



File: 77ES000521.HSE
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Weather Data for ST. JOHN'S, NEWFOUNDLAND

Builder Code: 77ES000521

Data Entry by: Brad Dunn
Date of entry: 2018-02-26
Company: Amerispec

Client name: Dawe, Tony
Street address: 21 MacMar Lane

City: CBS
Postal code: A1X 0K5
Region: Newfoundland
Telephone: 709-764-9600

Mailing address: 21 MacMar Lane
City: CBS
Postal Code: A1X 0K5
Region: Newfoundland

GENERAL HOUSE CHARACTERISTICS

House type: Double/Semi Detached
Number of storeys: One storey
Plan shape: Other, 5-6 corners
Front orientation: Southeast
Year House Built: 2018
Wall colour: Default
Roof colour: Medium brown
Soil Condition: Normal conductivity (dry sand, loam, clay)
Water Table Level: Normal (7-10m/23-33ft)

Absorptivity: 0.40
Absorptivity: 0.84

House Thermal Mass Level: (A) Light, wood frame

Effective mass fraction 1.000

Occupants :
2 Adults for 50.0% of the time
2 Children for 50.0% of the time
0 Infants for 0.0% of the time

Sensible Internal Heat Gain From Occupants: 2.40 kWh/day

HOUSE TEMPERATURES
Heating Temperatures

Main Floor:	69.8 °F
Basement:	66.2 °F
TEMP. Rise from 69.8 °F:	5.0 °F
Cooling Temperature: Main Floor :	77.00 °F

Indoor design temperatures for equipment sizing

Heating:	71.6 °F
Cooling:	75.2 °F

WINDOW CHARACTERISTICS

Label	Location	#	Overhang Width (ft)	Header Height (ft)	Tilt deg	Curtain Factor	Shutter (R)
South							
Window - 2	Wall - 1	1	1.30	0.67	90.0	1.00	0.00
Window - 9	Door - 3	1	1.30	0.67	90.0	1.00	0.00
East							
Window - 1	Wall - 1	1	1.30	0.67	90.0	1.00	0.00
Window - 5	Wall - 1	1	1.30	0.67	90.0	1.00	0.00
Window - 6	Door - 1	1	1.30	0.67	90.0	1.00	0.00
Window - 7	Door - 2	2	1.30	0.67	90.0	1.00	0.00
West							
Window - 3	Wall - 1	1	1.30	0.67	90.0	1.00	0.00
Window - 4	Wall - 1	1	1.30	0.67	90.0	1.00	0.00
Window - 8	Door - 4	1	1.30	0.67	90.0	1.00	0.00

Label	Type	#	Window Width (ft)	Window Height (ft)	Total Area (ft²)	Window R	SHGC
South							
Window - 2	213214	1	2.75	4.08	11.23	3.149	0.3772
Window - 9	213205	1	2.00	2.50	5.00	3.174	0.3942
East							
Window - 1	213214	1	8.08	5.42	43.78	3.487	0.4355
Window - 5	213214	1	5.42	5.42	29.34	3.411	0.4235
Window - 6	213204	1	0.67	0.83	0.56	2.659	0.2213
Window - 7	213204	2	1.00	4.00	8.00	3.035	0.3512
West							
Window - 3	213214	1	5.42	4.75	25.73	3.379	0.4183
Window - 4	213214	1	5.42	4.75	25.73	3.379	0.4183
Window - 8	213204	1	2.00	6.00	12.00	3.390	0.4190

WINDOW CODE SCHEDULE

Name	Internal Code	Description (Glazings, Coatings, Fill, Spacer, Type, Frame)
213214	213214	Double/double with 1 coat, Low-E .04 (soft), 13 mm Argon, Insulating, Hinged, Vinyl, RE* = -18.224, Eff. RSI= 3.01
213205	213205	Double/double with 1 coat, Low-E .04 (soft), 13 mm Argon, Insulating, Picture, Reinforced vinyl, RE* = -5.180, Eff. RSI= 3.46
213204	213204	Double/double with 1 coat, Low-E .04 (soft), 13 mm Argon, Insulating, Picture, Vinyl, RE* = -4.636, Eff. RSI= 3.52

* Window Standard Energy Rating estimated for assumed dimensions, and Air tightness type: CSA - A1; Leakage rate = 2.790 m³/hr/m

BUILDING PARAMETER DETAILS

CEILING COMPONENTS

	Construction Type	Code Type	Roof Slope	Heel Ht.(ft)	Section Area (ft ²)	R. Value (R)
Ceiling - 1	Attic/hip	24038O2000	6.996/12	1.30	1332.00	63.18

CEILING CODE SCHEDULE

Name	Internal Code	Description (Structure, typ/size, Spacing, Insull, 2, Int., Sheathing, Exterior, Studs)
24038O2000	24038O2000	Truss, 38x89 mm (2x4 in) Attic truss, 600 mm (24 in), RSI 9.0 (R 51) Blown cellulose, N/A, Gypsum + Non insul. strapping, N/A, N/A, N/A

MAIN WALL COMPONENTS

Label	Lintel Type	Fac. Dir	Number of Corn.	Number of Inter.	Height (ft)	Perim. (ft)	Area (ft ²)	R. Value (R)
Wall - 1 Type: ICF	007	N/A	4	6	9.00	148.00	1332.00	24.50
Wall - small Type: ICF	007	N/A	4	0	4.00	22.00	88.00	24.35

DOORS

Label	Type	Height (ft)	Width (ft)	Gross Area (ft ²)	R. Value (R)
Door - 1 Loc: Wall - 1	Steel polyurethane core	6.75	4.50	30.38	6.47
Door - 2 Loc: Wall - 1	Steel polyurethane core	8.00	9.00	72.00	6.47
Door - 3 Loc: Wall - 1	Steel polyurethane core	6.75	3.00	20.25	6.47
Door - 4 Loc: Wall - 1	Steel polyurethane core	6.75	3.00	20.25	6.47

USER-DEFINED STRUCTURE CODES SCHEDULE

Name	Description
11ICF	

FOUNDATIONS

Foundation Name:	Slab-on-grade - 2	Thermal break R-value:	16.80 R
Foundation Type:	Slab-on-grade	Skirt R-value:	16.80 R
Data Type:	Library		

Non-Rectangular Floor Shape

Floor Perimeter:	146.40 ft
Floor Area:	1332.00 ft ²

Added to Slab Type:	User specified	R-value :	16.80 R
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Exposed areas for: Slab-on-grade - 2
Exposed Perimeter: 111.00 ft

Configuration: SCB_33

- concrete or soil (for crawl space) floor
- bottom of slab fully insulated except under footing/foundation wall (ie. insulation starts 0.25 m from edge)
- thermal break around edge of slab
- vertical skirt extends from bottom of slab
- first storey is non-brick veneer or bricks thermally broken from concrete floor

FOUNDATION CODE SCHEDULE

Lintel Code Schedule

Name	Code	Description (Type, Material, Insulation)
007	007	Single, Wood, XTPS IV (64 mm, 2.5 in)

ROOF CAVITY INPUTS

Gable Ends		Total Area:	0.00 ft ²
Sheathing Material	Plywood/Part. bd 9.5 mm (3/8 in)		0.47 R
Exterior Material:	Hollow metal/vinyl cladding		0.62 R
Sloped Roof		Total Area:	1541.84 ft ²
Sheathing Material	Plywood/Part. bd 12.7 mm (1/2 in)		0.63 R
Exterior Material:	Asphalt shingles		0.44 R
Total Cavity Volume:	5785.2 ft ³	Ventilation Rate:	0.50 ACH/hr

BUILDING ASSEMBLY DETAILS

Label	Construction Code	Nominal (R)	System (R)	Effective (R)
CEILING COMPONENTS				
Ceiling - 1	24038O2000	62.26	63.57	63.18
MAIN WALL COMPONENTS				
Wall - 1	ICF	20.13	24.35	24.50
Wall - small	ICF	20.13	24.35	24.35

BUILDING PARAMETERS SUMMARY
ZONE 1 : Above Grade

Component	Area ft ² Gross	Area ft ² Net	Effective (R)	Heat Loss Mil.BTU	% Annual Heat Loss
Ceiling	1332.00	1332.00	63.18	4.39	8.20
Main Walls	1420.00	1141.31	24.49	11.40	21.31
Doors	142.88	117.32	6.47	4.69	8.77
South Windows	16.23	16.23	3.16	1.33	2.49
East Windows	81.68	81.68	3.40	6.21	11.60
West Windows	63.46	63.46	3.38	4.85	9.07
Slab on Grade	1332.00	1332.00	16.80	9.05	16.92
ZONE 1 Totals:				41.92	78.36

ZONE 2 : Basement

Component	Area ft ² Gross	Area ft ² Net	Effective (R)	Heat Loss Mil.BTU	% Annual Heat Loss
Ventilation					
	House Volume	Air Change	Heat Loss Mil.BTU	% Annual Heat Loss	
	11988.00 ft ³	0.232 ACH	11.578	21.64	

AIR LEAKAGE AND VENTILATION

Building Envelope Surface Area: 4084.00 ft²

Air Leakage Test Results at 50 Pa.(0.2 in H₂O) = 2.88 ACH

Equivalent Leakage Area @ 10 Pa = 70.13 in²

Terrain Description	Height	ft
@ Weather Station : Open flat terrain, grass	Anemometer	32.8
@ Building site : Suburban, forest	Bldg. Eaves	10.0

Local Shielding:	Walls:	Heavy
	Flue :	Light

Leakage Fractions-	Ceiling: 0.300	Walls: 0.400	Floors: 0.300
Normalized Leakage Area @ 10 Pa:	0.0172 in ² /ft ²		
Estimated Airflow to cause a 5 Pa Pressure Difference:	153 cfm		
Estimated Airflow to cause a 10 Pa Pressure Difference:	239 cfm		

F326 VENTILATION REQUIREMENTS

Kitchen, Living Room, Dining Room	3 rooms @ 2.4 cfm: 31.8 cfm
Utility Room	1 rooms @ 2.4 cfm: 10.6 cfm
Bedroom	1 rooms @ 4.7 cfm: 21.2 cfm
Bedroom	1 rooms @ 10.6 cfm: 10.6 cfm
Bathroom	1 rooms @ 2.4 cfm: 10.6 cfm
Basement Rooms	: 0.0 cfm

CENTRAL VENTILATION SYSTEM

System Type:	HVI Certified HRV
Manufacturer:	Fantech
Model Number:	fit 120 H

Fan and Preheater Power at 32.0 °F:	25 Watts
Fan and Preheater Power at -13.0 °F:	25 Watts
Preheater Capacity:	0 Watts
Sensible Heat Recovery Efficiency at 32.0 °F	74%
Sensible Heat Recovery Efficiency at -13.0 °F	75%
Total Heat Recovery Efficiency in Cooling Mode	25%

Low Temperature Ventilation Reduction:	0%
Low Temperature Ventilation Reduction: Airflow Adjustment	0 cfm (0.0%)

Vented combustion appliance depressurization limit: 5.00 Pa.

Ventilation Supply Duct

Location:	Main floor	Type:	Flexible
Length:	4.9 ft	Diameter:	6.0 in

Insulation: 4.0 R

Sealing Characteristics: Sealed

Ventilation Exhaust Duct

Location: Main floor

Type: Flexible

Length: 4.9 ft

Diameter: 6.0 in

Insulation: 4.0 R

Sealing Characteristics: Sealed

Operating schedule for

Month	% of Time	Added Vent. Rate (cfm)	Month	% of Time	Added Vent. Rate (cfm)
Jan	56.15	15.05	Jul	0.00	0.00
Feb	56.63	15.18	Aug	0.00	0.00
Mar	65.16	17.47	Sep	0.00	0.00
Apr	82.70	22.17	Oct	100.00	26.80
May	0.00	0.00	Nov	83.02	22.25
Jun	0.00	0.00	Dec	64.94	17.41

SECONDARY FANS & OTHER EXHAUST APPLIANCES

	Control	Supply (cfm)	Exhaust (cfm)
Dryer	Continuous	-	2.54

Dryer is vented outdoors

AIR LEAKAGE AND VENTILATION SUMMARY

F326 Required continuous ventilation:	84.755 cfm (0.42 ACH)
Central Ventilation Supply Rate ():	26.805 cfm (0.13 ACH)
Total house ventilation is Balanced	
Gross Air Leakage and Ventilation Energy Load:	14.782 Mil.BTU
Seasonal Heat Recovery Ventilator Efficiency:	71.150 %
Estimated Ventilation Electrical Load: Heating Hours:	0.320 Mil.BTU
Estimated Ventilation Electrical Load: Non-Heating Hours:	0.000 Mil.BTU
Net Air Leakage and Ventilation Load:	11.737 Mil.BTU

SPACE HEATING SYSTEM

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

Input Capacity at 0.0 °F: 23884.50 BTU/hr
Adjusted Capacity at 8.3 °F: 31266.68 BTU/hr
Input COP at 0.0 °F: 4.00
Adjusted COP at 8.3 °F: 4.69
Crankcase Heater Power: 60.00 watts
Heat Pump Temperature Cut-Off: Balance point

SPACE HEATING SYSTEM

Secondary Heating Fuel: Electricity
Equipment: Electric boiler
Manufacturer:
Model:

Specified Output Capacity: 23884.50 BTU/hr
Steady State Efficiency: 100.00 %
Fan Mode: Auto
ECM Motor: Yes
Low Speed Fan Power: 0 watts
High Speed Fan Power: 202 watts

AIR CONDITIONING SYSTEM

System Type: Conventional A/C
Manufacturer:
Model:

Capacity:	0 BTU/hr	Rated COP	3.843
SEER	21.00	Fan Power (watts)	0.00
Sensible Heat Ratio:	0.76	Crankcase Heater Power (watts):	60.00
Indoor Fan Flow Rate:	0.00 cfm		
Ventilator Flow Rate:	0.00 cfm		
Fraction of windows Openable	0.000		
Economizer control:	N/A	Indoor Fan Operation:	Continuous

Air Conditioner is integrated with the Heating System

DOMESTIC WATER HEATING SYSTEM

Primary Water Heating Fuel: Electricity
Water Heating Equipment: Conserver tank
Energy Factor: 0.906
Manufacturer:

Model:

Tank Capacity =	33.30 Imp Gal	Tank Blanket Insulation	6.00 R
Tank Location:	Main floor		

ANNUAL DOMESTIC WATER HEATING SUMMARY

Daily Hot Water Consumption:	49.49 Imp Gal
Hot Water Temperature:	131.00 °F
Estimated Domestic Water Heating Load:	16 Mil.BTU
Primary Domestic Water Heating Energy Consumption:	16.70 Mil.BTU
Primary System Seasonal Efficiency:	95.72%

ANNUAL SPACE HEATING SUMMARY

Design Heat Loss at 3.20 °F (1.23 BTU/hr / Ft3):	14753.27 BTU/hr
Gross Space Heat Loss:	53.50 Mil.BTU
Gross Space Heating Load:	53.50 Mil.BTU
Usable Internal Gains:	24.90 Mil.BTU
Usable Internal Gains Fraction:	46.55 %
Usable Solar Gains:	7.80 Mil.BTU
Usable Solar Gains Fraction:	14.58 %
Auxiliary Energy Required:	20.80 Mil.BTU
Space Heating System Load:	20.80 Mil.BTU
Heat Pump and Furnace Annual COP:	2.912
Heat Pump Annual Energy Consumption:	6.36 Mil.BTU
Furnace/Boiler Annual Energy Consumption:	0.12 Mil.BTU
Annual Space Heating Energy Consumption:	6.48 Mil.BTU

ANNUAL SPACE COOLING SUMMARY

Design Cooling Load for July at 75.20 °F:	0.00 BTU/hr
Design Sensible Heat Ratio:	0.000
Estimated Annual Space Cooling Energy:	0.00
Seasonal COP (May to October):	0.000

BASE LOADS SUMMARY

	kwh/day	Annual kWh
Interior Lighting	3.40	1241.00
Appliances	9.00	3285.00
Other	7.60	2774.00
Exterior Use	4.00	1460.00
HVAC Fans		

HRV/Exhaust	0.26	93.70
Space Heating	0.53	192.96
Space Cooling	0.00	0.00
Total Average Electrical Load	24.79	9046.67

FAN OPERATION SUMMARY (kWh)

Hours	HRV/Exhaust Fans	Space Heating	Space Cooling
Heating	93.7	193.0	0.0
Neither	0.0	0.0	0.0
Cooling	0.0	0.0	0.0
Total	93.7	193.0	0.0

ENERGUIDE FOR HOUSES ENERGY CONSUMPTION SUMMARY REPORT

Estimated Annual Space Heating Energy Consumption	= 7535.42 MJ	= 2093.17 kWh
Ventilator Electrical Consumption: Heating Hours	= 337.33 MJ	= 93.70 kWh
Estimated Annual DHW Heating Energy Consumption	= 17615.37 MJ	= 4893.16 kWh
ESTIMATED ANNUAL SPACE + DHW ENERGY CONSUMPTION	= 25488.11 MJ	= 7080.03 kWh
ENERGUIDE RATING (0 to 100)	85	
EnerGuide Required Ventilation Capacity	26.80 cfm	
Estimated Greenhouse Gas Emissions	12.796 tonnes/year	

ESTIMATED ANNUAL FUEL CONSUMPTION SUMMARY

Fuel	Space Heating	Space Cooling	DHW Heating	Appliance	Total
Electricity (kWh)	2186.87	0.00	4893.16	8760.00	15840.03

ESTIMATED ANNUAL FUEL CONSUMPTION COSTS

Fuel Costs Library = Embedded

RATE	Electricity (NL HYDRO)	Natural Gas (Ottawa08)	Oil (NL OIL)	Propane (NL)	Wood (NL)	Total
\$	1871.52	0.00	0.00	0.00	0.00	1871.52

Fuel Costs Library Listing

Filename = Embedded

Record # 1 Fuel:
Electricity

Rate ID = Hydro Rate
NL HYDRO Block

Rate Block	Dollars	Charge
	kWhr	Per kWhr (\$)
Minimum	0.0	16.040
1	99999.0	0.1060

Record # 2 Fuel:
Natural Gas

Rate ID = Gas Rate
Ottawa08 Block

Rate Block	Dollars	Charge
	m3	Per m3 (\$)
Minimum	0.0	14.000
1	30.0	0.5338
2	85.0	0.5277

3	170.0	0.5229
4	99999.0	0.5194

Record # 3 Fuel: Oil

Rate ID = Oil Rate
 NL OIL Block

Rate Block		Dollars	Charge
	Litre	Per Litre	(\$)
Minimum	0.0		0.000
1	99999.0	0.9591	

Record # 4 Fuel: Propane

Rate ID = Propane
 NL Rate Block

Rate Block		Dollars	Charge
	Litre	Per Litre	(\$)
Minimum	0.0		0.000
1	99999.0	0.8130	

Record # 5 Fuel: Wood

Rate ID = Cord Rate
 NL

Rate Block		Dollars	Charge
	Cord	Per Cord	(\$)
Minimum	0.0		0.000
1	99999.0	150.0000	

MONTHLY ENERGY PROFILE

Month	Energy Load (Mil.BTU)	Internal Gains (Mil.BTU)	Solar Gains (Mil.BTU)	Aux. Energy (Mil.BTU)	HRV Eff. %
Jan	7.1	2.3	0.6	4.3	71.1
Feb	6.6	2.1	0.8	3.7	71.1
Mar	6.5	2.3	1.2	3.0	71.1
Apr	5.2	2.2	1.1	1.9	71.1
May	4.1	2.3	1.0	0.8	0.0
Jun	2.8	2.0	0.7	0.1	0.0
Jul	1.8	1.6	0.2	0.0	0.0
Aug	1.7	1.5	0.2	0.0	0.0
Sep	2.5	1.9	0.5	0.1	0.0
Oct	3.9	2.3	0.6	1.0	71.2
Nov	4.9	2.2	0.5	2.2	71.2
Dec	6.4	2.3	0.4	3.7	71.1
Ann	53.5	24.9	7.8	20.8	71.2

FOUNDATION ENERGY PROFILE

Month	Heat Loss (Mil.BTU)				Total
	Crawl Space	Slab	Basement	Walkout	
Jan	0.0	0.9	0.0	0.0	0.9
Feb	0.0	0.8	0.0	0.0	0.8
Mar	0.0	0.9	0.0	0.0	0.9
Apr	0.0	0.8	0.0	0.0	0.8
May	0.0	0.8	0.0	0.0	0.8
Jun	0.0	0.7	0.0	0.0	0.7
Jul	0.0	0.7	0.0	0.0	0.7
Aug	0.0	0.6	0.0	0.0	0.6
Sep	0.0	0.6	0.0	0.0	0.6
Oct	0.0	0.7	0.0	0.0	0.7
Nov	0.0	0.7	0.0	0.0	0.7
Dec	0.0	0.8	0.0	0.0	0.8
Ann	0.0	9.1	0.0	0.0	9.1

FOUNDATION TEMPERATURES & VENTILATION PROFILE

Month	Temperature (Deg °F)			Air Change Rate		Heat Loss (Mil.BTU)
	Crawl Space	Basement	Walkout	Natural	Total	
Jan	0.0	0.0	0.0	0.212	0.300	1.8
Feb	0.0	0.0	0.0	0.211	0.300	1.6
Mar	0.0	0.0	0.0	0.200	0.300	1.6
Apr	0.0	0.0	0.0	0.176	0.300	1.2
May	0.0	0.0	0.0	0.154	0.166	0.7
Jun	0.0	0.0	0.0	0.132	0.145	0.4
Jul	0.0	0.0	0.0	0.110	0.122	0.2

Aug	0.0	0.0	0.0	0.105	0.118	0.2
Sep	0.0	0.0	0.0	0.125	0.138	0.4
Oct	0.0	0.0	0.0	0.153	0.300	0.8
Nov	0.0	0.0	0.0	0.176	0.300	1.1
Dec	0.0	0.0	0.0	0.200	0.300	1.5
Ann	0.0	0.0	0.0	0.163	0.232	11.6

SPACE HEATING SYSTEM PERFORMANCE

Month	Space Heating Load (Mil.BTU)	Furnace Input (Mil.BTU)	Pilot Light (Mil.BTU)	Indoor Fans (Mil.BTU)	Heat Pump Input (Mil.BTU)	Total Input (Mil.BTU)	System Cop
Jan	4.3	0.0	0.0	0.1	1.4	1.5	2.8
Feb	3.7	0.0	0.0	0.1	1.2	1.3	2.7
Mar	3.0	0.0	0.0	0.1	0.9	1.0	2.9
Apr	1.9	0.0	0.0	0.1	0.5	0.6	3.1
May	0.8	0.0	0.0	0.0	0.2	0.3	3.1
Jun	0.1	0.0	0.0	0.0	0.1	0.1	1.7
Jul	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aug	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sep	0.1	0.0	0.0	0.0	0.0	0.0	1.6
Oct	1.0	0.0	0.0	0.0	0.3	0.3	3.3
Nov	2.2	0.0	0.0	0.1	0.6	0.7	3.2
Dec	3.7	0.0	0.0	0.1	1.1	1.2	3.0
Ann	20.8	0.1	0.0	0.7	6.4	7.1	2.9

AIR CONDITIONING SYSTEM PERFORMANCE

Month	Sensible Load (Mil.BTU)	Latent Load (Mil.BTU)	AirCond Energy (kWh)	Fan Energy (kWh)	Ventilator Energy (kWh)	Total Energy (kWh)	COP	Av.RH %
May	0.000	0.000	0.0	0.0	0.0	0.0	0.0	0.0
Jun	0.000	0.000	0.0	0.0	0.0	0.0	0.0	0.0
Jul	0.000	0.000	0.0	0.0	0.0	0.0	0.0	0.0
Aug	0.000	0.000	0.0	0.0	0.0	0.0	0.0	0.0
Sep	0.000	0.000	0.0	0.0	0.0	0.0	0.0	0.0
Oct	0.000	0.000	0.0	0.0	0.0	0.0	0.0	0.0
Ann	0.000	0.000	0.0	0.0	0.0	0.0	0.0	0.0

MONTHLY ESTIMATED ENERGY CONSUMPTION BY DEVICE (Mil.BTU)

Month	Space Heating		DHW Heating		Lights & Appliances	HRV & FANS	Air Conditioner
	Primary	Secondary	Primary	Secondary			

Jan	1.352	0.031	1.473	0.000	2.539	0.185	0.000
Feb	1.178	0.037	1.338	0.000	2.293	0.164	0.000
Mar	0.933	0.013	1.473	0.000	2.539	0.140	0.000
Apr	0.550	0.008	1.403	0.000	2.457	0.105	0.000
May	0.245	0.006	1.418	0.000	2.539	0.022	0.000
Jun	0.065	0.001	1.342	0.000	2.457	0.003	0.000
Jul	0.000	0.000	1.364	0.000	2.539	0.000	0.000
Aug	0.000	0.000	1.356	0.000	2.539	0.000	0.000
Sep	0.033	0.000	1.320	0.000	2.457	0.001	0.000
Oct	0.264	0.005	1.387	0.000	2.539	0.088	0.000
Nov	0.625	0.009	1.373	0.000	2.457	0.112	0.000
Dec	1.115	0.014	1.450	0.000	2.539	0.159	0.000
Ann	6.360	0.124	16.696	0.000	29.890	0.978	0.000

ESTIMATED FUEL COSTS (Dollars)

Month	Electricity	Natural Gas	Oil	Propane	Wood	Total
Jan	189.36	0.00	0.00	0.00	0.00	189.36
Feb	171.64	0.00	0.00	0.00	0.00	171.64
Mar	174.39	0.00	0.00	0.00	0.00	174.39
Apr	156.54	0.00	0.00	0.00	0.00	156.54
May	147.44	0.00	0.00	0.00	0.00	147.44
Jun	136.18	0.00	0.00	0.00	0.00	136.18
Jul	137.29	0.00	0.00	0.00	0.00	137.29
Aug	137.03	0.00	0.00	0.00	0.00	137.03
Sep	134.46	0.00	0.00	0.00	0.00	134.46
Oct	149.08	0.00	0.00	0.00	0.00	149.08
Nov	158.16	0.00	0.00	0.00	0.00	158.16
Dec	179.95	0.00	0.00	0.00	0.00	179.95
Ann	1871.52	0.00	0.00	0.00	0.00	1871.52

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.