA	All days	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85
CL-MECH	All days	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
CL-RESTRM	Regular	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
CL-RESTRM	Summer	85	85	85	85	85	85	85	78	78	78	78	78	78	78	78	78	78	85	85	85	85	85	85	85

CL-STOR	All days	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	
COOLOFF	All days	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COOL-ON-YR	All days	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
COOLSEASON-DATA	All days	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
COPY-EQP-YR	Regular	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.04	0.04	0.04	0.04	0.04
COPY-EQP-YR	Summer	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.03	0.03	0.03	0.03	0.03	0.03	0.03
CORR-CL-YR	Regular	85	85	85	85	85	85	85	78	78	78	78	78	78	78	78	78	78	78	85	85	85	85	85	85
CORR-CL-YR	Summer	85	85	85	85	85	85	85	78	78	78	78	78	78	78	78	78	78	78	85	85	85	85	85	85
CORR-HT-YR	Heating Season	55	55	55	55	55	55	55	72	72	72	72	72	72	72	72	72	72	72	55	55	55	55	55	55
CORR-LT-YR	Regular	0.05	0.05	0.05	0.05	0.05	0.05	0.05	1	1	1	1	1	1	1	1	1	1	1	0.05	0.05	0.05	0.05	0.05	0.05
CORR-LT-YR	Summer	0.05	0.05	0.05	0.05	0.05	0.05	0.05	1	1	1	1	1	1	1	1	1	1	1	0.05	0.05	0.05	0.05	0.05	0.05
DATA-EQP-YR	Regular	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.15	0.15	0.15	0.15	0.15	0.15
DATA-EQP-YR	Summer	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.15	0.15	0.15	0.15	0.15	0.15	0.15
DATA-FAN-SCH	All days	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
DHWSCH	All days	0.01	0.01	0.01	0.01	0.01	0.01	0.1	0.3	0.3	0.2	0.2	0.5	0.5	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.01	0.01	0.01	0.01
GYM-EXT-EQP-YR	Regular, M,Tu,Th,Fri	0	0	0	0	0	0	0	0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0	0	0	0	0	0
GYM-EXT-EQP-YR	Regular, W	0	0	0	0	0	0	0	0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	1	1	1	0	0	0
GYM-EXT-EQP-YR	Summer	0	0	0	0	0	0	0	0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0	0	0
GYM-EXT-LT-YR	Regular, M,Tu,Th,Fri	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	1	1	1	1	1	1	1	1	1	1	0.05	0.05	0.05	0.05	0.05	0.05
GYM-EXT-LT-YR	Regular, W	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	1	1	1	1	1	1	1	1	1	1	1	1	1	0.05	0.05	0.05
GYM-EXT-LT-YR	Summer	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
GYM-EXT-OCC-YR	Regular, M,Tu,Th,Fri	0	0	0	0	0	0	0	0	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.2	0.2	0.2	0	0	0	0	0
GYM-EXT-OCC-YR	Regular, W	0	0	0	0	0	0	0	0	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.2	0.2	0.2	1	1	1	0	0
GYM-EXT-OCC-YR	Summer	0	0	0	0	0	0	0	0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0	0	0
GYM-CL-YR	Regular, M,Tu,Th,Fri	85	85	85	85	85	85	85	85	78	78	78	78	78	78	78	78	78	78	85	85	85	85	85	85
GYM-CL-YR	Regular, W	85	85	85	85	85	85	85	85	78	78	78	78	78	78	78	78	78	78	78	78	78	78	85	85
GYM-EXT-CL-YR	Regular, W	85	85	85	85	85	85	85	85	78	78	78	78	78	78	78	78	78	78	78	78	78	78	85	85
GYM-CL-YR	Summer	85	85	85	85	85	85	85	85	78	78	78	78	78	78	78	78	78	78	78	78	78	78	85	85
GYM-EQP-YR	Regular	0	0	0	0	0	0	0	0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0	0	0	0	0	0
GYM-EQP-YR	Summer	0	0	0	0	0	0	0	0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0	0	0
GYM-FAN-SCH	Regular, M,Tu,Th,Fri	0	0	0	0	-999	-999	-999	-999	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0
GYM-FAN-SCH	Regular, W	0	0	0	0	-999	-999	-999	-999	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0
GYM-FAN-SCH	Summer	0	0	0	0	-999	-999	-999	-999	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0
GYM-HT-YR	Heating Season	55	55	55	55	55	55	55	55	72	72	72	72	72	72	72	72	72	72	55	55	55	55	55	55
GYM-EXT-HT-YR	Heating Season, W	55	55	55	55	55	55	55	55	72	72	72	72	72	72	72	72	72	72	72	72	72	55	55	55
GYM-LT-YR	Regular	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	1	1	1	1	1	1	1	1	1	1	0.05	0.05	0.05	0.05	0.05	0.05

GYM-LT-YR	Summer	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	1	1	1	1	1	1	1	1	1	1	1	1	0.05	0.05	0.05
GYM-OA-SCH	Regular, M,Tu,Th,Fri	0	0	0	0	0	0	0	0	-999	-999	-999	-999	-999	-999	-999	-999	-999	-999	-999	-999	0	0	0
GYM-OA-SCH	Regular, W	0	0	0	0	0	0	0	0	-999	-999	-999	-999	-999	-999	-999	-999	-999	-999	-999	-999	-999	-999	0
GYM-OA-SCH	Summer	0	0	0	0	0	0	0	0	-999	-999	-999	-999	-999	-999	-999	-999	-999	-999	-999	-999	-999	-999	0
GYM-OCC-YR	Regular	0	0	0	0	0	0	0	0	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.2	0.2	0.2	0	0	0	0	0
GYM-OCC-YR	Summer	0	0	0	0	0	0	0	0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
HT-60-YR	All days	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55
HT-DATA	All days	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55
HT-RESTRM	Heating Season	55	55	55	55	55	55	55	72	72	72	72	72	72	72	72	72	72	55	55	55	55	55	55
KITCHEN-CL-YR	Regular	85	85	85	85	85	85	85	78	78	78	78	78	78	78	85	85	85	85	85	85	85	85	85
KITCHEN-CL-YR	Summer	85	85	85	85	85	85	85	78	78	78	78	78	78	85	85	85	85	85	85	85	85	85	85
KITCHEN-EQP-YR	Regular	0.14	0.14	0.14	0.15	0.14	0.14	0.14	0.17	0.18	0.31	0.31	0.21	0.21	0.20	0.18	0.15	0.14	0.14	0.14	0.14	0.14	0.14	0.14
KITCHEN-EQP-YR	Summer	0.14	0.14	0.14	0.15	0.14	0.14	0.14	0.17	0.18	0.31	0.31	0.21	0.21	0.20	0.18	0.15	0.14	0.14	0.14	0.14	0.14	0.14	0.14
KITCHEN-HT-YR	Heating Season	55	55	55	55	55	55	55	65	65	65	65	65	65	65	55	55	55	55	55	55	55	55	55
KITCHEN-INF	Regular	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1	1	1	1	1	1	1	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
KITCHEN-INF	Summer	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1	1	1	1	1	1	1	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
KITCHEN-LT-YR	Regular	0.05	0.05	0.05	0.05	0.05	0.05	0.05	1	1	1	1	1	1	1	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
KITCHEN-LT-YR	Summer	0.05	0.05	0.05	0.05	0.05	0.05	0.05	1	1	1	1	1	1	1	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
KITCHEN-OCC-YR	Regular	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0
KITCHEN-OCC-YR	Summer	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0
KITHW-SCH	All days	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.4	0.4	0.4	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
KIT-SOURCE-YR	Regular	0	0	0	0	0	0	0	0.27	0.27	0.29	0.29	0.27	0.27	0	0	0	0	0	0	0	0	0	0
KIT-SOURCE-YR	Summer	0	0	0	0	0	0	0	0.27	0.27	0.29	0.29	0.27	0.27	0	0	0	0	0	0	0	0	0	0
LIB-EQP-YR	Regular	0.05	0.05	0.05	0.05	0.05	0.05	0.05	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.05	0.05	0.05	0.05	0.05	0.05
LIB-EQP-YR	Summer	0.05	0.05	0.05	0.05	0.05	0.05	0.05	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.05	0.05	0.05	0.05	0.05	0.05
LOBBY-EQP-YR	Regular	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.42	0.45	0.46	0.51	0.75	0.79	0.59	0.59	0.59	0.59	0.38	0.02	0.01	0.01	0.01	0.01
LOBBY-EQP-YR	Summer	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.42	0.45	0.46	0.51	0.75	0.79	0.59	0.59	0.59	0.30	0.19	0.02	0.01	0.01	0.01	0.01
LOUNGE-EQP-YR	Regular	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.10	0.13	0.13	0.13	0.42	0.43	0.13	0.13	0.05	0.04	0.02	0.02	0.02	0.02	0.02	0.02
LOUNGE-EQP-YR	Summer	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.10	0.13	0.13	0.13	0.42	0.43	0.13	0.05	0.05	0.02	0.02	0.02	0.02	0.02	0.02	0.02
MECH-LT-YR	Regular	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	1	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
MECH-LT-YR	Summer	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	1	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
MP-EQP-YR	Regular	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
MP-EQP-YR	Summer	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
MP-HT-YR	Heating Season	55	55	55	55	55	55	55	72	72	72	72	72	72	72	72	55	55	55	55	55	55	55	55
MP-LT-YR	Regular	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.05	0.05	0.05	0.05	0.05	0.05	0.05
MP-LT-YR	Summer	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
MP-OCC-YR	Regular	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
MP-OCC-YR	Summer	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
MUSIC-EQP-YR	Regular	0.02	0.03	0.02	0.02	0.03	0.03	0.03	0.04	0.19	0.19	0.19	0.07	0.20	0.07	0.07	0.05	0.05	0.04	0.03	0.03	0.03	0.03	0.03
MUSIC-EQP-YR	Summer	0.02	0.03	0.02	0.02	0.03	0.03	0.03	0.04	0.09	0.09	0.10	0.03	0.10	0.04	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02
NO-OA-SCH	All days	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

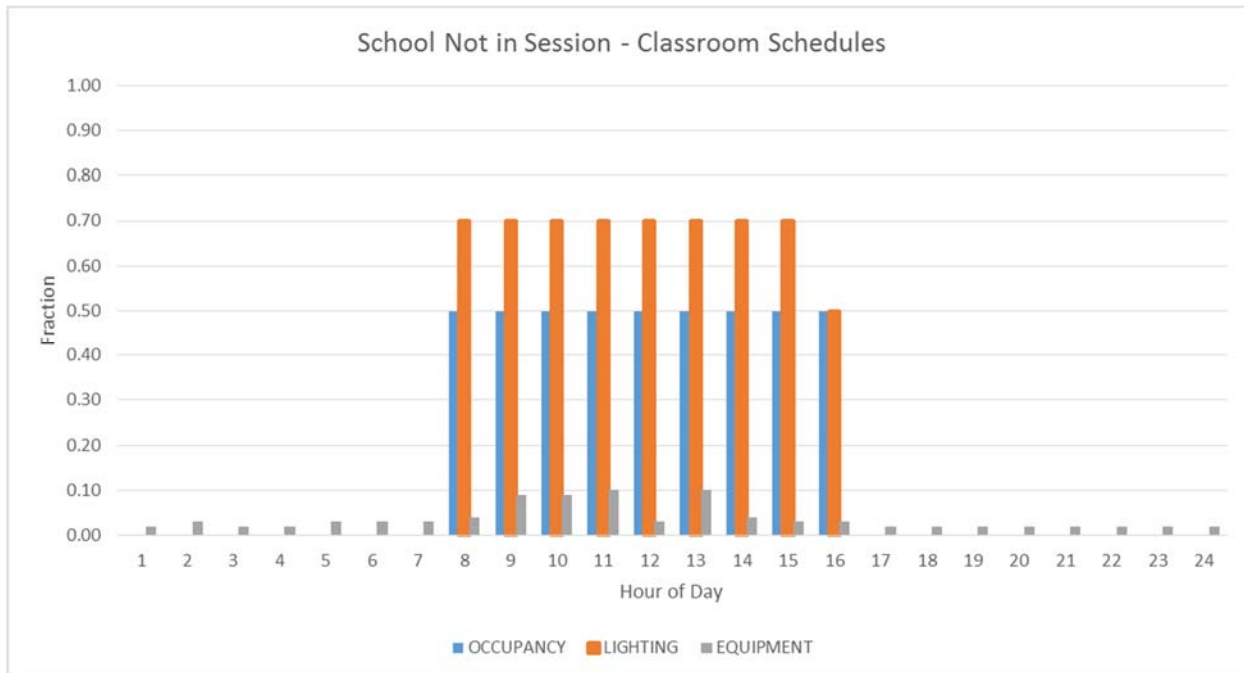
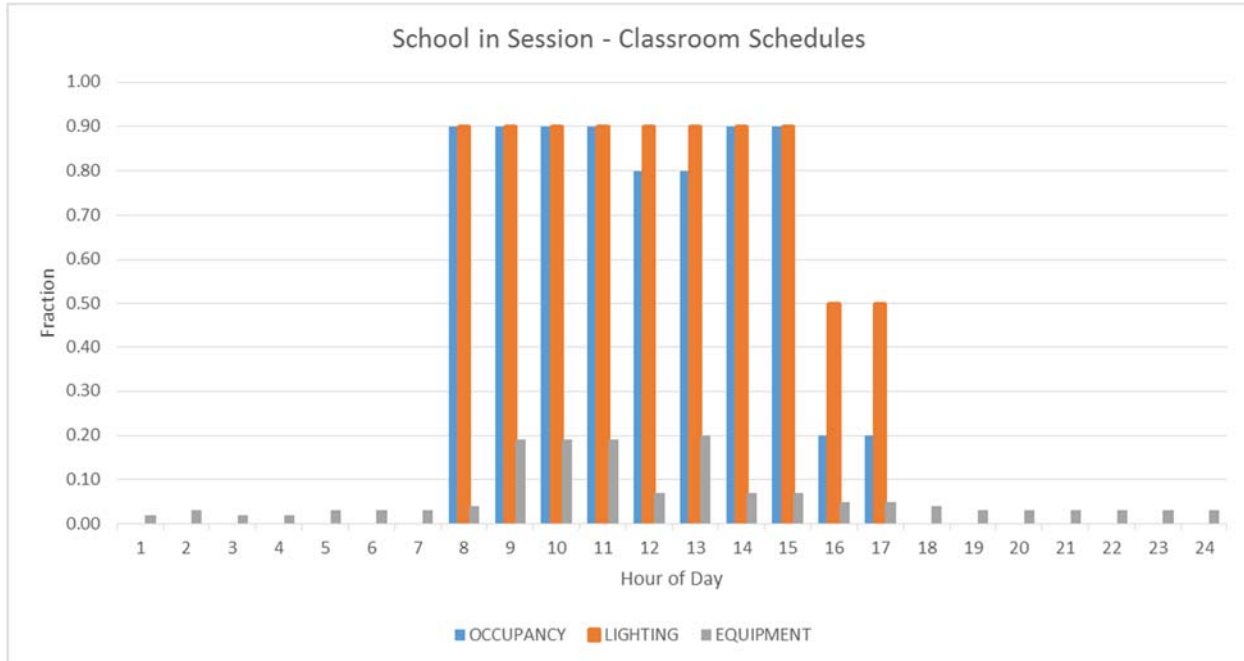
NULL-OCC-YR	All days	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NURSE-OCC-YR	Regular	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.07	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.08	0.06	0.05	0.05	0.04	0.04	0.04	0.04
NURSE-OCC-YR	Summer	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.04	0.04	0.04	0.04	0.04	0.04	0.04
OFFICE-CL-YR	Regular	85	85	85	85	85	85	85	75	75	75	75	75	75	75	75	75	75	85	85	85	85	85	85
OFFICE-CL-YR	Summer	85	85	85	85	85	85	85	75	75	75	75	75	75	75	75	75	75	85	85	85	85	85	85
OFFICE-EQP-YR	Regular	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.21	0.23	0.23	0.23	0.24	0.24	0.24	0.24	0.24	0.05	0.02	0.02	0.02	0.02	0.01	0.01
OFFICE-EQP-YR	Summer	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.21	0.23	0.23	0.23	0.24	0.24	0.24	0.05	0.05	0.02	0.01	0.01	0.01	0.01	0.01	0.01
OFF-P-EQP-YR	Regular	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.04	0.04	0.04	0.04
OFF-P-EQP-YR	Summer	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.03	0.03	0.03	0.03	0.03	0.03	0.03
OFFICE-FAN-SCH	Regular	0	0	0	0	-999	-999	-999	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0
OFFICE-FAN-SCH	Summer	0	0	0	0	-999	-999	-999	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0
OFFICE-HT-YR	Heating Season	55	55	55	55	55	55	55	72	72	72	72	72	72	72	72	72	72	55	55	55	55	55	55
OFFICE-LT-YR	Regular	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0.5	0.1	0.1	0	0	0
OFFICE-LT-YR	Summer	0	0	0	0	0	0	0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.5	0.1	0.1	0	0	0
OFFICE-OA-SCH	Regular	0	0	0	0	0	0	0	-999	-999	-999	-999	-999	-999	-999	-999	-999	-999	0	0	0	0	0	0
OFFICE-OA-SCH	Summer	0	0	0	0	0	0	0	-999	-999	-999	-999	-999	-999	-999	-999	-999	-999	0	0	0	0	0	0
OFFICE-OCC-YR	Regular	0	0	0	0	0	0	0	0.9	0.9	0.9	0.9	0.9	0.9	0.5	0.8	0.8	0.8	0.5	0	0	0	0	0
OFFICE-OCC-YR	Summer	0	0	0	0	0	0	0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0	0	0	0	0	0
PREK-EQP-YR	Regular	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.05	0.06	0.06	0.07	0.10	0.19	0.17	0.07	0.08	0.08	0.04	0.04	0.03	0.02	0.02	0.02
PREK-EQP-YR	Summer	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.05	0.03	0.03	0.03	0.05	0.10	0.08	0.03	0.04	0.04	0.02	0.02	0.02	0.02	0.02	0.02
RESTROOM-LT-YR	Regular	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.05	0.05	0.05	0.05
RESTROOM-LT-YR	Summer	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.05	0.05	0.05	0.05
SCHOOL-INF	Regular	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1	1	1	1	1	1	1	1	1	1	1.5	1.5	1.5	1.5	1.5	1.5
SCHOOL-INF	Summer	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1	1	1	1	1	1	1	1	1	1	1.5	1.5	1.5	1.5	1.5	1.5
SCI-AUX-EQP-YR	Regular	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0
SCI-AUX-EQP-YR	Summer	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0
SCI-EQP-YR	Regular	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.31	0.31	0.31	0.23	0.31	0.23	0.23	0.22	0.22	0.22	0.21	0.21	0.21	0.21	0.21
SCI-EQP-YR	Summer	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.09	0.09	0.09	0.05	0.09	0.05	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
SCI-LT-YR	Regular	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.05	0.05	0.05	0.05	0.05	0.05
SCI-LT-YR	Summer	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.05	0.05	0.05	0.05	0.05	0.05
SCI-OCC-YR	Regular	0	0	0	0	0	0	0	0.25	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
SCI-OCC-YR	Summer	0	0	0	0	0	0	0	0.25	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
SHOP-EQP-YR	Regular	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00
SHOP-EQP-YR	Summer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STORAGE-LT-YR	Regular	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.05	0.05	0.05	0.05	0.05	0.05
STORAGE-LT-YR	Summer	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.05	0.05	0.05	0.05	0.05	0.05
STORAGE-EQP-YR	All days	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
TECH-EQP-YR	Regular	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1	1	1	1	1	1	1	1	1	1	0.1	0.1	0.1	0.1	0.1	0.1
TECH-EQP-YR	Summer	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1	1	1	1	1	1	1	1	1	1	0.1	0.1	0.1	0.1	0.1	0.1
TECH-LT-YR	Regular	0.05	0.05	0.05	0.05	0.05	0.05	0.05	1	1	1	1	1	1	1	1	1	0.05	0.05	0.05	0.05	0.05	0.05	0.05
TECH-LT-YR	Summer	0.05	0.05	0.05	0.05	0.05	0.05	0.05	1	1	1	1	1	1	1	1	1	0.05	0.05	0.05	0.05	0.05	0.05	0.05
TECH-OCC-YR	Regular	0	0	0	0	0	0	0	0.1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
TECH-OCC-YR	Summer	0	0	0	0	0	0	0	0.1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0	0	0	0	0	0	0	0
TOTHW-SCH	All days	0.05	0.05	0.05	0.05	0.05	0.05	0.3	0.5	0.4	0.3	0.3	0.35	0.4	0.35	0.35	0.3	0.3	0.5	0.5	0.4	0.35	0.45	0.3

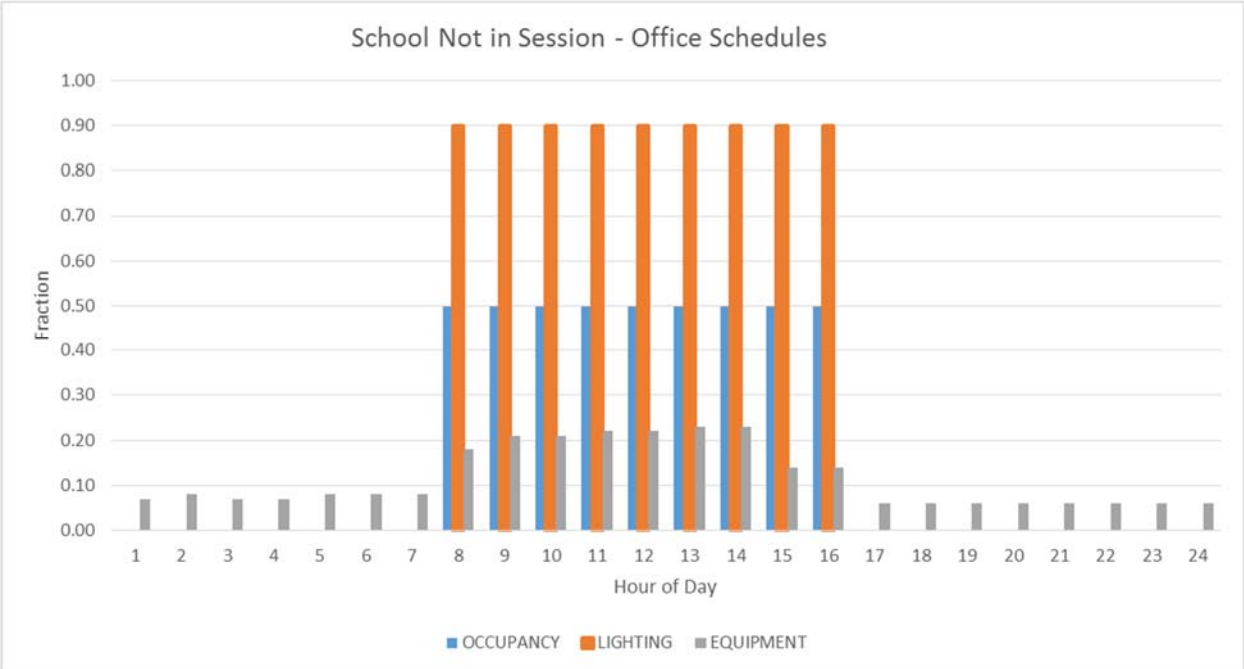
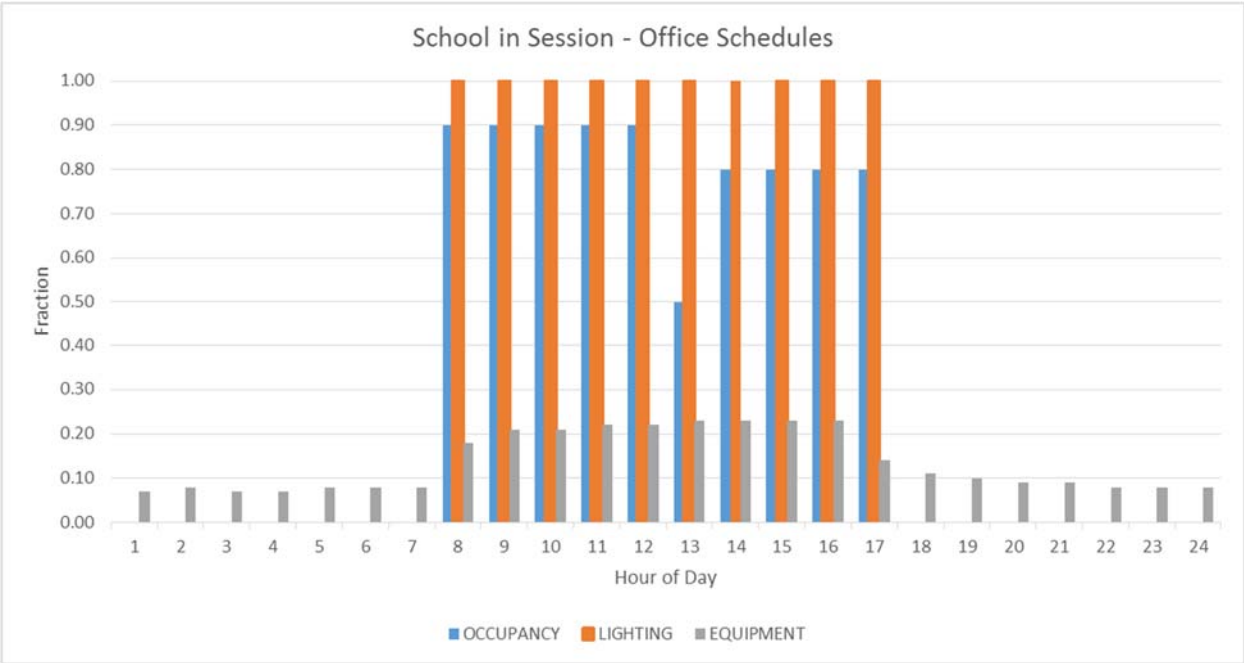
WKIT-EQP-YR	Regular	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.12	0.12	0.24	0.24	0.15	0.15	0.10	0.09	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
WKIT-EQP-YR	Summer	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.12	0.12	0.24	0.24	0.15	0.15	0.10	0.09	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05

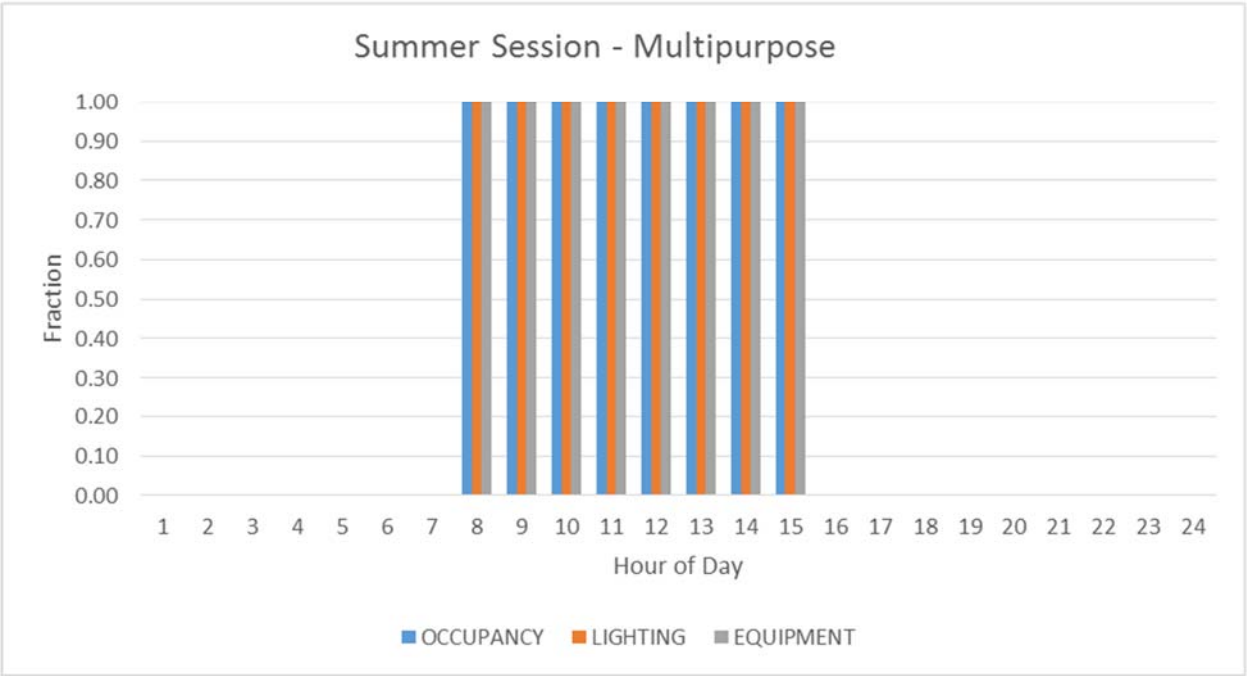
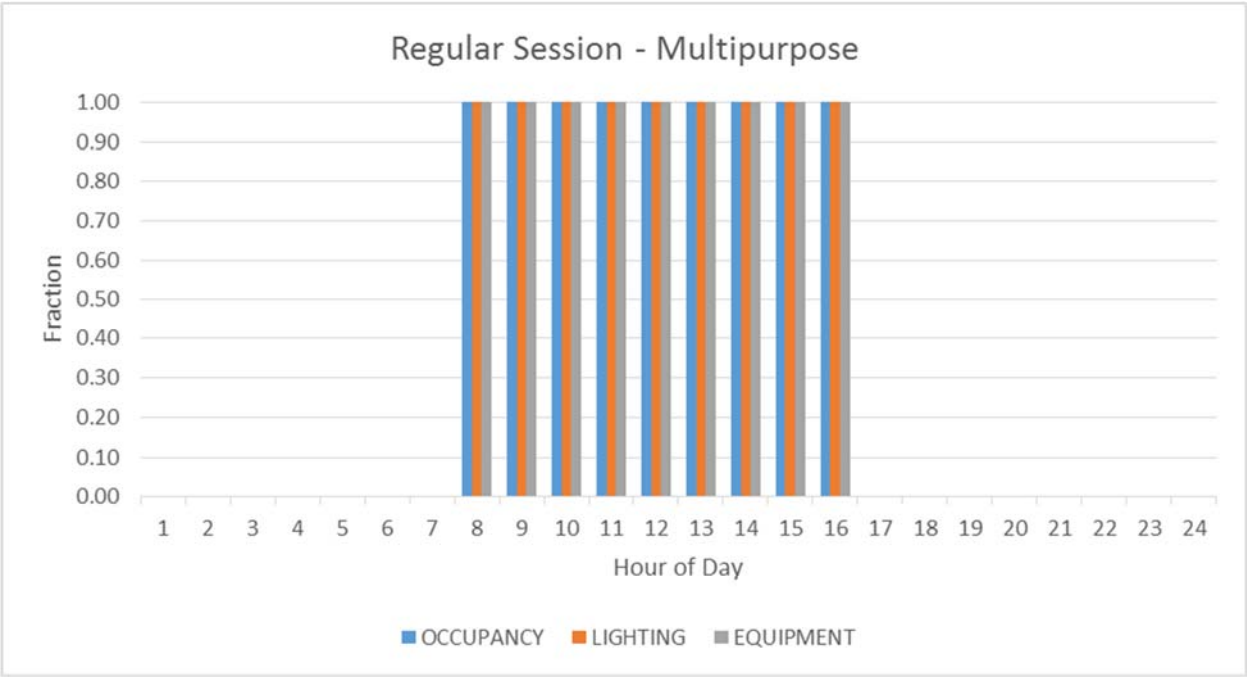


**APPENDIX B. MEDIUM SCHOOL SCHEDULE DETAILS, BASED ON PS 375Q**

**B1. SCHEDULE FOR TYPICAL SPACES, BASED ON PS 375Q**







**B2. ALL SCHEDULES, BASED ON PS760**

Schedule Name	Effective	12-1 am	1-2 am	2-3 am	3-4 am	4-5 am	5-6 am	6-7 am	7-8am	8-9 am	9-10 am	10-11 am	11-noon	noon-1 pm	1-2 pm	2-3 pm	3-4 pm	4-5 pm	5-6pm	6-7pm	7-8pm	8-9pm	9-10 pm	10-11 pm	11-12 mid	
ALWAYS-OFF-F-YR	All days	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ALWAYS-OFF-MCR	All days	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ALWAYS-ON-FAN	All days	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ALWAYS-ON-F-YR	All days	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
AUD-AUX-EQP-YR	Regular M-W	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AUD-AUX-EQP-YR	Regular, Th-Fri	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0
AUD-AUX-EQP-YR	Summer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AUD-AUX-LT-YR	Regular M-W	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
AUD-AUX-LT-YR	Regular, Th-Fri	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	1	1	1	0	0	0
AUD-AUX-LT-YR	Summer	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
AUD-AUX-OCC-YR	Regular M-W	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AUD-AUX-OCC-YR	Regular, Th-Fri	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0
AUD-AUX-OCC-YR	Summer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AUD-CL-YR	Regular, M-W	85	85	85	85	85	85	85	78	78	78	78	78	78	78	78	85	85	85	85	85	85	85	85	85	85
AUD-CL-YR	Regular, Th-Fri	85	85	85	85	85	85	85	78	78	78	78	78	78	78	78	85	85	85	78	78	78	85	85	85	85
AUD-CL-YR	Summer	85	85	85	85	85	85	85	85	78	78	78	78	78	78	85	85	85	85	85	85	85	85	85	85	85
AUD-EQP-YR	Regular	0	0	0	0	0	0	0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0	0	0	0	0	0	0	0	0	0
AUD-EQP-YR	Summer	0	0	0	0	0	0	0	0	0.2	0.2	0.2	0.2	0.2	0.2	0	0	0	0	0	0	0	0	0	0	0
AUD-FAN-SCH	Regular M-W	0	0	0	0	-999	-999	-999	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
AUD-FAN-SCH	Regular, Th-Fri	0	0	0	0	-999	-999	-999	1	1	1	1	1	1	1	1	0	0	0	0	1	1	1	0	0	0
AUD-FAN-SCH	Summer	0	0	0	0	-999	-999	-999	-999	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
AUD-HT-YR	Heating Season, M-W	55	55	55	55	55	55	55	72	72	72	72	72	72	72	72	55	55	55	55	55	55	55	55	55	55
AUD-HT-YR	Heating Season, T-F	55	55	55	55	55	55	55	72	72	72	72	72	72	72	72	55	55	55	72	72	72	55	55	55	55
AUD-LT-YR	Regular	0	0	0	0	0	0	0	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0	0	0	0	0	0	0	0	0	0
AUD-LT-YR	Summer	0	0	0	0	0	0	0	0	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0	0	0	0	0	0	0	0	0	0
AUD-OA-SCH	Regular M-W	0	0	0	0	0	0	0	-999	-999	-999	-999	-999	-999	-999	-999	0	0	0	0	0	0	0	0	0	0
AUD-OA-SCH	Regular, Th-Fri	0	0	0	0	0	0	0	-999	-999	-999	-999	-999	-999	-999	-999	0	0	0	-999	-999	-999	0	0	0	0
AUD-OA-SCH	Summer	0	0	0	0	0	0	0	-999	-999	-999	-999	-999	-999	-999	-999	0	0	0	0	0	0	0	0	0	0

AUD-OCC-YR	Regular	0	0	0	0	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0	0	0	0	0	0	0	0	0
AUD-OCC-YR	Summer	0	0	0	0	0	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0	0	0	0	0	0	0	0	0	0
AUX-GYM-1-CL-YR	Regular	85	85	85	85	85	85	85	78	78	78	78	78	78	78	78	78	85	85	85	85	85	85	85	85
AUX-GYM-1-CL-YR	Summer	85	85	85	85	85	85	85	78	78	78	78	78	78	78	78	85	85	85	85	85	85	85	85	85
AUX-GYM-1-HT-YR	Heating Season	60	60	60	60	60	60	60	72	72	72	72	72	72	72	72	72	60	60	60	60	60	60	60	60
AUX-GYM-CL-YR	Regular	85	85	85	85	85	85	85	85	78	78	78	78	78	78	78	78	78	78	85	85	85	85	85	85
AUX-GYM-CL-YR	Summer	85	85	85	85	85	85	85	85	78	78	78	78	78	78	78	78	78	85	85	85	85	85	85	85
AUX-GYM-FAN-SCH	Regular	0	0	0	0	-999	-999	-999	-999	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0
AUX-GYM-FAN-SCH	Summer	0	0	0	0	-999	-999	-999	-999	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0
AUX-GYM-HT-YR	Heating Season	55	55	55	55	55	55	55	55	72	72	72	72	72	72	72	72	72	72	55	55	55	55	55	55
AUX-GYM-OA-SCH	Regular	0	0	0	0	0	0	0	0	-999	-999	-999	-999	-999	-999	-999	-999	-999	-999	0	0	0	0	0	0
AUX-GYM-OA-SCH	Summer	0	0	0	0	0	0	0	0	-999	-999	-999	-999	-999	-999	-999	-999	-999	0	0	0	0	0	0	0
CAFE-CL-YR	Regular	85	85	85	85	85	85	85	78	78	78	78	78	78	78	78	78	85	85	85	85	85	85	85	85
CAFE-CL-YR	Summer	85	85	85	85	85	85	85	78	78	78	78	78	78	78	78	78	85	85	85	85	85	85	85	85
CAFE-EQP-YR	Regular	0	0	0	0	0	0	0	0.5	0.2	0.2	0.2	1	1	1	0.2	0.2	0	0	0	0	0	0	0	0
CAFE-EQP-YR	Summer	0	0	0	0	0	0	0	0.2	0.2	0.2	0.2	0.75	0.75	0.75	0.2	0.2	0	0	0	0	0	0	0	0
CAFE-FAN-SCH	Regular	0	0	0	0	-999	-999	-999	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
CAFE-FAN-SCH	Summer	0	0	0	0	-999	-999	-999	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
CAFE-HT-YR	Heating Season	55	55	55	55	55	55	55	72	72	72	72	72	72	72	72	72	72	55	55	55	55	55	55	55
CAFE-LT-YR	Regular	0.05	0.05	0.05	0.05	0.05	0.05	0.05	1	0.5	0.5	0.5	1	1	1	0.5	0.5	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
CAFE-LT-YR	Summer	0.05	0.05	0.05	0.05	0.05	0.05	0.05	1	0.5	0.5	0.5	1	1	1	0.5	0.5	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
CAFE-OA-SCH	Regular	0	0	0	0	0	0	0	-999	-999	-999	-999	-999	-999	-999	-999	-999	-999	0	0	0	0	0	0	0
CAFE-OA-SCH	Summer	0	0	0	0	0	0	0	-999	-999	-999	-999	-999	-999	-999	-999	-999	-999	0	0	0	0	0	0	0
CAFE-OCC-YR	Regular	0	0	0	0	0	0	0	1	0.1	0.1	0.1	1	1	1	0.1	0.1	0	0	0	0	0	0	0	0
CAFE-OCC-YR	Summer	0	0	0	0	0	0	0	0.5	0.1	0.1	0.1	0.5	0.5	0.5	0.1	0.1	0	0	0	0	0	0	0	0
CL-85-YR	All days	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85
CLASS-AUX-LT-YR	Regular	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.4	0.4	0.4	0	0	0	0	0	0	0	0
CLASS-AUX-LT-YR	Summer	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
CLASS-CL-YR	Regular	85	85	85	85	85	85	85	78	78	78	78	78	78	78	78	78	85	85	85	85	85	85	85	85
CLASS-CL-YR	Summer	85	85	85	85	85	85	85	78	78	78	78	78	78	78	78	78	85	85	85	85	85	85	85	85
CLASS-EQP-YR	Regular	0.02	0.02	0.02	0.02	0.02	0.03	0.04	0.06	0.20	0.21	0.22	0.12	0.27	0.09	0.08	0.09	0.09	0.05	0.04	0.04	0.03	0.02	0.02	0.02
CLASS-EQP-YR	Summer	0.02	0.02	0.02	0.02	0.02	0.03	0.04	0.06	0.10	0.10	0.11	0.06	0.13	0.05	0.04	0.05	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03
CLASS-FAN-SCH	Regular	0	0	0	0	-999	-999	-999	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
CLASS-FAN-SCH	Summer	0	0	0	0	-999	-999	-999	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
CLASS-HT-YR	Heating Season	55	55	55	55	55	55	55	72	72	72	72	72	72	72	72	72	72	55	55	55	55	55	55	55
CLASS-LT-YR	Regular	0	0	0	0	0	0	0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.5	0.5	0	0	0	0	0	0	0
CLASS-LT-YR	Summer	0	0	0	0	0	0	0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.5	0	0	0	0	0	0	0	0
CLASS-OA-SCH	Regular	0	0	0	0	0	0	0	-999	-999	-999	-999	-999	-999	-999	-999	-999	-999	0	0	0	0	0	0	0
CLASS-OA-SCH	Summer	0	0	0	0	0	0	0	-999	-999	-999	-999	-999	-999	-999	-999	-999	-999	0	0	0	0	0	0	0
CLASS-OCC-YR	Regular	0	0	0	0	0	0	0	0.9	0.9	0.9	0.9	0.8	0.8	0.9	0.9	0.2	0.2	0	0	0	0	0	0	0
CLASS-OCC-YR	Summer	0	0	0	0	0	0	0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0	0	0	0	0	0	0	0
CL-DATA	All days	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85
CL-MECH	All days	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
CL-RESTRM	Cooling Season	85	85	85	85	85	85	85	78	78	78	78	78	78	78	78	78	85	85	85	85	85	85	85	85

CL-STOR	All days	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
COPY-EQP-YR	Regular	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.04	0.04	0.04	0.04
COPY-EQP-YR	Summer	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.03	0.03	0.03	0.03	0.03	0.03	0.03
CORR-CL-YR	Regular	85	85	85	85	85	85	85	78	78	78	78	78	78	78	78	78	85	85	85	85	85	85	85
CORR-CL-YR	Summer	85	85	85	85	85	85	85	78	78	78	78	78	78	78	78	78	85	85	85	85	85	85	85
CORR-HT-YR	Heating Season	55	55	55	55	55	55	55	72	72	72	72	72	72	72	72	72	55	55	55	55	55	55	55
CORR-LT-YR	Regular	0.05	0.05	0.05	0.05	0.05	0.05	0.05	1	1	1	1	1	1	1	1	1	0.05	0.05	0.05	0.05	0.05	0.05	0.05
CORR-LT-YR	Summer	0.05	0.05	0.05	0.05	0.05	0.05	0.05	1	1	1	1	1	1	1	1	1	0.05	0.05	0.05	0.05	0.05	0.05	0.05
DATA-EQP-YR	Regular	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.15	0.15	0.15	0.15	0.15
DATA-EQP-YR	Summer	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.15	0.15	0.15	0.15	0.15	0.15	0.15
DATA-FAN-SCH	All days	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
GYM-AUX-EQP-YR	Regular , W	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
GYM-AUX-EQP-YR	Regular , Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GYM-AUX-EQP-YR	Summer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GYM-AUX-LT-YR	Regular , W	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
GYM-AUX-LT-YR	Regular , Other	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
GYM-AUX-LT-YR	Summer	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
GYM-AUX-OCC-YR	Regular , W	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
GYM-AUX-OCC-YR	Regular , Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GYM-CL-YR	Regular	85	85	85	85	85	85	85	85	78	78	78	78	78	78	78	78	85	85	85	85	85	85	85
GYM-CL-YR	Summer	85	85	85	85	85	85	85	85	78	78	78	78	78	78	78	78	85	85	85	85	85	85	85
GYM-EQP-YR	Regular	0	0	0	0	0	0	0	0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0	0	0	0	0	0	0
GYM-EQP-YR	Summer	0	0	0	0	0	0	0	0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0	0	0	0	0	0	0
GYM-FAN-SCH	Regular	0	0	0	0	-999	-999	-999	-999	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
GYM-FAN-SCH	Summer	0	0	0	0	-999	-999	-999	-999	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
GYM-HT-YR	Heating Season	55	55	55	55	55	55	55	55	72	72	72	72	72	72	72	72	55	55	55	55	55	55	55
GYM-LT-YR	Regular	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0
GYM-LT-YR	Summer	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
GYM-OA-SCH	Regular	0	0	0	0	0	0	0	0	-999	-999	-999	-999	-999	-999	-999	-999	-999	-999	0	0	0	0	0
GYM-OA-SCH	Summer	0	0	0	0	0	0	0	0	-999	-999	-999	-999	-999	-999	-999	-999	0	0	0	0	0	0	0
GYM-OCC-YR	Regular	0	0	0	0	0	0	0	0	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.2	0.2	0	0	0	0	0
GYM-OCC-YR	Summer	0	0	0	0	0	0	0	0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0	0	0	0	0	0	0
HT-60-YR	All days	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55
HT-DATA	All days	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55
HT-RESTRM	Heating Season	55	55	55	55	55	55	55	72	72	72	72	72	72	72	72	72	55	55	55	55	55	55	55
KITCHEN-CL-YR	Regular	85	85	85	85	85	85	85	78	78	78	78	78	78	78	85	85	85	85	85	85	85	85	85
KITCHEN-CL-YR	Summer	85	85	85	85	85	85	85	78	78	78	78	78	78	78	85	85	85	85	85	85	85	85	85
KITCHEN-EQP-YR	Regular	0.14	0.14	0.14	0.15	0.14	0.14	0.14	0.17	0.18	0.31	0.31	0.21	0.21	0.20	0.18	0.15	0.14	0.14	0.14	0.14	0.14	0.14	0.14
KITCHEN-EQP-YR	Summer	0.14	0.14	0.14	0.15	0.14	0.14	0.14	0.17	0.18	0.31	0.31	0.21	0.21	0.20	0.18	0.15	0.14	0.14	0.14	0.14	0.14	0.14	0.14
KITCHEN-HT-YR	Heating Season	55	55	55	55	55	55	55	65	65	65	65	65	65	65	55	55	55	55	55	55	55	55	55
KITCHEN-INF	Regular	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1	1	1	1	1	1	1	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5

KITCHEN-INF	Summer	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1	1	1	1	1	1	1	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
KITCHEN-LT-YR	Regular	0.05	0.05	0.05	0.05	0.05	0.05	0.05	1	1	1	1	1	1	1	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
KITCHEN-LT-YR	Summer	0.05	0.05	0.05	0.05	0.05	0.05	0.05	1	1	1	1	1	1	1	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
KITCHEN-OCC-YR	Regular	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
KITCHEN-OCC-YR	Summer	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
KIT-SOURCE-YR	Regular	0	0	0	0	0	0	0	0.27	0.27	0.29	0.29	0.27	0.27	0	0	0	0	0	0	0	0	0	0	0
KIT-SOURCE-YR	Summer	0	0	0	0	0	0	0	0.27	0.27	0.29	0.29	0.27	0.27	0	0	0	0	0	0	0	0	0	0	0
LIB-EQP-YR	Regular	0.05	0.05	0.05	0.05	0.05	0.05	0.05	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.05	0.05	0.05	0.05	0.05	0.05	0.05
LIB-EQP-YR	Summer	0.05	0.05	0.05	0.05	0.05	0.05	0.05	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
LOBBY-EQP-YR	Regular	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.42	0.45	0.46	0.51	0.75	0.79	0.59	0.59	0.59	0.59	0.38	0.02	0.01	0.01	0.01	0.01	0.01
LOBBY-EQP-YR	Summer	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.42	0.45	0.46	0.51	0.75	0.79	0.59	0.59	0.59	0.30	0.19	0.02	0.01	0.01	0.01	0.01	0.01
LOUNGE-EQP-YR	Regular	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.10	0.13	0.13	0.13	0.42	0.43	0.13	0.13	0.05	0.04	0.02	0.02	0.02	0.02	0.02	0.02	0.02
LOUNGE-EQP-YR	Summer	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.10	0.13	0.13	0.13	0.42	0.43	0.13	0.05	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
MECH-LT-YR	Regular	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	1	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
MECH-LT-YR	Summer	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	1	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
MP-CL-YR	Regular	85	85	85	85	85	85	85	85	78	78	78	78	78	78	78	78	78	85	85	85	85	85	85	85
MP-CL-YR	Summer	85	85	85	85	85	85	85	85	78	78	78	78	78	78	78	78	85	85	85	85	85	85	85	85
MP-EQP-YR	Regular	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
MP-EQP-YR	Summer	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0
MP-HT-YR	Heating Season	55	55	55	55	55	55	55	72	72	72	72	72	72	72	72	72	55	55	55	55	55	55	55	55
MP-LT-YR	Regular	0	0	0	0	0	0	0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0	0	0	0	0	0	0	0
MP-LT-YR	Summer	0	0	0	0	0	0	0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0	0	0	0	0	0	0	0	0
MP-OCC-YR	Regular	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
MP-OCC-YR	Summer	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0
MUSIC-EQP-YR	Regular	0.02	0.03	0.02	0.02	0.03	0.03	0.03	0.04	0.19	0.19	0.19	0.07	0.20	0.07	0.07	0.05	0.05	0.04	0.03	0.03	0.03	0.03	0.03	0.03
MUSIC-EQP-YR	Summer	0.02	0.03	0.02	0.02	0.03	0.03	0.03	0.04	0.09	0.09	0.10	0.03	0.10	0.04	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
NO-OA-SCH	All days	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NULL-OCC-YR	All days	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OFFICE-CL-YR	Regular	85	85	85	85	85	85	85	75	75	75	75	75	75	75	75	75	75	85	85	85	85	85	85	85
OFFICE-CL-YR	Summer	85	85	85	85	85	85	85	75	75	75	75	75	75	75	75	75	85	85	85	85	85	85	85	85
OFFICE-EQP-YR	Regular	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.21	0.23	0.23	0.23	0.24	0.24	0.24	0.24	0.24	0.05	0.02	0.02	0.02	0.02	0.01	0.01	0.01
OFFICE-EQP-YR	Summer	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.21	0.23	0.23	0.23	0.24	0.24	0.24	0.24	0.05	0.05	0.02	0.01	0.01	0.01	0.01	0.01	0.01
OFF-P-EQP-YR	Regular	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.04	0.04	0.04	0.04	0.04
OFF-P-EQP-YR	Summer	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
OFFICE-FAN-SCH	Regular	0	0	0	0	-999	-999	-999	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
OFFICE-FAN-SCH	Summer	0	0	0	0	-999	-999	-999	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
OFFICE-HT-YR	Heating Season	55	55	55	55	55	55	55	72	72	72	72	72	72	72	72	72	55	55	55	55	55	55	55	55
OFFICE-LT-YR	Regular	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
OFFICE-LT-YR	Summer	0	0	0	0	0	0	0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0	0	0	0	0	0	0	0
OFFICE-OA-SCH	Regular	0	0	0	0	0	0	0	-999	-999	-999	-999	-999	-999	-999	-999	-999	-999	0	0	0	0	0	0	0
OFFICE-OA-SCH	Summer	0	0	0	0	0	0	0	-999	-999	-999	-999	-999	-999	-999	-999	-999	-999	0	0	0	0	0	0	0
OFFICE-OCC-YR	Regular	0	0	0	0	0	0	0	0.9	0.9	0.9	0.9	0.9	0.5	0.8	0.8	0.8	0.8	0	0	0	0	0	0	0
OFFICE-OCC-YR	Summer	0	0	0	0	0	0	0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0	0	0	0	0	0	0	0
PREK-EQP-YR	Regular	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.05	0.06	0.06	0.07	0.10	0.19	0.17	0.07	0.08	0.08	0.04	0.04	0.03	0.02	0.02	0.02	0.02
PREK-EQP-YR	Summer	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.05	0.03	0.03	0.03	0.05	0.10	0.08	0.03	0.04	0.04	0.02	0.02	0.02	0.02	0.02	0.02	0.02
RESTROOM-LT-YR	Regular	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.05	0.05	0.05	0.05	0.05	0.05	0.05
RESTROOM-LT-YR	Summer	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
SCHOOL-INF	Regular	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1	1	1	1	1	1	1	1	1	1	1.5	1.5	1.5	1.5	1.5	1.5	1.5
SCHOOL-INF	Summer	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1	1	1	1	1	1	1	1	1	1	1.5	1.5	1.5	1.5	1.5	1.5	1.5



SCI-AUX-EQP-YR	Regular	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
SCI-AUX-EQP-YR	Summer	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
SCI-EQP-YR	Regular	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.31	0.31	0.31	0.23	0.31	0.23	0.23	0.22	0.22	0.22	0.21	0.21	0.21	0.21	0.21	0.21
SCI-EQP-YR	Summer	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.09	0.09	0.09	0.05	0.09	0.05	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
SCI-LT-YR	Regular	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
SCI-LT-YR	Summer	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
SCI-OCC-YR	Regular	0	0	0	0	0	0	0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0	0	0	0	0	0	0	0
SCI-OCC-YR	Summer	0	0	0	0	0	0	0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0	0	0	0	0	0	0	0
SHOP-EQP-YR	Regular	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SHOP-EQP-YR	Summer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STAIR-HT-YR	Heating Season	55	55	55	55	55	55	55	60	60	60	60	60	60	60	60	60	60	55	55	55	55	55	55	55
STORAGE-LT-YR	Regular	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
STORAGE-LT-YR	Summer	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
STORAGE-EQP-YR	All days	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
TECH-EQP-YR	Regular	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1	1	1	1	1	1	1	1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
TECH-EQP-YR	Summer	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1	1	1	1	1	1	1	1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
TECH-LT-YR	Regular	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
TECH-LT-YR	Summer	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
TECH-OCC-YR	Regular	0	0	0	0	0	0	0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0	0	0	0	0	0	0	0
TECH-OCC-YR	Summer	0	0	0	0	0	0	0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0	0	0	0	0	0	0	0
TOTHW-SCH	All days	0.05	0.05	0.05	0.05	0.05	0.05	0.3	0.5	0.4	0.3	0.3	0.35	0.4	0.35	0.35	0.3	0.3	0.5	0.5	0.4	0.35	0.45	0.3	0.05
WKIT-EQP-YR	Regular	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.12	0.12	0.24	0.24	0.15	0.15	0.10	0.09	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
WKIT-EQP-YR	Summer	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.12	0.12	0.24	0.24	0.15	0.15	0.10	0.09	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05