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# 2022-05\_Heating and Cooling Appliances Survey Results

#### Q1

About how many square feet of living space does your residence contain (excluding garages, attics and basements not used for living quarters)?

#### REPORT FILTER (477)

CODE	ANSWER OPTION	n	%
1	Under 1,000 sq. ft.	40	8%
2	1,000 – 1,499 sq. ft.	134	28%
3	1,500 – 1,999 sq. ft.	92	19%
4	2,000 – 2,499 sq. ft.	93	19%
5	2,500 – 2,999 sq. ft.	46	10%
6	3,000 or more sq. ft.	55	12%
7	Don't know	17	4%

Q2

#### How is your home primarily heated?

#### **REPORT FILTER (477)**

CODE	ANSWER OPTION	n	%
1	Natural gas furnace	249	52%
2	Electric furnace	64	13%
3	Heat pump	120	25%
4	Baseboard	1	0%
5	Wood stove	5	1%
6	Electric space heaters	7	1%
7	LP/Bottled Gas/Propane	8	2%
97	Other	16	3%
98	Don't know	7	1%

Q2 - Other

#### How is your home primarily heated? - Other

ANSWER OPTION	
Ceiling heat	
Geo thermal	

Electric
Electric ceiling heat
diesel
Dual Fuel, LP Gas furnace with Heat Pump
geothermal on main floor and basement, gas furnace on top floor
Central Heat and Air
Geothermal
Geothermal water/heat pump
Minisplits
electric/gas
Oil furnace
Fireplace
Gas hot water boiler
Dual fuel

# Q3

# Please specify the type of heat pump used to primarily heat your home.

### REPORT FILTER (120)

CODE	ANSWER OPTION	n	%
1	Heat pump with gas furnace backup	21	18%
2	Heat pump with electric furnace backup	72	60%
3	Heat pump with no furnace backup	20	17%
98	Don't know	7	6%

#### Q4

#### Approximately what year was your primary heating system installed?

ANSWER OPTION
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#### Q4\_DK

#### **REPORT FILTER (477)**

CODE	ANSWER OPTION	n	%
1	Don't know	76	16%

#### Q5

#### Do you have other heating equipment that is used on a regular basis?

CODE	ANSWER OPTION	n	%
1	Natural gas furnace	31	6%
1	Electric furnace	11	2%
1	Heat pump	32	7%
1	Baseboard	10	2%

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1	Wood stove	10	2%
1	Electric space heaters	125	26%
1	LP/Bottled Gas/Propane	19	4%
1	Other	28	6%
1	Don't know	4	1%
1	None of the above	238	50%

Q5 - Other

Do you have other heating equipment that is used on a regular basis? - Other

ANSWER OPTION
Heated mattress pad
Eden Pure
Gas fireplace
Oil radiator
Fireplace
oil filled electric heater
fireplace
Natural gas fireplaces
NG Stove
Gas logs in my fireplace.
Portable electric heater
Gas fireplace
Pellet stove
mini-split
heat/ac unit
Gas fireplace
firteplace
LP Ventless fireplace
Electric oil heaters
Gas fireplace
gas fireplace
Fuel oil furnace
Large (4'x5') glassed in fireplace
Heating pad
Mini-splits, but not often used
Propane fireplace
Mini split
electirc fireplace

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Please specify the type of heat pump used on a regular basis.

#### **REPORT FILTER (32)**

CODE	ANSWER OPTION	n	%
1	Heat pump with gas furnace backup	10	31%
2	Heat pump with electric furnace backup	15	47%
3	Heat pump with no furnace backup	6	19%
98	Don't know	1	3%

#### Q7

#### Do you have an air conditioner in your home?

#### **REPORT FILTER (477)**

CODE	ANSWER OPTION	n	%
1	Yes	452	95%
2	No	25	5%

#### Q8\_Central air

#### Which of the following types of air conditioners and how many units do you have?

#### **REPORT FILTER (452)**

CODE	ANSWER OPTION	n	%
1	%s Number of Units	371	82%
2	Do not have this type of unit	71	16%
3	Don't Know	10	2%

#### Q8\_Central air - %s Number of Units

#### Which of the following types of air conditioners and how many units do you have? - %s Number of Units

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### Q8\_Heat pump

#### **REPORT FILTER (452)**

CODE	ANSWER OPTION	n	%
1	%s Number of Units	133	29%
2	Do not have this type of unit	289	64%
3	Don't Know	30	7%

#### Q8\_Heat pump - %s Number of Units

#### - %s Number of Units

	ANSWER OPTION
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#### Q8\_air conditioner

### REPORT FILTER (452)

CODE	ANSWER OPTION	n	%
1	%s Number of Units	69	15%
2	Do not have this type of unit	376	83%
3	Don't Know	7	2%

#### Q8\_air conditioner - %s Number of Units

#### - %s Number of Units

### **REPORT FILTER (477)**

# ANSWER OPTION

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#### Q8\_Heat pump\_mini

**REPORT FILTER (452)** 

CODE	ANSWER OPTION	n	%
1	%s Number of Units	18	4%
2	Do not have this type of unit	408	90%
3	Don't Know	26	6%

Q8\_Heat pump\_mini - %s Number of Units

- %s Number of Units

	ANSWER OPTION
1	
1	
1	

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### Q9\_central air\_unit1

### Central air

#### REPORT FILTER (371)

CODE	ANSWER OPTION	n	%
1	Year Installed :	290	78%
2	Don't Know	81	22%

#### Q9\_central air\_unit1 - Year Installed :

#### Central air - Year Installed :

ANSWER OPTION
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# Q9\_central air\_unit2

# **REPORT FILTER (57)**

CODE	ANSWER OPTION	n	%
1	Year Installed :	45	79%
2	Don't Know	12	21%

# Q9\_central air\_unit2 - Year Installed :

#### - Year Installed :

ANSWER OPTION
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1997	
2015	
2005	
2012	
2005	
2018	
2017	
2017	
2010	
2016	
2020	
2005	
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2005	
2018	
2020	
2015	
2018	
2010	
1982	

# Q9\_central air\_unit3

**REPORT FILTER (8)** 

CODE	ANSWER OPTION	n	%
1	Year Installed :	6	75%
2	Don't Know	2	25%

Q9\_central air\_unit3 - Year Installed :

# - Year Installed :

ANSWER OPTION	
2012	
2017	
2013	
2000	
2010	
2011	

### Q9\_central air\_unit4

# REPORT FILTER (2)

CODE	ANSWER OPTION	n	%
1	Year Installed :	1	50%
2	Don't Know	1	50%

# Q9\_central air\_unit4 - Year Installed :

#### - Year Installed :

# **REPORT FILTER (477)**

ANSWER OPTION	
2010	

#### Q9\_central air\_unit5

## REPORT FILTER (0)

CODE	ANSWER OPTION	n	%
1	Year Installed :	0	0%
2	Don't Know	0	0%

Q9\_central air\_unit5 - Year Installed :

# - Year Installed :

REPORT FILTER (477)

### Q9\_central air\_unit6

# REPORT FILTER (0)

CODE	ANSWER OPTION	n	%
1	Year Installed :	0	0%
2	Don't Know	0	0%

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Q9\_central air\_unit6 - Year Installed :

- Year Installed :

**REPORT FILTER (477)** 

Q9\_Heat pump\_unit1

#### Heat pump

# REPORT FILTER (133)

CODE	ANSWER OPTION	n	%
1	Year Installed :	111	83%
2	Don't Know	22	17%

# Q9\_Heat pump\_unit1 - Year Installed :

# Heat pump - Year Installed :

ANSWER OPTION
2019
2003
2013
2009
2019
2019
2011
2021
2012
2019
2005
2015
2019
2010
2011
2020
2013
2007
2012
2014
2006

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2010	
2010	
2020	
2014	
2021	
2020	
2010	
2021	
2022	
2014	
2021	
2021	
2013	
2021	
2002	
2019	
2009	
2009	
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2021	
2022	
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2007	
1996	
2018	
2018	
2019	
2010	
2002	
2018	
2007	
2016	
2019	
2004	
2008	
2021	
2004	
2012	
2012	
2018	
2010	
2020	

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2009	
2013	
2016	
2018	
2019	
2006	
2013	
2015	
2016	
2018	
2010	
2017	
2015	
2004	
2001	
999	
2013	
2015	
2021	
2020	
2012	
2008	
2005	
2010	
998	
2010	
2019	
2019	
2015	
2007	
2017	
2016	
2002	
2003	
2014	
2016	
2016	
2021	
2022	
2017	
2015	
2014	
2010	
2017	

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2008	
2007	

Q9\_Heat pump\_unit2

**REPORT FILTER (22)** 

CODE	ANSWER OPTION	n	%
1	Year Installed :	18	82%
2	Don't Know	4	18%

Q9\_Heat pump\_unit2 - Year Installed :

## - Year Installed :

**REPORT FILTER (477)** 

ANSWER OPTION
11
12
11
13
07
09
18
04
21
16
10
14
20
05
10
20
15
90

# Q9\_Heat pump\_unit3

CODE	ANSWER OPTION	n	%
1	Year Installed :	3	75%
2	Don't Know	1	25%

Q9\_Heat pump\_unit3 - Year Installed :

#### - Year Installed :

**REPORT FILTER (477)** 

ANSWER OPTION	
2012	
2013	
2010	

#### Q9\_Heat pump\_unit4

REPORT FILTER (1)

CODE	ANSWER OPTION	n	%
1	Year Installed :	0	0%
2	Don't Know	1	100%

Q9\_Heat pump\_unit4 - Year Installed :

- Year Installed :

REPORT FILTER (477)

Q9\_Heat pump\_unit5

# REPORT FILTER (0)

CODE	ANSWER OPTION	n	%
1	Year Installed :	0	0%
2	Don't Know	0	0%

Q9\_Heat pump\_unit5 - Year Installed :

#### - Year Installed :

REPORT FILTER (477)

Q9\_Heat pump\_unit6

REPORT FILTER (0)

CODE	ANSWER OPTION	n	%
1	Year Installed :	0	0%
2	Don't Know	0	0%

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Q9\_Heat pump\_unit6 - Year Installed :

- Year Installed :

**REPORT FILTER (477)** 

Q9\_air conditioner\_unit1

#### Window or wall mounted air conditioner

#### REPORT FILTER (69)

CODE	ANSWER OPTION	n	%
1	Year Installed :	50	72%
2	Don't Know	19	28%

Q9\_air conditioner\_unit1 - Year Installed :

#### Window or wall mounted air conditioner - Year Installed :

ANSWER OPTION
19
15
20
20
21
22
21
21
18
19
17
19
21
12
18
15
18
21
18
21
13

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2018	
2022	
2015	
2017	
2009	
2018	
2019	
2017	
2010	
2020	
2020	
2021	
2015	
2019	
2010	
2016	
2015	
2020	
2017	
2018	
999	
2022	
2016	
2009	
2003	
2021	
2015	
2021	
2018	

Q9\_air conditioner\_unit2

**REPORT FILTER (21)** 

CODE	ANSWER OPTION	n	%
1	Year Installed :	18	86%
2	Don't Know	3	14%

Q9\_air conditioner\_unit2 - Year Installed :

- Year Installed :

**REPORT FILTER (477)** 

ANSWER OPTION

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019	
019	
019	
020	
015	
019	
021	
018	
017	
017	
015	
018	
016	
018	
018	
016	
022	
022	

Q9\_air conditioner\_unit3

REPORT FILTER (2)

CODE	ANSWER OPTION	n	%
1	Year Installed :	2	100%
2	Don't Know	0	0%

Q9\_air conditioner\_unit3 - Year Installed :

- Year Installed :

# **REPORT FILTER (477)**

ANSWER OPTION	
2018	
2018	

# Q9\_air conditioner\_unit4

# REPORT FILTER (0)

CODE	ANSWER OPTION	n	%
1	Year Installed :	0	0%
2	Don't Know	0	0%

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Q9\_air conditioner\_unit4 - Year Installed :

- Year Installed :

**REPORT FILTER (477)** 

Q9\_air conditioner\_unit5

REPORT FILTER (0)

CODE	ANSWER OPTION	n	%
1	Year Installed :	0	0%
2	Don't Know	0	0%

Q9\_air conditioner\_unit5 - Year Installed :

- Year Installed :

REPORT FILTER (477)

#### Q9\_air conditioner\_unit6

#### REPORT FILTER (0)

CODE	ANSWER OPTION	n	%
1	Year Installed :	0	0%
2	Don't Know	0	0%

Q9\_air conditioner\_unit6 - Year Installed :

- Year Installed :

**REPORT FILTER (477)** 

Q9\_Heat pump mini split\_unit1

#### Heat pump mini split

#### REPORT FILTER (18)

CODE	ANSWER OPTION	n	%
1	Year Installed :	16	89%
2	Don't Know	2	11%

Q9\_Heat pump mini split\_unit1 - Year Installed :

## Heat pump mini split - Year Installed :

## **REPORT FILTER (477)**

ANSWER OPTION
2010
2022
2013
2020
2019
2019
2021
2017
2019
2004
2018
1990
2015
2007
2014
2020

#### Q9\_Heat pump mini split\_unit2

### REPORT FILTER (4)

CODE	ANSWER OPTION	n	%
1	Year Installed :	3	75%
2	Don't Know	1	25%

Q9\_Heat pump mini split\_unit2 - Year Installed :

### - Year Installed :

#### **REPORT FILTER (477)**

ANSWER OPTION
2018
1990
2014

# Q9\_Heat pump mini split\_unit3

REPORT FILTER (2)

CODE ANSWER OPTION	n	%
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1	Year Installed :	2	100%
2	Don't Know	0	0%

Q9\_Heat pump mini split\_unit3 - Year Installed :

#### - Year Installed :

**REPORT FILTER (477)** 

ANSWER OPTION	
2018	
2014	

#### Q9\_Heat pump mini split\_unit4

**REPORT FILTER (2)** 

CODE	ANSWER OPTION	n	%
1	Year Installed :	2	100%
2	Don't Know	0	0%

Q9\_Heat pump mini split\_unit4 - Year Installed :

#### - Year Installed :

**REPORT FILTER (477)** 

ANSWER OPTION	
2018	
2014	

#### Q9\_Heat pump mini split\_unit5

**REPORT FILTER (2)** 

CODE	ANSWER OPTION	n	%
1	Year Installed :	2	100%
2	Don't Know	0	0%

Q9\_Heat pump mini split\_unit5 - Year Installed :

#### - Year Installed :

ANSWER OPTION	
2018	

2014

Q9\_Heat pump mini split\_unit6

REPORT FILTER (2)

CODE	ANSWER OPTION	n	%
1	Year Installed :	2	100%
2	Don't Know	0	0%

Q9\_Heat pump mini split\_unit6 - Year Installed :

# - Year Installed :

### **REPORT FILTER (477)**

ANSWER OPTION	
2018	
2014	

#### Q10

Does your household own any of the following appliances? And which, if any, of the following appliances are high efficiency?

CODE	ANSWER OPTION	n	%
	Clothes dryer		
1	Yes, not high efficiency	163	34%
2	Yes, high efficiency	275	58%
3	No	22	5%
4	Don't know	17	4%
	Clothes washer		
1	Yes, not high efficiency	128	27%
2	Yes, high efficiency	319	67%
3	No	16	3%
4	Don't know	14	3%
	Dishwasher		
1	Yes, not high efficiency	138	29%
2	Yes, high efficiency	229	48%
3	No	87	18%
4	Don't know	23	5%
	Refrigerator		
1	Yes, not high efficiency	186	39%
2	Yes, high efficiency	253	53%
3	No	9	2%

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4	Don't know	29	6%
	Water heater		
1	Yes, not high efficiency	194	41%
2	Yes, high efficiency	208	44%
3	No	16	3%
4	Don't know	59	12%

Q1

About how many square feet of living space does your residence contain (excluding garages, attics and basements not used for living quarters)?

REPORT FILTER (477)

		Louisville G	as & Electric
CODE	ANSWER OPTION	n	%
1	Under 1,000 sq. ft.	16	8%
2	1,000 – 1,499 sq. ft.	59	28%
3	1,500 – 1,999 sq. ft.	41	20%
4	2,000 – 2,499 sq. ft.	39	19%
5	2,500 – 2,999 sq. ft.	17	8%
6	3,000 or more sq. ft.	29	14%
7	Don't know	8	4%

#### Q2

How is your home primarily heated?

		Louisville Ga	as & Electric
CODE	ANSWER OPTION	n	%
1	Natural gas furnace	156	75%
2	Electric furnace	24	11%
3	Heat pump	20	10%
4	Baseboard	0	0%
5	Wood stove	0	0%
6	Electric space heaters	2	1%
7	LP/Bottled Gas/Propane	0	0%
97	Other	3	1%
98	Don't know	4	2%

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## Q3

Please specify the type of heat pump used to primarily heat your home.

#### **REPORT FILTER (120)**

		Louisville Ga	as & Electric
CODE	ANSWER OPTION	n	%
1	Heat pump with gas furnace backup	9	45%
2	Heat pump with electric furnace backup	10	50%
3	Heat pump with no furnace backup	0	0%
98	Don't know	1	5%

#### Q5

#### Do you have other heating equipment that is used on a regular basis?

# **REPORT FILTER (477)**

		Louisville Ga	as & Electric
CODE	ANSWER OPTION	n	%
1	Natural gas furnace	17	8%
1	Electric furnace	6	3%
1	Heat pump	12	6%
1	Baseboard	0	0%
1	Wood stove	5	2%
1	Electric space heaters	63	30%
1	LP/Bottled Gas/Propane	2	1%
1	Other	8	4%
1	Don't know	3	1%
1	None of the above	110	53%

#### Q6

Please specify the type of heat pump used on a regular basis.

REPORT FILTER (32)

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		Louisville G	as & Electric
CODE	ANSWER OPTION	n	%
1	Heat pump with gas furnace backup	6	50%
2	Heat pump with electric furnace backup	4	33%
3	Heat pump with no furnace backup	2	17%
98	Don't know	0	0%

Q7

#### Do you have an air conditioner in your home?

# **REPORT FILTER (477)**

		Louisville Ga	as & Electric
CODE	ANSWER OPTION	n	%
1	Yes	204	98%
2	No	5	2%

# Q8\_Central air

### Which of the following types of air conditioners and how many units do you have?

### REPORT FILTER (452)

		Louisville Ga	as & Electric
CODE	ANSWER OPTION	n	%
1	%s Number of Units	188	92%
2	Do not have this type of unit	15	7%
3	Don't Know	1	0%

Q8\_Heat pump

**REPORT FILTER (452)** 

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		Louisville Ga	as & Electric
CODE	ANSWER OPTION	n	%
1	%s Number of Units	33	16%
2	Do not have this type of unit	160	78%
3	Don't Know	11	5%

# Q8\_air conditioner

# **REPORT FILTER (452)**

		Louisville Ga	as & Electric
CODE	ANSWER OPTION	n	%
1	%s Number of Units	35	17%
2	Do not have this type of unit	169	83%
3	Don't Know	0	0%

# Q8\_Heat pump\_mini

# **REPORT FILTER (452)**

		Louisville Ga	as & Electric
CODE	ANSWER OPTION	n	%
1	%s Number of Units	9	4%
2	Do not have this type of unit	184	90%
3	Don't Know	11	5%

# Q9\_central air\_unit1

# Central air

# REPORT FILTER (371)

		Louisville Ga	as & Electric
CODE	ANSWER OPTION	n	%
1	Year Installed :	156	83%
2	Don't Know	32	17%

Q9\_central air\_unit2 REPORT FILTER (57)

		Louisville Ga	as & Electric
CODE	ANSWER OPTION	n	%
1	Year Installed :	16	73%
2	Don't Know	6	27%

# Q9\_central air\_unit3

### **REPORT FILTER (8)**

		Louisville Ga	as & Electric
CODE	ANSWER OPTION	n	%
1	Year Installed :	2	67%
2	Don't Know	1	33%

# Q9\_central air\_unit3

# **REPORT FILTER (8)**

		Louisville Ga	as & Electric
CODE	ANSWER OPTION	n	%
1	Year Installed :	2	67%
2	Don't Know	1	33%

Q9\_central air\_unit4

REPORT FILTER (2)

		Louisville Gas & Electric
CODE	ANSWER OPTION	n %

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1	Year Installed :	1	100%
2	Don't Know	0	0%

Q9\_central air\_unit5

REPORT FILTER (0)

CODE	ANSWER OPTION		as & Electric
CODE	ANSWER OPTION	n	70
1	Year Installed :	0	0%
2	Don't Know	0	0%

### Q9\_central air\_unit6

# REPORT FILTER (0)

		Louisville Ga	as & Electric
CODE	ANSWER OPTION	n	%
1	Year Installed :	0	0%
2	Don't Know	0	0%

# Q9\_Heat pump\_unit1

# Heat pump

# REPORT FILTER (133)

		Louisville Ga	as & Electric
CODE	ANSWER OPTION	n	%
1	Year Installed :	30	91%
2	Don't Know	3	9%

Q9\_Heat pump\_unit2 REPORT FILTER (22)

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		Louisville Ga	as & Electric
CODE	ANSWER OPTION	n	%
1	Year Installed :	2	67%
2	Don't Know	1	33%

# Q9\_Heat pump\_unit3

# **REPORT FILTER (4)**

		Louisville Ga	as & Electric
CODE	ANSWER OPTION	n	%
1	Year Installed :	0	0%
2	Don't Know	0	0%

# Q9\_Heat pump\_unit4

REPORT FILTER (1)

		Louisville Ga	as & Electric
CODE	ANSWER OPTION	n	%
1	Year Installed :	0	0%
2	Don't Know	0	0%

# Q9\_Heat pump\_unit5

REPORT FILTER (0)

		Louisville Ga	as & Electric
CODE	ANSWER OPTION	n	%
1	Year Installed :	0	0%
2	Don't Know	0	0%

Q9\_Heat pump\_unit6

# REPORT FILTER (0)

		Louisville Ga	as & Electric
CODE	ANSWER OPTION	n	%
1	Year Installed :	0	0%
2	Don't Know	0	0%

Q9\_air conditioner\_unit1

#### Window or wall mounted air conditioner

REPORT FILTER (69)

		Louisville Ga	as & Electric
CODE	ANSWER OPTION	n	%
1	Year Installed :	27	77%
2	Don't Know	8	23%

# Q9\_air conditioner\_unit2

REPORT FILTER (21)

		Louisville Ga	as & Electric
CODE	ANSWER OPTION	n	%
1	Year Installed :	8	89%
2	Don't Know	1	11%

Q9\_air conditioner\_unit3

REPORT FILTER (2)

		Louisville Ga	as & Electric
CODE	ANSWER OPTION	n	%
1	Year Installed :	1	100%

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2	Don't Know	0	0%

Q9\_air conditioner\_unit4

REPORT FILTER (0)

		Louisville Ga	as & Electric
CODE	ANSWER OPTION	n	%
1	Year Installed :	0	0%
2	Don't Know	0	0%

# Q9\_air conditioner\_unit5

# REPORT FILTER (0)

		Louisville Ga	as & Electric
CODE	ANSWER OPTION	n	%
1	Year Installed :	0	0%
2	Don't Know	0	0%

### Q9\_air conditioner\_unit6

REPORT FILTER (0)

		Louisville Ga	as & Electric
CODE	ANSWER OPTION	n	%
1	Year Installed :	0	0%
2	Don't Know	0	0%

# Q9\_Heat pump mini split\_unit1

# Heat pump mini split

REPORT FILTER (18)

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		Louisville Ga	as & Electric
CODE	ANSWER OPTION	n	%
1	Year Installed :	8	89%
2	Don't Know	1	11%

### Q9\_Heat pump mini split\_unit2

REPORT FILTER (4)

		Louisville Ga	as & Electric
CODE	ANSWER OPTION	n	%
1	Year Installed :	1	100%
2	Don't Know	0	0%

# Q9\_Heat pump mini split\_unit3

# **REPORT FILTER (2)**

		Louisville Ga	as & Electric
CODE	ANSWER OPTION	n	%
1	Year Installed :	0	0%
2	Don't Know	0	0%

# Q9\_Heat pump mini split\_unit4

REPORT FILTER (2)

		Louisville Ga	as & Electric
CODE	ANSWER OPTION	n n	%
1	Year Installed :	0	0%
2	Don't Know	0	0%

Q9\_Heat pump mini split\_unit5 REPORT FILTER (2)

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		Louisville Ga	as & Electric
CODE	ANSWER OPTION	n	%
1	Year Installed :	0	0%
2	Don't Know	0	0%

# Q9\_Heat pump mini split\_unit6

# **REPORT FILTER (2)**

		Louisville Ga	as & Electric
CODE	ANSWER OPTION	n	%
1	Year Installed :	0	0%
2	Don't Know	0	0%

### Q10

Does your household own any of the following appliances? And which, if any, of the following appliances are high efficiency?

		Louisville Gas & Electric	
CODE	ANSWER OPTION	n	%
	Clothes dryer		
1	Yes, not high efficiency	84	40%
2	Yes, high efficiency	115	55%
3	No	6	3%
4	Don't know	4	2%
	Clothes washer		
1	Yes, not high efficiency	63	30%
2	Yes, high efficiency	135	65%
3	No	7	3%
4	Don't know	4	2%
	Dishwasher		
1	Yes, not high efficiency	64	31%
2	Yes, high efficiency	100	48%
3	No	38	18%

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4	Don't know	7	3%
	Refrigerator		
1	Yes, not high efficiency	87	42%
2	Yes, high efficiency	109	52%
3	No	3	1%
4	Don't know	10	5%
	Water heater		
1	Yes, not high efficiency	96	46%
2	Yes, high efficiency	86	41%
3	No	6	3%
4	Don't know	21	10%

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	[v_139] Prog_m_utility								
Kentucky Utilities		Old Dominion Power		LG&E and KU					
n	%	n	%	n	%				
24	10%	0	0%	0	0%				
68	28%	6	35%	1	14%				
45	18%	3	18%	3	43%				
50	20%	2	12%	2	29%				
25	10%	3	18%	1	14%				
24	10%	2	12%	0	0%				
8	3%	1	6%	0	0%				

	[v_139] Prog_m_utility									
Kentucky Utilities		Old Dominion Power		LG&E and KU						
n	%	n	%	n	%					
87	36%	0	0%	6	86%					
39	16%	1	6%	0	0%					
84	34%	15	88%	1	14%					
0	0%	1	6%	0	0%					
5	2%	0	0%	0	0%					
5	2%	0	0%	0	0%					
8	3%	0	0%	0	0%					
13	5%	0	0%	0	0%					
3	1%	0	0%	0	0%					

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[v_139] Prog_m_utility							
Kentucky	y Utilities	Old Domir	nion Power	LG&E a	and KU		
n	%	n	%	n	%		
10	12%	1	7%	1	100%		
51	61%	11	73%	0	0%		
18	21%	2	13%	0	0%		
5	6%	1	7%	0	0%		

	[v_139] Prog_m_utility									
Kentuck	Kentucky Utilities		Old Dominion Power		LG&E and KU					
n	%	n	%	n	%					
11	5%	1	6%	2	29%					
5	2%	0	0%	0	0%					
19	8%	0	0%	1	14%					
8	3%	2	12%	0	0%					
4	2%	1	6%	0	0%					
59	24%	3	18%	0	0%					
10	4%	7	41%	0	0%					
18	7%	1	6%	1	14%					
1	0%	0	0%	0	0%					
121	50%	3	18%	4	57%					

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[v_139] Prog_m_utility								
Kentucky	y Utilities	Old Domir	ion Power	LG&E a	and KU			
n	%	n	%	n	%			
3	16%	0	0%	1	100%			
11	58%	0	0%	0	0%			
4	21%	0	0%	0	0%			
1	5%	0	0%	0	0%			

[v_139] Prog_m_utility								
Kentucky	∕ Utilities	Old Domir	ion Power	LG&E a	and KU			
n	%	n	%	n	%			
231	95%	11	65%	6	86%			
13	5%	6	35%	1	14%			

[v_139] Prog_m_utility							
Kentucky Utilities Old Dominion Por			ion Power	LG&E a	and KU		
n	%	n	%	n	%		
177	77%	0	0%	6	100%		
46	20%	10	91%	0	0%		
8	3%	1	9%	0	0%		

## [v\_139] Prog\_m\_utility

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Kentucky Utilities		Old Dominion Power		LG&E and KU	
n	%	n	%	n	%
89	39%	10	91%	1	17%
123	53%	1	9%	5	83%
19	8%	0	0%	0	0%

[v_139] Prog_m_utility								
Kentucky	Kentucky Utilities Old Dominion Power LG&E		Old Dominion Power		and KU			
n	%	n	%	n	%			
32	14%	2	18%	0	0%			
192	83%	9	82%	6	100%			
7	3%	0	0%	0	0%			

	[v_139] Prog_m_utility								
Kentucky Utilities Old Domin		nion Power	LG&E a	and KU					
n	%	n	%	n	%				
8	3%	0	0%	1	17%				
210	91%	9	82%	5	83%				
13	6%	2	18%	0	0%				

	[v_139] Prog_m_utility								
Kentuck	y Utilities	Old Domir	LG&E a	and KU					
n	%	n	%	n	%				
129	73%	0	0%	5	83%				
48	27%	0	0%	1	17%				

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	[v_139] Prog_m_utility								
Kentucky	tucky Utilities Old Dominion Power LG&E and F		and KU						
n	%	n	%	n	%				
29	83%	0	0%	0	0%				
6	17%	0	0%	0	0%				

	[v_139] Prog_m_utility									
Kentucky Utilities Old Dominion Power LG&E and KU					and KU					
n	%	n	%	n	%					
4 80%		0	0%	0	0%					
1	20%	0	0%	0	0%					

	[v_139] Prog_m_utility									
Kentucky Utilities Old Dominion Power LG&E and KU										
n	%	n	%	n	%					
4	80%	0	0%	0	0%					
1	20%	0	0%	0	0%					

	[v_139] Prog_m_utility									
Kentucky	Kentucky Utilities Old Dominion Power LG&E and KU									
n	n % n % n %									

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0	0%	0	0%	0	0%
1	100%	0	0%	0	0%

	[v_139] Prog_m_utility									
Kentucky Utilities Old Dominion Power LG&E and KU										
n	%	n	%	n	%					
0	0%	0	0%	0	0%					
0	0%	0	0%	0	0%					

	[v_139] Prog_m_utility									
Kentucky Utilities Old Dominion Power LG&E and KU										
n	%	n	%	n	%					
0	0%	0	0%	0	0%					
0	0%	0	0%	0	0%					

	[v_139] Prog_m_utility								
Kentucky Utilities Old Dominion Power				LG&E	and KU				
n	n % n %				%				
71	80%	10	100%	0	0%				
18 <b>20%</b> 0 <b>0%</b>				1	100%				

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	[v_139] Prog_m_utility									
Kentucky Utilities Old Dominion Power LG&E and KU										
n	%	n	%	n	%					
14	82%	2	100%	0	0%					
3	18%	0	0%	0	0%					

	[v_139] Prog_m_utility								
Kentucky Utilities Old Dominion Power LG&E and KU									
n	%	n	%	n	%				
3	3 <b>75%</b> 0 <b>0%</b>		0	0%					
1 <b>25%</b> 0 <b>0%</b> 0					0%				

	[v_139] Prog_m_utility								
Kentucky Utilities Old Dominion Power LG&E and KU									
n	%	n	%	n	%				
0	0%	0	0%	0	0%				
1	100%	0	0%	0	0%				

	[v_139] Prog_m_utility									
Kentucky Utilities Old Dominion Power LG&E and KU										
n	%	n	%	n	%					
0 <b>0%</b>		0	0%	0	0%					
0	0%	0	0%	0	0%					

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	[v_139] Prog_m_utility									
	Kentucky	/ Utilities	Old Dominion Power		LG&E a	and KU				
	n	%	n	%	n	%				
Γ	0	0%	0	0%	0	0%				
	0	0%	0	0%						

		[v_139] Prog_m_utility					
Kent	ucky	/ Utilities	Old Dominion Power LG&E and K				
	n	%	n	%	n	%	
	21	66%	2	100%	0	0%	
	11	34%	0	0%	0	0%	

	[v_139] Prog_m_utility				
Kentuck	y Utilities Old Dominion Power LG&E and KU				
n	%	n	%	n	%
8	80%	2	100%	0	0%
2	20%	0	0%	0	0%

	[v_139] Pro	)] Prog_m_utility				
Kentucky	y Utilities	Old Domir	nion Power	LG&E a	and KU	
n	%	n	%	n	%	
1	100%	0	0%	0	0%	

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0	0%	0	0%	0	0%
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	[v_139] Pro	[v_139] Prog_m_utility					
Kentucky	y Utilities	Old Dominion Power LG&E and KU					
n	%	n	%	n	%		
0	0%	0	0%	0	0%		
0	0%	0	0%	0	0%		

	[v_139] Pro	[v_139] Prog_m_utility					
Kentuck	/ Utilities	Old Dominion Power LG&E and KU					
n	%	n	%	n	%		
0	0%	0	0%	0	0%		
0	0%	0	0%	0	0%		

	[v_139] Prog_m_utility					
Kentuck	y Utilities	Old Domir	nion Power	LG&E a	and KU	
n	%	n	%	n	%	
0	0%	0	0%	0	0%	
0	0%	0	0%	0	0%	

## [v\_139] Prog\_m\_utility

Kentucky	/ Utilities	Old Domir	nion Power	LG&E	and KU
n	%	n	%	n	%
7	88%	0	0%	1	100%
1	13%	0	0%	0	0%

	[v_139] Prc	Prog_m_utility				
Kentuck	y Utilities	Old Dominion Power LG&E and KU				
n	%	n	%	n	%	
2	67%	0	0%	0	0%	
1	33%	0	0%	0	0%	

	[v_139] Prog_m_utility				
Kentuck	y Utilities	Old Domir	ion Power	LG&E a	and KU
n	%	n	%	n	%
2	100%	0	0%	0	0%
0	0%	0	0%	0	0%

	[v_139] Prog_m_utility					
Kentuck	y Utilities	es Old Dominion Power LG&E and KU				
n	%	n	%	n	%	
2	100%	0	0%	0	0%	
0	0%	0	0%	0	0%	

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	[v_139] Pro	g_m_utility			
Kentuck	y Utilities	Old Domir	ion Power	LG&E a	and KU
n	%	n	%	n	%
2	100%	0	0%	0	0%
0	0%	0	0%	0	0%

[v_139] Prog_m_utility							
Kentucky Utilities		Old Dominion Power		LG&E and KU			
n	%	n	%	n	%		
2	100%	0	0%	0	0%		
0	0%	0	0%	0	0%		

[v_139] Prog_m_utility						
Kentucky Utilities		Old Dominion Power		LG&E and KU		
n	%	n	%	n	%	
69	28%	6	35%	4	57%	
147	60%	10	59%	3	43%	
16	7%	0	0%	0	0%	
12	5%	1	6%	0	0%	
57	23%	7	41%	1	14%	
168	69%	10	59%	6	86%	
9	4%	0	0%	0	0%	
10	4%	0	0%	0	0%	
66	27%	5	29%	3	43%	
117	48%	8	47%	4	57%	
45	18%	4	24%	0	0%	

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7%	16	0	0%	0	0%
	]				
37%	91	5	29%	3	43%
53%	130	10	59%	4	57%
2%	6	0	0%	0	0%
7%	17	2	12%	0	0%
37%	90	4	24%	4	57%
45%	111	9	53%	2	29%
4%	10	0	0%	0	0%
14%	33	4	24%	1	14%