

Utility Allowances

November 2025

DETROIT HOUSING COMMISSION

Detroit, Michigan



UPDATE REPORT

PUBLIC HOUSING

UTILITY ALLOWANCE SURVEY AND STUDY

The **Nelrod** Company®

3301 West Freeway 2nd Floor, Fort Worth, TX 76107
Tel: 817-922-9000 / Fax: 817-922-9100

Satellite Office: Washington D.C. Metro Area and Houston, Texas

E-Mail Address: ResidentLife@nelrod.com – Web Site: www.nelrod.com

© 2021 The Nelrod Company, Fort Worth, Texas



TABLE OF CONTENTS

Objectives and Methodology.....	1
Survey and Study Results	7
Utility Allowance Schedules	9
Chart 1 - Proposed Monthly Utility Allowances.....	10
Chart 2 - Comparison of Current and Proposed Utility Allowances.....	12
Individual Relief – Medical Equipment Allowances	14
Monthly Consumption Totals & Building Type Descriptions	15
Utility Allowance Cost of Consumption Calculations	20
Brewster Homes MI-001 - Slab.....	21
Sojourner Truth Homes MI-002 - Slab.....	23
Diggs Homes MI-003	25
Scattered Sites MI-012, 13, 14 – (All Gas).....	27
Scattered Sites MI-13, 14 – (Boiler H).....	29
Scattered Sites MI-012, 13, 14 – (Electric Stove).....	31
Smith Homes MI-016 – Gas WH.....	33
Algonquin MI-028 – Gas Heating	35
Greenbrooke Manor MI-029 - (Boiler Heating & WH).....	37
Support Documentation.....	38
Utility Provider Rates and Charges.....	39
Utility Provider Documentation.....	41
Comparison of Previous and Current Utility Rates	47
Development Characteristics Chart.....	49
Customization for Base Ekotrope Models	51
Development Reports	68
Currently Adopted Utility Allowances	131
LOCAL CLIMATOLOGICAL DATA-Annual Climatic Data Summary.....	133

OBJECTIVES AND METHODOLOGY

OBJECTIVES AND METHODOLOGY

PUBLIC HOUSING

ANNUAL UPDATE 2025

This study was conducted in compliance with the Public Housing Utility Allowance HUD Regulations 24CFR 965, Subpart E – Resident Allowances for Utilities, and HUD’s Utility Allowance Guidebook.

Utility Rate Comparison

Prior to beginning this update study for the **Detroit Housing Commission, MI**, as required by HUD regulations 24 CFR 965.507(b), a comparison (annual review) was made of the utility rates and charges (**dated: September 2024**) utilized in the development of the currently adopted utility allowances and the current utility rates and charges (**dated: November 2025**). This comparison indicated that DTE Energy’s electric tier-1 rates decreased 2%, tier-2 rates increased 4%, monthly charges increased 5%, and taxes remained the same. DTE Energy’s natural gas rates increased 21%, monthly charges decreased 4%, and taxes remained the same. (See “Comparison of Previous and Current Utility Rates” in Support Documentation section of this report.) Since the utility provider’s **rates** have changed more than 10%, the utility allowances will be adjusted. This does not mean that **utility allowances** will change by the actual percentage values listed above.

Objective

The objective of this survey and study is to update utility allowances with current utility provider’s rates and charges for electric and natural gas for the **Detroit Housing Commission, MI**. The Agency has 949 dwelling units at 9 developments where residents pay one or both of these utilities. At the Greenbrooke Manor developments residents pay only electric and at the remaining developments residents pay both electric and natural gas utilities. **Additionally, all of the developments have one or more of the following energy efficient items: windows, heaters, water heaters, insulation, and/or 100% fluorescent/LED lighting.** These allowances are based upon a reasonable consumption, from a previous engineering method study of an energy conservative family of modest circumstances and to provide for the basic essentials needed for a living environment that is safe, sanitary and healthful.

Methodology

The following steps were taken by a utility allowance specialist to accomplish the above objective.

1. Obtaining Current Utility Rates and Charges

The following information was obtained by a rate specialist and input in the Utility Providers Residential Rates and Charges document:

- a. Documentation on current residential **electric** rates and charges from **Detroit Edison** through their internet website and telephone inquiries.
- b. Documentation on current residential **natural gas** rates and charges from **Detroit Edison** through their internet website and telephone inquiries.

Residents do not pay for water, sewer, or trash collection utilities/services.

2. Comparison of Utility Rates

A rate specialist created charts comparing the previously applied electric and natural gas rates and charges (September 2024) for each provider to the current utility rates and charges (November 2025). These charts calculate a percentage difference in utility rates.

Then the rate specialist analyzed the rate comparisons and emailed the draft charts to the Agency with a recommendation to adjust current utility allowances due to a greater than 10% change in utility rates and charges (HUD regulations 24 CFR 965.507(b)).

3. Data Gathering

a. Currently Adopted Utility Allowances

A copy of the currently adopted Utility Allowances was requested and received from the Agency.

b. Monthly Utility Consumption Averages

In a previous study models of the Agency's Public Housing units were created by qualified licensed professionals, and consumption averages were obtained using an engineering method.

Since the average base consumptions developed in a previous study will not be adjusted, we gathered and utilized a copy of these monthly consumptions for back-up documentation to this study.

Note: HUD regulations for Public Housing (24 CFR 965.505 (e)) do not allow for air conditioning in the utility allowances, therefore air conditioning consumptions were eliminated from the consumption totals.

c. *Climatic Data*

In a previous study climatic data was gathered for the City of **Detroit, Michigan** (Annual Summary report 2022) from the National Oceanographic and Atmospheric Administration National Climatic Data Center (NCDC).

Since this factor is still the same the consumptions were not adjusted.

4. *Utility Allowance Adjustments*

The following process was conducted by a utility allowance specialist:

- a. Updated the **electric** Cost of Consumption calculation charts, from the previous study, for each development and applicable bedroom size with **Detroit Edison's** current utility rates and charges. A weighted average was then calculated and applied to the utility allowance totals.
- b. Updated the **natural gas** Cost of Consumption calculation charts, from the previous study, for each applicable development and applicable bedroom size with **Detroit Edison's** current utility rates and charges. A weighted average was then calculated and applied to the utility allowance totals.

Residents do not pay for water, sewer, or trash collection utilities/services.

The updated utility allowances were entered into Chart 1 – Proposed Monthly Utility Allowances, found in the Survey and Study Results section of this report.

Additionally, we have provided a Public Housing Monthly Utility Allowances Schedules, per the Agency.

5. *Utility Allowance Schedule*

Utility Allowance Schedules are not subject to approval by HUD before becoming effective, but will be reviewed in the course of audits or reviews of Agency operations (24 CFR 965.502(d)).

For more details, instructions, and requirements see Administrative Code-Compliance Monitoring Rules found in Title 10, Chapter 60, §60.109.

6. *Comparison of Current and Proposed Utility Allowances*

A comparison of the Agency's currently adopted utility allowances and the proposed allowances from this study is provided. (See Chart 2, found in the Survey and Study Results section of this report, for the comparison.)

7. *Notification, Display and Comment Period*

Per HUD regulations (24 CFR 965.507(c)), "The PHA shall give notice to all residents of proposed allowances, scheduled surcharges, and revisions thereof."

8. *Support Documentation*

Per HUD regulations (24 CFR 982.517(c)(1)), the Agency must maintain information supporting its annual review of utility allowances and any revisions made in its utility allowance schedule. Such record shall be available for inspection by residents.

This report contains a copy of all such supporting documentation.

9. *Annual Update*

HUD Utility Allowance regulations (24 CFR 965.507(b)) states that housing authorities shall **review allowances at least annually** and revise allowances established if there has been a **10% increase or decrease** in utility rate and charges. If an annual adjustment is not made to the current utility allowances, the agency must monitor utility rates and charges to see if a rate has changed, by itself or together with prior rate change, not adjusted for, resulting in a change of 10% or more since the last utility allowance update. This interim adjustment helps Agencies avoid costly back charges and rent adjustments. ResidentLife Utility Allowances® provides a quarterly Rate Monitoring Service.

10. *Individual Relief*

We have included Individual Relief Medical Equipment Allowances in the Survey and Study Results section of this report.

Please note that notice of the availability of relief from surcharges or payment of utility provider billings in excess of the allowances for resident-purchased utilities should be included in each notice to residents given in accordance with §965.502(c) and in the information given to new residents upon admission. Agencies should have written procedures regarding Individual Relief in their Admission and Continued Occupancy (ACOP) policies.

SURVEY AND STUDY RESULTS

SURVEY AND STUDY RESULTS

PUBLIC HOUSING

ANNUAL UPDATE 2025

The HUD Regulation (24 CFR 965.507(a) & (b)) requirement of a comparison of the utility providers' rates and charges was conducted and indicated **a greater than 10% change in utility rates and charges** since the 2024 study was conducted. (Refer to page 2, Utility Rate Comparison, and/or Comparison of Previous and Current Utility Rates in the Support Documentation section of this report.) Therefore, the **Detroit Housing Commission, MI** is updating utility allowances for electric and natural gas for their Public Housing (Conventional) developments where residents pay one or both of these utilities. At the Greenbrooke Manor developments residents pay only electric and at the remaining developments residents pay both electric and natural gas utilities. **Additionally, all of the developments have one or more of the following energy efficient items: windows, heaters, water heaters, insulation, and/or 100% fluorescent/LED lighting.** The Proposed Monthly Utility Allowances are shown in Chart 1 on the following pages.

This study was conducted in compliance with the Public Housing Utility Allowance HUD Regulations 24CFR 965, Subpart E – Resident Allowances for Utilities.

Comparison of Utility Allowances

A comparison of the Agency's currently adopted Public Housing monthly utility allowances (effective date: 02/01/2025) and the proposed monthly utility allowances from this study are shown in Chart 2. The chart is broken down by development, fuel end-use equipment, and bedroom size.

Results of Utility Allowance Comparison

Chart 2 shows that most proposed utility allowances have increased and one has remained the same after rounding. Increases range from \$2.00 to \$16.00. The development and units sizes with no change is Greenbrooke Manor 1 and 2-bedrooms.



DETROIT HOUSING COMMISSION, MI

PUBLIC HOUSING

MONTHLY UTILITY ALLOWANCE SCHEDULE

Effective Date:

Building Type: Row House/Townhouse

Brewster Homes MI-001	0BR	1BR	2BR	3BR	4BR	5BR	6BR
Electricity, Natural Gas			\$107.00	\$116.00			

Building Type: Row House/Townhouse

Sojourner Truth Homes MI-002	0BR	1BR	2BR	3BR	4BR	5BR	6BR
Electricity, Natural Gas			\$101.00	\$112.00	\$123.00		

Building Type: Row House/Townhouse

Diggs Homes MI-003	0BR	1BR	2BR	3BR	4BR	5BR	6BR
Electricity, Natural Gas				\$116.00	\$124.00	\$141.00	\$154.00

Building Type: Detached House

SS MI-012,013,014 (All Gas)	0BR	1BR	2BR	3BR	4BR	5BR	6BR
Electricity, Natural Gas			\$136.00	\$146.00	\$163.00	\$175.00	\$184.00

Building Type: Detached House

SS MI-013,014 (Boiler H)	0BR	1BR	2BR	3BR	4BR	5BR	6BR
Electricity, Natural Gas			\$69.00	\$77.00	\$82.00	\$88.00	\$93.00

Building Type: Detached House

SS MI-012,013,014 (Electric Stove)	0BR	1BR	2BR	3BR	4BR	5BR	6BR
Electricity, Natural Gas			\$140.00	\$151.00	\$169.00	\$179.00	\$193.00

Building Type: Row House/Townhouse

Smith Homes MI-016 (Gas WH)	0BR	1BR	2BR	3BR	4BR	5BR	6BR
Electricity, Natural Gas			\$101.00	\$112.00	\$120.00		

Building Type: Apartment/Multi-Family

Algonquin MI-028 (Gas H)	0BR	1BR	2BR	3BR	4BR	5BR	6BR
Electricity, Natural Gas		\$93.00	\$109.00				

Building Type: Apartment/Multi-Family

Greenbrooke Manor MI-029	0BR	1BR	2BR	3BR	4BR	5BR	6BR
Electricity		\$38.00	\$42.00				



DETROIT HOUSING COMMISSION, MI

PUBLIC HOUSING

PROPOSED MONTHLY UTILITY ALLOWANCES

Chart 1

UPDATE 2025

Building Type: Row House/Townhouse

Brewster Homes MI-001 (EE Equip: Win,H,Ins,LED)	0BR	1BR	2BR	3BR	4BR	5BR
Electricity (L&A,F)			\$43.00	\$48.00		
Natural Gas (H,WH,C)			\$64.00	\$68.00		
Totals			\$107.00	\$116.00		

Building Type: Row House/Townhouse

Sojourner Truth Homes MI-002 (EE Equip: Win,Ins,CFL)	0BR	1BR	2BR	3BR	4BR	5BR
Electricity (L&A,F)			\$43.00	\$48.00	\$52.00	
Natural Gas (H,WH,C)			\$58.00	\$64.00	\$71.00	
Totals			\$101.00	\$112.00	\$123.00	

Building Type: Row House/Townhouse

Diggs Homes MI-003 (EE Equip: Win,H,Ins,LED)	1BR	2BR	3BR	4BR	5BR	6BR
Electricity (L&A,F)			\$48.00	\$51.00	\$59.00	\$63.00
Natural Gas (H,WH,C)			\$68.00	\$73.00	\$82.00	\$91.00
Totals			\$116.00	\$124.00	\$141.00	\$154.00

A monthly average cost of the summer and winter adjustments were used for the electric and natural gas costs where applicable.

L&A= Lights & Appliances
F= Fan Motor for Heating
H= Space Heating
WH= Water Heating
C= Cooking

EE Equip= Energy Efficient Equipment
Win= Windows
Ins= Insulation
LED= 100% LED Lighting
CFL= 100% Fluorescent Lighting

Note: Public Housing utility allowances are calculated similar to method used by each utility provider. These allowances are not calculated by end use (like the Section 8 HCV Program), but by total usage for each utility type. Utility providers' monthly charges are included in the calculations.

DETROIT HOUSING COMMISSION, MI
PUBLIC HOUSING

Building Type: Detached House

Scattered Sites MI-012,13,14 (All Gas) (EE Equip: Win,H,Ins,CFL)						
	1BR	2BR	3BR	4BR	5BR	6BR
Electricity (L&A,F)		\$50.00	\$55.00	\$61.00	\$67.00	\$70.00
Natural Gas (H,WH,C)		\$86.00	\$91.00	\$102.00	\$108.00	\$114.00
Totals		\$136.00	\$146.00	\$163.00	\$175.00	\$184.00

Building Type: Detached House

Scattered Sites MI-13,14 (Boiler H) (EE Equip: Win,H,Ins,CFL)						
	1BR	2BR	3BR	4BR	5BR	6BR
Electricity (L&A,F)		\$38.00	\$43.00	\$47.00	\$51.00	\$54.00
Natural Gas (WH,C)		\$31.00	\$34.00	\$35.00	\$37.00	\$39.00
Totals		\$69.00	\$77.00	\$82.00	\$88.00	\$93.00

Building Type: Detached House

Scattered Sites MI-012,13,14 (Electric Stove) (EE Equip: Win,H,Ins,CFL)						
	1BR	2BR	3BR	4BR	5BR	6BR
Electricity (L&A,F,C)		\$56.00	\$62.00	\$69.00	\$74.00	\$79.00
Natural Gas (H,WH)		\$84.00	\$89.00	\$100.00	\$105.00	\$114.00
Totals		\$140.00	\$151.00	\$169.00	\$179.00	\$193.00

Building Type: Row House/Townhouse

Smith Homes MI-016 (EE Equip: Win,H,Ins,LED)	0BR	1BR	2BR	3BR	4BR	5BR
Electricity (L&A,C)			\$48.00	\$54.00	\$57.00	
Natural Gas (H,WH)			\$53.00	\$58.00	\$63.00	
Totals			\$101.00	\$112.00	\$120.00	

Building Type: Apartment/Multi-Family

Algonquin MI-028 (EE Equip: Win,H,Ins,LED)	0BR	1BR	2BR	3BR	4BR	5BR
Electricity (L&A,F,C)		\$43.00	\$49.00			
Natural Gas (H,WH)		\$50.00	\$60.00			
Totals		\$93.00	\$109.00			

Building Type: Apartment/Multi-Family

Greenbrooke Manor MI-029 (Boiler Heating & WH) (EE Equip: Win,Ins,LED)	0BR	1BR	2BR	3BR	4BR	5BR
Electricity (L&A,F,C)		\$38.00	\$42.00			

DETROIT HOUSING COMMISSION, MI
PUBLIC HOUSING

COMPARISON OF CURRENT AND PROPOSED UTILITY ALLOWANCES

Chart 3

UPDATE 2025

Development	Bedroom Size	Current Allowance	Proposed* Allowance	Difference**
Brewster Homes MI-001	2	\$99.00	\$107.00	\$8.00
	3	\$108.00	\$116.00	\$8.00
Sojourner Truth Homes MI-002	2	\$94.00	\$101.00	\$7.00
	3	\$104.00	\$112.00	\$8.00
	4	\$114.00	\$123.00	\$9.00
Diggs Homes MI-003	3	\$108.00	\$116.00	\$8.00
	4	\$115.00	\$124.00	\$9.00
	5	\$130.00	\$141.00	\$11.00
	6	\$142.00	\$154.00	\$12.00
Scattered Site MI-012,13,14 (All Gas)	2	\$124.00	\$136.00	\$12.00
	3	\$134.00	\$146.00	\$12.00
	4	\$150.00	\$163.00	\$13.00
	5	\$160.00	\$175.00	\$15.00
	6	\$169.00	\$184.00	\$15.00
Scattered Site MI-013,14 (Boiler H)	2	\$67.00	\$69.00	\$2.00
	3	\$74.00	\$77.00	\$3.00
	4	\$80.00	\$82.00	\$2.00
	5	\$86.00	\$88.00	\$2.00
	6	\$90.00	\$93.00	\$3.00
Scattered Site MI-012,13,14 (Electric Stove)	2	\$129.00	\$140.00	\$11.00
	3	\$139.00	\$151.00	\$12.00
	4	\$156.00	\$169.00	\$13.00
	5	\$165.00	\$179.00	\$14.00
	6	\$177.00	\$193.00	\$16.00
Smith Homes MI-016 (Gas WH)	2	\$96.00	\$101.00	\$5.00
	3	\$106.00	\$112.00	\$6.00
	4	\$113.00	\$120.00	\$7.00

Proposed allowances include the average for electric and natural gas summer and winter months where applicable.

*Proposed allowances were rounded to the nearest dollar.

**After rounding.

DETROIT HOUSING COMMISSION, MI
PUBLIC HOUSING

COMPARISON OF CURRENT AND PROPOSED UTILITY ALLOWANCES

Chart 3

Development	Bedroom Size	Current Allowance	Proposed* Allowance	Difference**
Algonquin MI-028 (Gas Heating)	1	\$88.00	\$93.00	\$5.00
	2	\$102.00	\$109.00	\$7.00
Greenbrooke Manor MI-029 (Boiler Heating & WH)	1	\$38.00	\$38.00	\$0.00
	2	\$42.00	\$42.00	\$0.00

Individual Relief
Medical Equipment Allowances
Electric Provider: DTE Energy

Item	Hours per Day	Wattage	Monthly kWh	Energy Charge	Utility Allowance
Oxygen Concentrator	18	400	223	0.186688	\$42.00
Nebulizer	2	75	5	0.186688	\$1.00
Electric Hospital Bed	0.2	200	1	0.186688	\$1.00
Alternating Pressure Pad	24	70	52	0.186688	\$10.00
Low Air-Loss Mattress	24	120	89	0.186688	\$17.00
Power Wheelchair/Scooter	3	360	33	0.186688	\$6.00
Feeding Tube Pump	24	120	89	0.186688	\$17.00
CPAP Machine	10	30	9	0.186688	\$2.00
Leg Compression Pump	24	30	22	0.186688	\$4.00
Dialysis Machine/Equipment	2	710	44	0.186688	\$8.00

Oxygen Concentrator

Use per day varies, assume 12-14 hours a day.

The 5-Liter model uses 400 W, the 3-Liter model uses 320 W.

Nebulizer

A medicine delivery system used mostly for pediatric care.

Used 4-6 times a day for 20 minutes at a time at 75W.

Semi/Fully Electric Hospital Bed

Use depends on adjustments. 200 W.

Alternating Pressure Pad

An air-filled mattress overlay.

Used 24 hours a day for someone who is bed-ridden.

Low Air-Loss Mattress

Takes the place of mattress - air -filled pressurized mattress.

Cycles air around every 15-20 minutes.

Power Wheelchairs and Scooters

Need to be charged approximately 8 hours every 3 days.

Batteries are 120 V, 3 Amp, 360 W.

Feeding Tube Pump (Continuous Feed)

A pump delivers a constant amount of formula throughout the day or night.

CPAP Machine

Used for Sleep Apnea. Machines run only at night for people who have a tendency to stop breathing at night. At maximum pressure use is 40 Watts. On average - 30 Watts.

Leg Compression Pump

Provides intensive compression therapy. Use varies, generally from 8-24 hours daily.

Dialysis Machine/Equipment (Small/Portable)

Filters a patient's blood to remove excess water and waste products. Used 2 hours daily.

MONTHLY CONSUMPTION TOTALS & BUILDING TYPE DESCRIPTIONS

DETROIT HOUSING COMMISSION, MI

PUBLIC HOUSING

MONTHLY UTILITY CONSUMPTION TOTALS

Consumptions updated in a previous study using an engineering method - 2024

Building Type: Row House/Townhouse

Brewster Homes MI-001 (EE Equip: Win,H,Ins,LED)	0BR	1BR	2BR	3BR	4BR	5BR	5BR
Electricity (kWh) S(L&A)			133	155			
Electricity (kWh) W(L&A,F)			186	217			
Natural Gas (ccfs) S(WH,C)			15	18			
Natural Gas (ccfs) W(H,WH,C)			70	75			

Building Type: Row House/Townhouse

Sojourner Truth Homes MI-002 (EE Equip: Win,Ins,CFL)	0BR	1BR	2BR	3BR	4BR	5BR	6BR
Electricity (kWh) S(L&A)			141	164	178		
Electricity (kWh) W(L&A,F)			184	212	234		
Natural Gas (ccfs) S(WH,C)			15	18	21		
Natural Gas (ccfs) W(H,WH,C)			60	68	78		

Building Type: Row House/Townhouse

Diggs Homes MI-003 (EE Equip: Win,H,LED)	0BR	1BR	2BR	3BR	4BR	5BR	6BR
Electricity (kWh) S(L&A)				155	167	198	210
Electricity (kWh) W(L&A,F)				217	233	276	300
Natural Gas (ccfs) S(WH,C)				18	21	23	25
Natural Gas (ccfs) W(H,WH,C)				75	81	95	108

L&A= Lights & Appliances

F= Fan Motor for Heating

H= Space Heating

WH= Water Heating

C= Cooking

EE Equip= Energy Efficient Equipment

Win= Windows

Ins= Insulation

CFL or LED= 100% Fluorescent or LED Lighting

S= Summer

W= Winter

Summer: June - September (4), Winter: October - May (8)

Seasons based on climatic data.

DETROIT HOUSING COMMISSION, MI

PUBLIC HOUSING

Building Type: Detached House

Scattered Sites MI-012,13,14 (All Gas) (EE Equip: Win,H,Ins,CFL)	0BR	1BR	2BR	3BR	4BR	5BR	6BR
Electricity (kWh) S(L&A)			141	164	186	208	222
Electricity (kWh) W(L&A,F)			236	263	303	333	353
Natural Gas (ccfs) S(WH,C)			16	19	21	23	25
Natural Gas (ccfs) W(H,WH,C)			104	112	128	136	145

Building Type: Detached House

Scattered Sites MI-13,14 (Boiler H) (EE Equip: Win,H,Ins,CFL)	0BR	1BR	2BR	3BR	4BR	5BR	6BR
Electricity (kWh) S(L&A)			141	164	186	208	222
Electricity (kWh) W(L&A,F)			146	169	192	215	229
Natural Gas (ccfs) (WH,C)			16	19	21	23	25

Building Type: Detached House

Scattered Sites MI-012,13,14 (Electric Stove) (EE Equip: Win,H,Ins,CFL)	0BR	1BR	2BR	3BR	4BR	5BR	6BR
Electricity (kWh) S(L&A,C)			172	198	224	249	266
Electricity (kWh) W(L&A,F,C)			268	300	342	372	401
Natural Gas (ccfs) S(WH)			14	16	18	20	22
Natural Gas (ccfs) W(H,WH)			103	110	127	133	146

Building Type: Row House/Townhouse

Smith Homes MI-016 (EE Equip: Win,H,Ins,LED)	0BR	1BR	2BR	3BR	4BR	5BR	6BR
Electricity (kWh) S(L&A,C)			164	190	205		
Electricity (kWh) W(L&A,F,C)			209	240	258		
Natural Gas (ccfs) S(WH)			13	15	18		
Natural Gas (ccfs) W(H,WH)			54	61	67		

Building Type: Apartment/Multi-Family

Algonquin MI-028 (EE Equip: Win,H,Ins,LED)	0BR	1BR	2BR	3BR	4BR	5BR	6BR
Electricity (kWh) S(L&A,C)		142	164				
Electricity (kWh) W(L&A,F,C)		185	219				
Natural Gas (ccfs) S(WH)		11	13				
Natural Gas (ccfs) W(H,WH)		50	64				

DETROIT HOUSING COMMISSION, MI

PUBLIC HOUSING

Building Type: Apartment/Multi-Family

Greenbrooke Manor MI-029 (Boiler Heating & WH) (EE Equip: Win,Ins,LED)	0BR	1BR	2BR	3BR	4BR	5BR	5BR
Electricity (kWh) S(L&A,C)		142	164				
Electricity (kWh) W(L&A,F,C)		144	167				

Building Type (Structure) Descriptions

1. **Apartment/Walk-Up/Condominium/Garden Apartment/Low-Rise/Flat (Apt)**

- a. Building with a group of 3 individual **units** with common walls; attached to other units; separate entrances, and may have common staircases.
- b. Each **building** may have an end unit, inside unit, top unit, bottom unit, etc. **Building** will have 2 or more stories.
- c. Usually, but not always, there will be units on both sides of building.

2. **High Rise Apartment (H-R)**

A multi-unit building; 5 or more stories; sharing one or more common entrances. May have an elevator.

3. **Row House/Townhouse/Triplex/Fourplex/Multiplex (RH)**

- a. An individual unit attached to other individual units; 2 or more common walls; separate ground level entrances; 1 or 2 story **units**.
- b. Each building will have end units and inside units.
- c. Fourplex units usually share 2 common walls; can be square-shaped or L-shaped.
- d. Triplex building can be V-shaped.

4. **Semi-Detached/Duplex (S-D or SD)**

Building with 2 individual housing units; with separate entrances; one common wall; 1 or 2 story units.

5. **Detached House (DH)**

A detached building intended to house one family; sits on its own piece of land; not attached to another dwelling.

UTILITY ALLOWANCE COST OF CONSUMPTION CALCULATIONS

DETROIT HOUSING COMMISSION, MI

PUBLIC HOUSING

UTILITY ALLOWANCE COST OF CONSUMPTION CALCULATIONS

ELECTRICITY - DTE Energy

UPDATE 2025

Brewster Homes MI-001

Building Type: Row House/Townhouse

Monthly Average Unit Consumption kWh for all bedroom types - Summer	0BR	1BR	2BR	3BR	4BR	5BR
			133	155		
Total Monthly Charges Per Month \$9.75			\$9.75	\$9.75		
Total Energy Charges (0-527) Per KWH 0.186688			\$24.83	\$28.94		
<i>Subtotal</i>			\$34.58	\$38.69		
Michigan Sales Tax % of Total 4%			\$1.38	\$1.55		
Total Monthly Cost - Summer			\$35.96	\$40.24		

Monthly Average Unit Consumption kWh for all bedroom types - Winter	0BR	1BR	2BR	3BR	4BR	5BR
			186	217		
Total Monthly Charges Per Month \$9.75			\$9.75	\$9.75		
Total Energy Charges (0-527) Per KWH 0.186688			\$34.72	\$40.51		
<i>Subtotal</i>			\$44.47	\$50.26		
Michigan Sales Tax % of Total 4%			\$1.78	\$2.01		
Total Monthly Cost - Winter			\$46.25	\$52.27		

Averaging Months	0BR	1BR	2BR	3BR	4BR	5BR
Summer Annual Avg 4			\$143.84	\$160.96		
Winter Annual Avg 8			\$370.00	\$418.16		
Total Monthly Cost (Based on Annual Average)			\$42.82	\$48.26		

Summer: June - September (4), Winter: October - May (8)
Seasons based on climatic data.

DETROIT HOUSING COMMISSION, MI

PUBLIC HOUSING

UTILITY ALLOWANCE COST OF CONSUMPTION CALCULATIONS

NATURAL GAS - DTE Energy

UPDATE 2025

Brewster Homes MI-001

Building Type: Row House/Townhouse

Monthly Average Unit Consumption ccf for all bedroom types - Summer	0BR	1BR	2BR	3BR	4BR	5BR
			15	18		
Total Monthly Charges Per Month \$15.16			\$15.16	\$15.16		
Total Energy Charges Per CCF 0.89837			\$13.48	\$16.17		
<i>Subtotal</i>			\$28.64	\$31.33		
State Sales Tax % of Total 4%			\$1.15	\$1.25		
Total Monthly Cost - Summer			\$29.79	\$32.58		

Monthly Average Unit Consumption ccf for all bedroom types - Winter	0BR	1BR	2BR	3BR	4BR	5BR
			70	75		
Total Monthly Charges Per Month \$15.16			\$15.16	\$15.16		
Total Energy Charges Per CCF 0.89837			\$62.89	\$67.38		
<i>Subtotal</i>			\$78.05	\$82.54		
State Sales Tax % of Total 4%			\$3.12	\$3.30		
Total Monthly Cost - Winter			\$81.17	\$85.84		

Averaging Months	0BR	1BR	2BR	3BR	4BR	5BR
Summer Annual Avg 4			\$119.16	\$130.32		
Winter Annual Avg 8			\$649.36	\$686.72		
Total Monthly Cost (Based on Annual Average)			\$64.04	\$68.09		

Summer: June - September (4), Winter: October - May (8)
Seasons based on climatic data.

DETROIT HOUSING COMMISSION, MI

PUBLIC HOUSING

UTILITY ALLOWANCE COST OF CONSUMPTION CALCULATIONS

ELECTRICITY - DTE Energy

UPDATE 2025

Sojourner Truth Homes MI-002

Building Type: Row House/Townhouse

Monthly Average Unit Consumption kWh for all bedroom types - Summer	0BR	1BR	2BR	3BR	4BR	5BR
			141	164	178	
Total Monthly Charges Per Month \$9.75			\$9.75	\$9.75	\$9.75	
Total Energy Charges (0-527) Per KWH 0.186688			\$26.32	\$30.62	\$33.23	
<i>Subtotal</i>			\$36.07	\$40.37	\$42.98	
Michigan Sales Tax % of Total 4%			\$1.44	\$1.61	\$1.72	
Total Monthly Cost - Summer			\$37.51	\$41.98	\$44.70	

Monthly Average Unit Consumption kWh for all bedroom types - Winter	0BR	1BR	2BR	3BR	4BR	5BR
			184	212	234	
Total Monthly Charges Per Month \$9.75			\$9.75	\$9.75	\$9.75	
Total Energy Charges (0-527) Per KWH 0.186688			\$34.35	\$39.58	\$43.68	
<i>Subtotal</i>			\$44.10	\$49.33	\$53.43	
Michigan Sales Tax % of Total 4%			\$1.76	\$1.97	\$2.14	
Total Monthly Cost - Winter			\$45.86	\$51.30	\$55.57	

Averaging Months	0BR	1BR	2BR	3BR	4BR	5BR
Summer Annual Avg 4			\$150.04	\$167.92	\$178.80	
Winter Annual Avg 8			\$366.88	\$410.40	\$444.56	
Total Monthly Cost (Based on Annual Average)			\$43.08	\$48.19	\$51.95	

Summer: June - September (4), Winter: October - May (8)
Seasons based on climatic data.

DETROIT HOUSING COMMISSION, MI

PUBLIC HOUSING

UTILITY ALLOWANCE COST OF CONSUMPTION CALCULATIONS

NATURAL GAS - DTE Energy

UPDATE 2025

Sojourner Truth Homes MI-002

Building Type: Row House/Townhouse

Monthly Average Unit Consumption ccf for all bedroom types - Summer	0BR	1BR	2BR	3BR	4BR	5BR
			15	18	21	
Total Monthly Charges Per Month \$15.16			\$15.16	\$15.16	\$15.16	
Total Energy Charges Per CCF 0.89837			\$13.48	\$16.17	\$18.87	
<i>Subtotal</i>			\$28.64	\$31.33	\$34.03	
State Sales Tax % of Total 4%			\$1.15	\$1.25	\$1.36	
Total Monthly Cost - Summer			\$29.79	\$32.58	\$35.39	

Monthly Average Unit Consumption ccf for all bedroom types - Winter	0BR	1BR	2BR	3BR	4BR	5BR
			60	68	78	
Total Monthly Charges Per Month \$15.16			\$15.16	\$15.16	\$15.16	
Total Energy Charges Per CCF 0.89837			\$53.90	\$61.09	\$70.07	
<i>Subtotal</i>			\$69.06	\$76.25	\$85.23	
State Sales Tax % of Total 4%			\$2.76	\$3.05	\$3.41	
Total Monthly Cost - Winter			\$71.82	\$79.30	\$88.64	

Averaging Months	0BR	1BR	2BR	3BR	4BR	5BR
Summer Annual Avg 4			\$119.16	\$130.32	\$141.56	
Winter Annual Avg 8			\$574.56	\$634.40	\$709.12	
Total Monthly Cost (Based on Annual Average)			\$57.81	\$63.73	\$70.89	

Summer: June - September (4), Winter: October - May (8)
Seasons based on climatic data.

DETROIT HOUSING COMMISSION, MI

PUBLIC HOUSING

UTILITY ALLOWANCE COST OF CONSUMPTION CALCULATIONS

ELECTRICITY - DTE Energy

UPDATE 2025

Diggs Homes MI-003

Building Type: Row House/Townhouse

Monthly Average Unit Consumption kWh for all bedroom types - Summer	0BR	1BR	2BR	3BR	4BR	5BR	6BR
				155	167	198	210
Total Monthly Charges Per Month \$9.75				\$9.75	\$9.75	\$9.75	\$9.75
Total Energy Charges (0-527) Per KWH 0.186688				\$28.94	\$31.18	\$36.96	\$39.20
<i>Subtotal</i>				\$38.69	\$40.93	\$46.71	\$48.95
Michigan Sales Tax % of Total 4%				\$1.55	\$1.64	\$1.87	\$1.96
Total Monthly Cost - Summer				\$40.24	\$42.57	\$48.58	\$50.91

Monthly Average Unit Consumption kWh for all bedroom types - Winter	0BR	1BR	2BR	3BR	4BR	5BR	6BR
				217	233	276	300
Total Monthly Charges Per Month \$9.75				\$9.75	\$9.75	\$9.75	\$9.75
Total Energy Charges (0-527) Per KWH 0.186688				\$40.51	\$43.50	\$51.53	\$56.01
<i>Subtotal</i>				\$50.26	\$53.25	\$61.28	\$65.76
Michigan Sales Tax % of Total 4%				\$2.01	\$2.13	\$2.45	\$2.63
Total Monthly Cost - Winter				\$52.27	\$55.38	\$63.73	\$68.39

Averaging Months	0BR	1BR	2BR	3BR	4BR	5BR	6BR
Summer Annual Avg 4				\$160.96	\$170.28	\$194.32	\$203.64
Winter Annual Avg 8				\$418.16	\$443.04	\$509.84	\$547.12
Total Monthly Cost (Based on Annual Average)				\$48.26	\$51.11	\$58.68	\$62.56

Summer: June - September (4), Winter: October - May (8)
Seasons based on climatic data.

DETROIT HOUSING COMMISSION, MI

PUBLIC HOUSING

UTILITY ALLOWANCE COST OF CONSUMPTION CALCULATIONS

NATURAL GAS - DTE Energy

UPDATE 2025

Diggs Homes MI-003

Building Type: Row House/Townhouse

Monthly Average Unit Consumption ccf for all bedroom types - Summer	0BR	1BR	2BR	3BR	4BR	5BR	6BR
				18	21	23	25
Total Monthly Charges Per Month \$15.16				\$15.16	\$15.16	\$15.16	\$15.16
Total Energy Charges Per CCF 0.89837				\$16.17	\$18.87	\$20.66	\$22.46
<i>Subtotal</i>				\$31.33	\$34.03	\$35.82	\$37.62
State Sales Tax % of Total 4%				\$1.25	\$1.36	\$1.43	\$1.50
Total Monthly Cost - Summer				\$32.58	\$35.39	\$37.25	\$39.12

Monthly Average Unit Consumption ccf for all bedroom types - Winter	0BR	1BR	2BR	3BR	4BR	5BR	6BR
				75	81	95	108
Total Monthly Charges Per Month \$15.16				\$15.16	\$15.16	\$15.16	\$15.16
Total Energy Charges Per CCF 0.89837				\$67.38	\$72.77	\$85.35	\$97.02
<i>Subtotal</i>				\$82.54	\$87.93	\$100.51	\$112.18
State Sales Tax % of Total 4%				\$3.30	\$3.52	\$4.02	\$4.49
Total Monthly Cost - Winter				\$85.84	\$91.45	\$104.53	\$116.67

Averaging Months	0BR	1BR	2BR	3BR	4BR	5BR	6BR
Summer Annual Avg 4				\$130.32	\$141.56	\$149.00	\$156.48
Winter Annual Avg 8				\$686.72	\$731.60	\$836.24	\$933.36
Total Monthly Cost (Based on Annual Average)				\$68.09	\$72.76	\$82.10	\$90.82

Summer: June - September (4), Winter: October - May (8)
Seasons based on climatic data.

DETROIT HOUSING COMMISSION, MI

PUBLIC HOUSING

UTILITY ALLOWANCE COST OF CONSUMPTION CALCULATIONS

ELECTRICITY - DTE Energy

UPDATE 2025

Scattered Sites MI-012,013,014 (All Gas)

Building Type: Detached House

Monthly Average Unit Consumption kWh for all bedroom types - Summer	1BR	2BR	3BR	4BR	5BR	6BR
		141	164	186	208	222
Total Monthly Charges Per Month \$9.75		\$9.75	\$9.75	\$9.75	\$9.75	\$9.75
Total Energy Charges (0-527) Per KWH 0.186688		\$26.32	\$30.62	\$34.72	\$38.83	\$41.44
<i>Subtotal</i>		\$36.07	\$40.37	\$44.47	\$48.58	\$51.19
Michigan Sales Tax % of Total 4%		\$1.44	\$1.61	\$1.78	\$1.94	\$2.05
Total Monthly Cost - Summer		\$37.51	\$41.98	\$46.25	\$50.52	\$53.24

Monthly Average Unit Consumption kWh for all bedroom types - Winter	1BR	2BR	3BR	4BR	5BR	6BR
		236	263	303	333	353
Total Monthly Charges Per Month \$9.75		\$9.75	\$9.75	\$9.75	\$9.75	\$9.75
Total Energy Charges (0-527) Per KWH 0.186688		\$44.06	\$49.10	\$56.57	\$62.17	\$65.90
<i>Subtotal</i>		\$53.81	\$58.85	\$66.32	\$71.92	\$75.65
Michigan Sales Tax % of Total 4%		\$2.15	\$2.35	\$2.65	\$2.88	\$3.03
Total Monthly Cost - Winter		\$55.96	\$61.20	\$68.97	\$74.80	\$78.68

Averaging Months	1BR	2BR	3BR	4BR	5BR	6BR
Summer Annual Avg 4		\$150.04	\$167.92	\$185.00	\$202.08	\$212.96
Winter Annual Avg 8		\$447.68	\$489.60	\$551.76	\$598.40	\$629.44
Total Monthly Cost (Based on Annual Average)		\$49.81	\$54.79	\$61.40	\$66.71	\$70.20

Summer: June - September (4), Winter: October - May (8)
Seasons based on climatic data.

DETROIT HOUSING COMMISSION, MI

PUBLIC HOUSING

UTILITY ALLOWANCE COST OF CONSUMPTION CALCULATIONS

NATURAL GAS - DTE Energy

UPDATE 2025

Scattered Sites MI-012,013,014 (All Gas)

Building Type: Detached House

Monthly Average Unit Consumption ccf for all bedroom types - Summer	1BR	2BR	3BR	4BR	5BR	6BR
		16	19	21	23	25
Total Monthly Charges Per Month \$15.16		\$15.16	\$15.16	\$15.16	\$15.16	\$15.16
Total Energy Charges Per CCF 0.89837		\$14.37	\$17.07	\$18.87	\$20.66	\$22.46
<i>Subtotal</i>		\$29.53	\$32.23	\$34.03	\$35.82	\$37.62
State Sales Tax % of Total 4%		\$1.18	\$1.29	\$1.36	\$1.43	\$1.50
Total Monthly Cost - Summer		\$30.71	\$33.52	\$35.39	\$37.25	\$39.12

Monthly Average Unit Consumption ccf for all bedroom types - Winter	1BR	2BR	3BR	4BR	5BR	6BR
		104	112	128	136	145
Total Monthly Charges Per Month \$15.16		\$15.16	\$15.16	\$15.16	\$15.16	\$15.16
Total Energy Charges Per CCF 0.89837		\$93.43	\$100.62	\$114.99	\$122.18	\$130.26
<i>Subtotal</i>		\$108.59	\$115.78	\$130.15	\$137.34	\$145.42
State Sales Tax % of Total 4%		\$4.34	\$4.63	\$5.21	\$5.49	\$5.82
Total Monthly Cost - Winter		\$112.93	\$120.41	\$135.36	\$142.83	\$151.24

Averaging Months	1BR	2BR	3BR	4BR	5BR	6BR
Summer Annual Avg 4		\$122.84	\$134.08	\$141.56	\$149.00	\$156.48
Winter Annual Avg 8		\$903.44	\$963.28	\$1,082.88	\$1,142.64	\$1,209.92
Total Monthly Cost (Based on Annual Average)		\$85.52	\$91.45	\$102.04	\$107.64	\$113.87

Summer: June - September (4), Winter: October - May (8)
Seasons based on climatic data.

DETROIT HOUSING COMMISSION, MI

PUBLIC HOUSING

UTILITY ALLOWANCE COST OF CONSUMPTION CALCULATIONS

ELECTRICITY - DTE Energy

UPDATE 2025

Scattered Sites MI-13,14

(Boiler H)

Building Type: Detached House

Monthly Average Unit Consumption kWh for all bedroom types - Summer	1BR	2BR	3BR	4BR	5BR	6BR
		141	164	186	208	222
Total Monthly Charges Per Month \$9.75		\$9.75	\$9.75	\$9.75	\$9.75	\$9.75
Total Energy Charges (0-527) Per KWH 0.186688		\$26.32	\$30.62	\$34.72	\$38.83	\$41.44
<i>Subtotal</i>		\$36.07	\$40.37	\$44.47	\$48.58	\$51.19
Michigan Sales Tax % of Total 4%		\$1.44	\$1.61	\$1.78	\$1.94	\$2.05
Total Monthly Cost - Summer		\$37.51	\$41.98	\$46.25	\$50.52	\$53.24

Monthly Average Unit Consumption kWh for all bedroom types - Winter	1BR	2BR	3BR	4BR	5BR	6BR
		146	169	192	215	229
Total Monthly Charges Per Month \$9.75		\$9.75	\$9.75	\$9.75	\$9.75	\$9.75
Total Energy Charges (0-527) Per KWH 0.186688		\$27.26	\$31.55	\$35.84	\$40.14	\$42.75
<i>Subtotal</i>		\$37.01	\$41.30	\$45.59	\$49.89	\$52.50
Michigan Sales Tax % of Total 4%		\$1.48	\$1.65	\$1.82	\$2.00	\$2.10
Total Monthly Cost - Winter		\$38.49	\$42.95	\$47.41	\$51.89	\$54.60

Averaging Months	1BR	2BR	3BR	4BR	5BR	6BR
Summer Annual Avg 4		\$150.04	\$167.92	\$185.00	\$202.08	\$212.96
Winter Annual Avg 8		\$307.92	\$343.60	\$379.28	\$415.12	\$436.80
Total Monthly Cost (Based on Annual Average)		\$38.16	\$42.63	\$47.02	\$51.43	\$54.15

Summer: June - September (4), Winter: October - May (8)

Seasons based on climatic data.

DETROIT HOUSING COMMISSION, MI

PUBLIC HOUSING

UTILITY ALLOWANCE COST OF CONSUMPTION CALCULATIONS

NATURAL GAS - DTE Energy

UPDATE 2025

Scattered Sites MI-13,14

(Boiler H)

Building Type: Detached House

Monthly Average Unit Consumption ccf for all bedroom types - Year Round	1BR	2BR	3BR	4BR	5BR	6BR
		16	19	21	23	25
Total Monthly Charges Per Month \$15.16		\$15.16	\$15.16	\$15.16	\$15.16	\$15.16
Total Energy Charges Per CCF 0.89837		\$14.37	\$17.07	\$18.87	\$20.66	\$22.46
<i>Subtotal</i>		\$29.53	\$32.23	\$34.03	\$35.82	\$37.62
State Sales Tax % of Total 4%		\$1.18	\$1.29	\$1.36	\$1.43	\$1.50
Total Monthly Average Cost		\$30.71	\$33.52	\$35.39	\$37.25	\$39.12

DETROIT HOUSING COMMISSION, MI

PUBLIC HOUSING

UTILITY ALLOWANCE COST OF CONSUMPTION CALCULATIONS

ELECTRICITY - DTE Energy

UPDATE 2025

Scattered Sites MI-012,13,14

(Electric Stove)

Building Type: Detached House

Monthly Average Unit Consumption kWh for all bedroom types - Summer	1BR	2BR	3BR	4BR	5BR	6BR
		172	198	224	249	266
Total Monthly Charges Per Month \$9.75		\$9.75	\$9.75	\$9.75	\$9.75	\$9.75
Total Energy Charges (0-527) Per KWH 0.186688		\$32.11	\$36.96	\$41.82	\$46.49	\$49.66
<i>Subtotal</i>		\$41.86	\$46.71	\$51.57	\$56.24	\$59.41
Michigan Sales Tax % of Total 4%		\$1.67	\$1.87	\$2.06	\$2.25	\$2.38
Total Monthly Cost - Summer		\$43.53	\$48.58	\$53.63	\$58.49	\$61.79

Monthly Average Unit Consumption kWh for all bedroom types - Winter	1BR	2BR	3BR	4BR	5BR	6BR
		268	300	342	372	401
Total Monthly Charges Per Month \$9.75		\$9.75	\$9.75	\$9.75	\$9.75	\$9.75
Total Energy Charges (0-527) Per KWH 0.186688		\$50.03	\$56.01	\$63.85	\$69.45	\$74.86
<i>Subtotal</i>		\$59.78	\$65.76	\$73.60	\$79.20	\$84.61
Michigan Sales Tax % of Total 4%		\$2.39	\$2.63	\$2.94	\$3.17	\$3.38
Total Monthly Cost - Winter		\$62.17	\$68.39	\$76.54	\$82.37	\$87.99

Averaging Months	1BR	2BR	3BR	4BR	5BR	6BR
Summer Annual Avg 4		\$174.12	\$194.32	\$214.52	\$233.96	\$247.16
Winter Annual Avg 8		\$497.36	\$547.12	\$612.32	\$658.96	\$703.92
Total Monthly Cost (Based on Annual Average)		\$55.96	\$61.79	\$68.90	\$74.41	\$79.26

Summer: June - September (4), Winter: October - May (8)

Seasons based on climatic data.

DETROIT HOUSING COMMISSION, MI

PUBLIC HOUSING

UTILITY ALLOWANCE COST OF CONSUMPTION CALCULATIONS

NATURAL GAS - DTE Energy

UPDATE 2025

Scattered Sites MI-012,13,14

(Electric Stove)

Building Type: Detached House

Monthly Average Unit Consumption ccf for all bedroom types - Summer	1BR	2BR	3BR	4BR	5BR	6BR
		14	16	18	20	22
Total Monthly Charges Per Month \$15.16		\$15.16	\$15.16	\$15.16	\$15.16	\$15.16
Total Energy Charges Per CCF 0.89837		\$12.58	\$14.37	\$16.17	\$17.97	\$19.76
<i>Subtotal</i>		\$27.74	\$29.53	\$31.33	\$33.13	\$34.92
State Sales Tax % of Total 4%		\$1.11	\$1.18	\$1.25	\$1.33	\$1.40
Total Monthly Cost - Summer		\$28.85	\$30.71	\$32.58	\$34.46	\$36.32

Monthly Average Unit Consumption ccf for all bedroom types - Winter	1BR	2BR	3BR	4BR	5BR	6BR
		103	110	127	133	146
Total Monthly Charges Per Month \$15.16		\$15.16	\$15.16	\$15.16	\$15.16	\$15.16
Total Energy Charges Per CCF 0.89837		\$92.53	\$98.82	\$114.09	\$119.48	\$131.16
<i>Subtotal</i>		\$107.69	\$113.98	\$129.25	\$134.64	\$146.32
State Sales Tax % of Total 4%		\$4.31	\$4.56	\$5.17	\$5.39	\$5.85
Total Monthly Cost - Winter		\$112.00	\$118.54	\$134.42	\$140.03	\$152.17

Averaging Months	1BR	2BR	3BR	4BR	5BR	6BR
Summer Annual Avg 4		\$115.40	\$122.84	\$130.32	\$137.84	\$145.28
Winter Annual Avg 8		\$896.00	\$948.32	\$1,075.36	\$1,120.24	\$1,217.36
Total Monthly Cost (Based on Annual Average)		\$84.28	\$89.26	\$100.47	\$104.84	\$113.55

Summer: June - September (4), Winter: October - May (8)

Seasons based on climatic data.

DETROIT HOUSING COMMISSION, MI

PUBLIC HOUSING

UTILITY ALLOWANCE COST OF CONSUMPTION CALCULATIONS

ELECTRICITY - DTE Energy

UPDATE 2025

Smith Homes MI-016

Building Type: Row House/Townhouse

Monthly Average Unit Consumption kWh for all bedroom types - Summer	0BR	1BR	2BR	3BR	4BR	5BR
			164	190	205	
Total Monthly Charges Per Month \$9.75			\$9.75	\$9.75	\$9.75	
Total Energy Charges (0-527) Per KWH 0.186688			\$30.62	\$35.47	\$38.27	
<i>Subtotal</i>			\$40.37	\$45.22	\$48.02	
Michigan Sales Tax % of Total 4%			\$1.61	\$1.81	\$1.92	
Total Monthly Cost - Summer			\$41.98	\$47.03	\$49.94	

Monthly Average Unit Consumption kWh for all bedroom types - Winter	0BR	1BR	2BR	3BR	4BR	5BR
			209	240	258	
Total Monthly Charges Per Month \$9.75			\$9.75	\$9.75	\$9.75	
Total Energy Charges (0-527) Per KWH 0.186688			\$39.02	\$44.81	\$48.17	
<i>Subtotal</i>			\$48.77	\$54.56	\$57.92	
Michigan Sales Tax % of Total 4%			\$1.95	\$2.18	\$2.32	
Total Monthly Cost - Winter			\$50.72	\$56.74	\$60.24	

Averaging Months	0BR	1BR	2BR	3BR	4BR	5BR
Summer Annual Avg 4			\$167.92	\$188.12	\$199.76	
Winter Annual Avg 8			\$405.76	\$453.92	\$481.92	
Total Monthly Cost (Based on Annual Average)			\$47.81	\$53.50	\$56.81	

Summer: June - September (4), Winter: October - May (8)
Seasons based on climatic data.

DETROIT HOUSING COMMISSION, MI

PUBLIC HOUSING

UTILITY ALLOWANCE COST OF CONSUMPTION CALCULATIONS

NATURAL GAS - DTE Energy

UPDATE 2025

Smith Homes MI-016

Building Type: Row House/Townhouse

	0BR	1BR	2BR	3BR	4BR	5BR
Monthly Average Unit Consumption ccf for all bedroom types - Summer			13	15	18	
Total Monthly Charges Per Month \$15.16			\$15.16	\$15.16	\$15.16	
Total Energy Charges Per CCF 0.89837			\$11.68	\$13.48	\$16.17	
<i>Subtotal</i>			\$26.84	\$28.64	\$31.33	
State Sales Tax % of Total 4%			\$1.07	\$1.15	\$1.25	
Total Monthly Cost - Summer			\$27.91	\$29.79	\$32.58	

	0BR	1BR	2BR	3BR	4BR	5BR
Monthly Average Unit Consumption ccf for all bedroom types - Winter			54	61	67	
Total Monthly Charges Per Month \$15.16			\$15.16	\$15.16	\$15.16	
Total Energy Charges Per CCF 0.89837			\$48.51	\$54.80	\$60.19	
<i>Subtotal</i>			\$63.67	\$69.96	\$75.35	
State Sales Tax % of Total 4%			\$2.55	\$2.80	\$3.01	
Total Monthly Cost - Winter			\$66.22	\$72.76	\$78.36	

Averaging Months	0BR	1BR	2BR	3BR	4BR	5BR
Summer Annual Avg 4			\$111.64	\$119.16	\$130.32	
Winter Annual Avg 8			\$529.76	\$582.08	\$626.88	
Total Monthly Cost (Based on Annual Average)			\$53.45	\$58.44	\$63.10	

Summer: June - September (4), Winter: October - May (8)
Seasons based on climatic data.

DETROIT HOUSING COMMISSION, MI

PUBLIC HOUSING

UTILITY ALLOWANCE COST OF CONSUMPTION CALCULATIONS

ELECTRICITY - DTE Energy

UPDATE 2025

Algonquin MI-028

Building Type: Apartment/Multi-Family

Monthly Average Unit Consumption kWh for all bedroom types - Summer	0BR	1BR	2BR	3BR	4BR	5BR
		142	164			
Total Monthly Charges Per Month \$9.75		\$9.75	\$9.75			
Total Energy Charges (0-527) Per KWH 0.186688		\$26.51	\$30.62			
<i>Subtotal</i>		\$36.26	\$40.37			
Michigan Sales Tax % of Total 4%		\$1.45	\$1.61			
Total Monthly Cost - Summer		\$37.71	\$41.98			

Monthly Average Unit Consumption kWh for all bedroom types - Winter	0BR	1BR	2BR	3BR	4BR	5BR
		185	219			
Total Monthly Charges Per Month \$9.75		\$9.75	\$9.75			
Total Energy Charges (0-527) Per KWH 0.186688		\$34.54	\$40.88			
<i>Subtotal</i>		\$44.29	\$50.63			
Michigan Sales Tax % of Total 4%		\$1.77	\$2.03			
Total Monthly Cost - Winter		\$46.06	\$52.66			

Averaging Months	0BR	1BR	2BR	3BR	4BR	5BR
Summer Annual Avg 4		\$150.84	\$167.92			
Winter Annual Avg 8		\$368.48	\$421.28			
Total Monthly Cost (Based on Annual Average)		\$43.28	\$49.10			

Summer: June - September (4), Winter: October - May (8)

Seasons based on climatic data.

DETROIT HOUSING COMMISSION, MI

PUBLIC HOUSING

UTILITY ALLOWANCE COST OF CONSUMPTION CALCULATIONS

NATURAL GAS - DTE Energy

UPDATE 2025

Algonquin MI-028

Building Type: Apartment/Multi-Family

Monthly Average Unit Consumption ccf for all bedroom types - Summer	0BR	1BR	2BR	3BR	4BR	5BR
		11	13			
Total Monthly Charges Per Month \$15.16		\$15.16	\$15.16			
Total Energy Charges Per CCF 0.89837		\$9.88	\$11.68			
<i>Subtotal</i>		\$25.04	\$26.84			
State Sales Tax % of Total 4%		\$1.00	\$1.07			
Total Monthly Cost - Summer		\$26.04	\$27.91			

Monthly Average Unit Consumption ccf for all bedroom types - Winter	0BR	1BR	2BR	3BR	4BR	5BR
		50	64			
Total Monthly Charges Per Month \$15.16		\$15.16	\$15.16			
Total Energy Charges Per CCF 0.89837		\$44.92	\$57.50			
<i>Subtotal</i>		\$60.08	\$72.66			
State Sales Tax % of Total 4%		\$2.40	\$2.91			
Total Monthly Cost - Winter		\$62.48	\$75.57			

Averaging Months	0BR	1BR	2BR	3BR	4BR	5BR
Summer Annual Avg 4		\$104.16	\$111.64			
Winter Annual Avg 8		\$499.84	\$604.56			
Total Monthly Cost (Based on Annual Average)		\$50.33	\$59.68			

Summer: June - September (4), Winter: October - May (8)

Seasons based on climatic data.

DETROIT HOUSING COMMISSION, MI

PUBLIC HOUSING

UTILITY ALLOWANCE COST OF CONSUMPTION CALCULATIONS

ELECTRICITY - DTE Energy

UPDATE 2025

Greenbrooke Manor MI-029

(Boiler Heat & WH)

Building Type: Apartment/Multi-Family

Monthly Average Unit Consumption kWh for all bedroom types - Summer	0BR	1BR	2BR	3BR	4BR	5BR
		142	164			
Total Monthly Charges Per Month \$9.75		\$9.75	\$9.75			
Total Energy Charges (0-527) Per KWH 0.186688		\$26.51	\$30.62			
<i>Subtotal</i>		\$36.26	\$40.37			
Michigan Sales Tax % of Total 4%		\$1.45	\$1.61			
Total Monthly Cost - Summer		\$37.71	\$41.98			

Monthly Average Unit Consumption kWh for all bedroom types - Winter	0BR	1BR	2BR	3BR	4BR	5BR
		144	167			
Total Monthly Charges Per Month \$9.75		\$9.75	\$9.75			
Total Energy Charges (0-527) Per KWH 0.186688		\$26.88	\$31.18			
<i>Subtotal</i>		\$36.63	\$40.93			
Michigan Sales Tax % of Total 4%		\$1.47	\$1.64			
Total Monthly Cost - Winter		\$38.10	\$42.57			

Averaging Months	0BR	1BR	2BR	3BR	4BR	5BR
Summer Annual Avg 4		\$150.84	\$167.92			
Winter Annual Avg 8		\$304.80	\$340.56			
Total Monthly Cost (Based on Annual Average)		\$37.97	\$42.37			

Summer: June - September (4), Winter: October - May (8)

Seasons based on climatic data.

SUPPORT DOCUMENTATION

UTILITY PROVIDER RATES AND CHARGES

DETROIT HOUSING COMMISSION, MI

PUBLIC HOUSING

Utility Providers Residential Rates and Charges As of November 2025

ELECTRICITY

UPDATE 2025

Source: Detroit Edison (DTE)

800-477-4747

dteenergy.com*

Year Round		(D1)	
Service Charge	Per Month	\$8.50	
LIEAF Factor	Per Month	\$1.25	
Total Monthly Charges	Per Month	\$9.75	
		Tiers*	0 - 527 over 527
Capacity Energy Charge*	Per KWH	0.0311	0.04484
Non-Capacity Energy Charge	Per KWH	0.05655	0.05655
Distribution Charge	Per KWH	0.08907	0.08907
Total Power Supply Surcharge	Per KWH	0.004618	0.004618
Total Delivery Surcharge	Per KWH	0.00535	0.00535
Total Energy Charges	Per KWH	0.186688	0.200428
Michigan Sales Tax	% of Total	4%	

NATURAL GAS

Source: Detroit Edison (DTE)

800-477-4747

dteenergy.com*

Year Round		(A)	
Monthly Customer Charge	Per Month	\$14.50	
IRM Surcharge	Per Month	\$0.66	
Total Monthly Charges	Per Month	\$15.16	
		Tiers	All
Distribution Charge	Per CCF	0.44732	
GCR Factor	Per CCF	0.387	
Energy Waste Reduction Surcharge	Per CCF	0.02805	
Reservation Charge	Per CCF	0.036	
Total Energy Charges	Per CCF	0.89837	
Michigan Sales Tax	% of Total	4%	

UTILITY PROVIDER DOCUMENTATION



Sales and Use Tax FAQs

Sales & Use Tax - List of Topics	
> Sales Tax License	> Filing Requirements
> General Sales & Use	> Sales & Use Tax Exemptions
> Sales Tax License Verification Search	

Sales Tax

Individuals or businesses that sell tangible personal property to the final consumer are required to remit a 6% sales tax on their taxable retail sales to the State of Michigan. **Sales of electricity, natural or artificial gas and home heating fuels for residential use are taxed at the 4% rate.** Michigan does not allow city or local units to impose sales or use taxes.

Use Tax

The use tax is a companion tax to the sales tax. Use tax of 6% must be paid on the total price (including shipping and handling charges) of all taxable items brought into Michigan or purchases by mail from out-of-state retailers. Credit is given for tax paid to another state. Use tax is also applied to certain services such as telecommunications and hotel/motel accommodations.

RATE SCHEDULE NO. D1**RESIDENTIAL SERVICE RATE – NON-TRANSMITTING METER**

AVAILABILITY OF SERVICE: Available to customers desiring service for all residential purposes through one meter to a single or double occupancy dwelling unit including farm dwellings. A dwelling unit consists of a kitchen, bathroom, and heating facilities connected on a permanent basis. Service to appurtenant buildings may be taken on the same meter.

This rate is not available for common areas of separately metered apartments and condominium complexes, nor to a separate meter which serves a garage, boat well or other non-dwelling applications. **This rate is only available for residential customers with a non-transmitting meter.**

HOURS OF SERVICE: 24 hours.

CURRENT, PHASE AND VOLTAGE: Alternating current, single-phase, nominally at 120/240 volts, three-wire. Where available, and the demand justifies, three-phase four-wire, Y connected service may be had at 208Y/120 volts nominally.

In certain city districts, alternating current is supplied from a Y connected secondary network from which 120/208 volts, three-wire service may be taken.

RATE PER DAY:**Full Service Customers:****Power Supply Charges:**

Capacity Energy Charges: **3.110¢** per kWh for the first 17 kWh per day *31= (0-527)
4.484¢ per kWh for excess over 17 kWh per day *31= (over 527)

Non-Capacity Energy Charge: **5.655¢** per kWh for all kWh

Delivery Charges:

Service Charge: \$8.50 per month
Distribution Charge: **8.907¢** per kWh for all kWh

Surcharges and Credits: As approved by the Commission. See Sections C8.5 and C9.8. Applies only to actual consumption and not to the minimum charge.

Retail Access Service Customers:

Power Supply Charges for Retail Access Customers taking Utility Capacity service for DTE:

Capacity Energy Charges: **3.110¢** per kWh for the first 17 kWh per day
4.484¢ per kWh for excess over 17 kWh

Delivery Charges:

Service Charge: \$8.50 per month
Distribution Charge: **8.907¢** per kWh for all kWh

(Continued on Sheet No. D-2.00)

Michigan Public Service Commission
March 11, 2025
Filed by: DW

(Continued from Sheet No. C-64.03)

C8 SURCHARGES AND CREDITS APPLICABLE TO POWER SUPPLY SERVICE (Contd.)

C8.5 SURCHARGES AND CREDITS APPLICABLE TO POWER SUPPLY SERVICE: Summary of surcharges and credits including PSCR, pursuant to [sub-rules C8.1](#), C8.4 of this rule. (Cents per kilowatthour or percent of base bill unless otherwise noted).

	PSCR (¢/kWh)	Securitization Charge River Rouge (¢/kWh)	Securitization Charge TCSC (¢/kWh)	Total Power Supply Surcharges (excludes REPS) (¢/kWh)
Residential				
D1 Non Transmitting Meter	0.250	<i>0.0243</i>	0.1875	<i>0.4618</i>
D1.1 Int. Space Conditioning	0.250	<i>0.0190</i>	0.1461	<i>0.4151</i>
D1.2 Enhanced TOU	0.250	<i>0.0167</i>	0.1261	<i>0.3928</i>
D1.6 Special Low Income Pilot	0.250	<i>0.0243</i>	0.1875	<i>0.4618</i>
D1.7 Geothermal Time-of-Day	0.250	<i>0.0143</i>	0.1100	<i>0.3743</i>
D1.8 Dynamic Peak Pricing	0.250	<i>0.0204</i>	0.1594	<i>0.4298</i>
D1.9 Electric Vehicle	0.250	<i>0.0170</i>	0.1363	<i>0.4033</i>
D1.11 Standard TOU	0.250	<i>0.0242</i>	0.1862	<i>0.4604</i>
D1.13 Overnight Savers	0.250	<i>0.0242</i>	0.1862	<i>0.4604</i>
D2 Space Heating	0.250	<i>0.0151</i>	0.1156	<i>0.3807</i>
D5 Water Heating	0.250	<i>0.0129</i>	0.0992	<i>0.3621</i>
D9 Outdoor Lighting	0.250	<i>0.0049</i>	0.0374	<i>0.2923</i>
Commercial				
D1.1 Int. Space Conditioning	0.250	<i>0.0169</i>	0.1302	<i>0.3971</i>
D1.7 Geothermal Time-of-Day	0.250	<i>0.0113</i>	0.0870	<i>0.3483</i>
D1.8 Dynamic Peak Pricing	0.250	<i>0.0192</i>	0.1426	<i>0.4118</i>
D1.9 Electric Vehicle	0.250	<i>0.0201</i>	0.1655	<i>0.4356</i>
D3 General Service	0.250	<i>0.0197</i>	0.1521	<i>0.4218</i>
D3.1 Unmetered	0.250	<i>0.0168</i>	0.1277	<i>0.3945</i>
D3.2 Educ. Inst.	0.250	<i>0.0187</i>	0.1438	<i>0.4125</i>
D3.3 Interruptible	0.250	<i>0.0165</i>	0.1270	<i>0.3935</i>
D3.5 Charging	0.250	<i>0.0197</i>	0.1521	<i>0.4218</i>
D3.11 TOU General Service	0.250	<i>0.0197</i>	0.1521	<i>0.4218</i>
D4 Large General Service	0.250	<i>0.0175</i>	0.1347	<i>0.4022</i>
D5 Water Heating	0.250	<i>0.0116</i>	0.0895	<i>0.3511</i>
D9 Outdoor Lighting	0.250	<i>0.0049</i>	0.0374	<i>0.2923</i>
R3 Standby (Secondary)	0.250	<i>0.0169</i>	0.1043	<i>0.3712</i>
R7 Greenhouse Lighting	0.250	<i>0.0113</i>	0.0869	<i>0.3482</i>
R8 Space Conditioning	0.250	<i>0.0171</i>	0.1323	<i>0.3994</i>
Industrial				
D6.2 Educ. Inst.	0.250	<i>0.0189</i>	0.1420	<i>0.4109</i>
D8 Interruptible Primary	0.250	<i>0.0104</i>	0.0799	<i>0.3403</i>
D10 Schools	0.250	<i>0.0175</i>	0.1360	<i>0.4035</i>
D11 Primary Supply	0.250	<i>0.0140</i>	0.1081	<i>0.3721</i>
D12 Large Low Peak	0.250	<i>0.0140</i>	0.1081	<i>0.3721</i>
D13 XL	NA	<i>0.0109</i>	0.0865	<i>0.0974</i>
D14 TOU Primary Supply	0.250	<i>0.0140</i>	0.1081	<i>0.3721</i>
R1.1 Metal Melting	0.250	<i>0.0091</i>	0.0701	<i>0.3292</i>
R1.2 Electric Process Heating	0.250	<i>0.0090</i>	0.0697	<i>0.3287</i>
R3 Standby (Primary)	0.250	<i>0.0169</i>	0.1043	<i>0.3712</i>
R10 Interruptible Supply	NA	0.0000	0.0000	0.0000
Governmental				
E1 Streetlighting	0.250	0.0049	0.0358	0.2907
E1.1 Energy Only	0.250	<i>0.0136</i>	0.1048	<i>0.3684</i>
E2 Traffic Lights	0.250	<i>0.0131</i>	0.1005	<i>0.3636</i>

(Continued on Sheet No. C-66.00)



(Continued from Sheet No. C-69.00)

C9 SURCHARGES AND CREDITS APPLICABLE TO DELIVERY SERVICE: (Contd.)

SURCHARGES AND CREDITS APPLICABLE TO DELIVERY SERVICE: (Contd.)

C9.8 Summary of Surcharges and Credits: Summary of surcharges and credits, pursuant to sub-rules C9.1, C9.2, C9.6, C9.7.9, and C.9.7.14. Cents per kilowatthour or percent of base bill, unless otherwise noted.

	<u>NS</u> ¢/kWh	<u>EWRS</u> ¢/kWh	<u>Base</u> <u>Securitization</u> ¢/kWh	<u>IRM</u> ¢/kWh	<u>Total</u> <u>Delivery</u> <u>Surcharges</u> ¢/kWh	<u>LIEAF Factor</u> <u>\$/Billing Meter</u>
Residential						
D1 Non Transmitting Meter	0.0911	0.2699	0.0799	0.0941	0.5350	<i>\$1.25</i>
D1.1 Int. Space Conditioning	0.0911	0.2699	0.1629	0.0941	0.6180	N/A
D1.2 Enhanced TOU	0.0911	0.2699	0.1626	0.0941	0.6177	<i>\$1.25</i>
D1.6 Special Low Income Pilot	0.0911	0.2699	0.0799	0.0941	0.5350	<i>\$1.25</i>
D1.7 Geothermal Time-of-Day	0.0911	0.2699	0.1533	0.0941	0.6084	N/A
D1.8 Dynamic Peak Pricing	0.0911	0.2699	0.1720	0.0941	0.6271	<i>\$1.25</i>
D1.9 Electric Vehicle	0.0911	0.2699	0.1653	0.0941	0.6204	N/A
D1.11 Standard TOU	0.0911	0.2699	0.1749	0.0941	0.6300	<i>\$1.25</i>
D1.13 Overnight Savers	0.0911	0.2699	0.1749	0.0941	0.6300	<i>\$1.25</i>
D2 Space Heating	0.0911	0.2699	0.1687	0.0941	0.6238	<i>\$1.25</i>
D5 Wtr Htg	0.0911	0.2699	0.1677	0.0941	0.6228	N/A
D9 Outdoor Lighting	0.0911	0.2699	0.1801	0.5352	1.0763	N/A
Commercial						
D1.1 Int. Space Conditioning	0.0911	See C9.6	0.1285	0.0595		<i>\$1.25</i>
D1.7 Geothermal Time –of- day	0.0911	See C9.6	0.1071	0.0595		<i>\$1.25</i>
D1.8 Dynamic Peak Pricing	0.0911	See C9.6	0.1155	0.0595		<i>\$1.25</i>
D1.9 Electric Vehicle	0.0911	See C9.6	0.1866	0.0595		<i>\$1.25</i>
D3 General Service	0.0911	See C9.6	0.1145	0.0595		<i>\$1.25</i>
D3.1 Unmetered	0.0911	See C9.6	0.1079	0.0595		N/A
D3.2 Educ. Inst.	0.0911	See C9.6	0.1060	0.0595		<i>\$1.25</i>
D3.3 Interruptible	0.0911	See C9.6	0.1053	0.0595		<i>\$1.25</i>
D3.5 Charging	0.0911	See C9.6	0.1145	0.0595		<i>\$1.25</i>
D3.11 TOU General Service	0.0911	See C9.6	0.1145	0.0595		<i>\$1.25</i>
D4 Large General Service	0.0911	See C9.6	0.1188	See C9.7.11		<i>\$1.25</i>
D5 Wtr Htg	0.0911	See C9.6	0.1184	0.0595		<i>\$1.25</i>
D9 Outdoor Lighting	0.0911	See C9.6	0.1801	0.2988		N/A
R3 Standby Secondary	0.0911	See C9.6	0.0225	0.0595		<i>\$1.25</i>
R7 Greenhouse Lighting	0.0911	See C9.6	0.1053	0.0595		<i>\$1.25</i>
R8 Space Conditioning	0.0911	See C9.6	0.1122	0.0595		<i>\$1.25</i>
Industrial						
D6.2 Educ. Inst.	0.0911	See C9.6	0.0130	See C9.7.11		<i>\$1.25</i>
D8 Interruptible Primary	0.0911	See C9.6	0.0095	See C9.7.11		<i>\$1.25</i>
D10 Schools	0.0911	See C9.6	0.0198	See C9.7.11		<i>\$1.25</i>
D11 Primary Supply	0.0911	See C9.6	0.0083	See C9.7.11		<i>\$1.25</i>
D12 Large Low Peak	0.0911	See C9.6	0.0083	See C9.7.11		<i>\$1.25</i>
D13 XL	N/A	See C9.6	0.0019	See C9.7.11		<i>\$1.25</i>
D14 TOU Primary Supply	0.0911	See C9.6	0.0083	See C9.7.11		<i>\$1.25</i>
R1.1 Metal Melting	0.0911	See C9.6	0.0065	See C9.7.11		<i>\$1.25</i>
R1.2 Electric Process Heating	0.0911	See C9.6	0.0177	See C9.7.11		<i>\$1.25</i>
R3 Standby Primary	0.0911	See C9.6	0.0225	See C9.7.11		<i>\$1.25</i>
R10 Interruptible Supply	0.0911	See C9.6	0.0032	See C9.7.11		<i>\$1.25</i>

(Continued on Sheet No. C-71.00)



RATES EFFECTIVE FOR GAS SERVICE



This rate card is provided as a convenient reference. The MPSC approved Rate Book is the authoritative source for all rate information.

Issued By: Regulatory Affairs: Gas Strategy

November 2025

					COMMODITY CHARGE PER 100 CUBIC FEET (Ccf) 1/							
Rate Schedule No.	Rate Schedules	Monthly Customer Charge 2/	Monthly IRM Surcharge 3/	Held for Future Use 4/	Distribution Charge (Non-Gas) 2/	GCR Factor 5/	Energy Waste Reduction Surcharge 6/	Reservation Charge 7/	Held for Future Use 8/	Total Rate Applicable to November 2025 Cycle		
A	Residential Rate /11											
	GCR	\$ 14.50	\$ 0.66	\$ -	\$ 0.44732	\$ 0.38700	\$ 0.02805	\$ 0.03600	\$ -	\$ 0.89837		
	GCC	\$ 14.50	\$ 0.66	\$ -	\$ 0.44732	\$ -	\$ 0.02805	\$ 0.02400	\$ -	\$ 0.49937		
2A	Multi-Family Dwelling Service Rate											
	Meter Class I	\$ 14.50	\$ 4.11	\$ -	\$ 0.44732	\$ 0.38700	\$ 0.05289	\$ 0.03600	\$ -	\$ 0.92321		
	Meter Class II	\$ 50.00	\$ 4.11	\$ -	\$ 0.44732	\$ 0.38700	\$ 0.05289	\$ 0.03600	\$ -	\$ 0.92321		
GS-1	Non-Residential General Service 12/	\$ 50.00	\$ 3.06	\$ -	\$ 0.40481	\$ 0.38700	\$ 0.05289	\$ 0.03600	\$ -	\$ 0.88070		
GS-2	Large Volume Rate 12/											
	< 100,000 Mcf	\$ 925.00	\$ 3.06	\$ -	\$ 0.32981	\$ 0.38700	\$ 0.05289	\$ 0.03600	\$ -	\$ 0.80570		
	> 100,000 Mcf	\$ 925.00	\$ 3.06	\$ -	\$ 0.32981	\$ 0.38700	\$ 0.00404	\$ 0.03600	\$ -	\$ 0.75685		
S	School Rate 12/	\$ 270.00	\$ 46.03	\$ -	\$ 0.26026	\$ 0.38700	\$ 0.05289	\$ 0.03600	\$ -	\$ 0.73615		
ST	Small Volume Transportation 13/ thru 18/											
	Cost Based	\$ 2,780.00	\$ 151.07	\$ -	\$ 0.13986	\$ -	\$ 0.00404	\$ -	\$ -	\$ 0.14390		
	Optional - Minimum	\$ 2,780.00	\$ 151.07	\$ -	\$ 0.02300	\$ -	\$ 0.00404	\$ -	\$ -	\$ 0.02704		
	Optional - Maximum	\$ 2,780.00	\$ 151.07	\$ -	\$ 0.25672	\$ -	\$ 0.00404	\$ -	\$ -	\$ 0.26076		
LT	Large Volume Transportation 13/ thru 18/											
	Cost Based	\$ 4,980.00	\$ 733.48	\$ -	\$ 0.10647	\$ -	\$ 0.00404	\$ -	\$ -	\$ 0.11051		
	Optional - Minimum	\$ 4,980.00	\$ 733.48	\$ -	\$ 0.02300	\$ -	\$ 0.00404	\$ -	\$ -	\$ 0.02704		
	Optional - Maximum	\$ 4,980.00	\$ 733.48	\$ -	\$ 0.18994	\$ -	\$ 0.00404	\$ -	\$ -	\$ 0.19398		
XLT	Extra Large Volume Transportation 13/ thru 18/											
	Cost Based	\$ 14,460.00	\$ 4,258.38	\$ -	\$ 0.08418	\$ -	\$ 0.00404	\$ -	\$ -	\$ 0.08822		
	Optional - Minimum	\$ 14,460.00	\$ 4,258.38	\$ -	\$ 0.01800	\$ -	\$ 0.00404	\$ -	\$ -	\$ 0.02204		
	Optional - Maximum	\$ 14,460.00	\$ 4,258.38	\$ -	\$ 0.15036	\$ -	\$ 0.00404	\$ -	\$ -	\$ 0.15440		
XXLT	Double Extra Large Volume Transportation 13/ thru 18/											
	Cost Based	\$ 178,055.00	\$ 2,379.09	\$ -	\$ 0.02873	\$ -	\$ 0.00404	\$ -	\$ -	\$ 0.03277		
	Optional - Minimum	\$ 178,055.00	\$ 2,379.09	\$ -	\$ 0.00500	\$ -	\$ 0.00404	\$ -	\$ -	\$ 0.00904		
	Optional - Maximum	\$ 178,055.00	\$ 2,379.09	\$ -	\$ 0.15036	\$ -	\$ 0.00404	\$ -	\$ -	\$ 0.15440		

COMPARISON OF PREVIOUS AND CURRENT UTILITY RATES

Comparison of Previous and Current Utility Rates

PUBLIC HOUSING

DETROIT HOUSING COMMISSION, MI

Note: Rates in bold text indicate changes and gray print indicates removal.

(We use the absolute value of the changes which gives us the percentage of change. This is the best way to determine a 10% change in utility rates and charges.)

ELECTRIC

UPDATE 2025

<i>Detroit Edison (DTE) (D1)</i> Description	Measure	Rates		Difference	
		9/2024	11/2025	Amount	Percent
Total Monthly Charges	per month	\$9.37	\$9.75	\$0.38	5%
Tier-1 Total Energy Chgs (0-527)	per kwh	0.189533	0.186688	-0.002845	-2%
Tier-2 Total Energy Chgs (over 527)	per kwh	0.194513	0.200428	0.005915	4%
Michigan Sales Tax	% of total	4%	4%	0.00	0%

NATURAL GAS

<i>Detroit Edison (DTE) (A)</i> Description	Measure	Rates		Difference	
		9/2024	11/2025	Amount	Percent
Total Monthly Charges	per month	\$15.69	\$15.16	-\$0.53	-4%
Total Energy Charges	per ccf	0.74543	0.89837	0.15294	21%
Michigan Sales Tax	% of total	4%	4%	0.00	0%

DEVELOPMENT CHARACTERISTICS

HOUSING AGENCY _ Detroit Housing Commission

DEVELOPMENT CHARACTERISTICS CHART For Low-Rent Public Housing

Development		Year Built	Building Type**	Total # Units	# of Units by Bedroom Size						Resident-Paid Utilities (See* below)					A/C?	
Name	HA Code				0	1	2	3	4	5+	Electric	N Gas	Water	Sewer	Trash	Central	Window
Forest Park	3	1972	APT	97	0	96	1	0	0	0	M	M	M	M	M	X	
Diggs Homes	3	1972	ROW/TH	104	0	0	0	22	52	30	I	I	M	M	M		
Riverbend	11	1975	APT	95	0	90	5	0	0	0	M	M	M	M	M	X	
Sheridan I & II	15	1982	APT	409	0	407	2	0	0	0	M	M	M	M	M	X	
Smith Homes	16	1943	ROW/TH	156	0	0	87	41	28	0	I	I	M	M	M		
Warren West	18	1971	APT	143	0	116	27	0	0	0	M	M	M	M	M	X	
Algonquin	28	1912	APT	12	0	0	12	0	0	0	I	I	M	M	M		
Greenbrooke Manor	29	1964	APT	32	0	28	4	0	0	0	I	I	M	M	M	X	
Scattered Sites	12, 13, 14	various	DH	373	0	13	130	301	36	22	I	I	M	M	M		
Brewster Homes	1	1994	RH	250	0	0	110	140	0	0	I	I	M	M	M	X	
Harriet Tubman Apts	7	1972	Apartment	200	0	199	1	0	0	0	M	M	M	M	M		X
Sojourner Truth Homes	2	1940	Townhome	186	0	0	120	52	14	0	I	I	M	M	M		
State Fair Apts.	17	1973	High Rise	200	0	198	2	0	0	0	M	M	M	M	M		X
Woodbridge Senior Village	19	1953	Hi-Rise	296	0	290	16	0	0	0	M	M	M	M	M	X	
Woodbridge Senior Enhanced	72	2005	Apartment	50	0	50	0	0	0	0	I	M	M	M	M	X	X

* Please indicate one of the following under each utility:

M (Master-Metered): The development has one master-meter per building and the Agency pays the utility bills.

I (Resident-Paid): There are individual meters for each unit and the resident pays the utility directly to the utility

C (Check-Metered by agency): There are individual meters for each unit but the Agency pays the utility company and

**** Building Types: Walk-Up/Apartment; Row House/Townhouse; Semi-Detached/Duplex; Detached House**

CUSTOMIZATION FOR BASE EKOTROPE MODELS

Housing Agency:		Detroit Housing Commission	
Customization & Energy Efficiency Measures for Base Ekotrope Models Please check appropriate box(s) for each development/property and note if different for other bedroom sizes in property. NOTE: Use separate form if criteria is different for BR sizes or more than one building type per property. Blue text represents energy efficiency measures/equipment.			
Development Name & No.:		MI001000001 Brewster Douglas	
Building: Year Built: <u>1994</u>		Structure Type: ☐ Apt ☐ High-Rise ☒ RH ☐ SD ☐ DH	
Legend: Apt=Apartment (low-rise/mid-rise), RH=Row House/Townhouse, SD=Semi-Detached/Duplex, DH=Detached House			
Resident-Paid Utilities:		☒ Electric ☒ Natural Gas ☐ Water ☐ Sewer ☐ Trash	
Agency-Paid Check-Metered Utilities:		☐ Electric ☐ Natural Gas ☒ Water OR ☐ All Utilities are Master Metered (Paid by the Agency) (Stop here if ALL utilities are Master Metered)	
Bedroom Sizes: ☐ 0BR/EFF () ☐ 1BR () ☒ 2BR (110) ☒ 3BR (140) ☐ 4BR () ☐ 5BR () ☐ 6BR ()			
1	Foundation Type:	☐ Concrete Slab ☐ Pier-Beam (Crawl Space)	☒ Basement
2	Window Type:	☐ Single Pane ☒ Double Pane Low-E ☐ Double Pane/Vinyl	
U-Factor: _____ SHGC: _____ (Solar Heat Gain Coefficient)			
3	# of Stories in Unit:	One or ☒ Two	☐ Building has multiple stories
4	Exterior Veneer/Cladding: ☒ Siding ☒ Brick ☐ Stucco ☐ Other: _____		
5a	HVAC Heating Fuel: ☐ Electric ☒ Natural Gas ☐ Other: _____		
5b	Is Heating Individually Metered? ☒ Yes ☐ No		
5c	Heating Type: ☐ Electric Baseboard ☒ Forced Air Furnace/Wall unit (80 AFUE) ☐ Central Boiler (radiant)		
	Energy Efficiencies Models ☐ Heat Pump ☒ Forced Air Furnace w/ducts ___electric or ☒ natural gas Heat Pump Efficiency Rating: SEER: _____ HSPF: _____ ☐ Solar Panels Installed ☒ (High Efficiency) Gas Furnace (90 AFUE) (additional information is needed)		
5d	Heating Equipment Location: ☒ Conditioned Space ☐ Unconditioned Space (attic/garage)		
5e	Air Conditioning: ☒ Yes ☐ No Type: ☐ Window Unit ☒ Central Tonage: _____		
6	Air Ducts: ☒ Yes ☐ No If Yes, Location: ☒ Conditioned Space ☐ Unconditioned Space (attic)		
7a	Water Heater: ☐ Electric (30 gal) ☐ Natural Gas (30 gal) ☐ Oil 40-50 gallon ☐ Elec Tank .90 EF ☒ Gas Tank .58 EF ☐ Solar Water Heating (additional information is needed) ☐ Elec Tank .95 EF ☐ Gas Tank .62 EF ☐ Elec Tankless ☐ Gas Tankless .80 EF or higher		
7b	Water Heater Type: ☒ Individual units ☐ Central Boiler		
7c	Water Htr Location: ☒ Conditioned Space ☐ Unconditioned Space (attic/garage)		
8	Stove/Range: ☐ Electric ☒ Natural Gas		
9	Energy Efficiencies: Insulation: ☐ Ceiling (R-20)(min.) ☐ Ceiling (R-38) ☐ Wall (R-13) ☒ Ceiling (R-30) ☐ Ceiling (R-49) ☐ Wall (R-19) Low Flow Water: ☒ Shower, Faucets, Toilets Lighting: ☐ 100% CFL ☒ 100% LED		
10	☐ GeoThermal (HVAC and DHW) COP Rating: _____		
Notes/Comments:			

Housing Agency:		Detroit Housing Commission	
Customization & Energy Efficiency Measures for Base Ekotrope Models			
Please check appropriate box(s) for each development/property and note if different for other bedroom sizes in property. NOTE: Use separate form if criteria is different for BR sizes or more than one building type per property. Blue text represents energy efficiency measures/equipment.			
Development Name & No.:		MI001000002 Sojourner Truth	
Building: Year Built: <u>1940</u>		Structure Type: ☐ Apt ☐ High-Rise ☒ RH ☐ SD ☐ DH	
Legend: Apt=Apartment (low-rise/mid-rise), RH=Row House/Townhouse, SD=Semi-Detached/Duplex, DH=Detached House			
Resident-Paid Utilities:		☒ Electric ☒ Natural Gas ☐ Water ☐ Sewer ☐ Trash	
Agency-Paid Check-Metered Utilities:		☐ Electric ☐ Natural Gas ☒ Water	
OR ☐ All Utilities are Master Metered (Paid by the Agency) (Stop here if ALL utilities are Master Metered)			
Bedroom Sizes: ☐ 0BR/EFF () ☐ 1BR () ☒ 2BR (114) ☒ 3BR (54) ☒ 4BR (18) ☐ 5BR () ☐ 6BR ()			
1	Foundation Type:	☒ Concrete Slab - Note 2 & 3 bed	☒ Basement - Note - 4 bed
2	Window Type:	☐ Single Pane ☒ Double Pane Low-E	☐ Double Pane/Vinyl
	U-Factor: _____ SHGC: _____	(Solar Heat Gain Coefficient)	
3	# of Stories in Unit:	One or ☒ Two	☐ Building has multiple stories
4	Exterior Veneer/Cladding: ☐ Siding ☒ Brick ☐ Stucco ☐ Other: _____		
5a	HVAC Heating Fuel: ☐ Electric ☒ Natural Gas ☐ Other: _____		
5b	Is Heating Individually Metered? ☒ Yes ☐ No		
5c	Heating Type: ☐ Electric Baseboard ☒ Forced Air Furnace/Wall unit (80 AFUE) ☐ Central Boiler (radiant)		
	Energy Efficiencies Models ☐ Heat Pump ☒ Forced Air Furnace w/ducts ☐ electric or ☒ natural gas Heat Pump Efficiency Rating: SEER: _____ HSPF: _____ ☐ Solar Panels Installed ☐ (High Efficiency) Gas Furnace (90 AFUE) (additional information is needed)		
5d	Heating Equipment Location: ☒ Conditioned Space ☐ Unconditioned Space (attic/garage)		
5e	Air Conditioning: ☐ Yes ☒ No Type: ☐ Window Unit ☐ Central Tonage: _____		
6	Air Ducts:	☒ Yes ☐ No	
	If Yes, Location:	☒ Conditioned Space ☐ Unconditioned Space (attic)	
7a	Water Heater:	☐ Electric (30 gal)	☐ Natural Gas (30 gal)
	40-50 gallon	☐ Elec Tank .90 EF	☒ Gas Tank .58 EF
		☐ Elec Tank .95 EF	☐ Gas Tank .62 EF
		☐ Elec Tankless	☐ Gas Tankless .80 EF or higher
		(additional information is needed)	
7b	Water Heater Type:	☒ Individual units	☐ Central Boiler
7c	Water Htr Location:	☒ Conditioned Space	☐ Unconditioned Space (attic/garage)
8	Stove/Range:	☐ Electric	☒ Natural Gas
9	Energy Efficiencies: Insulation: ☐ Ceiling (R-20)(min.) ☐ Ceiling (R-38) ☐ Wall (R-13) ☒ Ceiling (R-30) ☐ Ceiling (R-49) ☐ Wall (R-19) Low Flow Water: ☒ Shower, Faucets, Toilets Lighting: ☒ 100% CFL 100% LED		
10	☐ GeoThermal (HVAC and DHW) COP Rating: _____		
Notes/Comments:			

Housing Agency:		Detroit Housing Commission	
Customization & Energy Efficiency Measures for Base Ekotrope Models Please check appropriate box(s) for each development/property and note if different for other bedroom sizes in property. NOTE: Use separate form if criteria is different for BR sizes or more than one building type per property. Blue text represents energy efficiency measures/equipment.			
Development Name & No.:		MI001000003 Diggs	
Building: Year Built: <u>1972</u>		Structure Type: ☐ Apt ☐ High-Rise ☒ RH ☐ SD ☐ DH	
Legend: Apt=Apartment (low-rise/mid-rise), RH=Row House/Townhouse, SD=Semi-Detached/Duplex, DH=Detached House			
Resident-Paid Utilities: ☒ Electric ☒ Natural Gas ☐ Water ☐ Sewer ☐ Trash			
Agency-Paid Check-Metered Utilities: ☐ Electric ☐ Natural Gas ☒ Water			
OR ☐ All Utilities are Master Metered (Paid by the Agency) (Stop here if ALL utilities are Master Metered)			
Bedroom Sizes: ☐ 0BR/EFF () ☐ 1BR () ☐ 2BR () ☒ 3BR (22) ☒ 4BR (52) ☒ 5BR (19) ☒ 6BR (11)			
1	Foundation Type:	☐ Concrete Slab ☐ Pier-Beam (Crawl Space)	☒ Basement
2	Window Type:	☐ Single Pane ☒ Double Pane Low-E	☐ Double Pane/Vinyl
U-Factor: _____ SHGC: _____ (Solar Heat Gain Coefficient)			
3	# of Stories in Unit:	One or ☒ Two	☐ Building has multiple stories
4	Exterior Veneer/Cladding: ☒ Siding ☒ Brick ☐ Stucco ☐ Other: _____		
5a	Hvac Heating Fuel: ☐ Electric ☒ Natural Gas ☐ Other: _____		
5b	Is Heating Individually Metered? ☒ Yes ☐ No		
5c	Heating Type: ☐ Electric Baseboard ☒ Forced Air Furnace/Wall unit (80 AFUE) ☐ Central Boiler (radiant)		
	Energy Efficiencies Models ☐ Heat Pump ☒ Forced Air Furnace w/ducts ☐ electric or ☒ natural gas Heat Pump Efficiency Rating: SEER: _____ HSPF: _____ ☐ Solar Panels Installed ☒ (High Efficiency) Gas Furnace (90 AFUE) (additional information is needed)		
5d	Heating Equipment Location: ☒ Conditioned Space ☐ Unconditioned Space (attic/garage)		
5e	Air Conditioning: ☐ Yes ☒ No Type: ☐ Window Unit ☐ Central Tonage: _____		
6	Air Ducts:	☒ Yes ☐ No	
	If Yes, Location:	☒ Conditioned Space ☐ Unconditioned Space (attic)	
7a	Water Heater:	☐ Electric (30 gal) ☒ Natural Gas (30 gal) ☐ Oil	
	40-50 gallon	☐ Elec Tank .90 EF ☒ Gas Tank .58 EF ☐ Solar Water Heating	(additional information is needed)
		☐ Elec Tank .95 EF ☐ Gas Tank .62 EF	
		☐ Elec Tankless ☐ Gas Tankless .80 EF or higher	
7b	Water Heater Type:	☒ Individual units ☐ Central Boiler	
7c	Water Htr Location:	☒ Conditioned Space ☐ Unconditioned Space (attic/garage)	
8	Stove/Range:	☐ Electric ☒ Natural Gas	
9	Energy Efficiencies:		
	Insulation:	☐ Ceiling (R-20)(min.) ☐ Ceiling (R-38) ☐ Wall (R-13)	
		☒ Ceiling (R-30) ☐ Ceiling (R-49) ☐ Wall (R-19)	
	Low Flow Water:	☒ Shower, Faucets, Toilets ☐ Lighting: ☐ 100% CFL ☒ 100% LED	
10	☐ GeoThermal (HVAC and DHW) COP Rating: _____		
Notes/Comments:			

Housing Agency:		Detroit Housing Commission	
Customization & Energy Efficiency Measures for Base Ekotrope Models			
Please check appropriate box(s) for each development/property and note if different for other bedroom sizes in property. NOTE: Use separate form if criteria is different for BR sizes or more than one building type per property. Blue text represents energy efficiency measures/equipment.			
Development Name & No.:		MI001000012 Scattered Sites West	
Building: Year Built: 1977		Structure Type: ☐ Apt ☐ High-Rise ☐ RH ☐ SD ☒ DH	
Legend: Apt=Apartment (low-rise/mid-rise), RH=Row House/Townhouse, SD=Semi-Detached/Duplex, DH=Detached House			
Resident-Paid Utilities:		☒ Electric ☒ Natural Gas ☐ Water ☐ Sewer ☐ Trash	
Agency-Paid Check-Metered Utilities:		☐ Electric ☐ Natural Gas ☒ Water	
OR ☐ All Utilities are Master Metered (Paid by the Agency) (Stop here if ALL utilities are Master Metered)			
Bedroom Sizes: ☐ 0BR/EFF () ☐ 1BR () ☒ 2BR (4) ☒ 3BR (69) ☒ 4BR (3) ☒ 5BR (1) ☐ 6BR ()			
1	Foundation Type:	☐ Concrete Slab ☐ Pier-Beam (Crawl Space) ☒ Basement	
2	Window Type:	☒ Single Pane ☒ Double Pane Low-E ☐ Double Pane/Vinyl	
U-Factor: _____ SHGC: _____ (Solar Heat Gain Coefficient)			
3	# of Stories in Unit:	One ☒ or ☐ Two ☐ Building has multiple stories	
4	Exterior Veneer/Cladding: ☒ Siding ☒ Brick ☐ Stucco ☐ Other: _____		
5a	HVAC Heating Fuel: ☐ Electric ☒ Natural Gas ☐ Other: _____		
5b	Is Heating Individually Metered? ☒ Yes ☐ No		
5c	Heating Type: ☐ Electric Baseboard ☒ Forced Air Furnace/Wall unit (80 AFUE) ☐ Central Boiler (radiant)		
	Energy Efficiencies Models ☐ Heat Pump ☒ Forced Air Furnace w/ducts _____ electric or ☒ natural gas Heat Pump Efficiency Rating: SEER: _____ HSPF: _____ ☐ Solar Panels Installed ☒ (High Efficiency) Gas Furnace (90 AFUE) (additional information is needed)		
5d	Heating Equipment Location: ☒ Conditioned Space ☐ Unconditioned Space (attic/garage)		
5e	Air Conditioning: ☐ Yes ☒ No Type: ☐ Window Unit ☐ Central Tonage: _____		
6	Air Ducts: ☒ Yes ☐ No		
	If Yes, Location: ☒ Conditioned Space ☐ Unconditioned Space (attic)		
7a	Water Heater: ☐ Electric (30 gal) ☐ Natural Gas (30 gal) ☐ Oil		
	40-50 gallon ☐ Elec Tank .90 EF ☒ Gas Tank .58 EF ☐ Solar Water Heating (additional information is needed)		
	☐ Elec Tank .95 EF ☐ Gas Tank .62 EF ☐ Elec Tankless ☐ Gas Tankless .80 EF or higher		
7b	Water Heater Type: ☒ Individual units ☐ Central Boiler		
7c	Water Htr Location: ☒ Conditioned Space ☐ Unconditioned Space (attic/garage)		
8	Stove/Range: ☒ Electric ☒ Natural Gas		
9	Energy Efficiencies:		
	Insulation: ☐ Ceiling (R-20)(min.) ☐ Ceiling (R-38) ☐ Wall (R-13) ☒ Ceiling (R-30) ☐ Ceiling (R-49) ☐ Wall (R-19)		
	Low Flow Water: ☒ Shower, Faucets, Toilets Lighting: ☒ 100% CFL 100% LED		
10	☐ GeoThermal (HVAC and DHW) COP Rating: _____		
Notes/Comments: These are all single family homes			

Housing Agency:		Detroit Housing Commission	
Customization & Energy Efficiency Measures for Base Ekotrope Models			
Please check appropriate box(s) for each development/property and note if different for other bedroom sizes in property. NOTE: Use separate form if criteria is different for BR sizes or more than one building type per property. Blue text represents energy efficiency measures/equipment.			
Development Name & No.:		MI001000013 Scattered Sites East	
Building: Year Built: <u>1974</u>		Structure Type: ☐ Apt ☐ High-Rise ☐ RH ☐ SD ☒ DH	
Legend: Apt=Apartment (low-rise/mid-rise), RH=Row House/Townhouse, SD=Semi-Detached/Duplex, DH=Detached House			
Resident-Paid Utilities:		☒ Electric ☒ Natural Gas ☐ water ☐ Sewer ☐ Trash	
Agency-Paid Check-Metered Utilities:		☐ Electric ☐ Natural Gas ☒ Water	
OR ☐ All Utilities are Master Metered (Paid by the Agency) (Stop here if ALL utilities are Master Metered)			
Bedroom Sizes: ☐ 0BR/EFF () ☐ 1BR () ☒ 2BR (2) ☒ 3BR (64) ☒ 4BR (12) ☒ 5BR (2) ☐ 6BR ()			
1	Foundation Type:	☒ Concrete Slab	☐ Pier-Beam (Crawl Space) ☒ Basement
2	Window Type:	☒ Single Pane	☒ Double Pane Low-E ☐ Double Pane/Vinyl
U-Factor: _____ SHGC: _____ (Solar Heat Gain Coefficient)			
3	# of Stories in Unit:	One ☒ or ☒ Two	☐ Building has multiple stories
4	Exterior Veneer/Cladding: ☒ Siding ☒ Brick ☐ Stucco ☐ Other: _____		
5a	Heating Fuel:	☐ Electric ☒ Natural Gas	two homes have boilers
5b	Is Heating Individually Metered?	☒ Yes	Other: _____
5c	Heating Type:	☐ Electric Baseboard ☒ Forced Air Furnace/Wall unit (80 AFUE)	☒ No ☐ Central Boiler (radiant)
	Energy Efficiencies Models	☐ Heat Pump ☒ Forced Air Furnace w/ducts ☐ electric or ☒ natural gas	
Heat Pump Efficiency Rating: SEER: _____ HSPF: _____			
☐ Solar Panels Installed ☒ (High Efficiency) Gas Furnace (90 AFUE) (additional information is needed)			
5d	Heating Equipment Location:		
☒ Conditioned Space ☐ Unconditioned Space (attic/garage)			
5e	Air Conditioning:	☐ Yes ☒ No Type: ☐ Window Unit ☐ Central Tonage: _____	
6	Air Ducts:	☒ Yes	☐ No
	If Yes, Location:	☒ Conditioned Space	☐ Unconditioned Space (attic)
7a	Water Heater:	☐ Electric (30 gal)	☐ Natural Gas (30 gal) ☐ Oil
	40-50 gallon	☐ Elec Tank .90 EF ☒ Gas Tank .58 EF	☐ Solar Water Heating
(additional information is needed)			
		☐ Elec Tank .95 EF ☐ Gas Tank .62 EF	
		☐ Elec Tankless ☐ Gas Tankless .80 EF or higher	
7b	Water Heater Type:	☒ Individual units	☐ Central Boiler
7c	Water Htr Location:	☒ Conditioned Space	☐ Unconditioned Space (attic/garage)
8	Stove/Range:	☒ Electric ☒ Natural Gas	
9	Energy Efficiencies:		
	Insulation:	☐ Ceiling (R-20)(min.) ☐ Ceiling (R-38) ☐ Wall (R-13)	
		☒ Ceiling (R-30) ☐ Ceiling (R-49) ☐ Wall (R-19)	
	Low Flow Water:	☒ Shower, Faucets, Toilets	Lighting: ☒ 100% CFL 100% LED
10	☐ GeoThermal (HVAC and DHW) COP Rating: _____		
Notes/Comments: <u>These are all single family homes</u>			

Housing Agency:		Detroit Housing Commission	
Customization & Energy Efficiency Measures for Base Ekotrope Models Please check appropriate box(s) for each development/property and note if different for other bedroom sizes in property. NOTE: Use separate form if criteria is different for BR sizes or more than one building type per property. Blue text represents energy efficiency measures/equipment.			
Development Name & No.:		MI001000014 Scattered Sites Central	
Building: Year Built: <u>1975</u>		Structure Type: ☐ Apt ☐ High-Rise ☐ RH ☐ SD ☒ DH	
Legend: Apt=Apartment (low-rise/mid-rise), RH=Row House/Townhouse, SD=Semi-Detached/Duplex, DH=Detached House			
Resident-Paid Utilities:		☒ Electric ☒ Natural Gas ☐ water ☐ Sewer ☐ Trash	
Agency-Paid Check-Metered Utilities:		☐ Electric ☐ Natural Gas ☒ Water OR ☐ All Utilities are Master Metered (Paid by the Agency) (Stop here if ALL utilities are Master Metered)	
Bedroom Sizes: ☐ 0BR/EFF () ☐ 1BR () ☒ 2BR (2) ☒ 3BR (41) ☒ 4BR (6) ☒ 5BR (1) ☒ 6BR (1)			
1	Foundation Type:	☐ Concrete Slab ☐ Pier-Beam (Crawl Space)	☒ Basement
2	Window Type:	☒ Single Pane ☒ Double Pane Low-E	☐ Double Pane/Vinyl
U-Factor: _____ SHGC: _____ (Solar Heat Gain Coefficient)			
3	# of Stories in Unit:	One ☒ or ☒ Two	Building has multiple stories
4	Exterior Veneer/Cladding: ☒ Siding ☒ Brick ☐ Stucco ☐ Other: _____		
5a	Heating Fuel:	☐ Electric ☒ Natural Gas	two homes have boilers
5b	Is Heating Individually Metered?	☒ Yes	Other: _____
5c	Heating Type:	☐ Electric Baseboard ☒ Forced Air Furnace/Wall unit (80 AFUE)	☒ No ☐ Central Boiler (radiant)
	Energy Efficiencies Models	☐ Heat Pump ☒ Forced Air Furnace w/ducts ☐ electric or ☒ natural gas Heat Pump Efficiency Rating: SEER: _____ HSPF: _____ ☐ Solar Panels Installed ☒ (High Efficiency) Gas Furnace (90 AFUE) (additional information is needed)	
5d	Heating Equipment Location:		
	☒ Conditioned Space ☐ Unconditioned Space (attic/garage)		
5e	Air Conditioning: ☐ Yes ☒ No Type: ☐ Window Unit ☐ Central Tonage: _____		
6	Air Ducts:	☒ Yes ☐ No	
	If Yes, Location:	☒ Conditioned Space ☐ Unconditioned Space (attic)	
7a	Water Heater:	☐ Electric (30 gal) ☐ Natural Gas (30 gal) ☐ Oil	
	40-50 gallon	☐ Elec Tank .90 EF ☒ Gas Tank .58 EF	☐ Solar Water Heating
	(additional information is needed)		
	☐ Elec Tank .95 EF ☐ Gas Tank .62 EF		
	☐ Elec Tankless ☐ Gas Tankless .80 EF or higher		
7b	Water Heater Type:	☒ Individual units ☐ Central Boiler	
7c	Water Htr Location:	☒ Conditioned Space ☐ Unconditioned Space (attic/garage)	
8	Stove/Range:	☒ Electric ☒ Natural Gas	
9	Energy Efficiencies:		
	Insulation:	☐ Ceiling (R-20)(min.) ☐ Ceiling (R-38) ☐ Wall (R-13)	
		☒ Ceiling (R-30) ☐ Ceiling (R-49) ☐ Wall (R-19)	
	Low Flow Water:	☒ Shower, Faucets, Toilets ☒ Lighting: ☒ 100% CFL ☐ 100% LED	
10	☐ GeoThermal (HVAC and DHW) COP Rating: _____		
Notes/Comments: <u>These are all single family homes</u>			

Housing Agency:		Detroit Housing Commission	
Customization & Energy Efficiency Measures for Base Ekotrope Models			
Please check appropriate box(s) for each development/property and note if different for other bedroom sizes in property. NOTE: Use separate form if criteria is different for BR sizes or more than one building type per property. <i>Blue text represents energy efficiency measures/equipment.</i>			
Development Name & No.:		MI001000016 Smith Homes	
Building: Year Built: 1943		Structure Type: ☐ Apt ☐ High-Rise ☒ RH ☐ SD ☐ DH	
Legend: Apt=Apartment (low-rise/mid-rise), RH=Row House/Townhouse, SD=Semi-Detached/Duplex, DH=Detached House			
Resident-Paid Utilities: ☒ Electric ☒ Natural Gas ☐ Water ☐ Sewer ☐ Trash			
Agency-Paid Check-Metered Utilities: ☐ Electric ☐ Natural Gas ☒ Water OR ☐ All Utilities are Master Metered (Paid by the Agency) (Stop here if ALL utilities are Master Metered)			
Bedroom Sizes: ☐ 0BR/EFF () ☐ 1BR () ☒ 2BR (87) ☒ 3BR (41) ☒ 4BR (28) ☐ 5BR () ☐ 6BR ()			
1	Foundation Type:	☒ Concrete Slab ☐ Pier-Beam (Crawl Space)	☐ Basement
2	Window Type:	☐ Single Pane ☒ Double Pane Low-E	☐ Double Pane/Vinyl
U-Factor: _____ SHGC: _____ (Solar Heat Gain Coefficient)			
3	# of Stories in Unit:	One or ☒ Two	☐ Building has multiple stories
4	Exterior Veneer/Cladding: ☒ Siding ☐ Brick ☐ Stucco ☐ Other: _____		
HVAC 5a Heating Fuel: ☐ Electric ☒ Natural Gas ☐ Other: _____ 5b Is Heating Individually Metered? ☒ Yes ☐ No 5c Heating Type: ☐ Electric Baseboard ☒ Forced Air Furnace/Wall unit (80 AFUE) ☐ Central Boiler (radiant)			
Energy Efficiencies Models ☐ Heat Pump Heat Pump Efficiency Rating: SEER: _____ HSPF: _____ ☐ Solar Panels Installed ☒ (High Efficiency) Gas Furnace (90 AFUE) <i>(additional information is needed)</i>			
5d	Heating Equipment Location:		
☒ Conditioned Space ☐ Unconditioned Space (attic/garage)			
5e	Air Conditioning: ☐ Yes ☒ No Type: ☐ Window Unit ☐ Central Tonage: _____		
6	Air Ducts:	☒ Yes ☐ No	
If Yes, Location: ☒ Conditioned Space ☐ Unconditioned Space (attic)			
7a	Water Heater:	☐ Electric (30 gal) ☐ Natural Gas (30 gal) ☐ Oil	
40-50 gallon ☐ Elec Tank .90 EF ☒ Gas Tank .58 EF ☐ Solar Water Heating <i>(additional information is needed)</i> ☐ Elec Tank .95 EF ☐ Gas Tank .62 EF ☐ Elec Tankless ☐ Gas Tankless .80 EF or higher			
7b	Water Heater Type:	☒ Individual units ☐ Central Boiler	
7c	Water Htr Location:	☒ Conditioned Space ☐ Unconditioned Space (attic/garage)	
8	Stove/Range:	☒ Electric ☐ Natural Gas	
9	Energy Efficiencies:		
Insulation: ☐ Ceiling (R-20)(min.) ☐ Ceiling (R-38) ☐ Wall (R-13) ☒ Ceiling (R-30) ☐ Ceiling (R-49) ☐ Wall (R-19) Low Flow Water: ☒ Shower, Faucets, Toilets Lighting: ☐ 100% CFL ☒ 100% LED			
10	☐ GeoThermal (HVAC and DHW) COP Rating: _____		
Notes/Comments:			

Housing Agency:		Detroit Housing Commission	
Customization & Energy Efficiency Measures for Base Ekotrope Models Please check appropriate box(s) for each development/property and note if different for other bedroom sizes in property. NOTE: Use separate form if criteria is different for BR sizes or more than one building type per property. Blue text represents energy efficiency measures/equipment.			
Development Name & No.:		MI001000028 Algonquin	
Building: Year Built: <u>2012</u>		Structure Type: ☒ Apt ☐ High-Rise ☐ RH ☐ SD ☐ DH	
Legend: Apt=Apartment (low-rise/mid-rise), RH=Row House/Townhouse, SD=Semi-Detached/Duplex, DH=Detached House			
Resident-Paid Utilities:		☒ Electric ☒ Natural Gas ☐ Water ☐ Sewer ☐ Trash	
Agency-Paid Check-Metered Utilities:		Electric ☐ Natural Gas ☐ Water ☒	
OR ☒ All Utilities are Master Metered (Paid by the Agency) (Stop here if ALL utilities are Master Metered)			
Bedroom Sizes: ☐ 0BR/EFF () ☒ 1BR (1) ☒ 2BR (11) ☐ 3BR () ☐ 4BR () ☐ 5BR () ☐ 6BR ()			
1	Foundation Type:	☐ Concrete Slab ☐ Pier-Beam (Crawl Space)	☒ Basement
2	Window Type:	☐ Single Pane ☒ Double Pane Low-E	☐ Double Pane/Vinyl
U-Factor: _____ SHGC: _____ (Solar Heat Gain Coefficient)			
3	# of Stories in Unit:	One or ☒ Two	☐ Building has multiple stories
4	Exterior Veneer/Cladding: ☐ Siding ☒ Brick ☐ Stucco ☐ Other: _____		
5a	HVAC Heating Fuel: ☐ Electric ☒ Natural Gas ☐ Other: _____		
5b	Is Heating Individually Metered? ☒ Yes ☒ No		
5c	Heating Type: ☐ Electric Baseboard ☒ Forced Air Furnace/Wall unit (80 AFUE) ☐ Central Boiler		
	Energy Efficiencies Models ☐ Heat Pump Heat Pump Efficiency Rating: SEER: _____ HSPF: _____ ☐ Solar Panels Installed ☒ (High Efficiency) Gas Furnace (90 AFUE) (additional information is needed)		
5d	Heating Equipment Location: ☒ Conditioned Space ☐ Unconditioned Space (attic/garage)		
5e	Air Conditioning: ☐ Yes ☒ No Type: ☐ Window Unit ☐ Central Tonage: _____		
6	Air Ducts: ☒ Yes ☐ No If Yes, Location: ☒ Conditioned Space ☐ Unconditioned Space (attic)		
7a	Water Heater: ☐ Electric (30 gal) ☒ Natural Gas (30 gal) ☐ Oil ☐ 40-50 gallon ☐ Elec Tank .90 EF ☒ Gas Tank .58 EF ☐ Solar Water Heating (additional information is needed) ☐ Elec Tank .95 EF ☐ Gas Tank .62 EF ☐ Elec Tankless ☐ Gas Tankless .80 EF or higher		
7b	Water Heater Type: ☐ Individual units ☐ Central Boiler		
7c	Water Htr Location: ☐ Conditioned Space ☐ Unconditioned Space (attic/garage)		
8	Stove/Range: ☒ Electric ☐ Natural Gas		
9	Energy Efficiencies: Insulation: ☐ Ceiling (R-20)(min.) ☐ Ceiling (R-38) ☐ Wall (R-13) ☒ Ceiling (R-30) ☐ Ceiling (R-49) ☐ Wall (R-19) Low Flow Water: ☒ Shower, Faucets, Toilets Lighting: ☐ 100% CFL ☒ % LED		
10	☐ GeoThermal (HVAC and DHW) COP Rating: _____		
Notes/Comments:			

Housing Agency:		Detroit Housing Commission	
Customization & Energy Efficiency Measures for Base Ekotrope Models Please check appropriate box(s) for each development/property and note if different for other bedroom sizes in property. NOTE: Use separate form if criteria is different for BR sizes or more than one building type per property. Blue text represents energy efficiency measures/equipment.			
Development Name & No.:		MI001000029 Greenbrooke	
Building: Year Built: <u>2011</u>		Structure Type: ☒ Apt ☐ High-Rise ☐ RH ☐ SD ☐ DH	
Legend: Apt=Apartment (low-rise/mid-rise), RH=Row House/Townhouse, SD=Semi-Detached/Duplex, DH=Detached House			
Resident-Paid Utilities:		☒ Electric ☐ Natural Gas ☐ Water ☐ Sewer ☐ Trash	
Agency-Paid Check-Metered Utilities:		Electric ☒ Natural Gas ☒ Water	
OR All Utilities are Master Metered (Paid by the Agency) (Stop here if ALL utilities are Master Metered)			
Bedroom Sizes: ☐ 0BR/EFF () ☒ 1BR (28) ☒ 2BR (4) ☐ 3BR () ☐ 4BR () ☐ 5BR () ☐ 6BR ()			
1	Foundation Type:	☐ Concrete Slab ☐ Pier-Beam (Crawl Space) ☒ Basement	
2	Window Type:	☐ Single Pane ☒ Double Pane Low-E ☐ Double Pane/Vinyl	
U-Factor: _____ SHGC: _____ (Solar Heat Gain Coefficient)			
3	# of Stories in Unit:	One or ☒ Two	Building has multiple stories
4	Exterior Veneer/Cladding: ☒ Siding ☒ Brick ☐ Stucco ☐ Other: _____		
5a	Heating Fuel: ☐ Electric ☒ Natural Gas ☐ Other: _____		
5b	Is Heating Individually Metered? ☐ Yes ☒ No		
5c	Heating Type: ☐ Electric Baseboard ☐ Forced Air Furnace/Wall unit (80 AFUE) ☒ Central Boiler (radiant)		
	Energy Efficiencies Models: ☐ Heat Pump ☐ Forced Air Furnace w/ducts _____ electric or natural gas Heat Pump Efficiency Rating: SEER: _____ HSPF: _____ ☐ Solar Panels Installed ☐ (High Efficiency) Gas Furnace (90 AFUE) (additional information is needed)		
5d	Heating Equipment Location: ☒ Conditioned Space ☐ Unconditioned Space (attic/garage)		
5e	Air Conditioning: ☒ Yes ☐ No Type: ☒ WALL UNIT ☐ Central Tonage: _____		
6	Air Ducts: ☐ Yes ☒ No If Yes, Location: ☐ Conditioned Space ☐ Unconditioned Space (attic)		
7a	Water Heater: ☐ Electric (30 gal) ☐ Natural Gas (30 gal) ☐ Oil ☒ 40-50 gallon ☐ Elec Tank .90 EF ☐ Gas Tank .58 EF ☐ Solar Water Heating (additional information is needed) ☐ Elec Tank .95 EF ☐ Gas Tank .62 EF ☐ Elec Tankless ☐ Gas Tankless .80 EF or higher		
7b	Water Heater Type: ☐ Individual units ☒ Central Boiler		
7c	Water Htr Location: ☒ Conditioned Space ☐ Unconditioned Space (attic/garage)		
8	Stove/Range: ☒ Electric ☐ Natural Gas		
9	Energy Efficiencies: Insulation: ☐ Ceiling (R-20)(min.) ☐ Ceiling (R-38) ☐ Wall (R-13) ☒ Ceiling (R-30) ☐ Ceiling (R-49) ☐ Wall (R-19) Low Flow Water: ☒ Shower, Faucets, Toilets Lighting: ☐ 100% CFL ☒ % LED		
10	☐ GeoThermal (HVAC and DHW) COP Rating: _____		
Notes/Comments:			

Housing Agency:		Detroit Housing Commission	
Customization & Energy Efficiency Measures for Base Ekotrope Models Please check appropriate box(s) for each development/property and note if different for other bedroom sizes in property. NOTE: Use separate form if criteria is different for BR sizes or more than one building type per property. Blue text represents energy efficiency measures/equipment.			
Development Name & No.:		MI001000003 Forest Park	
Building: Year Built: <u>1972</u>		Structure Type: ☐ Apt ☒ High-Rise ☐ RH ☐ SD ☐ DH	
Legend: Apt=Apartment (low-rise/mid-rise), RH=Row House/Townhouse, SD=Semi-Detached/Duplex, DH=Detached House			
Resident-Paid Utilities: ☐ Electric ☐ Natural Gas ☐ Water ☐ Sewer ☐ Trash			
Agency-Paid Check-Metered Utilities: ☒ Electric ☒ Natural Gas ☒ Water			
OR ☒ All Utilities are Master Metered (Paid by the Agency) (Stop here if ALL utilities are Master Metered)			
Bedroom Sizes: ☐ 0BR/EFF () ☒ 1BR (96) ☒ 2BR (1) ☐ 3BR () ☐ 4BR () ☐ 5BR () ☐ 6BR ()			
1	Foundation Type:	☒ Concrete Slab	☐ Pier-Beam (Crawl Space) ☐ Basement
2	Window Type:	☐ Single Pane	☒ Double Pane Low-E ☐ Double Pane/Vinyl
U-Factor: _____ SHGC: _____ (Solar Heat Gain Coefficient)			
3	# of Stories in Unit:	One or Two	☒ Building has multiple stories
4	Exterior Veneer/Cladding: ☐ Siding ☒ Brick ☐ Stucco ☐ Other: _____		
5a	Heating Fuel:	☐ Electric	☒ Natural Gas ☐ Other: _____
5b	Is Heating Individually Metered?	☐ Yes	☒ No
5c	Heating Type:	☐ Electric Baseboard	☐ Forced Air Furnace/Wall unit (80 AFUE) ☒ Central Boiler (radiant)
	Energy Efficiencies Models	☐ Heat Pump Heat Pump Efficiency Rating: SEER: _____ HSPF: _____ ☐ Solar Panels Installed ☐ (High Efficiency) Gas Furnace (90 AFUE) (additional information is needed)	
5d	Heating Equipment Location:		
	☒ Conditioned Space ☐ Unconditioned Space (attic/garage)		
5e	Air Conditioning:	☒ Yes ☐ No	Type: ☐ Window Unit ☒ Central Tonage: _____
6	Air Ducts:	☒ Yes	☐ No
	If Yes, Location:	☒ Conditioned Space	☐ Unconditioned Space (attic)
7a	Water Heater:	☐ Electric (30 gal)	☐ Natural Gas (30 gal) ☐ Oil
	40-50 gallon	☐ Elec Tank .90 EF	☐ Gas Tank .58 EF ☐ Solar Water Heating
		(additional information is needed)	
		☐ Elec Tank .95 EF	☐ Gas Tank .62 EF
		☐ Elec Tankless	☐ Gas Tankless .80 EF or higher
7b	Water Heater Type:	☐ Individual units	☒ Central Boiler
7c	Water Htr Location:	☒ Conditioned Space	☐ Unconditioned Space (attic/garage)
8	Stove/Range:	☐ Electric	☒ Natural Gas
9	Energy Efficiencies:		
	Insulation:	☐ Ceiling (R-20)(min.)	☐ Ceiling (R-38) ☐ Wall (R-13)
		☒ Ceiling (R-30)	☐ Ceiling (R-49) ☐ Wall (R-19)
	Low Flow Water:	☒ Shower, Faucets, Toilets	Lighting: ☐ 100% CFL ☒ 100% LED
10	☐ GeoThermal (HVAC and DHW) COP Rating: _____		
Notes/Comments:			

Housing Agency:		Detroit Housing Commission	
Customization & Energy Efficiency Measures for Base Ekotrope Models Please check appropriate box(s) for each development/property and note if different for other bedroom sizes in property. NOTE: Use separate form if criteria is different for BR sizes or more than one building type per property. <i>Blue text represents energy efficiency measures/equipment.</i>			
Development Name & No.:		MI001000007 Harriet Tubman	
Building: Year Built: <u>1972</u>		Structure Type: ☐ Apt ☒ High-Rise ☐ RH ☐ SD ☐ DH	
Legend: Apt=Apartment (low-rise/mid-rise), RH=Row House/Townhouse, SD=Semi-Detached/Duplex, DH=Detached House			
Resident-Paid Utilities: ☐ Electric ☐ Natural Gas ☐ Water ☐ Sewer ☐ Trash			
Agency-Paid Check-Metered Utilities: ☒ Electric ☒ Natural Gas ☒ Water			
OR ☒ All Utilities are Master Metered (Paid by the Agency) (Stop here if ALL utilities are Master Metered)			
Bedroom Sizes: ☐ 0BR/EFF () ☒ 1BR (198) ☒ 2BR (2) ☐ 3BR () ☐ 4BR () ☐ 5BR () ☐ 6BR ()			
1	Foundation Type:	☒ Concrete Slab	☐ Pier-Beam (Crawl Space) ☐ Basement
2	Window Type:	☐ Single Pane	☒ Double Pane Low-E ☐ Double Pane/Vinyl
U-Factor: _____ SHGC: _____ (Solar Heat Gain Coefficient)			
3	# of Stories in Unit:	One or Two	☒ Building has multiple stories
4	Exterior Veneer/Cladding: ☐ Siding ☒ Brick ☐ Stucco ☐ Other: _____		
5a	Heating Fuel:	☐ Electric	☒ Natural Gas ☐ Other: _____
5b	Is Heating Individually Metered?	☐ Yes	☒ No
5c	Heating Type:	☐ Electric Baseboard	☐ Forced Air Furnace/Wall unit (80 AFUE) ☒ Central Boiler (radiant)
Energy Efficiencies Models ☐ Heat Pump Heat Pump Efficiency Rating: SEER: _____ HSPF: _____ ☐ Solar Panels Installed ☐ (High Efficiency) Gas Furnace (90 AFUE) (additional information is needed)			
5d	Heating Equipment Location: ☒ Conditioned Space ☐ Unconditioned Space (attic/garage)		
5e	Air Conditioning:	☒ Yes ☐ No Type: ☐ Window Unit ☒ Central	Tonage: _____
6	Air Ducts:	☒ Yes	☐ No
	If Yes, Location:	☒ Conditioned Space	☐ Unconditioned Space (attic)
7a	Water Heater:	☐ Electric (30 gal)	☐ Natural Gas (30 gal) ☐ Oil
	40-50 gallon	☐ Elec Tank .90 EF	☐ Gas Tank .58 EF ☐ Solar Water Heating
(additional information is needed)			
		☐ Elec Tank .95 EF ☐ Gas Tank .62 EF	
		☐ Elec Tankless ☐ Gas Tankless .80 EF or higher	
7b	Water Heater Type:	☐ Individual units	☒ Central Boiler
7c	Water Htr Location:	☒ Conditioned Space	☐ Unconditioned Space (attic/garage)
8	Stove/Range:	☐ Electric	☒ Natural Gas
9	Energy Efficiencies: Insulation: ☐ Ceiling (R-20)(min.) ☐ Ceiling (R-38) ☐ Wall (R-13) ☒ Ceiling (R-30) ☐ Ceiling (R-49) ☐ Wall (R-19) Low Flow Water: ☒ Shower, Faucets, Toilets Lighting: ☐ 100% CFL ☒ 100% LED		
10	☐ GeoThermal (HVAC and DHW) COP Rating: _____		
Notes/Comments:			

Housing Agency:		Detroit Housing Commission	
Customization & Energy Efficiency Measures for Base Ekotrope Models Please check appropriate box(s) for each development/property and note if different for other bedroom sizes in property. NOTE: Use separate form if criteria is different for BR sizes or more than one building type per property. <i>Blue text represents energy efficiency measures/equipment.</i>			
Development Name & No.:		MI001000011 Riverbend	
Building: Year Built: <u>1972</u>		Structure Type: ☐ Apt ☒ High-Rise ☐ RH ☐ SD ☐ DH	
Legend: Apt=Apartment (low-rise/mid-rise), RH=Row House/Townhouse, SD=Semi-Detached/Duplex, DH=Detached House			
Resident-Paid Utilities: ☐ Electric ☐ Natural Gas ☐ Water ☐ Sewer ☐ Trash			
Agency-Paid Check-Metered Utilities: ☒ Electric ☒ Natural Gas ☒ Water			
OR ☒ All Utilities are Master Metered (Paid by the Agency) (Stop here if ALL utilities are Master Metered)			
Bedroom Sizes: ☐ 0BR/EFF () ☒ 1BR (90) ☒ 2BR (5) ☐ 3BR () ☐ 4BR () ☐ 5BR () ☐ 6BR ()			
1	Foundation Type:	☒ Concrete Slab	☐ Pier-Beam (Crawl Space) ☐ Basement
2	Window Type:	☐ Single Pane	☒ Double Pane Low-E ☐ Double Pane/Vinyl
U-Factor: _____ SHGC: _____ (Solar Heat Gain Coefficient)			
3	# of Stories in Unit:	One or Two	☒ Building has multiple stories
4	Exterior Veneer/Cladding: ☐ Siding ☒ Brick ☐ Stucco ☐ Other: _____		
5a	Heating Fuel:	☐ Electric	☒ Natural Gas ☐ Other: _____
5b	Is Heating Individually Metered?	☐ Yes	☒ No
5c	Heating Type:	☐ Electric Baseboard	☐ Forced Air Furnace/Wall unit (80 AFUE) ☒ Central Boiler (radiant)
	Energy Efficiencies Models	☐ Heat Pump Heat Pump Efficiency Rating: SEER: _____ HSPF: _____ ☐ Solar Panels Installed ☐ (High Efficiency) Gas Furnace (90 AFUE) (additional information is needed)	
5d	Heating Equipment Location:		
	☒ Conditioned Space ☐ Unconditioned Space (attic/garage)		
5e	Air Conditioning:	☒ Yes ☐ No	Type: ☐ Window Unit ☒ Central Tonage: _____
6	Air Ducts:	☒ Yes	☐ No
	If Yes, Location:	☒ Conditioned Space	☐ Unconditioned Space (attic)
7a	Water Heater:	☐ Electric (30 gal)	☐ Natural Gas (30 gal) ☐ Oil
	40-50 gallon	☐ Elec Tank .90 EF	☐ Gas Tank .58 EF ☐ Solar Water Heating
		(additional information is needed)	
		☐ Elec Tank .95 EF	☐ Gas Tank .62 EF
		☐ Elec Tankless	☐ Gas Tankless .80 EF or higher
7b	Water Heater Type:	☐ Individual units	☒ Central Boiler
7c	Water Htr Location:	☒ Conditioned Space	☐ Unconditioned Space (attic/garage)
8	Stove/Range:	☐ Electric	☒ Natural Gas
9	Energy Efficiencies:		
	Insulation:	☐ Ceiling (R-20)(min.)	☐ Ceiling (R-38) ☐ Wall (R-13)
		☒ Ceiling (R-30)	☐ Ceiling (R-49) ☐ Wall (R-19)
	Low Flow Water:	☒ Shower, Faucets, Toilets	Lighting: ☐ 100% CFL ☒ 100% LED
10	☐ GeoThermal (HVAC and DHW) COP Rating: _____		
Notes/Comments:			

Housing Agency:		Detroit Housing Commission	
Customization & Energy Efficiency Measures for Base Ekotrope Models Please check appropriate box(s) for each development/property and note if different for other bedroom sizes in property. NOTE: Use separate form if criteria is different for BR sizes or more than one building type per property. <i>Blue text represents energy efficiency measures/equipment.</i>			
Development Name & No.:		MI001000015 Sheridan I and II	
Building: Year Built: <u>1972</u>		Structure Type: ☐ Apt ☒ High-Rise ☐ RH ☐ SD ☐ DH	
Legend: Apt=Apartment (low-rise/mid-rise), RH=Row House/Townhouse, SD=Semi-Detached/Duplex, DH=Detached House			
Resident-Paid Utilities: ☐ Electric ☐ Natural Gas ☐ Water ☐ Sewer ☐ Trash			
Agency-Paid Check-Metered Utilities: ☒ Electric ☒ Natural Gas ☒ Water			
OR ☒ All Utilities are Master Metered (Paid by the Agency) (Stop here if ALL utilities are Master Metered)			
Bedroom Sizes: ☐ 0BR/EFF () ☒ 1BR (409) ☐ 2BR (0) ☐ 3BR () ☐ 4BR () ☐ 5BR () ☐ 6BR ()			
1	Foundation Type:	☒ Concrete Slab	☐ Pier-Beam (Crawl Space) ☐ Basement
2	Window Type:	☐ Single Pane	☒ Double Pane Low-E ☐ Double Pane/Vinyl
U-Factor: _____ SHGC: _____ (Solar Heat Gain Coefficient)			
3	# of Stories in Unit:	One or Two	☒ Building has multiple stories
4	Exterior Veneer/Cladding: ☐ Siding ☒ Brick ☐ Stucco ☐ Other: _____		
5a	Heating Fuel:	☐ Electric	☒ Natural Gas ☐ Other: _____
5b	Is Heating Individually Metered?	☐ Yes	☒ No
5c	Heating Type:	☐ Electric Baseboard	☐ Forced Air Furnace/Wall unit (80 AFUE) ☒ Central Boiler (radiant)
Energy Efficiencies Models ☐ Heat Pump Heat Pump Efficiency Rating: SEER: _____ HSPF: _____ ☐ Solar Panels Installed ☐ (High Efficiency) Gas Furnace (90 AFUE) (additional information is needed)			
5d	Heating Equipment Location: ☒ Conditioned Space ☐ Unconditioned Space (attic/garage)		
5e	Air Conditioning: ☒ Yes ☐ No Type: ☐ Window Unit ☒ Central Tonage: _____		
6	Air Ducts:	☒ Yes	☐ No
	If Yes, Location:	☒ Conditioned Space	☐ Unconditioned Space (attic)
7a	Water Heater:	☐ Electric (30 gal)	☐ Natural Gas (30 gal) ☐ Oil
	40-50 gallon	☐ Elec Tank .90 EF	☐ Gas Tank .58 EF ☐ Solar Water Heating
(additional information is needed)			
		☐ Elec Tank .95 EF ☐ Gas Tank .62 EF	
		☐ Elec Tankless ☐ Gas Tankless .80 EF or higher	
7b	Water Heater Type:	☐ Individual units	☒ Central Boiler
7c	Water Htr Location:	☒ Conditioned Space	☐ Unconditioned Space (attic/garage)
8	Stove/Range:	☒ Electric	☐ Natural Gas
9	Energy Efficiencies: Insulation: ☐ Ceiling (R-20)(min.) ☐ Ceiling (R-38) ☐ Wall (R-13) ☒ Ceiling (R-30) ☐ Ceiling (R-49) ☐ Wall (R-19) Low Flow Water: ☒ Shower, Faucets, Toilets Lighting: ☒ 100% CFL 100% LED		
10	☐ GeoThermal (HVAC and DHW) COP Rating: _____		
Notes/Comments:			

Housing Agency:		Detroit Housing Commission	
Customization & Energy Efficiency Measures for Base Ekotrope Models Please check appropriate box(s) for each development/property and note if different for other bedroom sizes in property. NOTE: Use separate form if criteria is different for BR sizes or more than one building type per property. Blue text represents energy efficiency measures/equipment.			
Development Name & No.:		MI001000017 State Fair	
Building: Year Built: <u>1973</u>		Structure Type: ☐ Apt ☒ High-Rise ☐ RH ☐ SD ☐ DH	
Legend: Apt=Apartment (low-rise/mid-rise), RH=Row House/Townhouse, SD=Semi-Detached/Duplex, DH=Detached House			
Resident-Paid Utilities: ☐ Electric ☐ Natural Gas ☐ Water ☐ Sewer ☐ Trash			
Agency-Paid Check-Metered Utilities: ☒ Electric ☒ Natural Gas ☒ Water			
OR ☒ All Utilities are Master Metered (Paid by the Agency) (Stop here if ALL utilities are Master Metered)			
Bedroom Sizes: ☐ OBR/EFF () ☒ 1BR (198) ☒ 2BR (2) ☐ 3BR () ☐ 4BR () ☐ 5BR () ☐ 6BR ()			
1	Foundation Type:	☒ Concrete Slab	☐ Pier-Beam (Crawl Space) ☐ Basement
2	Window Type:	☐ Single Pane	☒ Double Pane Low-E ☐ Double Pane/Vinyl
U-Factor: _____ SHGC: _____ (Solar Heat Gain Coefficient)			
3	# of Stories in Unit:	One or Two	☒ Building has multiple stories
4	Exterior Veneer/Cladding: ☐ Siding ☐ Brick ☐ Stucco ☐ Other: _____		
5a	Heating Fuel:	☐ Electric ☒ Natural Gas ☐ Other: _____	
5b	Is Heating Individually Metered?	☐ Yes ☒ No	
5c	Heating Type:	☐ Electric Baseboard ☐ Forced Air Furnace/Wall unit (80 AFUE) ☒ Central Boiler (radiant)	
	Energy Efficiencies Models	☐ Heat Pump ☐ Forced Air Furnace w/ducts ☐ electric or ☒ natural gas Heat Pump Efficiency Rating: SEER: _____ HSPF: _____ ☐ Solar Panels Installed ☐ (High Efficiency) Gas Furnace (90 AFUE) (additional information is needed)	
5d	Heating Equipment Location: ☒ Conditioned Space ☐ Unconditioned Space (attic/garage)		
5e	Air Conditioning: ☒ Yes ☐ No Type: ☐ Window Unit ☒ Central Tonage: _____		
6	Air Ducts:	☒ Yes ☐ No	
	If Yes, Location:	☒ Conditioned Space ☐ Unconditioned Space (attic)	
7a	Water Heater:	☐ Electric (30 gal) ☐ Natural Gas (30 gal) ☐ Oil	
	40-50 gallon	☐ Elec Tank .90 EF ☐ Gas Tank .58 EF ☐ Solar Water Heating	(additional information is needed)
		☐ Elec Tank .95 EF ☐ Gas Tank .62 EF	
		☐ Elec Tankless ☐ Gas Tankless .80 EF or higher	
7b	Water Heater Type:	☐ Individual units ☒ Central Boiler	
7c	Water Htr Location:	☒ Conditioned Space ☐ Unconditioned Space (attic/garage)	
8	Stove/Range:	☒ Electric ☐ Natural Gas	
9	Energy Efficiencies:		
	Insulation:	☐ Ceiling (R-20)(min.) ☐ Ceiling (R-38) ☐ Wall (R-13)	
		☒ Ceiling (R-30) ☐ Ceiling (R-49) ☐ Wall (R-19)	
	Low Flow Water:	☒ Shower, Faucets, Toilets ☐ Lighting: ☒ 100% CFL ☐ % LED	
10	☐ GeoThermal (HVAC and DHW) COP Rating: _____		
Notes/Comments:			

Housing Agency:		Detroit Housing Commission	
Customization & Energy Efficiency Measures for Base Ekotrope Models Please check appropriate box(s) for each development/property and note if different for other bedroom sizes in property. NOTE: Use separate form if criteria is different for BR sizes or more than one building type per property. Blue text represents energy efficiency measures/equipment.			
Development Name & No.:		MI001000018 Warren West	
Building: Year Built: <u>1973</u>		Structure Type: ☐ Apt ☒ High-Rise ☐ RH ☐ SD ☐ DH	
Legend: Apt=Apartment (low-rise/mid-rise), RH=Row House/Townhouse, SD=Semi-Detached/Duplex, DH=Detached House			
Resident-Paid Utilities: ☐ Electric ☐ Natural Gas ☐ Water ☐ Sewer ☐ Trash			
Agency-Paid Check-Metered Utilities: ☒ Electric ☒ Natural Gas ☒ Water			
OR ☒ All Utilities are Master Metered (Paid by the Agency) (Stop here if ALL utilities are Master Metered)			
Bedroom Sizes: ☐ OBR/EFF () ☒ 1BR (116) ☒ 2BR (27) ☐ 3BR () ☐ 4BR () ☐ 5BR () ☐ 6BR ()			
1	Foundation Type:	☒ Concrete Slab	☐ Pier-Beam (Crawl Space) ☐ Basement
2	Window Type:	☐ Single Pane	☒ Double Pane Low-E ☐ Double Pane/Vinyl
U-Factor: _____ SHGC: _____ (Solar Heat Gain Coefficient)			
3	# of Stories in Unit:	One or Two	☒ Building has multiple stories
4	Exterior Veneer/Cladding: ☐ Siding ☒ Brick ☐ Stucco ☐ Other: _____		
5a	HVAC Heating Fuel: ☐ Electric ☒ Natural Gas ☐ Other: _____		
5b	Is Heating Individually Metered? ☐ Yes ☒ No		
5c	Heating Type: ☐ Electric Baseboard ☐ Forced Air Furnace/Wall unit (80 AFUE) ☒ Central Boiler (radiant)		
	Energy Efficiencies Models: ☐ Heat Pump ☐ Forced Air Furnace w/ducts ☐ electric or ☒ natural gas		
	Heat Pump Efficiency Rating: SEER: _____ HSPF: _____		
	☐ Solar Panels Installed ☐ (High Efficiency) Gas Furnace (90 AFUE) (additional information is needed)		
5d	Heating Equipment Location: ☒ Conditioned Space ☐ Unconditioned Space (attic/garage)		
5e	Air Conditioning: ☒ Yes ☐ No Type: ☐ Window Unit ☒ Central Tonage: _____		
6	Air Ducts:	☒ Yes	☐ No
	If Yes, Location:	☒ Conditioned Space	☐ Unconditioned Space (attic)
7a	Water Heater:	☐ Electric (30 gal)	☐ Natural Gas (30 gal) ☐ Oil
	40-50 gallon	☐ Elec Tank .90 EF	☐ Gas Tank .58 EF ☐ Solar Water Heating
		(additional information is needed)	
		☐ Elec Tank .95 EF	☐ Gas Tank .62 EF
		☐ Elec Tankless	☐ Gas Tankless .80 EF or higher
7b	Water Heater Type:	☐ Individual units	☒ Central Boiler
7c	Water Htr Location:	☒ Conditioned Space	☐ Unconditioned Space (attic/garage)
8	Stove/Range:	☒ Electric	☐ Natural Gas
9	Energy Efficiencies:		
	Insulation:	☐ Ceiling (R-20)(min.) ☐ Ceiling (R-38) ☐ Wall (R-13)	
		☒ Ceiling (R-30) ☐ Ceiling (R-49) ☐ Wall (R-19)	
	Low Flow Water:	☒ Shower, Faucets, Toilets	Lighting: ☒ 100% CFL ☐ % LED
10	☐ GeoThermal (HVAC and DHW) COP Rating: _____		
Notes/Comments:			

Housing Agency:		Detroit Housing Commission	
Customization & Energy Efficiency Measures for Base Ekotrope Models Please check appropriate box(s) for each development/property and note if different for other bedroom sizes in property. NOTE: Use separate form if criteria is different for BR sizes or more than one building type per property. Blue text represents energy efficiency measures/equipment.			
Development Name & No.:		MI001000019 Woodbridge Senior Village (Jeffries)	
Building: Year Built: <u>1955</u>		Structure Type: ☐ Apt ☒ High-Rise ☐ RH ☐ SD ☐ DH	
Legend: Apt=Apartment (low-rise/mid-rise), RH=Row House/Townhouse, SD=Semi-Detached/Duplex, DH=Detached House			
Resident-Paid Utilities: ☐ Electric ☐ Natural Gas ☐ Water ☐ Sewer ☐ Trash			
Agency-Paid Check-Metered Utilities: ☒ Electric ☒ Natural Gas ☒ Water			
OR ☒ All Utilities are Master Metered (Paid by the Agency) (Stop here if ALL utilities are Master Metered)			
Bedroom Sizes: ☐ OBR/EFF () ☒ 1BR (268) ☒ 2BR (28) ☐ 3BR () ☐ 4BR () ☐ 5BR () ☐ 6BR ()			
1	Foundation Type:	☐ Concrete Slab ☐ Pier-Beam (Crawl Space) ☒ Basement	
2	Window Type:	☐ Single Pane ☒ Double Pane Low-E ☐ Double Pane/Vinyl	
U-Factor: _____ SHGC: _____ (Solar Heat Gain Coefficient)			
3	# of Stories in Unit:	One or Two ☒ Building has multiple stories	
4	Exterior Veneer/Cladding:	☐ Siding ☒ Brick ☐ Stucco ☐ Other: _____	
5a	Heating Fuel:	☐ Electric ☒ Natural Gas ☐ Other: _____	
5b	Is Heating Individually Metered?	☐ Yes ☒ No	
5c	Heating Type:	☐ Electric Baseboard ☐ Forced Air Furnace/Wall unit (80 AFUE) ☒ Central Boiler (radiant)	
Energy Efficiencies Models ☐ Heat Pump ☐ Forced Air Furnace w/ducts ☐ electric or ☒ natural gas Heat Pump Efficiency Rating: SEER: _____ HSPF: _____ ☐ Solar Panels Installed ☐ (High Efficiency) Gas Furnace (90 AFUE) (additional information is needed)			
5d	Heating Equipment Location:	☒ Conditioned Space ☐ Unconditioned Space (attic/garage)	
5e	Air Conditioning:	☒ Yes ☐ No Type: ☐ Window Unit ☒ Central Tonage: _____	
6	Air Ducts:	☒ Yes ☐ No	
If Yes, Location: ☒ Conditioned Space ☐ Unconditioned Space (attic)			
7a	Water Heater:	☐ Electric (30 gal) ☐ Natural Gas (30 gal) ☐ Oil ☒ 40-50 gallon ☐ Elec Tank .90 EF ☐ Gas Tank .58 EF ☐ Solar Water Heating (additional information is needed) ☐ Elec Tank .95 EF ☐ Gas Tank .62 EF ☐ Elec Tankless ☐ Gas Tankless .80 EF or higher	
7b	Water Heater Type:	☐ Individual units ☒ Central Boiler	
7c	Water Htr Location:	☒ Conditioned Space ☐ Unconditioned Space (attic/garage)	
8	Stove/Range:	☒ Electric ☐ Natural Gas	
9	Energy Efficiencies:	Insulation: ☐ Ceiling (R-20)(min.) ☐ Ceiling (R-38) ☐ Wall (R-13) ☒ Ceiling (R-30) ☐ Ceiling (R-49) ☐ Wall (R-19) Low Flow Water: ☒ Shower, Faucets, Toilets Lighting: ☒ 100% CFL ☐ % LED	
10	☐ GeoThermal (HVAC and DHW) COP Rating: _____		
Notes/Comments:			

DEVELOPMENT REPORTS

Fuel Summary

Property

Detroit Housing Commission, MI
, MI 48207

Organization

Fox Energy Specialists
James Rodriguez

Inspection Status

Results are projected



Brewster Douglas-RH-2BR

Builder

Detroit Housing Commission,
MI

Annual Energy Cost

Natural Gas	\$531
Electric	\$345

Annual End-Use Cost

Heating	\$365
Cooling	\$0
Water Heating	\$120
Lights & Appliances	\$267
Onsite Generation	-\$0
Service Charges	\$124
Total	\$876

Annual End-Use Consumption

Heating [Natural Gas Therms]	440.0
Heating [Electric kWh]	425.1
Hot Water [Natural Gas Therms]	160.1
Lights & Appliances [Natural Gas Therms]	28.0
Lights & Appliances [Electric kWh]	2,957.5
Total [Natural Gas Therms]	628.1
Total [Electric kWh]	3,382.6
Total Onsite Generation [Electric kWh]	0.0

Peak Electric Consumption

Peak Winter kW	0.43
Peak Summer kW	0.52

Utility Rates

Electricity	Default Electric Provider
Natural Gas	Default Gas Provider

Lighting and Appliances

Property

Detroit Housing Commission, MI
, MI 48207

Organization

Fox Energy Specialists
James Rodriguez

Inspection Status

Results are projected



Brewster Douglas-RH-2BR

Builder

Detroit Housing
Commission, MI

ANNUAL SUMMARY

Summary

	Consumption	Annual Cost [\$]
Lighting [kWh/Year]	293.0	24
Electric Appliances [kWh/Year]	2,664.6	222
Fossil Fuel Appliances [MBtu/Year]	2.8	21
Total	-	267

LIGHTING

Lighting Scheme

	Consumption [kWh/Year]	Annual Cost [\$]
Interior Lighting	270.3	22
Exterior Lighting	22.7	2
Garage Lighting	0.0	0
Total	293.0	24

FOSSIL FUEL APPLIANCES

Appliance Type

	Consumption [MBtu/Year]	Annual Cost [\$]
Clothes Dryer	0.0	0
Range/Oven	2.8	21
Total	2.8	21

ELECTRIC APPLIANCES

Appliance Type

	Consumption [kWh/Year]	Annual Cost [\$]
Dishwasher	107.4	9
Range/Oven	28.0	2
Refrigerator	529.0	44
Clothes Dryer	623.9	52
Clothes Washer	83.9	7
Mechanical Ventilation	0.0	0
Ceiling Fan	86.2	7
Television	551.0	46
Miscellaneous	655.2	55
Total	2,664.6	222

Fuel Summary

Property

Detroit Housing Commission, MI
, MI 48207

Brewster Douglas-RH-3BR

Organization

Fox Energy Specialists
James Rodriguez

Builder

Detroit Housing Commission,
MI

Inspection Status

Results are projected



Annual Energy Cost

Natural Gas	\$566
Electric	\$392

Annual End-Use Cost

Heating	\$384
Cooling	\$0
Water Heating	\$139
Lights & Appliances	\$310
Onsite Generation	-\$0
Service Charges	\$124
Total	\$957

Annual End-Use Consumption

Heating [Natural Gas Therms]	457.7
Heating [Electric kWh]	497.6
Hot Water [Natural Gas Therms]	185.7
Lights & Appliances [Natural Gas Therms]	30.7
Lights & Appliances [Electric kWh]	3,446.6
Total [Natural Gas Therms]	674.2
Total [Electric kWh]	3,944.2
Total Onsite Generation [Electric kWh]	0.0

Peak Electric Consumption

Peak Winter kW	0.50
Peak Summer kW	0.60

Utility Rates

Electricity	Default Electric Provider
Natural Gas	Default Gas Provider

Lighting and Appliances

Property

Detroit Housing Commission, MI
, MI 48207

Organization

Fox Energy Specialists
James Rodriguez

Inspection Status

Results are projected



Brewster Douglas-RH-3BR

Builder

Detroit Housing
Commission, MI

ANNUAL SUMMARY

Summary

	Consumption	Annual Cost [\$]
Lighting [kWh/Year]	338.7	28
Electric Appliances [kWh/Year]	3,107.8	259
Fossil Fuel Appliances [MBtu/Year]	3.1	23
Total	-	310

LIGHTING

Lighting Scheme

	Consumption [kWh/Year]	Annual Cost [\$]
Interior Lighting	314.3	26
Exterior Lighting	24.4	2
Garage Lighting	0.0	0
Total	338.7	28

FOSSIL FUEL APPLIANCES

Appliance Type

	Consumption [MBtu/Year]	Annual Cost [\$]
Clothes Dryer	0.0	0
Range/Oven	3.1	23
Total	3.1	23

ELECTRIC APPLIANCES

Appliance Type

	Consumption [kWh/Year]	Annual Cost [\$]
Dishwasher	131.1	11
Range/Oven	30.7	3
Refrigerator	529.0	44
Clothes Dryer	736.7	61
Clothes Washer	99.1	8
Mechanical Ventilation	0.0	0
Ceiling Fan	115.0	10
Television	620.0	52
Miscellaneous	846.3	70
Total	3,107.8	259

Fuel Summary

Property

Detroit Housing Commission, MI
, MI 48207

Organization

Fox Energy Specialists
James Rodriguez

Inspection Status

Results are projected



Sojourner Truth-RH-2BR

Builder

Detroit Housing Commission,
MI

Annual Energy Cost

Natural Gas	\$469
Electric	\$346

Annual End-Use Cost

Heating	\$297
Cooling	\$0
Water Heating	\$120
Lights & Appliances	\$275
Onsite Generation	-\$0
Service Charges	\$124
Total	\$816

Annual End-Use Consumption

Heating [Natural Gas Therms]	358.1
Heating [Electric kWh]	346.0
Hot Water [Natural Gas Therms]	159.7
Lights & Appliances [Natural Gas Therms]	28.0
Lights & Appliances [Electric kWh]	3,052.4
Total [Natural Gas Therms]	545.8
Total [Electric kWh]	3,398.5
Total Onsite Generation [Electric kWh]	0.0

Peak Electric Consumption

Peak Winter kW	0.42
Peak Summer kW	0.54

Utility Rates

Electricity	Default Electric Provider
Natural Gas	Default Gas Provider

Lighting and Appliances

Property

Detroit Housing Commission, MI
, MI 48207

Organization

Fox Energy Specialists
James Rodriguez

Inspection Status

Results are projected



Sojourner Truth-RH-2BR

Builder

Detroit Housing
Commission, MI

ANNUAL SUMMARY

Summary

	Consumption	Annual Cost [\$]
Lighting [kWh/Year]	387.9	32
Electric Appliances [kWh/Year]	2,664.6	222
Fossil Fuel Appliances [MBtu/Year]	2.8	21
Total	-	275

LIGHTING

Lighting Scheme

	Consumption [kWh/Year]	Annual Cost [\$]
Interior Lighting	353.9	29
Exterior Lighting	34.0	3
Garage Lighting	0.0	0
Total	387.9	32

FOSSIL FUEL APPLIANCES

Appliance Type

	Consumption [MBtu/Year]	Annual Cost [\$]
Clothes Dryer	0.0	0
Range/Oven	2.8	21
Total	2.8	21

ELECTRIC APPLIANCES

Appliance Type

	Consumption [kWh/Year]	Annual Cost [\$]
Dishwasher	107.4	9
Range/Oven	28.0	2
Refrigerator	529.0	44
Clothes Dryer	623.9	52
Clothes Washer	83.9	7
Mechanical Ventilation	0.0	0
Ceiling Fan	86.2	7
Television	551.0	46
Miscellaneous	655.2	55
Total	2,664.6	222

Fuel Summary

Property

Detroit Housing Commission, MI
, MI 48207

Organization

Fox Energy Specialists
James Rodriguez

Inspection Status

Results are projected



Sojourner Truth-RH-3BR

Builder

Detroit Housing Commission,
MI

Annual Energy Cost

Natural Gas	\$521
Electric	\$391

Annual End-Use Cost

Heating	\$331
Cooling	\$0
Water Heating	\$139
Lights & Appliances	\$319
Onsite Generation	-\$0
Service Charges	\$124
Total	\$912

Annual End-Use Consumption

Heating [Natural Gas Therms]	398.7
Heating [Electric kWh]	385.3
Hot Water [Natural Gas Therms]	185.2
Lights & Appliances [Natural Gas Therms]	30.7
Lights & Appliances [Electric kWh]	3,556.0
Total [Natural Gas Therms]	614.7
Total [Electric kWh]	3,941.3
Total Onsite Generation [Electric kWh]	0.0

Peak Electric Consumption

Peak Winter kW	0.49
Peak Summer kW	0.62

Utility Rates

Electricity	Default Electric Provider
Natural Gas	Default Gas Provider

Lighting and Appliances

Property

Detroit Housing Commission, MI
, MI 48207

Organization

Fox Energy Specialists
James Rodriguez

Inspection Status

Results are projected



Sojourner Truth-RH-3BR

Builder

Detroit Housing
Commission, MI

ANNUAL SUMMARY

Summary

	Consumption	Annual Cost [\$]
Lighting [kWh/Year]	448.2	37
Electric Appliances [kWh/Year]	3,107.8	259
Fossil Fuel Appliances [MBtu/Year]	3.1	23
Total	-	319

LIGHTING

Lighting Scheme

	Consumption [kWh/Year]	Annual Cost [\$]
Interior Lighting	411.5	34
Exterior Lighting	36.6	3
Garage Lighting	0.0	0
Total	448.2	37

FOSSIL FUEL APPLIANCES

Appliance Type

	Consumption [MBtu/Year]	Annual Cost [\$]
Clothes Dryer	0.0	0
Range/Oven	3.1	23
Total	3.1	23

ELECTRIC APPLIANCES

Appliance Type

	Consumption [kWh/Year]	Annual Cost [\$]
Dishwasher	131.1	11
Range/Oven	30.7	3
Refrigerator	529.0	44
Clothes Dryer	736.7	61
Clothes Washer	99.1	8
Mechanical Ventilation	0.0	0
Ceiling Fan	115.0	10
Television	620.0	52
Miscellaneous	846.3	70
Total	3,107.8	259

Fuel Summary

Property

Detroit Housing Commission, MI
, MI 48207

Organization

Fox Energy Specialists
James Rodriguez

Inspection Status

Results are projected



Sojourner Truth-RH-4BR

Builder

Detroit Housing Commission,
MI

Annual Energy Cost

Natural Gas	\$588
Electric	\$427

Annual End-Use Cost

Heating	\$381
Cooling	\$0
Water Heating	\$158
Lights & Appliances	\$352
Onsite Generation	-\$0
Service Charges	\$124
Total	\$1,015

Annual End-Use Consumption

Heating [Natural Gas Therms]	459.8
Heating [Electric kWh]	444.3
Hot Water [Natural Gas Therms]	210.5
Lights & Appliances [Natural Gas Therms]	33.4
Lights & Appliances [Electric kWh]	3,927.9
Total [Natural Gas Therms]	703.7
Total [Electric kWh]	4,372.2
Total Onsite Generation [Electric kWh]	0.0

Peak Electric Consumption

Peak Winter kW	0.53
Peak Summer kW	0.69

Utility Rates

Electricity	Default Electric Provider
Natural Gas	Default Gas Provider

Lighting and Appliances

Property

Detroit Housing Commission, MI
, MI 48207

Organization

Fox Energy Specialists
James Rodriguez

Inspection Status

Results are projected



Sojourner Truth-RH-4BR

Builder

Detroit Housing
Commission, MI

ANNUAL SUMMARY

Summary

	Consumption	Annual Cost [\$]
Lighting [kWh/Year]	476.9	40
Electric Appliances [kWh/Year]	3,451.0	287
Fossil Fuel Appliances [MBtu/Year]	3.3	25
Total	-	352

LIGHTING

Lighting Scheme

	Consumption [kWh/Year]	Annual Cost [\$]
Interior Lighting	439.0	37
Exterior Lighting	37.9	3
Garage Lighting	0.0	0
Total	476.9	40

FOSSIL FUEL APPLIANCES

Appliance Type

	Consumption [MBtu/Year]	Annual Cost [\$]
Clothes Dryer	0.0	0
Range/Oven	3.3	25
Total	3.3	25

ELECTRIC APPLIANCES

Appliance Type

	Consumption [kWh/Year]	Annual Cost [\$]
Dishwasher	154.8	13
Range/Oven	33.4	3
Refrigerator	529.0	44
Clothes Dryer	849.6	71
Clothes Washer	114.2	10
Mechanical Ventilation	0.0	0
Ceiling Fan	143.7	12
Television	689.0	57
Miscellaneous	937.3	78
Total	3,451.0	287

Fuel Summary

Property

Detroit Housing Commission, MI
, MI 48207

Diggs-RH-3BR

Organization

Fox Energy Specialists
James Rodriguez

Inspection Status

Results are projected



Builder

Detroit Housing Commission,
MI

Annual Energy Cost

Natural Gas	\$566
Electric	\$392

Annual End-Use Cost

Heating	\$384
Cooling	\$0
Water Heating	\$139
Lights & Appliances	\$310
Onsite Generation	-\$0
Service Charges	\$124
Total	\$957

Annual End-Use Consumption

Heating [Natural Gas Therms]	457.7
Heating [Electric kWh]	497.6
Hot Water [Natural Gas Therms]	185.7
Lights & Appliances [Natural Gas Therms]	30.7
Lights & Appliances [Electric kWh]	3,446.6
Total [Natural Gas Therms]	674.2
Total [Electric kWh]	3,944.2
Total Onsite Generation [Electric kWh]	0.0

Peak Electric Consumption

Peak Winter kW	0.50
Peak Summer kW	0.60

Utility Rates

Electricity	Default Electric Provider
Natural Gas	Default Gas Provider

Lighting and Appliances

Property

Detroit Housing Commission, MI
, MI 48207

Diggs-RH-3BR

Organization

Fox Energy Specialists
James Rodriguez

Builder

Detroit Housing
Commission, MI

Inspection Status

Results are projected



ANNUAL SUMMARY

Summary

	Consumption	Annual Cost [\$]
Lighting [kWh/Year]	338.7	28
Electric Appliances [kWh/Year]	3,107.8	259
Fossil Fuel Appliances [MBtu/Year]	3.1	23
Total	-	310

LIGHTING

Lighting Scheme

	Consumption [kWh/Year]	Annual Cost [\$]
Interior Lighting	314.3	26
Exterior Lighting	24.4	2
Garage Lighting	0.0	0
Total	338.7	28

FOSSIL FUEL APPLIANCES

Appliance Type

	Consumption [MBtu/Year]	Annual Cost [\$]
Clothes Dryer	0.0	0
Range/Oven	3.1	23
Total	3.1	23

ELECTRIC APPLIANCES

Appliance Type

	Consumption [kWh/Year]	Annual Cost [\$]
Dishwasher	131.1	11
Range/Oven	30.7	3
Refrigerator	529.0	44
Clothes Dryer	736.7	61
Clothes Washer	99.1	8
Mechanical Ventilation	0.0	0
Ceiling Fan	115.0	10
Television	620.0	52
Miscellaneous	846.3	70
Total	3,107.8	259

Fuel Summary

Property

Detroit Housing Commission, MI
, MI 48207

Diggs-RH-4BR

Organization

Fox Energy Specialists
James Rodriguez

Inspection Status

Results are projected



Builder

Detroit Housing Commission,
MI

Annual Energy Cost

Natural Gas	\$605
Electric	\$424

Annual End-Use Cost

Heating	\$405
Cooling	\$0
Water Heating	\$158
Lights & Appliances	\$342
Onsite Generation	-\$0
Service Charges	\$124
Total	\$1,029

Annual End-Use Consumption

Heating [Natural Gas Therms]	482.6
Heating [Electric kWh]	524.6
Hot Water [Natural Gas Therms]	210.5
Lights & Appliances [Natural Gas Therms]	33.4
Lights & Appliances [Electric kWh]	3,811.6
Total [Natural Gas Therms]	726.5
Total [Electric kWh]	4,336.2
Total Onsite Generation [Electric kWh]	0.0

Peak Electric Consumption

Peak Winter kW	0.55
Peak Summer kW	0.67

Utility Rates

Electricity	Default Electric Provider
Natural Gas	Default Gas Provider

Lighting and Appliances

Property

Detroit Housing Commission, MI
, MI 48207

Diggs-RH-4BR

Organization

Fox Energy Specialists
James Rodriguez

Builder

Detroit Housing
Commission, MI

Inspection Status

Results are projected



ANNUAL SUMMARY

Summary

	Consumption	Annual Cost [\$]
Lighting [kWh/Year]	360.6	30
Electric Appliances [kWh/Year]	3,451.0	287
Fossil Fuel Appliances [MBtu/Year]	3.3	25
Total	-	342

LIGHTING

Lighting Scheme

	Consumption [kWh/Year]	Annual Cost [\$]
Interior Lighting	335.3	28
Exterior Lighting	25.3	2
Garage Lighting	0.0	0
Total	360.6	30

FOSSIL FUEL APPLIANCES

Appliance Type

	Consumption [MBtu/Year]	Annual Cost [\$]
Clothes Dryer	0.0	0
Range/Oven	3.3	25
Total	3.3	25

ELECTRIC APPLIANCES

Appliance Type

	Consumption [kWh/Year]	Annual Cost [\$]
Dishwasher	154.8	13
Range/Oven	33.4	3
Refrigerator	529.0	44
Clothes Dryer	849.6	71
Clothes Washer	114.2	10
Mechanical Ventilation	0.0	0
Ceiling Fan	143.7	12
Television	689.0	57
Miscellaneous	937.3	78
Total	3,451.0	287

Fuel Summary

Property

Detroit Housing Commission, MI
, MI 48207
Model: RH-5BR

Organization

Fox Energy Specialists
James Rodriguez

Inspection Status

Results are projected



Builder

Detroit Housing Commission,
MI

Annual Energy Cost

Natural Gas	\$694
Electric	\$482

Annual End-Use Cost

Heating	\$482
Cooling	\$0
Water Heating	\$176
Lights & Appliances	\$393
Onsite Generation	-\$0
Service Charges	\$124
Total	\$1,176

Annual End-Use Consumption

Heating [Natural Gas Therms]	574.5
Heating [Electric kWh]	624.5
Hot Water [Natural Gas Therms]	234.9
Lights & Appliances [Natural Gas Therms]	36.1
Lights & Appliances [Electric kWh]	4,404.5
Total [Natural Gas Therms]	845.5
Total [Electric kWh]	5,029.0
Total Onsite Generation [Electric kWh]	0.0

Peak Electric Consumption

Peak Winter kW	0.64
Peak Summer kW	0.77

Utility Rates

Electricity	Default Electric Provider
Natural Gas	Default Gas Provider

Lighting and Appliances

**Property**

Detroit Housing Commission, MI
, MI 48207
Model: RH-5BR

Organization

Fox Energy Specialists
James Rodriguez

Inspection Status

Results are projected

Builder

Detroit Housing
Commission, MI

ANNUAL SUMMARY

Summary

	Consumption	Annual Cost [\$]
Lighting [kWh/Year]	426.4	35
Electric Appliances [kWh/Year]	3,978.0	331
Fossil Fuel Appliances [MBtu/Year]	3.6	27
Total	-	393

LIGHTING

Lighting Scheme

	Consumption [kWh/Year]	Annual Cost [\$]
Interior Lighting	398.6	33
Exterior Lighting	27.8	2
Garage Lighting	0.0	0
Total	426.4	35

FOSSIL FUEL APPLIANCES

Appliance Type

	Consumption [MBtu/Year]	Annual Cost [\$]
Clothes Dryer	0.0	0
Range/Oven	3.6	27
Total	3.6	27

ELECTRIC APPLIANCES

Appliance Type

	Consumption [kWh/Year]	Annual Cost [\$]
Dishwasher	178.5	15
Range/Oven	36.1	3
Refrigerator	529.0	44
Clothes Dryer	962.5	80
Clothes Washer	129.4	11
Mechanical Ventilation	0.0	0
Ceiling Fan	172.5	14
Television	758.0	63
Miscellaneous	1,212.1	101
Total	3,978.0	331

Fuel Summary

Property

Detroit Housing Commission, MI
, MI 48207

Diggs-RH_6BR

Organization

Fox Energy Specialists
James Rodriguez

Inspection Status

Results are projected



Builder

Detroit Housing Commission,
MI

Annual Energy Cost

Natural Gas	\$780
Electric	\$520

Annual End-Use Cost

Heating	\$556
Cooling	\$0
Water Heating	\$194
Lights & Appliances	\$426
Onsite Generation	-\$0
Service Charges	\$124
Total	\$1,300

Annual End-Use Consumption

Heating [Natural Gas Therms]	662.6
Heating [Electric kWh]	720.3
Hot Water [Natural Gas Therms]	258.9
Lights & Appliances [Natural Gas Therms]	38.8
Lights & Appliances [Electric kWh]	4,767.2
Total [Natural Gas Therms]	960.3
Total [Electric kWh]	5,487.5
Total Onsite Generation [Electric kWh]	0.0

Peak Electric Consumption

Peak Winter kW	0.70
Peak Summer kW	0.84

Utility Rates

Electricity	Default Electric Provider
Natural Gas	Default Gas Provider

Lighting and Appliances

Property

Detroit Housing Commission, MI
, MI 48207

Organization

Fox Energy Specialists
James Rodriguez

Inspection Status

Results are projected



Diggs-RH_6BR

Builder

Detroit Housing
Commission, MI

ANNUAL SUMMARY

Summary

	Consumption	Annual Cost [\$]
Lighting [kWh/Year]	447.8	37
Electric Appliances [kWh/Year]	4,319.4	359
Fossil Fuel Appliances [MBtu/Year]	3.9	29
Total	-	426

LIGHTING

Lighting Scheme

	Consumption [kWh/Year]	Annual Cost [\$]
Interior Lighting	419.2	35
Exterior Lighting	28.6	2
Garage Lighting	0.0	0
Total	447.8	37

FOSSIL FUEL APPLIANCES

Appliance Type

	Consumption [MBtu/Year]	Annual Cost [\$]
Clothes Dryer	0.0	0
Range/Oven	3.9	29
Total	3.9	29

ELECTRIC APPLIANCES

Appliance Type

	Consumption [kWh/Year]	Annual Cost [\$]
Dishwasher	202.1	17
Range/Oven	38.8	3
Refrigerator	529.0	44
Clothes Dryer	1,075.4	89
Clothes Washer	144.6	12
Mechanical Ventilation	0.0	0
Ceiling Fan	201.2	17
Television	827.0	69
Miscellaneous	1,301.3	108
Total	4,319.4	359

Fuel Summary

Property

Detroit Housing Commission, MI
Lansing, MI 48933
Model: DH_2BR

Organization

Fox Energy Specialists
James Rodriguez

Inspection Status

Results are projected



Builder

Detroit Housing Commission,
MI

Scattered Sites West, East, Central-All
Gas_DH_2BR

Annual Energy Cost

Natural Gas	\$949
Electric	\$380

Annual End-Use Cost

Heating	\$805
Cooling	\$0
Water Heating	\$177
Lights & Appliances	\$284
Onsite Generation	-\$0
Service Charges	\$64
Total	\$1,329

Annual End-Use Consumption

Heating [Natural Gas Therms]	700.4
Heating [Electric kWh]	761.4
Hot Water [Natural Gas Therms]	166.7
Lights & Appliances [Natural Gas Therms]	28.0
Lights & Appliances [Electric kWh]	3,052.4
Total [Natural Gas Therms]	895.1
Total [Electric kWh]	3,813.8
Total Onsite Generation [Electric kWh]	0.0

Peak Electric Consumption

Peak Winter kW	0.53
Peak Summer kW	0.54

Utility Rates

Electricity	Default Electric Provider
Natural Gas	PG&E Natural Gas

Lighting and Appliances



Property

Detroit Housing Commission, MI
Lansing, MI 48933
Model: DH_2BR

Organization

Fox Energy Specialists
James Rodriguez

Inspection Status

Results are projected

Builder

Scattered Sites West, East, Central-All
Gas_DH_2BR

Detroit Housing
Commission, MI

ANNUAL SUMMARY

Summary

	Consumption	Annual Cost [\$]
Lighting [kWh/Year]	387.9	32
Electric Appliances [kWh/Year]	2,664.6	222
Fossil Fuel Appliances [MBtu/Year]	2.8	30
Total	-	284

LIGHTING

Lighting Scheme

	Consumption [kWh/Year]	Annual Cost [\$]
Interior Lighting	353.9	29
Exterior Lighting	34.0	3
Garage Lighting	0.0	0
Total	387.9	32

FOSSIL FUEL APPLIANCES

Appliance Type

	Consumption [MBtu/Year]	Annual Cost [\$]
Clothes Dryer	0.0	0
Range/Oven	2.8	30
Total	2.8	30

ELECTRIC APPLIANCES

Appliance Type

	Consumption [kWh/Year]	Annual Cost [\$]
Dishwasher	107.4	9
Range/Oven	28.0	2
Refrigerator	529.0	44
Clothes Dryer	623.9	52
Clothes Washer	83.9	7
Mechanical Ventilation	0.0	0
Ceiling Fan	86.2	7
Television	551.0	46
Miscellaneous	655.2	55
Total	2,664.6	222

Fuel Summary

Property

Detroit Housing Commission, MI
, MI 48207
Model: DH_3BR

Organization

Fox Energy Specialists
James Rodriguez

Inspection Status

Results are projected



Builder

Detroit Housing Commission,
MI

Scattered Sites West, East, Central-All
Gas_DH_3BR

Annual Energy Cost

Natural Gas	\$539
Electric	\$408

Annual End-Use Cost

Heating	\$435
Cooling	\$0
Water Heating	\$93
Lights & Appliances	\$299
Onsite Generation	-\$0
Service Charges	\$120
Total	\$947

Annual End-Use Consumption

Heating [Natural Gas Therms]	740.7
Heating [Electric kWh]	805.2
Hot Water [Natural Gas Therms]	186.3
Lights & Appliances [Natural Gas Therms]	30.7
Lights & Appliances [Electric kWh]	3,550.0
Total [Natural Gas Therms]	957.7
Total [Electric kWh]	4,355.2
Total Onsite Generation [Electric kWh]	0.0

Peak Electric Consumption

Peak Winter kW	0.60
Peak Summer kW	0.62

Utility Rates

Electricity	Default Electric Provider
Natural Gas	Default Gas Provider

Lighting and Appliances



Property

Detroit Housing Commission, MI
 , MI 48207
 Model: DH_3BR

Organization

Fox Energy Specialists
 James Rodriguez

Inspection Status

Results are projected

Builder

Detroit Housing
 Commission, MI

ANNUAL SUMMARY

Summary

	Consumption	Annual Cost [\$]
Lighting [kWh/Year]	446.7	36
Electric Appliances [kWh/Year]	3,103.3	248
Fossil Fuel Appliances [MBtu/Year]	3.1	15
Total	-	299

LIGHTING

Lighting Scheme

	Consumption [kWh/Year]	Annual Cost [\$]
Interior Lighting	410.2	33
Exterior Lighting	36.6	3
Garage Lighting	0.0	0
Total	446.7	36

FOSSIL FUEL APPLIANCES

Appliance Type

	Consumption [MBtu/Year]	Annual Cost [\$]
Clothes Dryer	0.0	0
Range/Oven	3.1	15
Total	3.1	15

ELECTRIC APPLIANCES

Appliance Type

	Consumption [kWh/Year]	Annual Cost [\$]
Dishwasher	131.1	10
Range/Oven	30.7	2
Refrigerator	529.0	42
Clothes Dryer	736.7	59
Clothes Washer	99.1	8
Mechanical Ventilation	0.0	0
Ceiling Fan	115.0	9
Television	620.0	50
Miscellaneous	841.8	67
Total	3,103.3	248

Fuel Summary

Property

Detroit Housing Commission, MI
, MI 48207
Model: DH_4BR

Organization

Fox Energy Specialists
James Rodriguez

Inspection Status

Results are projected



Builder

Scattered Sites West, East, Central-All Gas_DH_
Scattered Sites West, East, Central-All Gas_4BR MI
Detroit Housing Commission,

Annual Energy Cost

Natural Gas	\$888
Electric	\$476

Annual End-Use Cost

Heating	\$721
Cooling	\$0
Water Heating	\$158
Lights & Appliances	\$361
Onsite Generation	-\$0
Service Charges	\$124
Total	\$1,365

Annual End-Use Consumption

Heating [Natural Gas Therms]	859.6
Heating [Electric kWh]	934.4
Hot Water [Natural Gas Therms]	211.1
Lights & Appliances [Natural Gas Therms]	33.4
Lights & Appliances [Electric kWh]	4,036.9
Total [Natural Gas Therms]	1,104.1
Total [Electric kWh]	4,971.3
Total Onsite Generation [Electric kWh]	0.0

Peak Electric Consumption

Peak Winter kW	0.69
Peak Summer kW	0.71

Utility Rates

Electricity	Default Electric Provider
Natural Gas	Default Gas Provider

Lighting and Appliances



Property

Detroit Housing Commission, MI
, MI 48207
Model: DH_4BR

Organization

Fox Energy Specialists
James Rodriguez

Inspection Status

Results are projected

Builder

Scattered Sites West, East, Central-All Gas
Scattered Sites West, East, Central-All Gas
Detroit Housing
Commission, MI

ANNUAL SUMMARY

Summary

	Consumption	Annual Cost [\$]
Lighting [kWh/Year]	503.0	42
Electric Appliances [kWh/Year]	3,533.8	294
Fossil Fuel Appliances [MBtu/Year]	3.3	25
Total	-	361

LIGHTING

Lighting Scheme

	Consumption [kWh/Year]	Annual Cost [\$]
Interior Lighting	464.0	39
Exterior Lighting	39.0	3
Garage Lighting	0.0	0
Total	503.0	42

FOSSIL FUEL APPLIANCES

Appliance Type

	Consumption [MBtu/Year]	Annual Cost [\$]
Clothes Dryer	0.0	0
Range/Oven	3.3	25
Total	3.3	25

ELECTRIC APPLIANCES

Appliance Type

	Consumption [kWh/Year]	Annual Cost [\$]
Dishwasher	154.8	13
Range/Oven	33.4	3
Refrigerator	529.0	44
Clothes Dryer	849.6	71
Clothes Washer	114.2	10
Mechanical Ventilation	0.0	0
Ceiling Fan	143.7	12
Television	689.0	57
Miscellaneous	1,020.1	85
Total	3,533.8	294

Fuel Summary

Property

Detroit Housing Commission, MI
, MI 48933
Model: DH_5BR

Organization

Fox Energy Specialists
James Rodriguez

Inspection Status

Results are projected



Builder

Detroit Housing Commission,
MI

Scattered Sites West, East, Central-All
Gas_DH_5BR

Annual Energy Cost

Natural Gas	\$950
Electric	\$521

Annual End-Use Cost

Heating	\$760
Cooling	\$0
Water Heating	\$184
Lights & Appliances	\$404
Onsite Generation	-\$0
Service Charges	\$124
Total	\$1,472

Annual End-Use Consumption

Heating [Natural Gas Therms]	905.2
Heating [Electric kWh]	984.0
Hot Water [Natural Gas Therms]	245.7
Lights & Appliances [Natural Gas Therms]	36.1
Lights & Appliances [Electric kWh]	4,527.3
Total [Natural Gas Therms]	1,187.0
Total [Electric kWh]	5,511.2
Total Onsite Generation [Electric kWh]	0.0

Peak Electric Consumption

Peak Winter kW	0.73
Peak Summer kW	0.79

Utility Rates

Electricity	Default Electric Provider
Natural Gas	Default Gas Provider

Lighting and Appliances



Property

Detroit Housing Commission, MI
, MI 48933
Model: DH_5BR

Organization

Fox Energy Specialists
James Rodriguez

Inspection Status

Results are projected

Builder

Detroit Housing
Commission, MI

ANNUAL SUMMARY

Summary

	Consumption	Annual Cost [\$]
Lighting [kWh/Year]	560.1	47
Electric Appliances [kWh/Year]	3,967.1	330
Fossil Fuel Appliances [MBtu/Year]	3.6	27
Total	-	404

LIGHTING

Lighting Scheme

	Consumption [kWh/Year]	Annual Cost [\$]
Interior Lighting	518.6	43
Exterior Lighting	41.5	3
Garage Lighting	0.0	0
Total	560.1	47

FOSSIL FUEL APPLIANCES

Appliance Type

	Consumption [MBtu/Year]	Annual Cost [\$]
Clothes Dryer	0.0	0
Range/Oven	3.6	27
Total	3.6	27

ELECTRIC APPLIANCES

Appliance Type

	Consumption [kWh/Year]	Annual Cost [\$]
Dishwasher	178.5	15
Range/Oven	36.1	3
Refrigerator	529.0	44
Clothes Dryer	962.5	80
Clothes Washer	129.4	11
Mechanical Ventilation	0.0	0
Ceiling Fan	172.5	14
Television	758.0	63
Miscellaneous	1,201.2	100
Total	3,967.1	330

Fuel Summary

Property

Detroit Housing Commission, MI
, MI 48207
Model: DH_6BR

Organization

Fox Energy Specialists
James Rodriguez

Inspection Status

Results are projected



Builder

Detroit Housing Commission,
MI

Scattered Sites-All Gas_DH_6BR

Annual Energy Cost

Natural Gas	\$1,337
Electric	\$558

Annual End-Use Cost

Heating	\$1,106
Cooling	\$0
Water Heating	\$275
Lights & Appliances	\$449
Onsite Generation	-\$0
Service Charges	\$64
Total	\$1,895

Annual End-Use Consumption

Heating [Natural Gas Therms]	963.1
Heating [Electric kWh]	1,046.9
Hot Water [Natural Gas Therms]	259.6
Lights & Appliances [Natural Gas Therms]	38.8
Lights & Appliances [Electric kWh]	4,911.1
Total [Natural Gas Therms]	1,261.5
Total [Electric kWh]	5,958.1
Total Onsite Generation [Electric kWh]	0.0

Peak Electric Consumption

Peak Winter kW	0.80
Peak Summer kW	0.86

Utility Rates

Electricity	Default Electric Provider
Natural Gas	PG&E Natural Gas

Lighting and Appliances



Property

Detroit Housing Commission, MI
, MI 48207
Model: DH_6BR

Organization

Fox Energy Specialists
James Rodriguez

Inspection Status

Results are projected

Builder

Detroit Housing
Commission, MI

ANNUAL SUMMARY

Summary

	Consumption	Annual Cost [\$]
Lighting [kWh/Year]	591.7	49
Electric Appliances [kWh/Year]	4,319.4	359
Fossil Fuel Appliances [MBtu/Year]	3.9	41
Total	-	449

LIGHTING

Lighting Scheme

	Consumption [kWh/Year]	Annual Cost [\$]
Interior Lighting	548.8	46
Exterior Lighting	42.9	4
Garage Lighting	0.0	0
Total	591.7	49

FOSSIL FUEL APPLIANCES

Appliance Type

	Consumption [MBtu/Year]	Annual Cost [\$]
Clothes Dryer	0.0	0
Range/Oven	3.9	41
Total	3.9	41

ELECTRIC APPLIANCES

Appliance Type

	Consumption [kWh/Year]	Annual Cost [\$]
Dishwasher	202.1	17
Range/Oven	38.8	3
Refrigerator	529.0	44
Clothes Dryer	1,075.4	89
Clothes Washer	144.6	12
Mechanical Ventilation	0.0	0
Ceiling Fan	201.2	17
Television	827.0	69
Miscellaneous	1,301.3	108
Total	4,319.4	359

Fuel Summary

Property

Detroit Housing Commission, MI
Lansing, MI 48933
Model: DH_2BR

Organization

Fox Energy Specialists
James Rodriguez

Inspection Status

Results are projected



Builder

Detroit Housing Commission,
MI

Scattered Sites-Boiler H_DH_2BR

Annual Energy Cost

Natural Gas	\$857
Electric	\$321

Annual End-Use Cost

Heating	\$654
Cooling	\$0
Water Heating	\$177
Lights & Appliances	\$284
Onsite Generation	-\$0
Service Charges	\$64
Total	\$1,178

Annual End-Use Consumption

Heating [Natural Gas Therms]	613.6
Heating [Electric kWh]	40.2
Hot Water [Natural Gas Therms]	166.7
Lights & Appliances [Natural Gas Therms]	28.0
Lights & Appliances [Electric kWh]	3,052.4
Total [Natural Gas Therms]	808.3
Total [Electric kWh]	3,092.7
Total Onsite Generation [Electric kWh]	0.0

Peak Electric Consumption

Peak Winter kW	0.31
Peak Summer kW	0.54

Utility Rates

Electricity	Default Electric Provider
Natural Gas	PG&E Natural Gas

Lighting and Appliances



Property

Detroit Housing Commission, MI
Lansing, MI 48933
Model: DH_2BR

Organization

Fox Energy Specialists
James Rodriguez

Inspection Status

Results are projected

Builder

Detroit Housing
Commission, MI

ANNUAL SUMMARY

Summary

	Consumption	Annual Cost [\$]
Lighting [kWh/Year]	387.9	32
Electric Appliances [kWh/Year]	2,664.6	222
Fossil Fuel Appliances [MBtu/Year]	2.8	30
Total	-	284

LIGHTING

Lighting Scheme

	Consumption [kWh/Year]	Annual Cost [\$]
Interior Lighting	353.9	29
Exterior Lighting	34.0	3
Garage Lighting	0.0	0
Total	387.9	32

FOSSIL FUEL APPLIANCES

Appliance Type

	Consumption [MBtu/Year]	Annual Cost [\$]
Clothes Dryer	0.0	0
Range/Oven	2.8	30
Total	2.8	30

ELECTRIC APPLIANCES

Appliance Type

	Consumption [kWh/Year]	Annual Cost [\$]
Dishwasher	107.4	9
Range/Oven	28.0	2
Refrigerator	529.0	44
Clothes Dryer	623.9	52
Clothes Washer	83.9	7
Mechanical Ventilation	0.0	0
Ceiling Fan	86.2	7
Television	551.0	46
Miscellaneous	655.2	55
Total	2,664.6	222

Fuel Summary

Property

Detroit Housing Commission, MI
, MI 48207
Model: DH_3BR

Organization

Fox Energy Specialists
James Rodriguez

Inspection Status

Results are projected



Builder

Detroit Housing Commission,
MI

Scattered Sites East, Central-Boiler
H_DH_3BR

Annual Energy Cost

Natural Gas	\$493
Electric	\$347

Annual End-Use Cost

Heating	\$328
Cooling	\$0
Water Heating	\$93
Lights & Appliances	\$299
Onsite Generation	-\$0
Service Charges	\$120
Total	\$840

Annual End-Use Consumption

Heating [Natural Gas Therms]	648.9
Heating [Electric kWh]	42.5
Hot Water [Natural Gas Therms]	186.3
Lights & Appliances [Natural Gas Therms]	30.7
Lights & Appliances [Electric kWh]	3,550.0
Total [Natural Gas Therms]	865.9
Total [Electric kWh]	3,592.6
Total Onsite Generation [Electric kWh]	0.0

Peak Electric Consumption

Peak Winter kW	0.35
Peak Summer kW	0.62

Utility Rates

Electricity	Default Electric Provider
Natural Gas	Default Gas Provider

Lighting and Appliances



Property

Detroit Housing Commission, MI
 , MI 48207
 Model: DH_3BR

Organization

Fox Energy Specialists
 James Rodriguez

Inspection Status

Results are projected

Builder

Detroit Housing
 Commission, MI

ANNUAL SUMMARY

Summary

	Consumption	Annual Cost [\$]
Lighting [kWh/Year]	446.7	36
Electric Appliances [kWh/Year]	3,103.3	248
Fossil Fuel Appliances [MBtu/Year]	3.1	15
Total	-	299

LIGHTING

Lighting Scheme

	Consumption [kWh/Year]	Annual Cost [\$]
Interior Lighting	410.2	33
Exterior Lighting	36.6	3
Garage Lighting	0.0	0
Total	446.7	36

FOSSIL FUEL APPLIANCES

Appliance Type

	Consumption [MBtu/Year]	Annual Cost [\$]
Clothes Dryer	0.0	0
Range/Oven	3.1	15
Total	3.1	15

ELECTRIC APPLIANCES

Appliance Type

	Consumption [kWh/Year]	Annual Cost [\$]
Dishwasher	131.1	10
Range/Oven	30.7	2
Refrigerator	529.0	42
Clothes Dryer	736.7	59
Clothes Washer	99.1	8
Mechanical Ventilation	0.0	0
Ceiling Fan	115.0	9
Television	620.0	50
Miscellaneous	841.8	67
Total	3,103.3	248

Fuel Summary

Property

Detroit Housing Commission, MI
, MI 48207
Model: DH_4BR

Organization

Fox Energy Specialists
James Rodriguez

Inspection Status

Results are projected



Builder

Scattered Sites East, Central-Boiler H_DH_4BR
Scattered Sites East, Central-Boiler H_4BR

Detroit Housing Commission,
MI

Annual Energy Cost

Natural Gas	\$808
Electric	\$404

Annual End-Use Cost

Heating	\$569
Cooling	\$0
Water Heating	\$158
Lights & Appliances	\$361
Onsite Generation	-\$0
Service Charges	\$124
Total	\$1,212

Annual End-Use Consumption

Heating [Natural Gas Therms]	753.1
Heating [Electric kWh]	49.4
Hot Water [Natural Gas Therms]	211.1
Lights & Appliances [Natural Gas Therms]	33.4
Lights & Appliances [Electric kWh]	4,036.9
Total [Natural Gas Therms]	997.6
Total [Electric kWh]	4,086.2
Total Onsite Generation [Electric kWh]	0.0

Peak Electric Consumption

Peak Winter kW	0.40
Peak Summer kW	0.71

Utility Rates

Electricity	Default Electric Provider
Natural Gas	Default Gas Provider

Lighting and Appliances



Property

Detroit Housing Commission, MI
, MI 48207
Model: DH_4BR

Organization

Fox Energy Specialists
James Rodriguez

Inspection Status

Results are projected

Builder

Scattered Sites East, Central-Boiler H_DH_
Scattered Sites East, Central-Boiler H_4BR

Detroit Housing
Commission, MI

ANNUAL SUMMARY

Summary

	Consumption	Annual Cost [\$]
Lighting [kWh/Year]	503.0	42
Electric Appliances [kWh/Year]	3,533.8	294
Fossil Fuel Appliances [MBtu/Year]	3.3	25
Total	-	361

LIGHTING

Lighting Scheme

	Consumption [kWh/Year]	Annual Cost [\$]
Interior Lighting	464.0	39
Exterior Lighting	39.0	3
Garage Lighting	0.0	0
Total	503.0	42

FOSSIL FUEL APPLIANCES

Appliance Type

	Consumption [MBtu/Year]	Annual Cost [\$]
Clothes Dryer	0.0	0
Range/Oven	3.3	25
Total	3.3	25

ELECTRIC APPLIANCES

Appliance Type

	Consumption [kWh/Year]	Annual Cost [\$]
Dishwasher	154.8	13
Range/Oven	33.4	3
Refrigerator	529.0	44
Clothes Dryer	849.6	71
Clothes Washer	114.2	10
Mechanical Ventilation	0.0	0
Ceiling Fan	143.7	12
Television	689.0	57
Miscellaneous	1,020.1	85
Total	3,533.8	294

Fuel Summary

Property

Detroit Housing Commission, MI
, MI 48933
Model: DH_5BR

Organization

Fox Energy Specialists
James Rodriguez

Inspection Status

Results are projected



Builder

Detroit Housing Commission,
MI

Scattered Sites-Boiler H_DH_5BR

Annual Energy Cost

Natural Gas	\$866
Electric	\$445

Annual End-Use Cost

Heating	\$599
Cooling	\$0
Water Heating	\$184
Lights & Appliances	\$404
Onsite Generation	-\$0
Service Charges	\$124
Total	\$1,311

Annual End-Use Consumption

Heating [Natural Gas Therms]	793.0
Heating [Electric kWh]	52.0
Hot Water [Natural Gas Therms]	245.7
Lights & Appliances [Natural Gas Therms]	36.1
Lights & Appliances [Electric kWh]	4,527.3
Total [Natural Gas Therms]	1,074.8
Total [Electric kWh]	4,579.3
Total Onsite Generation [Electric kWh]	0.0

Peak Electric Consumption

Peak Winter kW	0.45
Peak Summer kW	0.79

Utility Rates

Electricity	Default Electric Provider
Natural Gas	Default Gas Provider

Lighting and Appliances



Property

Detroit Housing Commission, MI
, MI 48933
Model: DH_5BR

Organization

Fox Energy Specialists
James Rodriguez

Inspection Status

Results are projected

Builder

Detroit Housing
Commission, MI

ANNUAL SUMMARY

Summary

	Consumption	Annual Cost [\$]
Lighting [kWh/Year]	560.1	47
Electric Appliances [kWh/Year]	3,967.1	330
Fossil Fuel Appliances [MBtu/Year]	3.6	27
Total	-	404

LIGHTING

Lighting Scheme

	Consumption [kWh/Year]	Annual Cost [\$]
Interior Lighting	518.6	43
Exterior Lighting	41.5	3
Garage Lighting	0.0	0
Total	560.1	47

FOSSIL FUEL APPLIANCES

Appliance Type

	Consumption [MBtu/Year]	Annual Cost [\$]
Clothes Dryer	0.0	0
Range/Oven	3.6	27
Total	3.6	27

ELECTRIC APPLIANCES

Appliance Type

	Consumption [kWh/Year]	Annual Cost [\$]
Dishwasher	178.5	15
Range/Oven	36.1	3
Refrigerator	529.0	44
Clothes Dryer	962.5	80
Clothes Washer	129.4	11
Mechanical Ventilation	0.0	0
Ceiling Fan	172.5	14
Television	758.0	63
Miscellaneous	1,201.2	100
Total	3,967.1	330

Fuel Summary

Property

Detroit Housing Commission, MI
, MI 48207
Model: DH_6BR

Organization

Fox Energy Specialists
James Rodriguez

Inspection Status

Results are projected



Builder

Detroit Housing Commission,
MI

Scattered Sites-Boiler H_DH_6BR

Annual Energy Cost

Natural Gas	\$1,211
Electric	\$477

Annual End-Use Cost

Heating	\$899
Cooling	\$0
Water Heating	\$275
Lights & Appliances	\$450
Onsite Generation	-\$0
Service Charges	\$64
Total	\$1,688

Annual End-Use Consumption

Heating [Natural Gas Therms]	843.7
Heating [Electric kWh]	55.3
Hot Water [Natural Gas Therms]	259.6
Lights & Appliances [Natural Gas Therms]	38.8
Lights & Appliances [Electric kWh]	4,911.1
Total [Natural Gas Therms]	1,142.1
Total [Electric kWh]	4,966.5
Total Onsite Generation [Electric kWh]	0.0

Peak Electric Consumption

Peak Winter kW	0.49
Peak Summer kW	0.86

Utility Rates

Electricity	Default Electric Provider
Natural Gas	PG&E Natural Gas

Lighting and Appliances



Property

Detroit Housing Commission, MI
, MI 48207
Model: DH_6BR

Organization

Fox Energy Specialists
James Rodriguez

Inspection Status

Results are projected

Builder

Detroit Housing
Commission, MI

ANNUAL SUMMARY

Summary

	Consumption	Annual Cost [\$]
Lighting [kWh/Year]	591.7	49
Electric Appliances [kWh/Year]	4,319.4	359
Fossil Fuel Appliances [MBtu/Year]	3.9	41
Total	-	450

LIGHTING

Lighting Scheme

	Consumption [kWh/Year]	Annual Cost [\$]
Interior Lighting	548.8	46
Exterior Lighting	42.9	4
Garage Lighting	0.0	0
Total	591.7	49

FOSSIL FUEL APPLIANCES

Appliance Type

	Consumption [MBtu/Year]	Annual Cost [\$]
Clothes Dryer	0.0	0
Range/Oven	3.9	41
Total	3.9	41

ELECTRIC APPLIANCES

Appliance Type

	Consumption [kWh/Year]	Annual Cost [\$]
Dishwasher	202.1	17
Range/Oven	38.8	3
Refrigerator	529.0	44
Clothes Dryer	1,075.4	89
Clothes Washer	144.6	12
Mechanical Ventilation	0.0	0
Ceiling Fan	201.2	17
Television	827.0	69
Miscellaneous	1,301.3	108
Total	4,319.4	359

Fuel Summary

Property

Detroit Housing Commission, MI
Lansing, MI 48933
Model: DH_2BR

Organization

Fox Energy Specialists
James Rodriguez

Inspection Status

Results are projected



Builder

Detroit Housing Commission,
MI

Scattered Sites West, East, Central-E
Stove_DH_2BR

Annual Energy Cost

Natural Gas	\$928
Electric	\$413

Annual End-Use Cost

Heating	\$814
Cooling	\$0
Water Heating	\$177
Lights & Appliances	\$286
Onsite Generation	-\$0
Service Charges	\$64
Total	\$1,341

Annual End-Use Consumption

Heating [Natural Gas Therms]	708.6
Heating [Electric kWh]	770.3
Hot Water [Natural Gas Therms]	166.8
Lights & Appliances [Electric kWh]	3,433.4
Total [Natural Gas Therms]	875.4
Total [Electric kWh]	4,203.7
Total Onsite Generation [Electric kWh]	0.0

Peak Electric Consumption

Peak Winter kW	0.57
Peak Summer kW	0.60

Utility Rates

Electricity	Default Electric Provider
Natural Gas	PG&E Natural Gas

Lighting and Appliances



Property

Detroit Housing Commission, MI
Lansing, MI 48933
Model: DH_2BR

Organization

Fox Energy Specialists
James Rodriguez

Inspection Status

Results are projected

Builder

Scattered Sites West, East, Central-E
Stove_DH_2BR

Detroit Housing
Commission, MI

ANNUAL SUMMARY

Summary

	Consumption	Annual Cost [\$]
Lighting [kWh/Year]	387.9	32
Electric Appliances [kWh/Year]	3,045.6	253
Fossil Fuel Appliances [MBtu/Year]	0.0	0
Total	-	286

LIGHTING

Lighting Scheme

	Consumption [kWh/Year]	Annual Cost [\$]
Interior Lighting	353.9	29
Exterior Lighting	34.0	3
Garage Lighting	0.0	0
Total	387.9	32

FOSSIL FUEL APPLIANCES

Appliance Type

	Consumption [MBtu/Year]	Annual Cost [\$]
Clothes Dryer	0.0	0
Range/Oven	0.0	0
Total	0.0	0

ELECTRIC APPLIANCES

Appliance Type

	Consumption [kWh/Year]	Annual Cost [\$]
Dishwasher	107.4	9
Range/Oven	409.0	34
Refrigerator	529.0	44
Clothes Dryer	623.9	52
Clothes Washer	83.9	7
Mechanical Ventilation	0.0	0
Ceiling Fan	86.2	7
Television	551.0	46
Miscellaneous	655.2	55
Total	3,045.6	253

Fuel Summary

Property

Detroit Housing Commission, MI
, MI 48207
Model: DH_3BR

Organization

Fox Energy Specialists
James Rodriguez

Inspection Status

Results are projected



Builder

Detroit Housing Commission,
MI

Scattered Sites West, East, Central-E
Stove_DH_3BR

Annual Energy Cost

Natural Gas	\$528
Electric	\$443

Annual End-Use Cost

Heating	\$440
Cooling	\$0
Water Heating	\$93
Lights & Appliances	\$317
Onsite Generation	-\$0
Service Charges	\$120
Total	\$970

Annual End-Use Consumption

Heating [Natural Gas Therms]	749.2
Heating [Electric kWh]	814.4
Hot Water [Natural Gas Therms]	186.4
Lights & Appliances [Electric kWh]	3,967.3
Total [Natural Gas Therms]	935.5
Total [Electric kWh]	4,781.7
Total Onsite Generation [Electric kWh]	0.0

Peak Electric Consumption

Peak Winter kW	0.64
Peak Summer kW	0.70

Utility Rates

Electricity	Default Electric Provider
Natural Gas	Default Gas Provider

Lighting and Appliances



Property

Detroit Housing Commission, MI
, MI 48207
Model: DH_3BR

Organization

Fox Energy Specialists
James Rodriguez

Inspection Status

Results are projected

Builder

Detroit Housing
Commission, MI

ANNUAL SUMMARY

Summary

	Consumption	Annual Cost [\$]
Lighting [kWh/Year]	446.7	36
Electric Appliances [kWh/Year]	3,520.6	282
Fossil Fuel Appliances [MBtu/Year]	0.0	0
Total	-	317

LIGHTING

Lighting Scheme

	Consumption [kWh/Year]	Annual Cost [\$]
Interior Lighting	410.2	33
Exterior Lighting	36.6	3
Garage Lighting	0.0	0
Total	446.7	36

FOSSIL FUEL APPLIANCES

Appliance Type

	Consumption [MBtu/Year]	Annual Cost [\$]
Clothes Dryer	0.0	0
Range/Oven	0.0	0
Total	0.0	0

ELECTRIC APPLIANCES

Appliance Type

	Consumption [kWh/Year]	Annual Cost [\$]
Dishwasher	131.1	10
Range/Oven	448.0	36
Refrigerator	529.0	42
Clothes Dryer	736.7	59
Clothes Washer	99.1	8
Mechanical Ventilation	0.0	0
Ceiling Fan	115.0	9
Television	620.0	50
Miscellaneous	841.8	67
Total	3,520.6	282

Fuel Summary

Property

Detroit Housing Commission, MI
, MI 48207
Model: DH_4BR

Organization

Fox Energy Specialists
James Rodriguez

Inspection Status

Results are projected



Builder

Scattered Sites West, East, Central-E Stove_DH
Scattered Sites West, East, Central-E Stove_4Bf MI
Detroit Housing Commission,

Annual Energy Cost

Natural Gas	\$870
Electric	\$515

Annual End-Use Cost

Heating	\$729
Cooling	\$0
Water Heating	\$158
Lights & Appliances	\$374
Onsite Generation	-\$0
Service Charges	\$124
Total	\$1,385

Annual End-Use Consumption

Heating [Natural Gas Therms]	868.9
Heating [Electric kWh]	944.5
Hot Water [Natural Gas Therms]	211.2
Lights & Appliances [Electric kWh]	4,490.5
Total [Natural Gas Therms]	1,080.0
Total [Electric kWh]	5,434.9
Total Onsite Generation [Electric kWh]	0.0

Peak Electric Consumption

Peak Winter kW	0.73
Peak Summer kW	0.79

Utility Rates

Electricity	Default Electric Provider
Natural Gas	Default Gas Provider

Lighting and Appliances



Property

Detroit Housing Commission, MI
, MI 48207
Model: DH_4BR

Organization

Fox Energy Specialists
James Rodriguez

Inspection Status

Results are projected

Builder

Scattered Sites West, East, Central-E Stove
Scattered Sites West, East, Central-E Stove
Commission, MI

ANNUAL SUMMARY

Summary

	Consumption	Annual Cost [\$]
Lighting [kWh/Year]	503.0	42
Electric Appliances [kWh/Year]	3,987.4	332
Fossil Fuel Appliances [MBtu/Year]	0.0	0
Total	-	374

LIGHTING

Lighting Scheme

	Consumption [kWh/Year]	Annual Cost [\$]
Interior Lighting	464.0	39
Exterior Lighting	39.0	3
Garage Lighting	0.0	0
Total	503.0	42

FOSSIL FUEL APPLIANCES

Appliance Type

	Consumption [MBtu/Year]	Annual Cost [\$]
Clothes Dryer	0.0	0
Range/Oven	0.0	0
Total	0.0	0

ELECTRIC APPLIANCES

Appliance Type

	Consumption [kWh/Year]	Annual Cost [\$]
Dishwasher	154.8	13
Range/Oven	487.0	41
Refrigerator	529.0	44
Clothes Dryer	849.6	71
Clothes Washer	114.2	10
Mechanical Ventilation	0.0	0
Ceiling Fan	143.7	12
Television	689.0	57
Miscellaneous	1,020.1	85
Total	3,987.4	332

Fuel Summary

Property

Detroit Housing Commission, MI
, MI 48933
Model: DH_5BR

Organization

Fox Energy Specialists
James Rodriguez

Inspection Status

Results are projected



Builder

Detroit Housing Commission,
MI

Scattered Sites West, East, Central-E
Stove_DH_5BR

Annual Energy Cost

Natural Gas	\$924
Electric	\$562

Annual End-Use Cost

Heating	\$761
Cooling	\$0
Water Heating	\$184
Lights & Appliances	\$417
Onsite Generation	-\$0
Service Charges	\$124
Total	\$1,486

Annual End-Use Consumption

Heating [Natural Gas Therms]	906.6
Heating [Electric kWh]	985.5
Hot Water [Natural Gas Therms]	245.8
Lights & Appliances [Electric kWh]	5,017.2
Total [Natural Gas Therms]	1,152.4
Total [Electric kWh]	6,002.7
Total Onsite Generation [Electric kWh]	0.0

Peak Electric Consumption

Peak Winter kW	0.78
Peak Summer kW	0.88

Utility Rates

Electricity	Default Electric Provider
Natural Gas	Default Gas Provider

Lighting and Appliances



Property

Detroit Housing Commission, MI
, MI 48933
Model: DH_5BR

Organization

Fox Energy Specialists
James Rodriguez

Inspection Status

Results are projected

Builder

Detroit Housing
Commission, MI

ANNUAL SUMMARY

Summary

	Consumption	Annual Cost [\$]
Lighting [kWh/Year]	560.1	47
Electric Appliances [kWh/Year]	4,457.0	370
Fossil Fuel Appliances [MBtu/Year]	0.0	0
Total	-	417

LIGHTING

Lighting Scheme

	Consumption [kWh/Year]	Annual Cost [\$]
Interior Lighting	518.6	43
Exterior Lighting	41.5	3
Garage Lighting	0.0	0
Total	560.1	47

FOSSIL FUEL APPLIANCES

Appliance Type

	Consumption [MBtu/Year]	Annual Cost [\$]
Clothes Dryer	0.0	0
Range/Oven	0.0	0
Total	0.0	0

ELECTRIC APPLIANCES

Appliance Type

	Consumption [kWh/Year]	Annual Cost [\$]
Dishwasher	178.5	15
Range/Oven	526.0	44
Refrigerator	529.0	44
Clothes Dryer	962.5	80
Clothes Washer	129.4	11
Mechanical Ventilation	0.0	0
Ceiling Fan	172.5	14
Television	758.0	63
Miscellaneous	1,201.2	100
Total	4,457.0	370

Fuel Summary

Property

Detroit Housing Commission, MI
, MI 48207
Model: DH_6BR

Organization

Fox Energy Specialists
James Rodriguez

Inspection Status

Results are projected



Builder

Detroit Housing Commission,
MI

Scattered Sites-E Stove_DH_6BR

Annual Energy Cost

Natural Gas	\$1,330
Electric	\$602

Annual End-Use Cost

Heating	\$1,143
Cooling	\$0
Water Heating	\$275
Lights & Appliances	\$450
Onsite Generation	-\$0
Service Charges	\$64
Total	\$1,932

Annual End-Use Consumption

Heating [Natural Gas Therms]	995.1
Heating [Electric kWh]	1,081.8
Hot Water [Natural Gas Therms]	259.7
Lights & Appliances [Electric kWh]	5,437.3
Total [Natural Gas Therms]	1,254.8
Total [Electric kWh]	6,519.1
Total Onsite Generation [Electric kWh]	0.0

Peak Electric Consumption

Peak Winter kW	0.85
Peak Summer kW	0.95

Utility Rates

Electricity	Default Electric Provider
Natural Gas	PG&E Natural Gas

Lighting and Appliances



Property

Detroit Housing Commission, MI
, MI 48207
Model: DH_6BR

Organization

Fox Energy Specialists
James Rodriguez

Inspection Status

Results are projected

Builder

Detroit Housing
Commission, MI

ANNUAL SUMMARY

Summary

	Consumption	Annual Cost [\$]
Lighting [kWh/Year]	591.7	49
Electric Appliances [kWh/Year]	4,845.6	401
Fossil Fuel Appliances [MBtu/Year]	0.0	0
Total	-	450

LIGHTING

Lighting Scheme

	Consumption [kWh/Year]	Annual Cost [\$]
Interior Lighting	548.8	45
Exterior Lighting	42.9	4
Garage Lighting	0.0	0
Total	591.7	49

FOSSIL FUEL APPLIANCES

Appliance Type

	Consumption [MBtu/Year]	Annual Cost [\$]
Clothes Dryer	0.0	0
Range/Oven	0.0	0
Total	0.0	0

ELECTRIC APPLIANCES

Appliance Type

	Consumption [kWh/Year]	Annual Cost [\$]
Dishwasher	202.1	17
Range/Oven	565.0	47
Refrigerator	529.0	44
Clothes Dryer	1,075.4	89
Clothes Washer	144.6	12
Mechanical Ventilation	0.0	0
Ceiling Fan	201.2	17
Television	827.0	68
Miscellaneous	1,301.3	108
Total	4,845.6	401

Fuel Summary

Property

Detroit Housing Commission, MI
, MI 48207

Smith Homes-RH-2BR

Organization

Fox Energy Specialists
James Rodriguez

Inspection Status

Results are projected



Builder

Detroit Housing Commission,
MI

Annual Energy Cost

Natural Gas	\$427
Electric	\$371

Annual End-Use Cost

Heating	\$277
Cooling	\$0
Water Heating	\$120
Lights & Appliances	\$278
Onsite Generation	-\$0
Service Charges	\$124
Total	\$798

Annual End-Use Consumption

Heating [Natural Gas Therms]	329.8
Heating [Electric kWh]	358.5
Hot Water [Natural Gas Therms]	159.8
Lights & Appliances [Electric kWh]	3,338.5
Total [Natural Gas Therms]	489.6
Total [Electric kWh]	3,697.0
Total Onsite Generation [Electric kWh]	0.0

Peak Electric Consumption

Peak Winter kW	0.45
Peak Summer kW	0.59

Utility Rates

Electricity	Default Electric Provider
Natural Gas	Default Gas Provider

Lighting and Appliances

Property

Detroit Housing Commission, MI
, MI 48207

Organization

Fox Energy Specialists
James Rodriguez

Inspection Status

Results are projected



Smith Homes-RH-2BR

Builder

Detroit Housing
Commission, MI

ANNUAL SUMMARY

Summary

	Consumption	Annual Cost [\$]
Lighting [kWh/Year]	293.0	24
Electric Appliances [kWh/Year]	3,045.6	253
Fossil Fuel Appliances [MBtu/Year]	0.0	0
Total	-	278

LIGHTING

Lighting Scheme

	Consumption [kWh/Year]	Annual Cost [\$]
Interior Lighting	270.3	22
Exterior Lighting	22.7	2
Garage Lighting	0.0	0
Total	293.0	24

FOSSIL FUEL APPLIANCES

Appliance Type

	Consumption [MBtu/Year]	Annual Cost [\$]
Clothes Dryer	0.0	0
Range/Oven	0.0	0
Total	0.0	0

ELECTRIC APPLIANCES

Appliance Type

	Consumption [kWh/Year]	Annual Cost [\$]
Dishwasher	107.4	9
Range/Oven	409.0	34
Refrigerator	529.0	44
Clothes Dryer	623.9	52
Clothes Washer	83.9	7
Mechanical Ventilation	0.0	0
Ceiling Fan	86.2	7
Television	551.0	46
Miscellaneous	655.2	55
Total	3,045.6	253

Fuel Summary

Property

Detroit Housing Commission, MI
, MI 48207

Smith Homes-RH-3BR

Organization

Fox Energy Specialists
James Rodriguez

Inspection Status

Results are projected



Builder

Detroit Housing Commission,
MI

Annual Energy Cost

Natural Gas	\$472
Electric	\$418

Annual End-Use Cost

Heating	\$306
Cooling	\$0
Water Heating	\$139
Lights & Appliances	\$321
Onsite Generation	-\$0
Service Charges	\$124
Total	\$890

Annual End-Use Consumption

Heating [Natural Gas Therms]	364.3
Heating [Electric kWh]	396.0
Hot Water [Natural Gas Therms]	185.3
Lights & Appliances [Electric kWh]	3,863.9
Total [Natural Gas Therms]	549.6
Total [Electric kWh]	4,259.9
Total Onsite Generation [Electric kWh]	0.0

Peak Electric Consumption

Peak Winter kW	0.52
Peak Summer kW	0.68

Utility Rates

Electricity	Default Electric Provider
Natural Gas	Default Gas Provider

Lighting and Appliances

Property

Detroit Housing Commission, MI
, MI 48207

Organization

Fox Energy Specialists
James Rodriguez

Inspection Status

Results are projected



Smith Homes-RH-3BR

Builder

Detroit Housing
Commission, MI

ANNUAL SUMMARY

Summary

	Consumption	Annual Cost [\$]
Lighting [kWh/Year]	338.7	28
Electric Appliances [kWh/Year]	3,525.1	293
Fossil Fuel Appliances [MBtu/Year]	0.0	0
Total	-	321

LIGHTING

Lighting Scheme

	Consumption [kWh/Year]	Annual Cost [\$]
Interior Lighting	314.3	26
Exterior Lighting	24.4	2
Garage Lighting	0.0	0
Total	338.7	28

FOSSIL FUEL APPLIANCES

Appliance Type

	Consumption [MBtu/Year]	Annual Cost [\$]
Clothes Dryer	0.0	0
Range/Oven	0.0	0
Total	0.0	0

ELECTRIC APPLIANCES

Appliance Type

	Consumption [kWh/Year]	Annual Cost [\$]
Dishwasher	131.1	11
Range/Oven	448.0	37
Refrigerator	529.0	44
Clothes Dryer	736.7	61
Clothes Washer	99.1	8
Mechanical Ventilation	0.0	0
Ceiling Fan	115.0	10
Television	620.0	52
Miscellaneous	846.3	70
Total	3,525.1	293

Fuel Summary

Property

Detroit Housing Commission, MI
, MI 48207

Smith Homes-RH-4BR

Organization

Fox Energy Specialists
James Rodriguez

Inspection Status

Results are projected



Builder

Detroit Housing Commission,
MI

Annual Energy Cost

Natural Gas	\$510
Electric	\$454

Annual End-Use Cost

Heating	\$327
Cooling	\$0
Water Heating	\$158
Lights & Appliances	\$355
Onsite Generation	-\$0
Service Charges	\$124
Total	\$964

Annual End-Use Consumption

Heating [Natural Gas Therms]	390.1
Heating [Electric kWh]	424.1
Hot Water [Natural Gas Therms]	210.1
Lights & Appliances [Electric kWh]	4,265.2
Total [Natural Gas Therms]	600.2
Total [Electric kWh]	4,689.3
Total Onsite Generation [Electric kWh]	0.0

Peak Electric Consumption

Peak Winter kW	0.57
Peak Summer kW	0.75

Utility Rates

Electricity	Default Electric Provider
Natural Gas	Default Gas Provider

Lighting and Appliances

Property

Detroit Housing Commission, MI
, MI 48207

Organization

Fox Energy Specialists
James Rodriguez

Inspection Status

Results are projected



Smith Homes-RH-4BR

Builder

Detroit Housing
Commission, MI

ANNUAL SUMMARY

Summary

	Consumption	Annual Cost [\$]
Lighting [kWh/Year]	360.6	30
Electric Appliances [kWh/Year]	3,904.6	325
Fossil Fuel Appliances [MBtu/Year]	0.0	0
Total	-	355

LIGHTING

Lighting Scheme

	Consumption [kWh/Year]	Annual Cost [\$]
Interior Lighting	335.3	28
Exterior Lighting	25.3	2
Garage Lighting	0.0	0
Total	360.6	30

FOSSIL FUEL APPLIANCES

Appliance Type

	Consumption [MBtu/Year]	Annual Cost [\$]
Clothes Dryer	0.0	0
Range/Oven	0.0	0
Total	0.0	0

ELECTRIC APPLIANCES

Appliance Type

	Consumption [kWh/Year]	Annual Cost [\$]
Dishwasher	154.8	13
Range/Oven	487.0	41
Refrigerator	529.0	44
Clothes Dryer	849.6	71
Clothes Washer	114.2	10
Mechanical Ventilation	0.0	0
Ceiling Fan	143.7	12
Television	689.0	57
Miscellaneous	937.3	78
Total	3,904.6	325

Fuel Summary

Property

Detroit Housing Commission, MI
, MI 48207
Model: APT_1BR

Organization

Fox Energy Specialists
James Rodriguez

Inspection Status

Results are projected



Builder

Detroit Housing Commission,
MI

Algonquin_APT_1BR

Annual Energy Cost

Natural Gas	\$396
Electric	\$329

Annual End-Use Cost

Heating	\$264
Cooling	\$0
Water Heating	\$100
Lights & Appliances	\$237
Onsite Generation	-\$0
Service Charges	\$124
Total	\$724

Annual End-Use Consumption

Heating [Natural Gas Therms]	314.3
Heating [Electric kWh]	341.6
Hot Water [Natural Gas Therms]	133.2
Lights & Appliances [Electric kWh]	2,847.0
Total [Natural Gas Therms]	447.5
Total [Electric kWh]	3,188.6
Total Onsite Generation [Electric kWh]	0.0

Peak Electric Consumption

Peak Winter kW	0.39
Peak Summer kW	0.50

Utility Rates

Electricity	Default Electric Provider
Natural Gas	Default Gas Provider

Lighting and Appliances



Property

Detroit Housing Commission, MI
, MI 48207
Model: APT_1BR

Organization

Fox Energy Specialists
James Rodriguez

Inspection Status

Results are projected

Builder

Detroit Housing
Commission, MI

ANNUAL SUMMARY

Summary

	Consumption	Annual Cost [\$]
Lighting [kWh/Year]	253.7	21
Electric Appliances [kWh/Year]	2,593.3	216
Fossil Fuel Appliances [MBtu/Year]	0.0	0
Total	-	237

LIGHTING

Lighting Scheme

	Consumption [kWh/Year]	Annual Cost [\$]
Interior Lighting	232.5	19
Exterior Lighting	21.2	2
Garage Lighting	0.0	0
Total	253.7	21

FOSSIL FUEL APPLIANCES

Appliance Type

	Consumption [MBtu/Year]	Annual Cost [\$]
Clothes Dryer	0.0	0
Range/Oven	0.0	0
Total	0.0	0

ELECTRIC APPLIANCES

Appliance Type

	Consumption [kWh/Year]	Annual Cost [\$]
Dishwasher	83.7	7
Range/Oven	370.0	31
Refrigerator	529.0	44
Clothes Dryer	511.0	43
Clothes Washer	68.7	6
Mechanical Ventilation	0.0	0
Ceiling Fan	57.5	5
Television	482.0	40
Miscellaneous	491.4	41
Total	2,593.3	216

Fuel Summary

Property

Detroit Housing Commission, MI
, MI 48207
Model: APT_2BR

Organization

Fox Energy Specialists
James Rodriguez

Inspection Status

Results are projected



Algonquin_APT_2BR

Builder

Detroit Housing Commission,
MI

Annual Energy Cost

Natural Gas	\$485
Electric	\$378

Annual End-Use Cost

Heating	\$341
Cooling	\$0
Water Heating	\$120
Lights & Appliances	\$278
Onsite Generation	-\$0
Service Charges	\$124
Total	\$863

Annual End-Use Consumption

Heating [Natural Gas Therms]	405.9
Heating [Electric kWh]	441.2
Hot Water [Natural Gas Therms]	160.3
Lights & Appliances [Electric kWh]	3,338.5
Total [Natural Gas Therms]	566.2
Total [Electric kWh]	3,779.7
Total Onsite Generation [Electric kWh]	0.0

Peak Electric Consumption

Peak Winter kW	0.47
Peak Summer kW	0.59

Utility Rates

Electricity	Default Electric Provider
Natural Gas	Default Gas Provider

Lighting and Appliances



Property

Detroit Housing Commission, MI
, MI 48207
Model: APT_2BR

Organization

Fox Energy Specialists
James Rodriguez

Inspection Status

Results are projected

Builder

Detroit Housing
Commission, MI

ANNUAL SUMMARY

Summary

	Consumption	Annual Cost [\$]
Lighting [kWh/Year]	293.0	24
Electric Appliances [kWh/Year]	3,045.6	253
Fossil Fuel Appliances [MBtu/Year]	0.0	0
Total	-	278

LIGHTING

Lighting Scheme

	Consumption [kWh/Year]	Annual Cost [\$]
Interior Lighting	270.3	22
Exterior Lighting	22.7	2
Garage Lighting	0.0	0
Total	293.0	24

FOSSIL FUEL APPLIANCES

Appliance Type

	Consumption [MBtu/Year]	Annual Cost [\$]
Clothes Dryer	0.0	0
Range/Oven	0.0	0
Total	0.0	0

ELECTRIC APPLIANCES

Appliance Type

	Consumption [kWh/Year]	Annual Cost [\$]
Dishwasher	107.4	9
Range/Oven	409.0	34
Refrigerator	529.0	44
Clothes Dryer	623.9	52
Clothes Washer	83.9	7
Mechanical Ventilation	0.0	0
Ceiling Fan	86.2	7
Television	551.0	46
Miscellaneous	655.2	55
Total	3,045.6	253

Fuel Summary

Property

Detroit Housing Commission, MI
, MI 48207
Model: APT_1BR

Organization

Fox Energy Specialists
James Rodriguez

Inspection Status

Results are projected



Greenbrooke_APT_1BR

Builder

Detroit Housing Commission,
MI

Annual Energy Cost

Natural Gas	\$364
Electric	\$302

Annual End-Use Cost

Heating	\$214
Cooling	\$0
Water Heating	\$91
Lights & Appliances	\$237
Onsite Generation	-\$0
Service Charges	\$124
Total	\$666

Annual End-Use Consumption

Heating [Natural Gas Therms]	283.5
Heating [Electric kWh]	18.6
Hot Water [Natural Gas Therms]	121.4
Lights & Appliances [Electric kWh]	2,847.0
Total [Natural Gas Therms]	404.9
Total [Electric kWh]	2,865.6
Total Onsite Generation [Electric kWh]	0.0

Peak Electric Consumption

Peak Winter kW	0.28
Peak Summer kW	0.50

Utility Rates

Electricity	Default Electric Provider
Natural Gas	Default Gas Provider

Lighting and Appliances



Property

Detroit Housing Commission, MI
, MI 48207
Model: APT_1BR

Organization

Fox Energy Specialists
James Rodriguez

Inspection Status

Results are projected

Builder

Detroit Housing
Commission, MI

ANNUAL SUMMARY

Summary

	Consumption	Annual Cost [\$]
Lighting [kWh/Year]	253.7	21
Electric Appliances [kWh/Year]	2,593.3	216
Fossil Fuel Appliances [MBtu/Year]	0.0	0
Total	-	237

LIGHTING

Lighting Scheme

	Consumption [kWh/Year]	Annual Cost [\$]
Interior Lighting	232.5	19
Exterior Lighting	21.2	2
Garage Lighting	0.0	0
Total	253.7	21

FOSSIL FUEL APPLIANCES

Appliance Type

	Consumption [MBtu/Year]	Annual Cost [\$]
Clothes Dryer	0.0	0
Range/Oven	0.0	0
Total	0.0	0

ELECTRIC APPLIANCES

Appliance Type

	Consumption [kWh/Year]	Annual Cost [\$]
Dishwasher	83.7	7
Range/Oven	370.0	31
Refrigerator	529.0	44
Clothes Dryer	511.0	43
Clothes Washer	68.7	6
Mechanical Ventilation	0.0	0
Ceiling Fan	57.5	5
Television	482.0	40
Miscellaneous	491.4	41
Total	2,593.3	216

Fuel Summary

Property

Detroit Housing Commission, MI
, MI 48207
Model: APT_2BR

Organization

Fox Energy Specialists
James Rodriguez

Inspection Status

Results are projected



Builder

Detroit Housing Commission,
MI

Annual Energy Cost

Natural Gas	\$444
Electric	\$344

Annual End-Use Cost

Heating	\$275
Cooling	\$0
Water Heating	\$111
Lights & Appliances	\$278
Onsite Generation	-\$0
Service Charges	\$124
Total	\$788

Annual End-Use Consumption

Heating [Natural Gas Therms]	363.8
Heating [Electric kWh]	23.9
Hot Water [Natural Gas Therms]	147.9
Lights & Appliances [Electric kWh]	3,338.5
Total [Natural Gas Therms]	511.7
Total [Electric kWh]	3,362.4
Total Onsite Generation [Electric kWh]	0.0

Peak Electric Consumption

Peak Winter kW	0.33
Peak Summer kW	0.59

Utility Rates

Electricity	Default Electric Provider
Natural Gas	Default Gas Provider

Lighting and Appliances

**Property**

Detroit Housing Commission, MI
, MI 48207
Model: APT_2BR

Organization

Fox Energy Specialists
James Rodriguez

Inspection Status

Results are projected

Builder

Detroit Housing
Commission, MI

ANNUAL SUMMARY

Summary

	Consumption	Annual Cost [\$]
Lighting [kWh/Year]	293.0	24
Electric Appliances [kWh/Year]	3,045.6	253
Fossil Fuel Appliances [MBtu/Year]	0.0	0
Total	-	278

LIGHTING

Lighting Scheme**Consumption [kWh/Year]****Annual Cost [\$]**

Interior Lighting	270.3	22
Exterior Lighting	22.7	2
Garage Lighting	0.0	0
Total	293.0	24

FOSSIL FUEL APPLIANCES

Appliance Type**Consumption [MBtu/Year]****Annual Cost [\$]**

Clothes Dryer	0.0	0
Range/Oven	0.0	0
Total	0.0	0

ELECTRIC APPLIANCES

Appliance Type**Consumption [kWh/Year]****Annual Cost [\$]**

Dishwasher	107.4	9
Range/Oven	409.0	34
Refrigerator	529.0	44
Clothes Dryer	623.9	52
Clothes Washer	83.9	7
Mechanical Ventilation	0.0	0
Ceiling Fan	86.2	7
Television	551.0	46
Miscellaneous	655.2	55
Total	3,045.6	253

CURRENTLY ADOPTED UTILITY ALLOWANCES



DETROIT HOUSING COMMISSION, MI

PUBLIC HOUSING UNITS

MONTHLY UTILITY ALLOWANCE SCHEDULE

Effective Date: February 1, 2025

Building Type: Row House/Townhouse

Brewster Homes MI-001	0BR	1BR	2BR	3BR	4BR	5BR	6BR
Electricity, Natural Gas			\$99.00	\$108.00			

Building Type: Row House/Townhouse

Sojourner Truth Homes MI-002	0BR	1BR	2BR	3BR	4BR	5BR	6BR
Electricity, Natural Gas			\$94.00	\$104.00	\$114.00		

Building Type: Row House/Townhouse

Diggs Homes MI-003	0BR	1BR	2BR	3BR	4BR	5BR	6BR
Electricity, Natural Gas				\$108.00	\$115.00	\$130.00	\$142.00

Building Type: Detached House

SS MI-012,013,014 (All Gas)	0BR	1BR	2BR	3BR	4BR	5BR	6BR
Electricity, Natural Gas			\$124.00	\$134.00	\$150.00	\$160.00	\$169.00

Building Type: Detached House

SS MI-013,014 (Boiler H)	0BR	1BR	2BR	3BR	4BR	5BR	6BR
Electricity, Natural Gas			\$67.00	\$74.00	\$80.00	\$86.00	\$90.00

Building Type: Detached House

SS MI-012,013,014 (Electric Stove)	0BR	1BR	2BR	3BR	4BR	5BR	6BR
Electricity, Natural Gas			\$129.00	\$139.00	\$156.00	\$165.00	\$177.00

Building Type: Row House/Townhouse

Smith Homes MI-016 (Gas WH)	0BR	1BR	2BR	3BR	4BR	5BR	6BR
Electricity, Natural Gas			\$96.00	\$106.00	\$113.00		

Building Type: Apartment/Multi-Family

Algonquin MI-028 (Gas H)	0BR	1BR	2BR	3BR	4BR	5BR	6BR
Electricity, Natural Gas		\$88.00	\$102.00				

Building Type: Apartment/Multi-Family

Greenbrooke Manor MI-029	0BR	1BR	2BR	3BR	4BR	5BR	6BR
Electricity		\$38.00	\$42.00				

LOCAL CLIMATOLOGICAL DATA ANNUAL CLIMATIC DATA SUMMARY

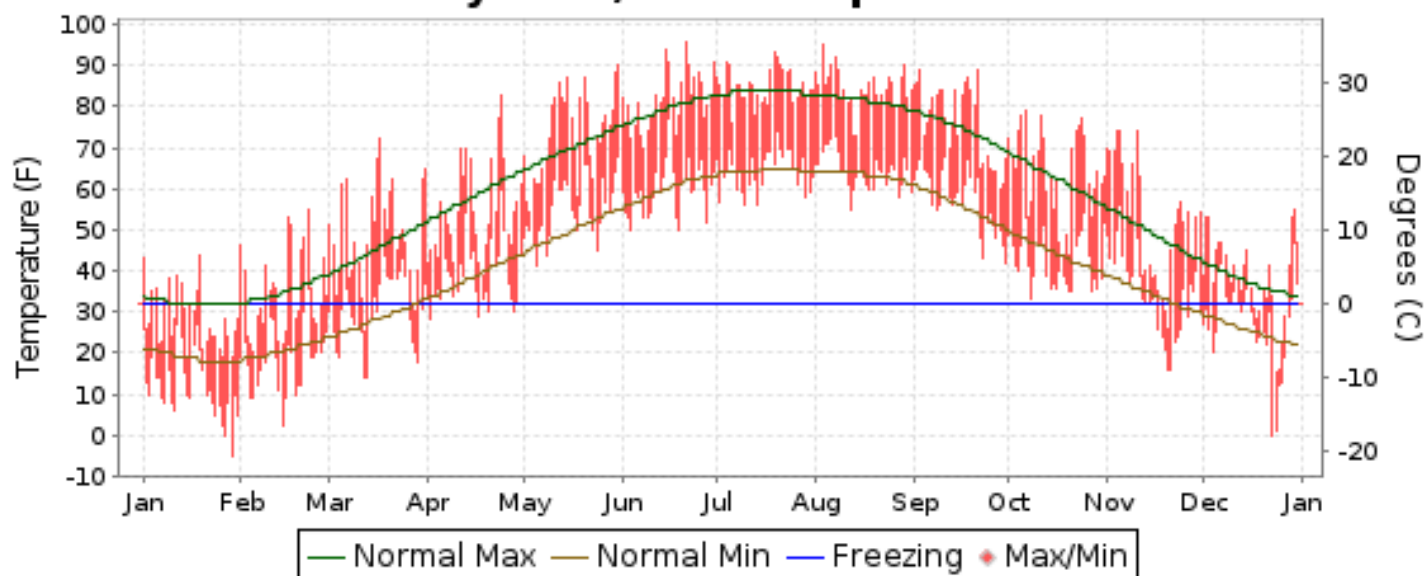


2022 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

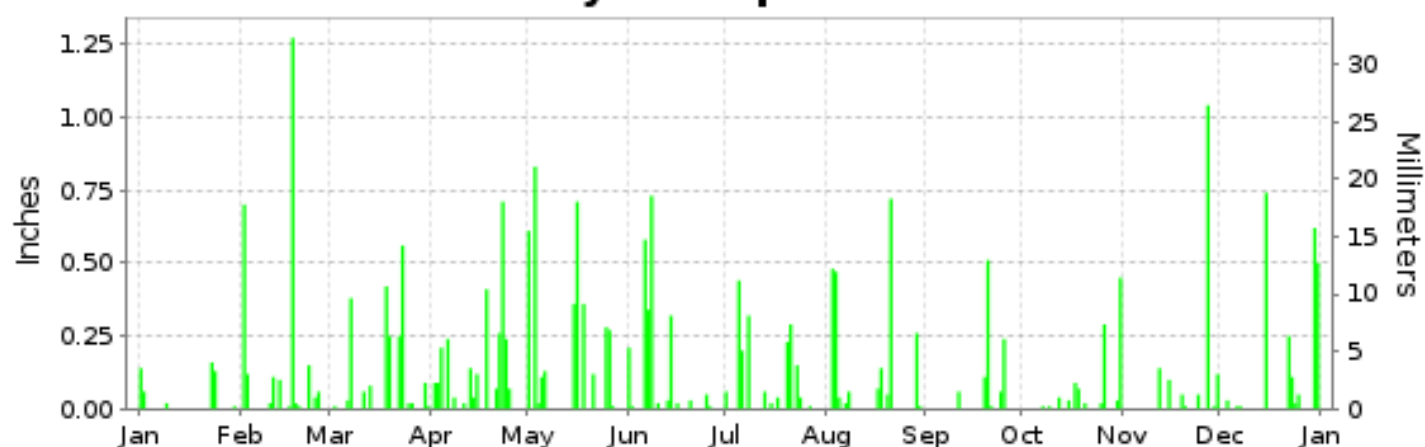
ISSN 0198-2532

DETROIT, MICHIGAN (KDTW)

Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC DATA CENTER.

NATIONAL
OCEANIC AND
ATMOSPHERIC ADMINISTRATION

NATIONAL
ENVIRONMENTAL SATELLITE, DATA
AND INFORMATION SERVICE

NATIONAL CENTERS for
ENVIRONMENTAL INFORMATION (NCEI)
133 HEVILLIE, NORTH CAROLINA

DIRECTOR
NCEI

METEOROLOGICAL DATA FOR 2022

DETROIT (KDTW)

LATITUDE: 42° 13'N LONGITUDE: 83° 19'W ELEVATION (FT): GRND: 629.5 BARO: 631 TIME ZONE: EASTERN (UTC -5) WBAN: 94847

	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	MEAN DAILY MAXIMUM	28.5	34.6	48.4	55.0	73.5	81.6	85.0	84.4	76.3	64.0	52.2	38.3	60.2
	HIGHEST DAILY MAXIMUM	44	55	72	83	90	96	93	95	89	79	74	55	96
	DATE OF OCCURRENCE	19	22	17	24	31	21	19	03	21+	06+	10+	30	JUN 21
	MEAN DAILY MINIMUM	12.1	18.1	30.1	38.7	55.0	59.7	64.4	64.4	57.4	42.2	34.5	27.3	42.0
	LOWEST DAILY MINIMUM	-5	2	14	28	41	50	56	55	42	33	16	0	-5
	DATE OF OCCURRENCE	29	14	13+	02	05	19+	14+	12	30	08	21+	23	JAN 29
	AVERAGE DRY BULB	20.3	26.4	39.3	46.8	64.2	70.6	74.7	74.4	66.9	53.1	43.3	32.8	51.1
	MEAN WET BULB	18.9	24.3	34.9	42.0	56.0	61.6	66.0	66.4	59.6	45.9	38.0	29.4	45.3
	MEAN DEW POINT	12.4	18.3	28.3	35.6	49.4	55.0	60.8	62.0	54.9	38.8	31.4	24.1	39.3
	NUMBER OF DAYS WITH:													
	MAXIMUM >= 90°	0	0	0	0	1	5	5	4	0	0	0	0	15
	MAXIMUM <= 32°	22	14	3	0	0	0	0	0	0	0	2	7	48
	MINIMUM <= 32°	31	27	19	5	0	0	0	0	0	0	12	23	117
	MINIMUM <= 0°	2	0	0	0	0	0	0	0	0	0	0	1	3
H/C	HEATING DEGREE DAYS	1378	1073	790	544	121	11	0	0	76	363	643	993	5992
	COOLING DEGREE DAYS	0	0	0	7	103	189	309	297	138	1	0	0	1044
RH	MEAN (PERCENT)	69	71	68	67	63	60	64	70	70	63	66	72	67
	HOUR 01 LST	73	75	76	75	74	73	77	83	83	75	73	75	76
	HOUR 07 LST	76	76	78	74	71	66	71	78	80	75	75	77	75
	HOUR 13 LST	60	64	54	55	51	45	49	53	52	47	52	65	54
	HOUR 19 LST	66	70	65	65	60	54	59	68	67	59	66	73	64
W/O	NUMBER OF DAYS WITH:													
	HEAVY FOG(VISBY <= 1/4 MI)	0	2	1	3	1	0	0	0	2	2	2	0	13
	THUNDERSTORMS	0	0	1	1	4	6	7	6	3	0	0	0	28
PR	MEAN STATION PRESS. (IN.)	29.38	29.40	29.26	29.28	29.26	29.26	29.25	29.30	29.33	29.31	29.38	29.35	29.31
	MEAN SEA-LEVEL PRESS. (IN.)	30.12	30.14	29.98	30.00	29.97	29.97	29.95	30.00	30.03	30.03	30.10	30.08	30.03
WINDS	RESULTANT SPEED (MPH)	4.1	4.6	3.6	3.6	1.7	2.8	3.6	2.3	2.0	4.7	6.1	5.6	3.5
	RES. DIR. (TENS OF DEGS.)	26	24	26	24	15	26	25	25	28	23	23	23	25
	MEAN SPEED (MPH)	10.1	11.1	10.8	11.4	9.5	7.4	8.0	6.9	7.1	8.7	9.9	11.1	9.3
	PREVAIL.DIR.(TENS OF DEGS.)	20	23	30	30	11	20	23	22	03	21	23	21	21
	MAXIMUM 2-MINUTE WIND													
	SPEED (MPH)	36	36	39	37	35	38	44	37	30	31	46	39	46
	DIR. (TENS OF DEGS.)	23	23	24	26	23	27	21	30	25	24	23	28	23
	DATE OF OCCURRENCE	05	18	06	24	15	01	20	29	26	13	05	03	NOV 05
	MAXIMUM 2-SECOND WIND:													
	SPEED (MPH)	47	50	52	58	49	56	66	58	39	46	61	58	66
	DIR. (TENS OF DEGS.)	22	29	21	26	14	27	19	29	25	26	23	29	19
	DATE OF OCCURRENCE	05	19	31	14	15	01	20	29	26	13	05	03	JUL 20
PRECIPITATION	WATER EQUIVALENT:													
	TOTAL (IN.)	0.52	2.61	2.18	2.75	3.81	2.35	1.86	2.32	0.99	1.06	1.52	2.34	24.31
	GREATEST 24-HOUR (IN.)	0.20	1.27	0.56	0.71	0.83	0.92	0.44	0.72	0.52	0.48	1.04	1.10	1.27
	DATE OF OCCURRENCE	01-02	17	23	23	03	06-07	05	21	20-21	30-31	27	30-31	FEB 17
	NUMBER OF DAYS WITH:													
	PRECIPITATION 0.01	6	12	13	15	12	12	12	11	6	11	8	10	128
	PRECIPITATION 0.10	3	6	5	8	10	5	6	5	3	2	4	5	62
	PRECIPITATION 1.00	0	1	0	0	0	0	0	0	0	0	1	0	2
SNOWFALL	SNOW,ICE PELLETS,HAIL													
	TOTAL (IN.)	8.8	20.4	3.4	4.1	0.0	0.0	0.0	0.0	0.0	T	2.5	5.0	44.2
	GREATEST 24-HOUR (IN.)	3.0	6.3	1.4	2.3	0.0	0.0	0.0	0.0	0.0	T	1.7	2.2	6.3
	DATE OF OCCURRENCE	23	17	13	18						20	19	23	FEB 17
	MAXIMUM SNOW DEPTH (IN.)	5	8	1	1	0	0	0	0	0	0	2	4	8
	DATE OF OCCURRENCE	25	05+	11	19+							20	26	FEB 05+
	NUMBER OF DAYS WITH:													
	SNOWFALL >= 1.0	4	4	2	2	0	0	0	0	0	0	1	2	15

NORMALS, MEANS, AND EXTREMES DETROIT (KDTW)

LATITUDE:
42° 13'N

LONGITUDE:
83° 19'W

ELEVATION (FT):
GRND: 629.5 BARO: 631

TIME ZONE:
EASTERN (UTC -5)

WBAN: 94847

	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	32.3	35.2	45.9	58.7	70.3	79.7	83.7	81.4	74.4	62.0	48.6	37.2	59.1
	MEAN DAILY MAXIMUM	64	31.4	34.2	45.2	58.3	70.1	79.3	83.6	81.7	74.5	61.9	48.4	36.3	58.7
	HIGHEST DAILY MAXIMUM	64	64	70	86	89	95	104	102	100	98	91	78	69	104
	YEAR OF OCCURRENCE		2008	2017	2012	1977	2012	1988	2012	1988	2011	1963	2016	1998	JUN 1988
	MEAN OF EXTREME MAXS.	64	50.5	53.1	68.9	79.7	86.6	92.0	93.8	91.9	89.2	80.1	67.5	55.5	75.7
	NORMAL DAILY MINIMUM	30	19.2	20.8	28.6	39.1	50.2	60.2	64.4	63.2	55.5	44.0	33.9	25.3	42.0
	MEAN DAILY MINIMUM	64	17.4	19.1	27.7	38.0	48.8	58.2	62.8	61.6	54.1	42.6	33.0	23.5	40.6
	LOWEST DAILY MINIMUM	64	-21	-15	-4	10	25	36	41	38	29	17	7	-10	-21
	YEAR OF OCCURRENCE		1984	1985	2003	1982	1966	1972	1965	1982	1974	1974	2019	1983	JAN 1984
	MEAN OF EXTREME MINS.	64	-1.9	0.7	10.7	24.0	34.7	45.2	51.6	50.3	39.4	28.3	18.3	4.9	25.5
	NORMAL DRY BULB	30	25.8	28.0	37.2	48.9	60.3	69.9	74.1	72.3	64.9	53.0	41.2	31.3	50.6
	MEAN DRY BULB	64	24.4	26.7	36.4	48.2	59.5	68.9	73.2	71.7	64.3	52.3	40.7	30.0	49.7
	MEAN WET BULB	38	21.8	23.4	29.8	39.2	50.4	59.6	64.0	63.3	56.9	45.6	35.1	26.6	43.0
	MEAN DEW POINT	38	21.2	22.6	29.3	38.6	49.8	59.2	63.6	63.2	56.4	44.9	34.7	26.1	42.5
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	0.0	0.5	3.2	5.3	2.7	1.2	0.0	0.0	0.0	12.9
	MAXIMUM <= 32	30	16.0	11.6	3.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.2	9.5	41.8
	MINIMUM <= 32	30	27.2	25.1	21.0	6.2	0.3	0.0	0.0	0.0	0.0	1.9	13.7	24.2	119.6
	MINIMUM <= 0	30	2.0	1.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	3.5
H/C	NORMAL HEATING DEG. DAYS	30	1217	1036	861	488	198	28	2	7	91	382	713	1046	6069
	NORMAL COOLING DEG. DAYS	30	0	0	1	5	50	177	283	233	90	10	0	0	849
RH	NORMAL (PERCENT)		76	73	69	65	65	67	69	72	73	72	74	77	71
	HOURL 01 LST	30	79	78	75	73	75	79	81	84	84	80	79	80	79
	HOURL 07 LST	30	81	80	79	77	77	79	83	86	87	84	82	81	81
	HOURL 13 LST	30	70	65	60	53	53	55	55	57	57	58	65	70	60
	HOURL 19 LST	30	74	71	65	57	56	58	59	63	66	67	72	76	65
S	PERCENT POSSIBLE SUNSHINE	31	40	46	52	53	60	65	68	67	61	51	35	31	52
W/O	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	59	2.2	2.1	1.8	1.0	0.8	0.4	0.4	0.9	1.3	1.4	1.5	2.7	16.5
	THUNDERSTORMS	64	0.3	0.4	1.5	3.0	4.3	6.0	6.4	5.5	3.7	1.3	0.7	0.3	33.4
CLOUDINESS	MEAN: SUNRISE-SUNSET (OKTAS) MIDNIGHT-MIDNIGHT (OKTAS) MEAN NO. DAYS WITH: CLEAR PARTLY CLOUDY CLOUDY														
PR	MEAN STATION PRESSURE(IN)	39	29.29	29.35	29.33	29.25	29.27	29.25	29.28	29.31	29.34	29.33	29.34	29.32	29.31
	MEAN SEA-LEVEL PRES. (IN)	39	30.07	30.09	30.06	29.98	29.98	29.95	29.98	30.01	30.05	30.05	30.07	30.08	30.03
WINDS	MEAN SPEED (MPH)	39	10.9	10.5	10.4	10.4	9.1	8.4	7.8	7.3	7.7	9.1	10.3	10.4	9.4
	PREVAIL.DIR(TENS OF DEGS)	55	24	23	30	30	19	23	23	23	19	23	23	24	24
	MAXIMUM 2-MINUTE: SPEED (MPH)	27	46	51	51	47	61	45	53	44	46	47	47	49	61
	DIR. (TENS OF DEGS)		24	22	22	22	22	32	28	28	25	22	27	29	22
	YEAR OF OCCURRENCE		2008	1997	2020	2001	2004	2012	1998	2021	2014	2004	2003	1998	MAY 2004
	MAXIMUM 3-SECOND SPEED (MPH)	27	56	60	68	61	78	60	67	62	60	58	61	64	78
	DIR. (TENS OF DEGS)		27	24	25	20	22	23	28	28	25	22	23	25	22
	YEAR OF OCCURRENCE		2008	2001	2017	2014	2004	2008	1998	2021	2014	2019	2022	2021	MAY 2004
PRECIPITATION	NORMAL (IN)	30	2.23	2.08	2.43	3.26	3.72	3.26	3.51	3.26	3.22	2.53	2.57	2.25	34.32
	MAXIMUM MONTHLY (IN)	64	4.12	5.02	4.86	5.82	8.46	7.04	7.66	7.83	7.52	6.76	6.00	6.00	8.46
	YEAR OF OCCURRENCE		2020	1990	2016	2019	2004	1987	2011	1975	1986	2001	2011	1965	MAY 2004
	MINIMUM MONTHLY (IN)	64	0.27	0.15	0.74	0.69	0.87	0.94	0.59	0.27	0.43	.13	0.62	0.46	0.13
	YEAR OF OCCURRENCE		1961	1969	2013	2004	1988	2011	1974	2008	1960	2005	2009	1960	OCT 2005
	MAXIMUM IN 24 HOURS (IN)	64	2.16	2.41	1.97	3.58	2.87	3.11	4.34	4.59	4.08	2.57	2.30	3.71	4.59
	YEAR OF OCCURRENCE		2020	1998	2017	2000	1968	2009	1998	2014	2000	1985	2005	1965	AUG 2014
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	13.4	11.0	11.1	12.5	12.9	10.7	10.5	9.7	9.5	10.6	11.0	13.1	136.0
	PRECIPITATION >= 1.00	30	0.2	0.2	0.4	0.4	0.7	0.8	0.9	0.7	0.6	0.5	0.4	0.1	5.9
SNOWFALL	NORMAL (IN)	30	14.0	12.5	6.2	1.5	0.0	0.0	0.0	0.0	0.0	0.0	1.9	8.9	45.0
	MAXIMUM MONTHLY (IN)	63	39.1	31.7	21.0	9.0	0.5	T	T	0.0	T	2.9	11.8	34.9	39.1
	YEAR OF OCCURRENCE		2014	2011	2008	1982	2020	2009	2019		2009	1980	1966	1974	JAN 2014
	MAXIMUM IN 24 HOURS (IN)	63	12.2	13.7	9.2	7.4	0.5	T	T	0.0	T	2.9	8.5	19.2	19.2
	YEAR OF OCCURRENCE		2005	2015	1973	1982	2020	2009	2019		2009	1980	2019	1974	DEC 1974
	MAXIMUM SNOW DEPTH (IN)	62	24	20	16	6	0	0	0	0	0	1	9	19	24
	YEAR OF OCCURRENCE		1999	2014	2014	1982						1980	2019	1974	JAN 1999
	NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	4.3	3.6	1.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.6	2.7	13.6

PRECIPITATION (inches) 2022 DETROIT (KDTW)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1993	3.92	1.27	2.12	3.32	1.24	6.05	2.17	1.60	4.26	2.21	1.69	0.78	30.63
1994	2.79	1.38	2.29	4.04	1.18	3.97	3.20	3.30	2.38	1.35	2.74	2.39	31.01
1995	2.47	0.89	1.73	3.44	3.55	1.55	3.40	3.71	0.62	3.53	3.08	0.85	28.82
1996	1.85	1.76	1.56	3.39	2.82	2.37	2.64	0.43	4.42	1.59	1.99	2.57	27.39
1997	1.57	3.90	3.22	1.56	5.23	3.17	2.68	3.22	3.41	1.91	0.94	1.61	32.42
1998	2.60	3.56	3.62	3.86	2.46	2.69	5.72	4.19	1.50	1.41	1.36	1.16	34.13
1999	3.00	1.98	1.12	5.13	2.20	5.46	3.62	1.31	3.11	1.56	1.49	2.22	32.20
2000	1.29	0.84	1.55	4.35	5.11	4.90	5.40	4.63	6.71	3.05	1.69	2.63	42.15
2001	0.69	2.88	0.93	3.20	3.70	3.40	1.16	2.87	4.28	6.76	2.35	2.23	34.45
2002	3.36	1.91	2.12	4.48	3.76	1.07	3.50	3.32	1.95	1.15	2.72	1.16	30.50
2003	0.42	0.66	1.46	2.07	4.73	2.50	2.59	4.36	4.27	2.74	2.97	2.62	31.39
2004	1.43	0.63	3.29	0.69	8.46	2.86	2.85	4.51	0.65	2.08	3.21	2.91	33.57
2005	3.40	3.02	0.74	1.66	1.85	1.95	5.38	1.32	1.63	0.13	4.70	2.52	28.30
2006	3.24	2.71	3.21	2.71	4.60	3.95	4.38	2.05	1.73	4.11	2.90	3.65	39.24
2007	3.02	0.82	3.09	2.68	2.56	3.10	2.10	6.61	1.44	2.00	1.77	3.48	32.67
2008	2.13	3.61	3.17	0.96	2.03	4.05	3.24	0.27	5.99	1.15	3.31	4.07	33.98
2009	1.10	2.12	4.17	5.03	2.89	5.27	2.56	2.76	1.46	3.23	0.62	2.90	34.11
2010	0.76	1.90	1.07	2.26	5.31	5.42	5.96	0.59	3.32	1.07	3.34	1.28	32.28
2011	1.53	3.60	3.61	5.61	5.38	0.94	7.66	2.16	6.28	2.14	6.00	2.79	47.70
2012	3.00	1.91	2.95	2.15	1.72	1.31	3.67	2.25	2.47	2.32	0.72	2.64	27.11
2013	3.45	2.83	0.74	5.29	2.54	6.01	4.14	5.98	1.20	3.48	1.82	2.42	39.90
2014	2.92	2.82	1.49	2.57	4.87	4.00	2.43	6.32	4.71	2.36	1.67	1.41	37.57
2015	1.45	1.35	0.80	2.61	5.54	5.32	1.76	3.16	1.29	1.97	2.06	3.01	30.32
2016	1.34	2.02	4.86	2.31	2.20	1.30	1.57	5.62	6.28	2.98	2.10	2.16	34.74
2017	2.83	1.90	4.26	3.55	4.39	2.02	2.44	3.91	0.91	2.84	4.93	1.48	35.46
2018	1.36	4.27	2.63	3.79	6.35	3.66	4.24	1.20	6.46	3.56	3.63	2.66	43.81
2019	1.86	2.22	2.46	5.82	3.61	2.86	2.63	3.14	3.44	4.41	1.65	2.29	36.39
2020	4.12	1.16	3.86	2.21	3.62	2.40	5.02	5.99	3.95	2.41	2.63	1.36	38.73
2021	1.03	1.47	2.13	1.79	2.23	5.16	4.95	5.17	5.43	5.25	1.91	3.47	39.99
2022	0.52	2.61	2.18	2.75	3.81	2.35	1.86	2.32	0.99	1.06	1.52	2.34	24.31
POR= 64 YRS	1.97	1.92	2.45	3.08	3.30	3.48	3.30	3.36	3.03	2.36	2.57	2.49	33.31

WBAN : 94847

AVERAGE TEMPERATURE (°F) 2022 DETROIT (KDTW)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1993	29.4	24.2	34.7	47.8	60.2	67.5	75.5	74.5	61.0	51.9	41.2	30.8	49.9
1994	17.3	23.5	37.1	51.2	58.7	72.3	74.2	69.6	66.2	53.8	45.5	35.4	50.4
1995	28.4	24.9	39.2	45.7	59.7	71.6	74.8	77.2	62.8	55.1	35.5	25.6	50.0
1996	24.3	26.0	30.8	45.2	56.7	70.7	70.6	72.9	64.1	52.0	34.3	31.5	48.3
1997	23.0	30.6	37.2	45.8	52.0	69.5	72.2	68.1	62.7	51.8	37.1	32.2	48.5
1998	32.8	36.7	39.5	50.4	65.6	69.1	73.4	73.2	68.0	53.8	43.8	35.3	53.5
1999	23.1	32.8	34.8	50.7	62.4	70.8	76.8	70.2	65.5	51.6	45.2	32.0	51.3
2000	24.6	31.9	44.0	48.0	61.8	69.4	70.3	70.8	62.5	55.1	40.2	19.3	49.8
2001	26.2	29.7	35.1	51.2	61.2	69.6	73.6	74.1	62.3	52.5	47.6	35.9	51.6
2002	32.7	32.9	34.8	49.8	54.5	70.9	76.5	73.1	68.9	50.0	39.2	28.7	51.0
2003	20.5	23.2	35.6	48.4	56.5	66.6	72.6	72.9	63.2	50.9	44.3	33.1	49.0
2004	20.0	28.5	40.4	50.9	60.9	67.1	71.8	68.5	67.5	53.3	43.0	29.7	50.1
2005	24.1	28.5	33.2	50.7	56.6	74.1	75.4	74.9	68.4	55.2	43.2	25.8	50.8
2006	35.3	29.8	38.1	52.3	60.7	69.4	76.1	72.9	62.0	49.7	42.6	37.4	52.2
2007	29.6	19.4	40.2	47.7	61.7	71.4	72.0	73.9	66.7	59.1	40.0	29.6	50.9
2008	29.0	25.2	33.4	51.8	57.4	70.6	73.2	72.1	66.3	50.6	39.0	27.5	49.7
2009	17.3	28.5	38.7	49.8	59.5	67.8	68.9	71.2	66.1	50.0	45.3	29.3	49.4
2010	25.1	27.9	42.4	54.3	62.7	71.4	76.6	75.3	64.5	55.0	42.0	25.7	51.9
2011	21.9	24.8	35.1	47.3	60.7	70.6	79.3	73.2	64.4	54.4	46.6	35.6	51.2
2012	30.7	32.6	50.7	49.4	65.3	72.3	79.0	73.0	64.1	52.7	40.4	35.9	53.8
2013	28.7	27.2	34.6	46.4	63.6	69.7	74.0	71.9	64.1	53.3	37.5	26.8	49.8
2014	16.4	19.4	28.7	48.9	61.4	70.5	69.9	71.5	63.5	52.1	35.8	33.6	47.6
2015	21.2	14.1	34.5	50.0	64.5	68.8	72.9	71.7	69.3	54.5	46.0	41.1	50.7
2016	28.1	31.2	43.1	46.3	61.0	71.1	76.8	76.7	68.2	55.9	46.7	29.0	52.8
2017	32.1	37.9	36.9	54.3	59.0	71.1	74.4	71.1	67.1	57.3	40.4	26.6	52.4
2018	24.5	31.0	35.4	43.0	66.1	71.5	75.9	75.8	68.9	52.6	37.1	34.5	51.4
2019	23.8	28.3	34.3	49.0	58.8	68.2	76.8	73.1	68.6	54.0	35.8	35.1	50.5
2020	32.4	30.1	41.2	46.1	57.7	71.1	77.5	73.5	63.4	51.0	45.7	32.9	51.9
2021	29.3	23.3	42.9	50.6	59.0	72.8	74.0	75.7	66.9	59.4	39.4	37.2	52.5
2022	20.3	26.4	39.3	46.8	64.2	70.6	74.7	74.4	66.9	53.1	43.3	32.8	51.1
POR= 64 YRS	24.4	26.7	36.4	48.2	59.5	68.9	73.2	71.7	64.3	52.3	40.7	30.0	49.7

HEATING DEGREE DAYS (base 65°F) 2022 DETROIT (KDTW)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1993-94	0	2	155	404	710	1050	1472	1156	858	433	238	24	6502
1994-95	0	9	55	345	579	910	1129	1115	793	573	170	17	5695
1995-96	2	0	125	306	877	1215	1253	1122	1055	589	289	8	6841
1996-97	3	0	102	397	915	1033	1297	959	855	566	394	25	6546
1997-98	3	13	103	435	830	1008	991	787	791	431	69	80	5541
1998-99	0	2	44	350	629	914	1293	898	927	424	115	33	5629
1999-00	0	3	81	413	585	1016	1246	958	645	504	159	31	5641
2000-01	1	13	148	307	737	1412	1194	983	920	415	146	45	6321
2001-02	9	0	131	382	514	898	992	891	929	480	342	21	5589
2002-03	0	0	38	481	766	1119	1372	1165	907	499	256	48	6651
2003-04	0	0	102	432	610	980	1388	1052	757	431	174	36	5962
2004-05	5	15	35	356	653	1087	1261	1017	978	421	264	8	6100
2005-06	0	1	30	329	647	1207	912	979	828	377	200	15	5525
2006-07	0	0	113	471	664	851	1094	1272	765	515	163	17	5925
2007-08	3	11	62	229	744	1089	1112	1148	970	390	252	11	6021
2008-09	1	3	37	438	770	1154	1469	1014	808	469	180	37	6380
2009-10	5	14	54	457	584	1099	1230	1034	694	325	162	13	5671
2010-11	0	0	91	309	685	1212	1330	1120	921	521	189	13	6391
2011-12	0	0	106	326	547	903	1056	930	454	463	79	19	4883
2012-13	0	1	112	380	733	893	1116	1050	933	551	137	23	5929
2013-14	4	8	98	375	817	1177	1499	1272	1119	473	169	12	7023
2014-15	8	5	108	391	865	967	1349	1418	937	441	109	22	6620
2015-16	3	7	33	314	563	732	1139	974	670	554	192	14	5195
2016-17	0	0	30	297	541	1110	1009	751	865	324	219	11	5157
2017-18	0	4	66	263	730	1181	1246	946	910	653	76	6	6081
2018-19	0	0	61	411	829	940	1269	1022	944	475	208	32	6191
2019-20	0	0	13	349	870	921	1002	1007	729	561	269	19	5740
2020-21	0	0	98	426	575	988	1097	1160	678	430	243	13	5708
2021-22	0	0	44	218	763	854	1378	1073	790	544	121	11	5796
2022-	0	0	76	363	643	993							

WBAN : 94847

COOLING DEGREE DAYS (base 65°F) 2022 DETROIT (KDTW)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1993	0	0	0	0	21	135	334	302	41	5	0	0	838
1994	0	0	0	24	49	248	290	160	97	2	0	0	870
1995	0	0	0	0	11	222	312	383	67	7	0	0	1002
1996	0	0	0	2	37	185	184	251	82	0	0	0	741
1997	0	0	0	0	0	165	231	114	40	29	0	0	579
1998	0	0	7	0	95	209	268	261	136	9	0	0	985
1999	0	0	0	0	43	213	372	171	104	2	0	0	905
2000	0	0	3	0	66	172	170	199	78	4	0	0	692
2001	0	0	0	6	36	190	279	290	58	4	0	0	863
2002	0	0	0	30	23	203	364	257	161	23	0	0	1061
2003	0	0	0	8	2	104	242	252	54	0	0	0	662
2004	0	0	0	12	53	106	222	132	116	1	0	0	642
2005	0	0	0	2	9	290	328	311	136	33	0	0	1109
2006	0	0	0	3	70	155	352	254	31	3	0	0	868
2007	0	0	2	2	67	216	227	294	120	57	0	0	985
2008	0	0	0	2	22	188	262	231	82	0	0	0	787
2009	0	0	0	20	12	128	131	214	92	0	0	0	597
2010	0	0	0	8	98	212	369	327	84	5	0	0	1103
2011	0	0	0	0	63	186	451	260	94	6	0	0	1060
2012	0	0	17	3	97	244	443	254	90	8	0	0	1156
2013	0	0	0	0	103	170	293	227	78	20	0	0	891
2014	0	0	0	0	64	185	167	216	72	0	0	0	704
2015	0	0	0	0	104	140	254	222	170	1	0	0	891
2016	0	0	0	0	78	203	370	371	132	22	0	0	1176
2017	0	0	0	7	39	200	300	202	136	32	0	0	916
2018	0	0	0	0	121	210	342	341	187	35	0	0	1236
2019	0	0	0	0	23	134	373	257	127	14	0	0	928
2020	0	0	0	0	51	209	396	273	56	1	2	0	988
2021	0	0	0	5	65	255	287	338	108	55	0	0	1113
2022	0	0	0	7	103	189	309	297	138	1	0	0	1044

published by: NCEI Asheville, NC

5

WBAN : 94847

SNOWFALL (inches) 2022 DETROIT (KDTW)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1994-95	0.0	0.0	T	0.0	T	9.6	13.1	5.7	3.5	1.6	0.0	0.0	33.5
1995-96	0.0	0.0	0.0	0.0	1.3	4.5	6.3		11.8				
1996-97													
1997-98					4.6	6.0	8.3	T	4.4	0.0	T	0.0	
1998-99	0.0	0.0	T	0.0	0.0	1.2	27.3	7.8	13.2	0.0	0.0	0.0	49.5
1999-00	0.0	0.0	0.0	T	T	4.0	9.6	8.1	1.1	0.6	T	0.0	23.4
2000-01	0.0	0.0	0.0	T	1.3	25.1	3.4	2.9	5.4	0.9	0.0	0.0	39.0
2001-02	0.0	0.0	0.0	T	0.0	4.9	15.0	6.7	7.1	T	0.0	0.0	33.7
2002-03	0.0	0.0	0.0	0.0	1.4	13.1	13.9	19.2	8.1	5.0	T	0.0	60.7
2003-04	0.0	0.0	0.0	0.0	0.4	3.4	14.0	0.9	5.1	T	T	0.0	23.8
2004-05	0.0	0.0	0.0	0.0	0.1	12.5	26.9	12.5	7.4	4.3	0.1	0.0	63.8
2005-06	0.0	0.0	0.0	0.0	4.3	19.8	5.0	3.8	3.4	T	0.0	T	36.3
2006-07	0.0	0.0	0.0	0.2	0.1	2.4	6.4	14.1	5.5	1.6	0.0	0.0	30.3
2007-08	0.0	0.0	0.0	0.0	0.5	12.2	13.8	24.2	21.0	T	0.0	T	71.7
2008-09	0.0	0.0	0.0	0.0	2.2	21.4	25.2	8.5	1.0	7.4	T	T	65.7
2009-10	0.0	0.0	T	0.0	0.0	7.8	8.9	27.0	T	T	0.0	0.0	43.7
2010-11	T	0.0	0.0	0.0	T	9.3	17.9	31.7	8.6	1.6	0.0	0.0	69.1
2011-12	T	0.0	0.0	0.0	0.6	5.7	9.3	10.2	0.2	T	T	0.0	26.0
2012-13	0.0	0.0	0.0	T	0.4	10.6	10.0	23.5	3.1	0.1	T	0.0	47.7
2013-	0.0	0.0	0.0	T	1.2	15.5							
2013-14	0.0	0.0	0.0	T	1.2	15.5	39.1	23.4	12.5	3.2	0.0	0.0	94.9
2014-15	0.0	0.0	0.0	T	4.0	0.1	14.2	26.4	2.8	T	T	0.0	47.5
2015-16	0.0	0.0	0.0	T	6.2	1.3	8.4	10.7	7.4	1.3	T	0.0	35.3
2016-17	T	0.0	0.0	0.0	0.1	16.8	11.8	2.2	6.9	0.1	0.0	0.0	37.9
2017-18	0.0	0.0	0.0	T	T	22.5	9.2	21.0	5.9	2.4	0.0	0.0	61.0
2018-19	0.0	0.0	0.0	T	6.7	0.5	14.2	7.3	2.6	T	0.0	0.0	31.3
2019-20	T	0.0	0.0	T	9.5	2.7	9.7	14.7	1.7	4.9	0.5	0.0	43.7
2020-21	0.0	0.0	0.0	0.0	3.5	9.6	6.4	21.8	T	3.6	T	0.0	44.9
2021-22	0.0	0.0	0.0	0.0	7.1	3.3	8.8	20.4	3.4	4.1	0.0	0.0	47.1
2022-	0.0	0.0	0.0	T	2.5	5.0							
POR= 63 YRS	T	0.0	T	0.1	2.6	9.5	11.6	11.1	6.3	1.7	T	T	42.9

WBAN : 94847

REFERENCE NOTES :

PAGE 1: THE TEMPERATURE GRAPH SHOWS NORMAL MAXIMUM AND NORMAL MINIMUM DAILY TEMPERATURES (SOLID CURVES) AND THE ACTUAL DAILY HIGH AND LOW TEMPERATURES (VERTICAL BARS). PAGE 2 AND 3: H/C INDICATES HEATING AND COOLING DEGREE DAYS. RH INDICATES RELATIVE HUMIDITY W/O INDICATES WEATHER AND OBSTRUCTIONS S INDICATES SUNSHINE. PR INDICATES PRESSURE. CLOUDINESS ON PAGE 3 IS THE SUM OF THE CEILOMETER AND SATELLITE DATA NOT TO EXCEED EIGHT EIGHTHS(OKTAS). GENERAL: T INDICATES TRACE PRECIPITATION, AN AMOUNT GREATER THAN ZERO BUT LESS THAN THE LOWEST REPORTABLE VALUE. + INDICATES THE VALUE ALSO OCCURS ON EARLIER DATES. BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA. ASOS INDICATES AUTOMATED SURFACE OBSERVING SYSTEM. PM INDICATES THE LAST DAY OF THE PREVIOUS MONTH. POR (PERIOD OF RECORD) BEGINS WITH THE JANUARY DATA MONTH AND IS THE NUMBER OF YEARS USED TO COMPUTE THE MEAN. INDIVIDUAL MONTHS WITHIN THE POR MAY BE MISSING. WHEN THE POR FOR A NORMAL IS LESS THAN 30 YEARS, THE NORMAL IS PROVISIONAL AND IS BASED ON THE NUMBER OF YEARS INDICATED. 0.* OR * INDICATES THE VALUE OR MEAN-DAYS-WITH IS BETWEEN 0.00 AND 0.05. CLOUDINESS FOR ASOS STATIONS DIFFERS FROM THE NON-ASOS OBSERVATION TAKEN BY A HUMAN OBSERVER. ASOS STATION CLOUDINESS IS BASED ON TIME-AVERAGED CEILOMETER DATA FOR CLOUDS AT OR BELOW 12,000 FEET CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS. GENERAL CONTINUED: WIND DIRECTION IS RECORDED IN TENS OF DEGREES (2 DIGITS) CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM. "36" INDICATES TRUE NORTH. RESULTANT WIND IS THE VECTOR AVERAGE OF THE SPEED AND DIRECTION. AVERAGE TEMPERATURE IS THE SUM OF THE MEAN DAILY MAXIMUM AND MINIMUM TEMPERATURE DIVIDED BY 2. SNOWFALL DATA COMPRISE ALL FORMS OF FROZEN	PRECIPITATION, INCLUDING HAIL. A HEATING (COOLING) DEGREE DAY IS THE DIFFERENCE BETWEEN THE AVERAGE DAILY TEMPERATURE AND 65 F. DRY BULB IS THE TEMPERATURE OF THE AMBIENT AIR. DEW POINT IS THE TEMPERATURE TO WHICH THE AIR MUST BE COOLED TO ACHIEVE 100 PERCENT RELATIVE HUMIDITY. WET BULB IS THE TEMPERATURE THE AIR WOULD HAVE IF THE MOISTURE CONTENT WAS INCREASED TO 100 PERCENT RELATIVE HUMIDITY. ON JULY 1, 1996, THE NATIONAL WEATHER SERVICE BEGAN USING THE "METAR" OBSERVATION CODE THAT WAS ALREADY EMPLOYED BY MOST OTHER NATIONS OF THE WORLD. THE MOST NOTICEABLE DIFFERENCE IN THIS ANNUAL PUBLICATION WILL BE THE CHANGE IN UNITS FROM TENTHS TO EIGHTS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER. STATION HISTORY STOPPED WITH THE 2009 ANNUAL. IF YOU NEED SATION HISTORY INFORMATION GO TO "Historical Observing Metadata Repository", URL IS: http://www.ncdc.noaa.gov/homr/ SNOWFALL STOPPED MONTH & YEAR INDICATED ABOVE. NO FURTHER YEARS INCLUDED UNLESS RESTARTED. NOTE: The "Period of Record:(POR)" for all "averages" is based on "Summary of the Day First Order Station" and "Cooperative Summary of the Day" archives.
---	--

2022

DETROIT

MICHIGAN (KDTW)

Detroit and the immediate suburbs, including nearby urban areas in Canada, occupy an area approximately 25 miles in radius. The waterway, consisting of the Detroit and St. Clair Rivers, Lake St. Clair, and the west end of Lake Erie, lies at an elevation of 568 to 580 feet above sea level. Nearly flat land slopes up gently from the waters edge northwestward for about 10 miles and then gives way to increasingly rolling terrain. The Irish Hills, parallel to and about 40 miles northwest of the waterway, have tops 1,000 to 1,250 feet above sea level. On the Canadian side of the waterway the land is relatively level.

Northwest winds in winter bring snow flurry accumulations to all of Michigan except in the Detroit Metropolitan area while summer showers moving from the northwest weaken and sometimes dissipate as they approach Detroit. On the other hand, much of the heaviest precipitation in winter comes from southeast winds, especially to the northwest suburbs of the city.

The climate of Detroit is influenced by its location with respect to major storm tracks and the influence of the Great Lakes. The normal wintertime storm track is south of the city, which brings on the average, about 3 inch snowfalls. Winter storms can bring combinations of rain, snow, freezing rain, and sleet with heavy snowfall accumulations possible at times. In summer, most storms pass to the north allowing for intervals of warm, humid, sunny skies with occasional thunderstorms followed by days of mild, dry, and fair weather. Temperatures of 90 degrees or higher are reached during each summer.

The most pronounced lake effect occurs in the winter when arctic air moving across the lakes is warmed and moistened. This produces an excess of cloudiness but a moderation of cold wave temperatures.

Local climatic variations are due largely to the immediate effect of Lake St. Clair and the urban heat island. On warm days in late spring or early summer, lake breezes often lower temperatures by 10 to 15 degrees in the eastern part of the city and the northeastern suburbs. The urban heat island effect shows up mainly at night where minimum temperatures at the Metropolitan Airport average 4 degrees lower than downtown Detroit. On humid summer nights or on very cold winter nights, this difference can exceed 10 degrees.

The growing season averages 180 days and has ranged from 145 days to 205 days. On average, the last freezing temperature occurs in late April while the average first freezing temperature occurs in late October. A freeze has occurred as late as mid-May and as early as late September.

Air pollution comes primarily from heavy industry spread along both shores of the waterway from Port Huron to Toledo. However, wind dispersion is usually sufficient to keep it from becoming a major hazard.

Station History

DETROIT, MI

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
DETROIT METROPOLITAN AP	1942-01-01	1942-07-31	42° 13'	-83° 19'			AIRWAYS
DETROIT METROPOLITAN AP	1948-03-01	1951-01-01	42° 15'	-83° 19'			AIRWAYS
DETROIT METROPOLITAN AP	1951-01-01	1958-12-01	42° 13'	-83° 19'			AIRWAYS
DETROIT METROPOLITAN AP	1958-12-01	1959-01-01	42° 13'	-83° 19'			AIRWAYS, COOP
DETROIT METROPOLITAN AP	1959-01-01	1973-01-01	42° 13'	-83° 19'	633		AIRWAYS, COOP
DETROIT METROPOLITAN AP	1973-01-01	1992-04-17	42° 13'	-83° 19'	633		COOP, WXSVC
DETROIT METROPOLITAN AP	1992-04-17	1995-07-01	42° 13'	-83° 19'	633		COOP, WXSVC
DETROIT METROPOLITAN AP	1995-07-01	1996-10-01	42° 13'	-83° 19'	637	.3 MI SW	ASOS, COOP, WXSVC
DETROIT METROPOLITAN AP	1996-10-01	1998-04-09	42° 13'	-83° 19'	637		ASOS, COOP, WXSVC
DETROIT METROPOLITAN AP	1998-04-09	2000-09-25	42° 13'	-83° 20'	637	1.5 MI S	ASOS, COOP, WXSVC
DETROIT METROPOLITAN AP	2000-09-25	2002-03-27	42° 13'	-83° 19'	637		ASOS, COOP, WXSVC
DETROIT METROPOLITAN AP	2002-03-27	2017-10-01	42° 13'	-83° 19'	631		ASOS, COOP, WXSVC
DETROIT METROPOLITAN AP	2017-10-01	2018-10-24	42° 13'	-83° 19'	631		ASOS, COOP, PLCD, WXSVC
DETROIT METRO AIRPORT	2018-10-24	2021-11-22	42° 13'	-83° 19'	631		ASOS, COOP, PLCD, WXSVC
DETROIT METRO AIRPORT	2021-11-22	Present	42° 13'	-83° 19'	629.5		ASOS, COOP, PLCD, WXSVC

Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
PRECIP	1930-11-01	1942-07-31	DAILY	2400			
TEMP	1930-11-01	1942-07-31	DAILY	2400			
PRECIP	1948-03-01	1978-01-17	DAILY	2400			
TEMP	1948-03-01	1978-01-17	DAILY	2400			
PRECIP	1978-01-17	1992-02-26	DAILY	2400			
PRECIP	1978-01-17	1992-02-26	HOURLY	2400			
TEMP	1978-01-17	1992-02-26	DAILY	2400			
PRECIP	1992-02-26	1995-07-01	HOURLY	2400	UNIV		
PRECIP	1992-02-26	1995-07-01	DAILY	2400	SRG		
TEMP	1992-02-26	1995-07-01	DAILY	2400	MXMN		
PRECIP	1995-07-01	1997-10-01	DAILY	2400	SRG		
PRECIP	1995-07-01	1997-10-01	HOURLY	2400	UNIV		
TEMP	1995-07-01	1997-10-01	DAILY	2400	MXMN		
WIND	1995-07-01	1997-10-01	HOURLY	UNKN	ANEMCUP		
PRECIP	1997-10-01	2000-09-25	DAILY	UNKN	SRG		
TEMP	1997-10-01	2000-09-25	DAILY	2400	MXMN		
WIND	1997-10-01	2000-09-25	HOURLY	UNKN	ANEMCUP		
PRECIP	2000-09-25	2002-03-27	HOURLY	2400	AHTB	RCRD;HTD	
PRECIP	2000-09-25	2002-03-27	DAILY	2400	TB		
TEMP	2000-09-25	2002-03-27	DAILY	2400	HYGR		
WIND	2000-09-25	2002-03-27	HOURLY	UNKN	ANEMCUP		
PRECIP	2002-03-27	2007-06-07	HOURLY	2400	AHTB	RCRD;HTD	
PRECIP	2002-03-27	2007-06-07	DAILY	2400	PCPNX		
TEMP	2002-03-27	2007-06-07	DAILY	2400	ATEMP		
WIND	2002-03-27	2007-06-07	HOURLY	UNKN	ANEMCUP		
PRECIP	2007-06-07	2018-10-24	HOURLY	2400	AHTB	RCRD;HTD	
PRECIP	2007-06-07	2018-10-24	DAILY	2400	PCPNX		
TEMP	2007-06-07	2018-10-24	DAILY	2400	ATEMP		
WIND	2007-06-07	2018-10-24	HOURLY	UNKN	ANEMSONIC		
PRECIP	2018-10-24	2021-09-30	HOURLY	2400	AHTB		
PRECIP	2018-10-24	2021-09-30	DAILY	2400	AHTB		
TEMP	2018-10-24	2021-09-30	DAILY	2400	ATEMP		
WIND	2018-10-24	2021-09-30	HOURLY	UNKN	ANEMSONIC		
PRECIP	2021-09-30	Present	DAILY	2400	AHTB	SHLD;RCRD;HTD	
PRECIP	2021-09-30	Present	HOURLY	2400	AHTB	SHLD;RCRD;HTD	
TEMP	2021-09-30	Present	DAILY	2400	ATEMP		
WIND	2021-09-30	Present	HOURLY	UNKN	ANEMSONIC		

* For explanation of codes and abbreviations see Station Metadata link below.

Other Station Information can be found at:

ASOS Implementation by NWS: <http://www.nws.noaa.gov/ops2/Surface/asosimplementation.htm>

Station Metadata website: <http://www.ncdc.noaa.gov/homr>

INQUIRES/COMMENTS CALL: (828) 271-4800, option 2

Fax Number : (828) 271-4876

TDD : (828) 271-4010

Email : ncdc.orders@noaa.gov

NOAA/National Centers for Environmental Information

Attn: User Engagement & Services Branch

151 Patton Avenue

Asheville, NC 28801-5001

Visit our Web Site for other weather data: www.ncdc.noaa.gov