

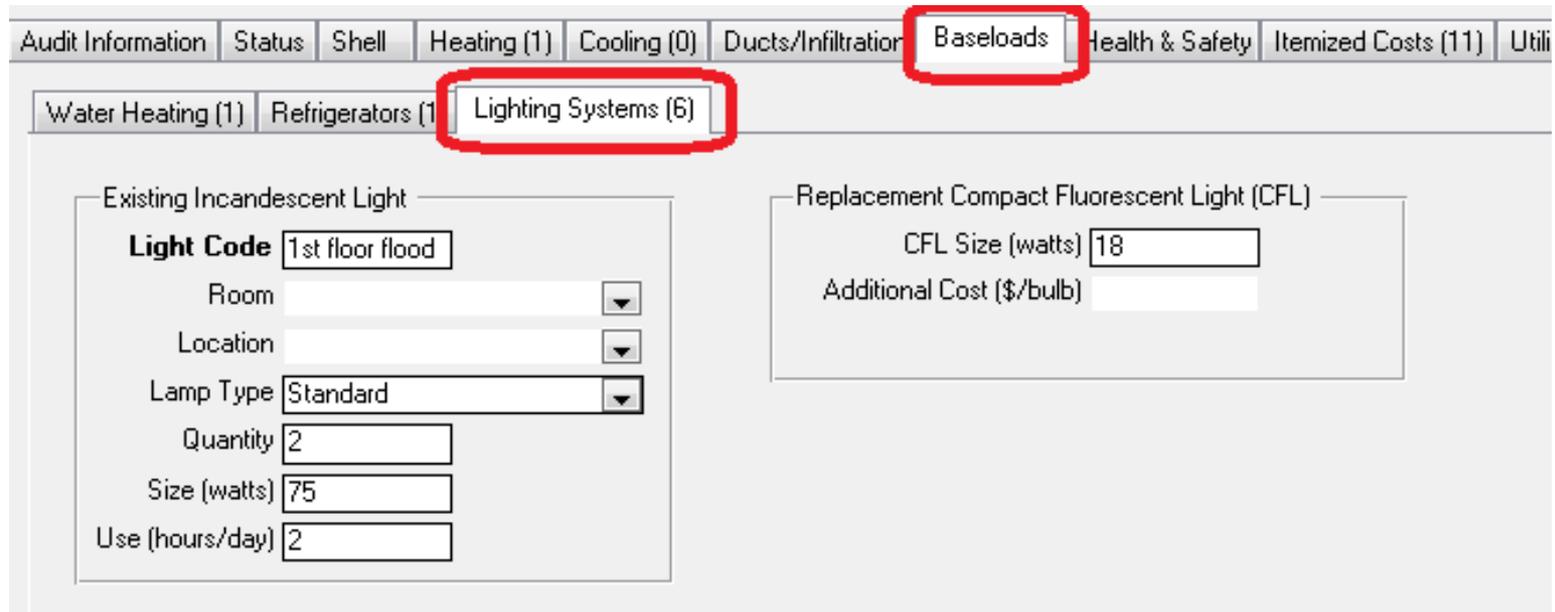
Initial look at Weatherization Assistant version 8.10 major upgrades



Lighting Systems

current version 8.9 options

Limited choices
Existing incandescent and Replacement CFL



Audit Information | Status | Shell | Heating (1) | Cooling (0) | Ducts/Infiltration | **Baseloads** | Health & Safety | Itemized Costs (11) | Utili

Water Heating (1) | Refrigerators (1) | **Lighting Systems (6)**

Existing Incandescent Light

Light Code 1st floor flood

Room

Location

Lamp Type Standard

Quantity 2

Size (watts) 75

Use (hours/day) 2

Replacement Compact Fluorescent Light (CFL)

CFL Size (watts) 18

Additional Cost (\$/bulb)

Lighting Systems

now includes additional options

NEAT Audit

Audit Name Client ID Client Name Alt. Client ID

Audit Information | Status | Shell | Heating (1) | Cooling (0) | Ducts/Infiltration | **Baseloads** | Health & Safety | Itemized Costs (2) | Utility Bills (1) | Measures (15)

Water Heating (1) | Refrigerators (0) | **Lighting Systems (1)**

Light Code Room Location

Existing Equipment

Type

Description

Quantity

Size (watts)

Use (hrs/day)

Lumens

Color Temp

Replacement

Type

Description

Quantity

Size (watts)

Use (hrs/day)

Lumens

Color Temp

Material Cost (\$/lamp)

Labor Cost (\$/lamp)

Other Cost (\$)

LIGHTING SYSTEM

by Light Code

1 of 1 New Copy Del

Comment

Lighting Systems

Existing equipment Type choices

Water Heating (1) Refrigerators (0) Lighting Systems (1)

Light Code Room Family Room

Existing Equipment

Type

Description

Quantity

Size (watts)

Use (hrs/day)

Lumens

Color Temp

Replacement equipment Type choices

Location

Replacement

Type

Description

Quantity

Size (watts)

Use (hrs/day)

Lumens

Color Temp

Material Cost (\$/lamp)

Labor Cost (\$/lamp)

Other Cost (\$)

Lighting Systems

Existing equipment Description choices

Water Heating (1) Refrigerators (0) Lighting Systems (1)

Light Code Room Family Room Location Wall

Existing Equipment Type Compact Fluorescent (CFL) Description CFL 14w (60w equiv)

Replacement Type LED Description LED 18w (100w equiv)

Quantity	Description	Manufacturer	Model	Type	Watts	UnitCost
	CFL 9w (40w equiv)			Compact Fluorescent (CFL)	9	\$1.24
	CFL 14w (60w equiv)			Compact Fluorescent (CFL)	14	\$2.24
	CFL 18w (75w equiv)			Compact Fluorescent (CFL)	18	\$5.23
	CFL 23w (100w equiv)			Compact Fluorescent (CFL)	23	\$5.23

Color Temp Cool(3000-5000K) Lumens 1600 Color Temp Warm (<3000K)

Replacement equipment Description choices

Replacement Type LED Description LED 8.5w (60w equiv)

Quantity	Description	Manufacturer	Model	Type
	LED 6w (40w equiv)			LED
	LED 8.5w (60w equiv)			LED
	LED 13.5w (75w equiv)			LED
	LED 18w (100w equiv)			LED

Color Temp Warm (<3000K) Material Cost (\$/lamp) \$3.00 Labor Cost (\$/lamp) \$0.99 Other Cost (\$)

8/3/2013 at 9:34 AM

Lighting Systems

Lighting options in the Supply Library

Supply

Supply Name References

General Information Cooling Equipment (0) Construction Materials/Hardware (0) Doors (0) Health and
Hot Water Equipment (0) Insulation (0) Labor (2) **Lighting (20)** Miscellaneous Supplies (0) Refri

Description	Manufacturer	Model	Units+	\$/Unit	Supplie
Incandescent 40w A19			Each	\$0.65	
Incandescent 60w A19			Each	\$0.75	
Incandescent 75w A19			Each	\$0.80	
Incandescent 100w A19			Each	\$1.00	
Halogen 29w A19 (40w equiv)			Each	\$1.24	
Halogen 43w A19 (60w equiv)			Each	\$1.24	
Halogen 53w A19 (75w equiv)			Each	\$1.50	
Halogen 72w A19 (100w equiv)			Each	\$1.50	
4' T8 32w			Each	\$1.96	
4' T12 40w			Each	\$1.99	
8' T8 59w			Each	\$6.44	
8' T12 75w			Each	\$5.00	
CFL 9w (40w equiv)			Each	\$1.24	
CFL 14w (60w equiv)			Each	\$2.24	
CFL 18w (75w equiv)			Each	\$5.23	
CFL 23w (100w equiv)			Each	\$5.23	
LED 6w (40w equiv)			Each	\$5.00	
LED 8.5w (60w equiv)			Each	\$3.00	
LED 13.5w (75w equiv)			Each	\$14.00	
LED 18w (100w equiv)			Each	\$20.00	
*			Each	\$0.00	

Record: 1 of 20 No Filter Search

Work Order Measures now includes ability to update energy savings from new audit run

Work Order

WO Client ID Client Name Alt. Client ID

Work Order Information | Status | Measures (15)

Order # Active

MeasureType

Measure Name Components Cost Center

Materials/Labor Detail

Order # Type

Components

Description Units+

MATERIAL OR LABOR

by Description

New Copy Del

Estimated Quantity 830 Unit Cost \$0.26 Total \$215.80

Actual

MEASURES

by Measure Name

New Copy Del

Update Savings using Audit Measure

Energy Savings for Measure: Wall Insulation

Energy Savings (annual)		Economic Savings (annual \$)		Lifetime of Measure (yr)	
Heating MMBTU	<input type="text" value="12.61"/>	Heating	<input type="text" value="\$179.57"/>	Lifetime of Measure (yr)	<input type="text" value="20"/>
Cooling KWH	<input type="text" value="0"/>	Cooling	<input type="text" value="\$0.00"/>	Present Worth of Life Cycle Savings (\$)	<input type="text" value="\$3,071.00"/>
Baseload KWH	<input type="text" value="0"/>	Baseload	<input type="text" value="\$0.00"/>	Actual/Estimated Adjustment Factor (%)	<input type="text" value="100"/>
Total (MMBtu)	<input type="text" value="12.61"/>	Total	<input type="text" value="\$179.57"/>	Audit Estimates	

Initial Cost

Savings to Investment Ratio (SIR)

Show Audit Material Detail

Create Materials Using Audit Detail

Show Audit Economic Details

	Estimated	Actual
Cost	<input type="text" value="\$838.30"/>	<input type="text"/>
SIR	<input type="text" value="3.7"/>	<input type="text"/>

Work Order Measures

Re-run audit and select updated energy savings

Energy Savings for Measure: Wall Insulation

Energy Savings (annual)		Economic Savings (annual \$)	
Heating MMBTU	12.61	Heating	\$179.57
Cooling KWH	0	Cooling	\$0.00
Baseload KWH	0	Baseload	\$0.00
Total (MMBtu)	12.61	Total	\$179.57

Update Savings using Audit Measure

Lifetime of Measure (yr)

Present Worth of Life Cycle Savings (\$)

Actual/Estimated Adjustment Factor (%)

Audit Estimates

Initial Cost

Savings to Investment Ratio (SIR)

#	Measure Name	Components	Heat MBTU	Heat \$	Cool KWH	Cool \$	Base KWH	Base \$	Life	Worth \$
1	Install exhaust fan		0	0	0	0	0	0		0
2	Seal Ducts		22.00307	313.1037	0	0	0	0		2863.21
3	Infiltration Redctn		20.89571	297.3459	0	0	0	0		2719.11
4	High Eff Furnace	HS1	39.99047	569.0645	0	0	0	0	15	7572.23
5	Fill Ceiling Cavity	FA3	15.0216	213.7574	0	0	0	0	20	3655.51
6	Low Flow Showerheads		0	0	0	0	398.1792	19.33819	15	257.32
7	DWH Pipe Insulation		0	0	0	0	324.5463	15.7621	13	184.27
8	Smart Thermostat		3.949559	56.20223	0	0	0	0	15	747.85
9	Floor Ins. R-38	F1	35.17009	500.4704	0	0	0	0	20	8558.65
10	DWH Tank Insulation		0	0	0	0	503.897	24.47254	13	286.11
11	Attic Ins. R-49	FA1	16.85508	239.8477	0	0	0	0	20	4101.69
12	Attic Ins. R-49	FA4	2.255629	32.0976	0	0	0	0	20	548.91
13	Lighting Retrofits	LT1	0	0	0	0	64.24058	7.0664		80.53
14	Wall Insulation	WLE-1,WLN-2,WLS-1,WLS-2	11.45702	163.0334	0	0	0	0	20	2788.07
15	Install CO detector		0	0	0	0	0	0		0

Materials/Labor Detail

Order # Type

Components

Description

Units+

MATERIAL OR LABOR

by Description

MEASURES

by Measure Name

of

Show Audit Material Detail

Create Materials Using Audit Detail

Show Audit Economic Details

	Estimated	Actual
Cost	<input type="text" value="\$838.30"/>	<input type="text"/>
SIR	<input type="text" value="3.7"/>	<input type="text"/>

Work Order Measures

SIR is updated and Comments are preserved

Work Order Information | Status | Measures (15)

Order # 14 Active

MeasureType Building Insulation

Measure Name Wall Insulation

Components WLE-1,WLN-2,WLS-1,WLS-2,WLW-1

Cost Center

Materials/Labor Details

Order # 1 Type Insulation

Components

Description Wall Insulation - Cellulose, Blown - 2x4 Filled

Units+ SqFt

MATERIAL OR LABOR

by Description

1 of 2 New Copy Del

MEASURES

by Measure Name

14 of 15 New Copy Del

Comment abcdefghijklmnopqrstuvwxyz
abcdefghijklmnopqrstu
vwxyz
abcdefghijklmnopqrstu
vwxyz
Actual/Estimated Adjustment Factor (%) 100.00%

Copy Supply

Comment abcdefghijklmnopqrstuvwxyz
abcdefghijklmnopqrstu
vwxyz
abcdefghijklmnopqrstu
vwxyz

	Quantity	Unit Cost	Total
Estimated	830	\$0.26	\$215.80
Actual			

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Show Audit Material Detail

Create Materials Using Audit Detail

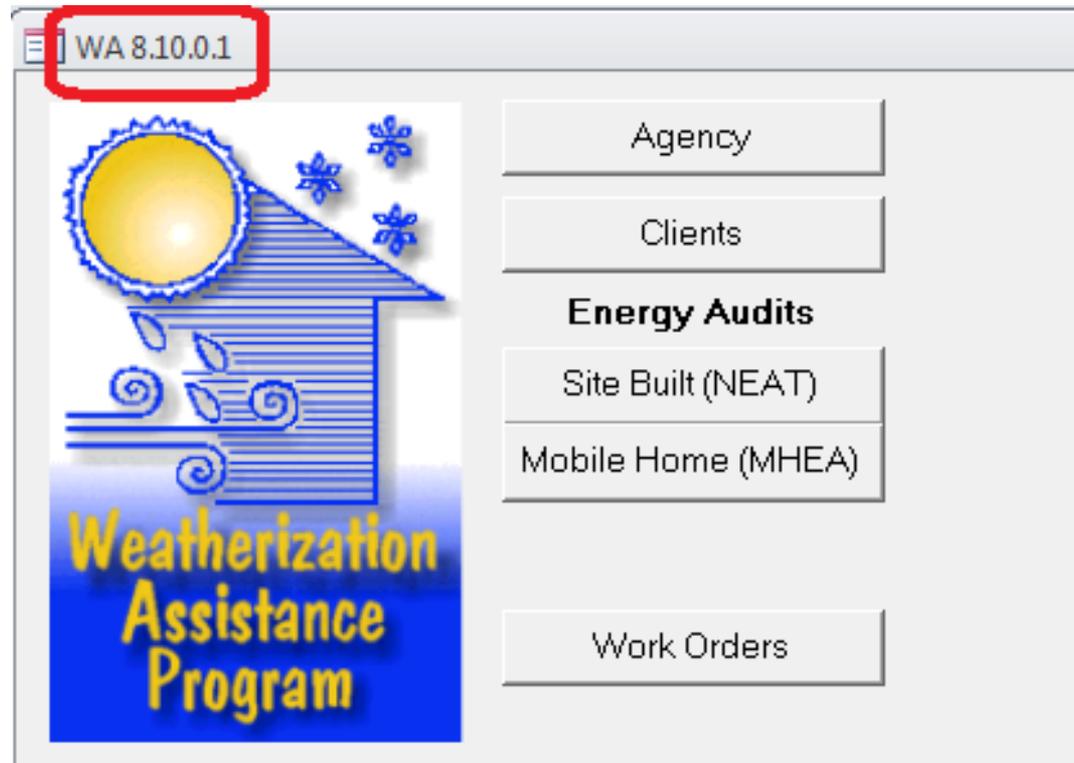
Show Audit Economic Details

	Estimated	Actual
Cost	\$838.30	
SIR	3.3	

Upgrade Process

Weatherization Assistant

Version 8.10



Major changes in version 8.10

Lighting options

NEAT Audit

Audit Name **House with finished attic** Client ID 00003 House with fini Client Name Tallhouse, Ann

Audit Information Status Shell Heating (1) Cooling (0) Ducts/Infiltration **Baseloads** Health & Safety Itemized Costs (2) Utility Bills

Water Heating (1) Refrigerators (0) **Lighting Systems (1)**

Light Code **LT1** Room Family Room Location Wall

Existing Equipment Type Incandescent Description Incandescent 100w A19

Replacement Type **LED** Description **LED 18w (100w equiv)**

ASHRAE Ventilation, depressurization

NEAT Audit

Audit Name **House with finished attic** Client ID 00003 House with fini Client Name Tallhouse, Ann Alt. C

Audit Information Status Shell Heating (1) Cooling (0) Ducts/Infiltration **Baseloads** **Health & Safety** Itemized Costs (2) Utility Bills (1)

Whole House Equipment Building She **ASHRAE Ventilation**

Ventilation

	Fans	Room Exists	Operable Window	Pre Wx		Target		Actual Post Wx		Actual Post W Occupants CF
				CFM	Deficit	CFM	Deficit	CFM	Deficit	
# of Bedrooms	2									
# of Occupants	3									
Sqft of House	1290									
State	MN									
City	Minneapolis St Paul									
Building Height (ft)	12.75									
Pre Wx BD	2000									
Target BD	1500									
Actual Post Wx BD	300									
Continuous Ventilation Needed (CFM)				23		42		89		

Depressurization

Combustion System Type

	Pre Wx	Target	Actual
Pre Wx Natural draft furnace/boiler vented with DWH			
All Other Exhaust Vent (CFM)	200	100	120
Target Induced draft furnace/boiler vented with DWH			
CAZ Limit (Pascals)	-3	-5	-5
Actual Post Wx Induced draft furnace/boiler vented w/with DWH			
Depressuization (Pascals)	-1.4	-0.8	-12.2

Flow Exponent: 0.65

Back Draft Potential

Update energy savings after audit re-run

Energy Savings for Measure: Wall Insulation

Energy Savings (annual)		Economic Savings (annual \$)		Lifetime of Measure (yr)	
Heating MMBTU	12.61	Heating	\$179.57	Lifetime of Measure (yr)	20
Cooling KWH	0	Cooling	\$0.00	Present Worth of Life Cycle Savings (\$)	\$3,071.00
Baseload KWH	0	Baseload	\$0.00	Actual/Estimated Adjustment Factor (%)	100
Total (MMBtu)	12.61	Total	\$179.57	Audit Estimates	
				Initial Cost	\$838.30
				Savings to Investment Ratio (SIR)	3.70

Update Savings using Audit Measure

Upgrade Document

Previous document describing upgrade steps to version 8.9

WEATHERIZATION ASSISTANT UPGRADE TO VERSION 8.9.1

February 11, 2015

The instructions contained in this document describe the process for upgrading the Weatherization Assistant (WA) software from version 8.6.0.7 (referred to as 8.6) to version 8.9.1.0 (referred to as 8.9). While this document is lengthy, virtually all of the screens that you will see during the installation are shown, and detailed descriptions of the installation steps are provided.

Currently creating an updated version of the document

Expect to have upgraded WA available end of August

Including updated reports

Major Upgrade Steps

1. Transfer client records to network/master database
2. Generate complete client export or database dump file
3. Download new version of WA from DOC FTP site
4. Install new version of WA on all machines at SP
5. Convert network/master backend database to new version
An option – Commerce can do the backend database conversion if requested by the SP. SP would upload backend database (e.g. wa8-9.mdb) to FTP site. Commerce would do conversion and put database back on FTP site for SP to download and put in place on SP's network.
6. Link new WA to converted backend database