

HOT2000

Natural Resources CANADA
Version 11.11

**File:**

General mode

Weather Library: C:\HOT2000 v11.11b21119\Dat\Wth2020.dir**Weather Data for:** WINNIPEG INTL, MANITOBA**Builder Code:****Data Entry by:** Sean Scammell**Date of entry:** 2025-02-12**Company:** Sun Certified Builders
Coop**Client name:** ,**Street address:** [REDACTED]**City:** WINNIPEG INTL**Region:** MANITOBA**Postal code:** [REDACTED]**Telephone:****Mailing address:** [REDACTED]**City:** WINNIPEG INTL**Region:** MANITOBA**Postal Code:** [REDACTED]

GENERAL HOUSE CHARACTERISTICS

House type: Single Detached**Number of storeys:** One and a half**Plan shape:****Front orientation:** South**Year House Built:** 1947**Wall colour:** Default**Absorptivity:** 0.40**Roof colour:** Default**Absorptivity:** 0.40**Soil Condition:** Normal conductivity (dry
sand, loam, clay)**Water Table Level:** Normal (7-10m/23-33ft)**House Thermal Mass
Level:** (A) Light, wood frame**Effective mass fraction** 1.000**Occupants :** 2 Adults for 50.0% of the time
1 Children for 50.0% of the time

0 Infants for 0.0% of the time

**Sensible Internal Heat
Gain From Occupants:**

2.00 kWh/day

HOUSE TEMPERATURES

Heating Temperatures

Main Floor	Daytime Setpoint:	21.0 °C
	Nighttime Setpoint:	18.0 °C
	Nighttime Setback Duration:	8.0 Hours
	24 Hour Average:	20.0 °C
Basement	Setpoint:	19.0 °C
	TEMP. Rise from 20.0 °C:	5.5 °C

Cooling Temperature: Main Floor : 25.00 °C

Basement is- Heated:Yes Cooled: No Separate T/S: No
 Fraction of internal gains released in basement : 0.150

Indoor design temperatures for equipment sizing

Heating:	22.0 °C
Cooling:	24.0 °C

WINDOW CHARACTERISTICS

Label	Location	#	Overhang Width (m)	Header Height (m)	Tilt deg	Curtain Factor	Shutter (RSI)
South							
South0001	Main floor	1	0.70	0.46	90.0	1.00	0.00
South0002	Main floor	1	0.70	0.46	90.0	1.00	0.00
East							
East0001	Main floor	1	0.76	1.42	90.0	1.00	0.00
East0002	gable ends	1	0.40	0.91	90.0	1.00	0.00
East0003	Foundation - 1	1	0.41	3.87	90.0	1.00	0.00
North							
North0001	Main floor	1	0.70	0.46	90.0	1.00	0.00
North0002	Main floor	1	0.70	3.05	90.0	1.00	0.00
North0003	Main floor	1	0.70	0.46	90.0	1.00	0.00
North0004	gable ends	1	0.70	0.61	90.0	1.00	0.00
North0005	Foundation - 1	1	0.41	3.87	90.0	1.00	0.00
North0006	Foundation - 1	1	0.41	3.87	90.0	1.00	0.00
West							
West0001	gable ends	1	0.40	0.91	90.0	1.00	0.00

West0002	Foundation - 1	1	0.41	3.87	90.0	1.00	0.00
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Label	Type	#	Window Width (m)	Window Height (m)	Total Area (m ²)	Window RSI	SHGC	ER*
South								
South0001	443316	1	1.37	1.52	2.09	0.790	0.4561	36.9
South0002	Picture	1	2.44	1.52	3.72	0.820	0.5173	42.2
East								
East0001	443316	1	0.94	1.14	1.07	0.762	0.4141	31.8
East0002	443316	1	0.91	1.02	0.93	0.756	0.4041	30.4
East0003	443316	1	0.61	0.30	0.19	0.673	0.2159	0.2
North								
North0001	Picture	1	1.42	1.52	2.17	0.805	0.5033	40.2
North0002	443316	1	0.66	0.91	0.60	0.735	0.3659	25.3
North0003	Picture	1	0.71	1.27	0.90	0.767	0.4641	34.2
North0004	443316	1	0.76	1.37	1.05	0.756	0.4056	31.0
North0005	443316	1	0.61	0.30	0.19	0.673	0.2159	0.2
North0006	443316	1	0.61	0.30	0.19	0.673	0.2159	0.2
West								
West0001	Picture	1	1.12	1.27	1.42	0.790	0.4881	37.9
West0002	443316	1	0.61	0.30	0.19	0.673	0.2159	0.2

*ER Window Energy Rating (ER 2009) estimated for actual dimensions, and Air tightness type: CSA - A1; Leakage rate = 1.86 L/s.m²

Above grade fraction of wall area occupied by windows: 10.7 %

WINDOW CODE SCHEDULE

Name	Internal Code	Description (Glazings, Coatings, Fill, Spacer, Type, Frame)
443316	443316	TG with 2 coatings, Low-E .35 (hard2), 13 mm Argon, Metal + insulating, Hinged, Fibreglass, ER* = 28.9, Eff. RSI= 0.74
Picture	443306	TG with 2 coatings, Low-E .35 (hard2), 13 mm Argon, Metal + insulating, Picture, Fibreglass, ER* = 37.6, Eff. RSI= 0.80

* Window Standard Energy Rating (ER 2009) estimated for assumed dimensions, and Air tightness type: CSA - A1; Leakage rate = 1.86 L/s.m²

BUILDING PARAMETER DETAILS

CEILING COMPONENTS

	Construction Type	Code Type	Roof Slope	Heel Ht. (m)	Section Area (m ²)	R. Value (RSI)
Ceiling - 3	Scissor	User specified	9.996/12	0.91	70.98	14.62

MAIN WALL COMPONENTS

Label	Lintel Type	Fac. Dir	Number of Corn.	Number of Inter.	Height (m)	Perim. (m)	Area (m ²)	R. Value (RSI)
Main floor Type: User specified	100	N/A	4	4	2.45	33.73	82.66	10.57
gable ends Type: User specified	100	N/A	4	4	2.44	10.67	26.01	10.57

DOORS

Label	Type	Height (m)	Width (m)	Gross Area (m ²)	R. Value (RSI)
Door-01 Loc: Main floor	User specified	2.04	0.91	1.87	1.76
Door-02 Loc: Main floor	User specified	2.04	0.86	1.76	1.76

FOUNDATIONS

Foundation Name: Foundation - 1
Foundation Type: Basement
Data Type: Library

Volume: 146.1 m³
Opening to Main Floor: 1.56 m²

Total Wall Height: 2.28 m
Depth Below Grade: 1.62 m

Rectangular
Floor Length: 9.14 m
Floor Width: 7.01 m

Interior wall type: User specified
Exterior wall type: User specified
Number of corners : 4
Lintel type: Bsmnt Lintel
Added to slab type : N/A
Floors Above 4231000660
Found.:

R-value: 0.00 RSI
R-Value: 7.04 RSI

R-Value: 7.04 RSI
R-Value: 0.71 RSI

Exposed areas for: Foundation - 1
Exposed Perimeter: 32.31 m

Configuration: BCEB_4

- concrete walls and floor
- exterior surface of wall insulated over full-height
- sub-surface of floor slab fully insulated but no insulation under footings
- first storey is non-brick veneer or bricks thermally broken from basement's concrete walls

FOUNDATION CODE SCHEDULE

Floors Above Foundation

Name	Internal Code	Description (Structure, typ/size, Spacing, Insul1, 2, Int., Sheathing, Exterior, Drop Framing)
4231000660	4231000660	Wood frame, 38x235 mm (2x10 in), 400 mm (16 in), None, None, None, Plywood/Particle board 15.5 mm (5/8 in), Wood, No

FOUNDATION FLOOR HEADER COMPONENTS

Label	Lintel Type	Fac. Dir	Number of Corn.	Number of Inter.	Height (m)	Perim. (m)	Area (m ²)	R. Value (RSI)
BW hdr-01 (Location:Foundation - 1) Type: User specified	N/A	N/A	4	4	0.23	32.71	7.48	11.98

Lintel Code Schedule

Name	Code	Description (Type, Material, Insulation)
100	100	Double, Wood, None
Bsmnt Lintel	100	Double, Wood, None

ROOF CAVITY INPUTS

Gable Ends		Total Area:	0.00 m ²
Sheathing Material	Plywood/Part. bd 9.5 mm (3/8 in)		0.08 RSI
Exterior Material:	Hollow metal/vinyl cladding		0.11 RSI
Sloped Roof		Total Area:	85.28 m ²
Sheathing Material	Plywood/Part. bd 12.7 mm (1/2 in)		0.11 RSI
Exterior Material:	Asphalt shingles		0.08 RSI
Total Cavity Volume:	45.1 m ³	Ventilation Rate:	0.50 ACH/hr

BUILDING ASSEMBLY DETAILS

Label	Construction Code	Nominal (RSI)	System (RSI)	Effective (RSI)
FLOORS ABOVE BASEMENTS				
Foundation - 1	4231000660	0.00	0.71	0.71

BUILDING PARAMETERS SUMMARY
ZONE 1 : Above Grade

Component	Area m ² Gross	Area m ² Net	Effective (RSI)	Heat Loss MJ	% Annual Heat Loss
Ceiling	70.98	70.98	14.62	2214.27	6.01
Main Walls	108.68	91.10	10.57	4300.56	11.68
Doors	3.63	3.63	1.76	1099.78	2.99
South Windows	5.81	5.81	0.81	3834.68	10.41
East Windows	2.00	2.00	0.76	1408.63	3.83
North Windows	4.72	4.72	0.78	3243.26	8.81
West Windows	1.42	1.42	0.79	959.45	2.61
ZONE 1 Totals:				17060.63	46.33

INTER-ZONE Heat Transfer : Floors Above Basement

Area m ² Gross	Area m ² Net	Effective (RSI)	Heat Loss MJ
64.10	64.10	0.706	7095.31

ZONE 2 : Basement

Component	Area m ² Gross	Area m ² Net	Effective (RSI)	Heat Loss MJ	% Annual Heat Loss
Walls above grade	21.37	20.63	-	2938.02	7.98
East windows	0.19	0.19	0.67	135.45	0.37
North windows	0.37	0.37	0.67	270.90	0.74
West windows	0.19	0.19	0.67	135.45	0.37
Basement floor header	7.48	7.48	11.98	626.62	1.70
Below grade foundation	116.39	116.39	-	9031.28	24.53
ZONE 2 Totals:				13137.71	35.68

Air Leakage and Mechanical Ventilation

House Volume	Air Change	Heat Loss MJ	% Annual Heat Loss
445.05 m ³	0.111 ACH	6623.667	17.99

AIR LEAKAGE AND MECHANICAL VENTILATION

Building Envelope Surface Area: 324.90 m²

Air Leakage Test Results at 50 Pa. 0.30 ACH
(0.2 in H₂O) =

Equivalent Leakage Area @ 10 Pa 64.52 cm²
=

Terrain Description

			Height (m)
@ Weather Station :	Open flat terrain, grass	Anemometer:	10.0
@ Building site :	Suburban, forest	Height of the highest ceiling:	4.8

Local Shielding:

Walls: Heavy

Flue : Light

Leakage Fractions-

Ceiling: 0.200

Walls: 0.600

Floors: 0.200

Normalized Leakage Area @ 10 Pa: 0.1986 cm²/m²

Estimated Airflow to cause a 5 Pa 11 L/s

Pressure Difference:

Estimated Airflow to cause a 10 Pa 17 L/s

Pressure Difference:

F326 VENTILATION REQUIREMENTS

Kitchen, Living Room, Dining Room	3 rooms @ 5.0 L/s: 15.0 L/s
Utility Room	1 rooms @ 5.0 L/s: 5.0 L/s
Bedroom	1 rooms @ 10.0 L/s: 10.0 L/s
Bedroom	2 rooms @ 5.0 L/s: 10.0 L/s
Bathroom	1 rooms @ 5.0 L/s: 5.0 L/s
Other	2 rooms @ 5.0 L/s: 10.0 L/s
Basement Rooms	0.0 L/s

CENTRAL VENTILATION SYSTEM

System Type: HVI Certified HRV

Manufacturer:

Model Number:

Fan and Preheater Power at 0.0 °C: 28 Watts

Fan and Preheater Power at -25.0 °C: 36 Watts

Preheater Capacity: 0 Watts

Sensible Heat Recovery Efficiency at 0.0 °C 81%

Sensible Heat Recovery Efficiency at -25.0 °C 70%

Total Heat Recovery Efficiency in Cooling Mode 25%

Low Temperature Ventilation Reduction: 12%

Low Temperature Ventilation Reduction: 4 L/s (6.5%)
Airflow Adjustment

Vented combustion appliance depressurization limit: 5.00 Pa.

Ventilation Supply Duct

Location:	Main floor	Type:	Flexible
Length:	1.5 m	Diameter:	152.4 mm
Insulation:	0.7 RSI	Sealing Characteristics:	Sealed

Ventilation Exhaust Duct

Location:	Main floor	Type:	Flexible
Length:	1.5 m	Diameter:	152.4 mm
Insulation:	0.7 RSI	Sealing Characteristics:	Sealed

SECONDARY FANS & OTHER EXHAUST APPLIANCES

	Control	Supply (L/s)	Exhaust (L/s)
Other Fans	Continuous	0.00	0.00
Dryer	Continuous	-	1.49

Dryer is vented outdoors

Rated Fan Power 0.00 Watts

NEW ERS VENTILATION DATA

Whole House Systems

Air Distribution/circulation type: Forced air heating ductwork

Air Distribution/circulation fan power: 100.00 Watts
Operation schedule: 480.00 min/day

System # 1 Type: HRV
Manufacturer:
Model:
Airflow Supply Rate: 94.39 L/s
Exhaust: 94.39 L/s
Fan Power: 28.00 Watts

Supplementary Systems

System # 1 Type: Dryer
Manufacturer:
Model:
Airflow Supply Rate: 0.00 L/s
Exhaust: 38.00 L/s
Fan Power: 0.00 Watts
Operation schedule: 56.53 min/day

AIR LEAKAGE AND MECHANICAL VENTILATION SUMMARY

F326 Required continous ventilation: 55.000 L/s (0.44 ACH)
Central Ventilation Supply Rate (): 94.389 L/s (0.76 ACH)
Other Continuous Supply Flow Rates: 0.000 L/s (0.00 ACH)
Other Continuous Exhaust Flow Rates: 0.000 L/s (0.00 ACH)
Total house ventilation is Balanced
Gross Air Leakage and Mechanical Ventilation Energy Load: 8026.478 MJ
Seasonal Heat Recovery Ventilator Efficiency: 79.014 %
Estimated Ventilation Electrical Load: Heating Hours: 265.881 MJ
Estimated Ventilation Electrical Load: Non-Heating Hours: 37.202 MJ
Net Air Leakage and Mechanical Ventilation Load: 6756.606 MJ

SPACE HEATING SYSTEM

PRIMARY Space Heating Fuel: Electricity
Space Heating Equipment: Air Source Heat Pump
Manufacturer: Daikin
Model:

Capacity at 8.3 °C: 3.5 kW
HSPF at 8.3 °C: 11.40
COP at 8.3 °C: 5.07
Crankcase Heater Power: 60.00 watts
Heat Pump Temperature Cut-Off: Balance point

SECONDARY Heating Fuel: Electricity
Equipment: Baseboard/Hydronic/Plenum(duct) htrs.
Manufacturer: Wizard SPH man
Model:
Specified Output Capacity: 4.50 kW
Steady State Efficiency: 100.00 %
Fan Mode: Auto
ECM Motor: No
Low Speed Fan Power: 0 watts
High Speed Fan Power: 164 watts

AIR CONDITIONING SYSTEM

System Type:	Mini-split ductless		
Manufacturer:			
Model:			
Capacity:	2290 Watts		
SEER	20.00	Rated COP	3.728
Sensible Heat Ratio:	0.76		
Indoor Fan Flow Rate:	127.64 L/s	Fan Power (watts)	98.92
Ventilator Flow Rate:	0.00 L/s	Crankcase Heater Power (watts):	60.00
Fraction of windows Openable:	0.000	ECM Motor:	No
Cooling system capacity sizing factor:	1.000		
Economizer control:	N/A	Indoor Fan Operation:	Auto

Air Conditioner is integrated with the Heating System

DOMESTIC WATER HEATING SYSTEM

PRIMARY Water Heating Fuel:	Electricity	
Water Heating Equipment:	Conventional tank	
Calculated Energy Factor:	0.921	
Manufacturer:	Wizard DHW man	
Model:	Wizard DHW mod	
Tank Capacity:	151.4 Litres	Tank Blanket Insulation: 0.0 RSI
Tank Location:	Basement	
Stand By Heat Loss Rate:	33.70 W	
Thermal Efficiency:	98.00 %	
Burner Capacity:	14360.48 W	

ANNUAL DOMESTIC WATER HEATING SUMMARY

Daily Hot Water Consumption:	192.5 Litres
Hot Water Temperature:	55.0 °C
Estimated Domestic Water Heating Load:	14553 MJ
Primary Domestic Water Heating Energy Consumption:	15635 MJ
Primary System Seasonal Efficiency:	93.1%

ANNUAL SPACE HEATING SUMMARY

Gross Space Heat Loss:	36822 MJ
Gross Space Heating Load:	34933 MJ
Usable Internal Gains:	18262 MJ
Usable Internal Gains Fraction:	49.6 %
Usable Solar Gains:	7631 MJ
Usable Solar Gains Fraction:	20.7 %
Auxiliary Energy Required:	9041 MJ
Space Heating System Load:	9041 MJ
Heat Pump and Furnace Annual COP:	1.422

Heat Pump Annual Energy Consumption: 1983 MJ
 Furnace/Boiler Annual Energy Consumption: 3199 MJ
 Annual Space Heating Energy Consumption: 5182 MJ

DESIGN SPACE HEATING AND COOLING LOADS

Design Heat Loss* at -31.3 °C (7.46 Watts / m3): 3319 Watts
 Design Cooling Load* for July at (29.9 °C): 2548 Watts

* Please refer to notes at the end of this report.

ANNUAL SPACE COOLING SUMMARY

Design Sensible Heat Ratio: 0.769
 Estimated Annual Space Cooling Energy: 2277.62 kWh
 Seasonal COP (January to December): 3.270

BASE LOADS SUMMARY

	kwh/day	Annual kWh
Interior Lighting	2.60	949.00
Appliances	6.30	2299.40
Other	9.70	3540.50
Exterior Use	0.90	328.50
HVAC Fans		
HRV/Exhaust	0.23	84.19
Space Heating	0.48	176.42
Space Cooling	1.07	392.33
Total Average Electrical Load	21.29	7770.34

FAN OPERATION SUMMARY (kWh)

Hours	HRV/Exhaust Fans	Space Heating	Space Cooling
Heating	73.9	176.4	0.0
Neither	2.7	0.0	0.0
Cooling	7.6	0.0	392.3

Total	84.2	176.4
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ENERGY CONSUMPTION SUMMARY REPORT

Estimated Annual Space Heating Energy Consumption	= 5817.05 MJ	= 1615.85 kWh
Ventilator Electrical Consumption: Heating Hours	= 265.88 MJ	= 73.86 kWh
Estimated Annual DHW Heating Energy Consumption	= 15635.41 MJ	= 4343.17 kWh
ESTIMATED ANNUAL SPACE + DHW ENERGY CONSUMPTION	= 21718.34 MJ	= 6032.87 kWh
Estimated Greenhouse Gas Emissions	12.381 tonnes/year	

MONTHLY ENERGY PROFILE

Month	Energy Load (MJ)	Internal Gains (MJ)	Solar Gains (MJ)	Aux. Energy (MJ)	HRV Eff. %
Jan	6240.5	2162.2	1198.6	2879.7	75.4
Feb	5319.9	1949.4	1359.5	2011.1	76.4
Mar	4535.3	2163.0	1459.7	912.6	79.0
Apr	2782.4	1968.6	767.2	46.6	80.3
May	1545.3	1322.5	222.8	0.0	80.3
Jun	709.7	691.6	18.1	0.0	80.3
Jul	375.6	375.6	0.0	0.0	80.3
Aug	442.6	441.5	1.1	0.0	80.4
Sep	996.5	935.1	61.5	0.0	80.4
Oct	2550.6	1969.5	579.7	1.4	80.3
Nov	3836.4	2108.2	949.5	778.6	79.9
Dec	5598.5	2174.5	1013.1	2410.8	77.1
Ann	34933.3	18261.7	7630.8	9040.8	79.0

FOUNDATION ENERGY PROFILE

Month	Heat Loss (MJ)				Total
	Crawl Space	Slab	Basement	Walkout	
Jan	0.0	0.0	682.9	0.0	682.9
Feb	0.0	0.0	477.3	0.0	477.3
Mar	0.0	0.0	216.5	0.0	216.5
Apr	0.0	0.0	11.1	0.0	11.1
May	0.0	0.0	0.0	0.0	0.0
Jun	0.0	0.0	0.0	0.0	0.0
Jul	0.0	0.0	0.0	0.0	0.0
Aug	0.0	0.0	0.0	0.0	0.0
Sep	0.0	0.0	0.0	0.0	0.0
Oct	0.0	0.0	0.3	0.0	0.3
Nov	0.0	0.0	184.7	0.0	184.7
Dec	0.0	0.0	571.0	0.0	571.0
Ann	0.0	0.0	2143.7	0.0	2143.7

FOUNDATION TEMPERATURES & VENTILATION PROFILE

Month	Temperature (Deg °C)			Air Change Rate		Heat Loss (MJ)
	Crawl Space	Basement	Walkout	Natural	Total	

Jan	0.0	18.4	0.0	0.023	0.120	1384.2
Feb	0.0	18.2	0.0	0.022	0.119	1133.5
Mar	0.0	18.0	0.0	0.018	0.115	847.5
Apr	0.0	18.3	0.0	0.014	0.111	422.4
May	0.0	19.0	0.0	0.011	0.108	240.6
Jun	0.0	20.0	0.0	0.007	0.104	83.6
Jul	0.0	21.1	0.0	0.005	0.102	20.8
Aug	0.0	20.8	0.0	0.006	0.103	43.4
Sep	0.0	19.7	0.0	0.009	0.106	163.2
Oct	0.0	18.8	0.0	0.013	0.110	405.4
Nov	0.0	18.5	0.0	0.017	0.114	697.3
Dec	0.0	18.5	0.0	0.021	0.118	1181.7
Ann	0.0	19.1	0.0	0.014	0.111	6623.7

SPACE HEATING SYSTEM PERFORMANCE

Month	Space Heating Load (kWh)	Furnace Input (kWh)	Pilot Light (kWh)	Indoor Fans (kWh)	Heat Pump Input (kWh)	Total Input (kWh)	System Cop
Jan	799.9	407.1	0.0	49.8	122.1	579.0	1.382
Feb	558.6	196.0	0.0	41.7	119.3	357.0	1.565
Mar	253.5	26.9	0.0	21.8	84.0	132.6	1.911
Apr	13.0	0.0	0.0	0.8	22.7	23.6	0.550
May	0.0	0.0	0.0	0.0	0.0	0.0	0.000
Jun	0.0	0.0	0.0	0.0	0.0	0.0	0.000
Jul	0.0	0.0	0.0	0.0	0.0	0.0	0.000
Aug	0.0	0.0	0.0	0.0	0.0	0.0	0.000
Sep	0.0	0.0	0.0	0.0	0.0	0.0	0.000
Oct	0.3	0.0	0.0	0.0	0.1	0.1	3.040
Nov	216.3	5.0	0.0	17.1	73.9	96.0	2.254
Dec	669.7	253.7	0.0	45.1	128.8	427.6	1.566
Ann	2511.3	888.6	0.0	176.4	550.8	1615.8	1.422

AIR CONDITIONING SYSTEM PERFORMANCE

Month	Sensible Load (MJ)	Latent Load (MJ)	AirCond Energy (kWh)	Fan Energy (kWh)	Ventilator Energy (kWh)	Crankcase Heater (kWh)	Total Energy (kWh)	COP	Av.RH %
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Jan	809.5	18.0	75.1	15.6	0.0	0.0	90.7	2.5	44.7
Feb	1268.7	23.4	114.7	23.9	0.0	0.0	138.6	2.6	43.9
Mar	2214.6	11.9	167.1	35.9	0.0	0.0	203.0	3.0	38.9
Apr	2355.3	6.7	157.5	34.5	0.0	0.0	192.0	3.4	34.6
May	2584.8	43.1	173.5	37.0	0.0	0.0	210.5	3.5	35.5
Jun	2834.4	266.6	207.0	42.0	0.0	0.0	249.0	3.5	39.7
Jul	3204.0	438.4	247.7	48.4	0.0	0.0	296.1	3.4	42.0
Aug	3097.7	364.8	234.2	46.4	0.0	0.0	280.6	3.4	40.9
Sep	2709.9	153.3	188.8	39.4	0.0	0.0	228.2	3.5	37.7
Oct	2096.8	18.7	141.2	31.0	0.0	0.0	172.3	3.4	35.0
Nov	1471.4	4.2	108.7	23.7	0.0	0.0	132.4	3.1	37.3
Dec	805.7	9.9	69.6	14.6	0.0	0.0	84.2	2.7	42.5
Ann	25452.7	1358.9	1885.3	392.3	0.0	0.0	2277.6	3.3	39.3

MONTHLY ESTIMATED ENERGY CONSUMPTION BY DEVICE (MJ)

	Space Heating		DHW Heating		Lights &	HRV &	Air
Month	Primary	Secondary	Primary	Secondary	Appliances	FANS	Conditioner
Jan	439.5	1465.5	1410.0	0.0	2176.2	263.5	270.5
Feb	429.5	705.4	1285.3	0.0	1965.6	261.1	413.0
Mar	302.2	96.7	1410.9	0.0	2176.2	233.6	601.7
Apr	81.7	0.1	1331.7	0.0	2106.0	151.5	567.1
May	0.0	0.0	1327.7	0.0	2176.2	158.3	624.6
Jun	0.0	0.0	1239.6	0.0	2106.0	175.3	745.3
Jul	0.0	0.0	1246.7	0.0	2176.2	199.2	891.8
Aug	0.0	0.0	1234.1	0.0	2176.2	191.9	843.1
Sep	0.0	0.0	1206.5	0.0	2106.0	166.0	679.8
Oct	0.3	0.0	1281.3	0.0	2176.2	136.8	508.5
Nov	266.0	18.1	1285.9	0.0	2106.0	171.2	391.3
Dec	463.6	913.2	1375.6	0.0	2176.2	242.3	250.5
Ann	1982.8	3199.1	15635.4	0.0	25622.6	2350.6	6787.1

The calculated heat losses and energy consumptions are only estimates, based upon the data entered and assumptions within the program. Actual energy consumption and heat losses will be influenced by construction practices, localized weather, equipment characteristics and the lifestyle of the occupants.