APPENDIX A. DATA TABLES FROM SURVEYS AND SITE VISITS

This appendix presents findings for the New York State Energy Research and Development Authority (NYSERDA) 2019 Residential Building Stock Assessment (RBSA) based on data collected through online and telephone surveys and site visits. The title of each table indicates whether that table is based on survey data (Survey), site visit data (Site), or both (Survey and Site). Cadmus developed and applied sampling weights to ensure that all observations were weighted proportionally to the segment of the population represented by the sample. Refer to Appendix B. Detailed Methodology for a description of the weighting methods.

Where practical during analysis, Cadmus tested for statistically significant differences between results of the current study and the 2015 RSBS. Statistically significant differences between the two reports are denoted by either a ▲ or ▼ symbol, indicating whether the 2019 RBSA value is higher or lower than the value in the 2015 RSBS study. These 2019 RBSA tables also identify which table in the previous study, if applicable, was used to draw conclusions about each statistically significant difference.

New tables and categories presented in this document that do not have a corollary in the 2015 RSBS do not have symbols indicating statistically significant increases or decreases from the 2015 RSBS, though statistically significant differences may exist. Without a comparable table in the 2015 RSBS report, statistical testing could not be performed.

Because of the small sample size for new homes site visits in Climate Zone 4, new home site visit results for Climate Zone 4 should not be considered representative. To eliminate the possibility of those results skewing Climate Zone 4 results for existing and new homes or overall statewide results, Cadmus eliminated observations for those five homes when calculating site visit results. For tables that present results for new homes by climate zone, values for Climate Zone 4 remain in the tables with shading and a table note regarding the small sample size, but these Climate Zone 4 values do not impact other results.

All tables include n values to document sample sizes along with error bounds to provide a measure of the uncertainty of the data. Cadmus calculated the error bounds (EB) as the standard error multiplied by a t-statistic and provide the half-width of the 90% confidence interval. Error bounds, or absolute precision, have the same units as the estimate. When reporting precision, absolute precision is typically reported for percentages or distributions while relative precision is typically reported for means or totals. To calculate the relative precision for a given mean or total, divide the EB by the associated estimate. With percentages, the reported EB represents the absolute precision.

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1.1 RBSA Tables

TABLE 1. WEB AND TELEPHONE SURVEY SITE WEIGHTS

Climate Zone	Population		Survey Completions		Survey Weights	
	Existing Homes	New Homes	Existing Homes	New Homes	Existing Homes	New Homes
Climate Zone 4	2,516,613	12,105	515	38	4,886.63	318.55
Climate Zone 5	1,945,375	18,451	913	420	2,130.75	43.93
Climate Zone 6	807,178	7,169	407	126	1,983.24	56.90
Total	5,269,166	37,725	1,835	584		

Source: Population estimates for existing homes were based on 2016 ACS 5-Year Estimates. Population estimates for new homes were based on Building Permits Survey data from census.gov.

TABLE 2. SITE VISIT SITE WEIGHTS

Climate Zone	Population		Site Visit Completions		Site Visit Weights	
	Existing Homes	New Homes	Existing Homes	New Homes	Existing Homes	New Homes
Climate Zone 4	2,516,613	12,105	85	5	29,607.21	2,421.00
Climate Zone 5	1,945,375	18,451	206	68	9,443.57	271.34
Climate Zone 6	807,178	7,169	70	22	11,531.11	325.86
Total	5,269,166	37,725	361	95		

Source: Population estimates for existing homes were based on 2016 ACS 5-Year Estimates. Population estimates for new homes were based on Building Permits Survey data from census.gov.

TABLE 3. NUMBER OF HOUSEHOLD MEMBERS BY AGE AND CLIMATE ZONE (SURVEY)
COMPARE WITH TABLE 24, VOLUME 5, IN 2015 RSBS.

Age	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	Mean	EB	Mean	EB	Mean	EB	Mean	EB
Less than 5 Years	0.1▼	0.0	0.2	0.0	0.2	0.0	0.2▼	0.0
6 to 17 Years	0.5	0.1	0.4	0.0	0.4	0.1	0.4	0.0
18 to 24 Years	0.3	0.0	0.2	0.0	0.1▼	0.0	0.2	0.0
25 to 34 Years	0.3	0.1	0.3▼	0.0	0.3	0.1	0.3▼	0.0
35 to 44 Years	0.3▼	0.0	0.3	0.0	0.3	0.0	0.3	0.0
45 to 54 Years	0.4	0.1	0.4	0.0	0.3	0.1	0.4	0.0
55 to 64 Years	0.6	0.1	0.5▲	0.0	0.5	0.1	0.5▲	0.0
65 Years or Older	0.6▲	0.1	0.5▲	0.1	0.5	0.1	0.5▲	0.0
Total Household Members	3.1	0.1	2.6▲	0.1	2.5	0.1	2.8	0.1
Respondents (n)	476	476	1,224	1,224	497	497	2,197	2,197

Source: Survey fields: ['Number of People Age 25-34', 'Number of People Age <5', 'Number of People Age 6-17', 'Number of People Age 18-24', 'Number of People Age 35-44', 'Number of People Age 45-54', 'Number of People Age 55-64', 'Number of People Age >65', 'Climate Zone'].

TABLE 4. NUMBER OF HOUSEHOLD MEMBERS BY AGE AND HOME VINTAGE (SURVEY)

COMPARE WITH TABLE 25, VOLUME 5, IN 2015 RSBS.

Age	Existing Homes		New Homes		Overall Statewide	
	Mean	EB	Mean	EB	Mean	EB
Less than 5 Years	0.2▼	0.0	0.3	0.1	0.2▼	0.0
6 to 17 Years	0.4	0.0	0.5	0.1	0.4	0.0
18 to 24 Years	0.2	0.0	0.1	0.1	0.2	0.0
25 to 34 Years	0.3▼	0.0	0.5	0.1	0.3▼	0.0
35 to 44 Years	0.3	0.0	0.5	0.1	0.3	0.0
45 to 54 Years	0.4	0.0	0.4	0.1	0.4	0.0
55 to 64 Years	0.5▲	0.0	0.4	0.1	0.5▲	0.0
65 Years or Older	0.5▲	0.0	0.3	0.0	0.5▲	0.0
Total Household Members	2.8	0.1	3.1	0.2	2.8	0.1
Respondents (n)	1,662	1,662	535	535	2,197	2,197

Source: Survey fields: ['Number of People Age 25-34', 'Number of People Age <5', 'Number of People Age 6-17', 'Number of People Age 18-24', 'Number of People Age 35-44', 'Number of People Age 45-54', 'Number of People Age 55-64', 'Number of People Age >65', 'Construction Type'].

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TABLE 5. HIGHEST LEVEL OF EDUCATION BY CLIMATE ZONE (SURVEY)

COMPARE WITH TABLE 26, VOLUME 5, IN 2015 RSBS.

Education	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Less than High School	0.0%	0.0%	0.2%	0.3%	0.0%	0.0%	0.1%▼	0.1%
Some High School	0.0%▼	0.0%	0.1%▼	0.2%	0.3%	0.4%	0.1%▼	0.1%
High School Graduate or Equivalent (e.g., GED)	3.4%▼	1.4%	6.6%▼	1.4%	7.2%▼	2.1%	5.2%▼	0.9%
Trade or Technical School	0.9%▼	0.7%	2.7%▼	0.9%	4.1%▼	1.6%	2.1%▼	0.5%
Some College, No Degree	6.8%▼	1.9%	11.7%	1.8%	13.4%	2.8%	9.6%▼	1.2%
College Degree (e.g., Bachelor's Degree)	38.7%▲	3.7%	35.0%▲	2.6%	41.2%▲	4.1%	37.7%▲	2.1%
Some Graduate School	6.4%	1.8%	5.9%	1.3%	3.3%	1.5%	5.8%	1.0%
Graduate Degree (e.g., Master's or Doctorate Degree)	43.9%	3.8%	37.7%▲	2.7%	30.5%	3.8%	39.5%▲	2.1%
Respondents (n)	505	505	1,279	1,279	511	511	2,295	2,295

Source: Survey fields: ['Highest Education Level', 'Climate Zone'].

TABLE 6. HIGHEST LEVEL OF EDUCATION BY HOME VINTAGE (SURVEY)
COMPARE WITH TABLE 27, VOLUME 5, IN 2015 RSBS.

Education	Existing Homes		New Homes		Overall Statewide	
	%	EB	%	EB	%	EB
Less than High School	0.1%▼	0.1%	0.0%	0.0%	0.1%▼	0.1%
Some High School	0.1%▼	0.1%	1.3%	1.5%	0.1%▼	0.1%
High School Graduate or Equivalent (e.g., GED)	5.2%▼	0.9%	3.1%	1.7%	5.2%▼	0.9%
Trade or Technical School	2.1%▼	0.5%	2.2%▼	1.6%	2.1%▼	0.5%
Some College, No Degree	9.7%▼	1.2%	6.6%	2.4%	9.6%▼	1.2%
College Degree (e.g., Bachelor's Degree)	37.7%▲	2.1%	34.0%	4.7%	37.7%▲	2.1%
Some Graduate School	5.8%	1.0%	5.0%	2.3%	5.8%	1.0%
Graduate Degree (e.g., Master's or Doctorate Degree)	39.5%▲	2.1%	48.0%	5.1%	39.5%▲	2.1%
Respondents (n)	1,733	1,733	562	562	2,295	2,295

Source: Survey fields: ['Highest Education Level', 'Construction Type'].

TABLE 7. 2017 ANNUAL HOUSEHOLD INCOME BY CLIMATE ZONE (SURVEY)

COMPARE WITH TABLE 6, VOLUME 1, IN 2015 RSBS.

Annual Income	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Less than $25,000	3.9%▼	1.8%	6.6%▼	1.5%	5.8%▼	2.1%	5.2%▼	1.1%
$25,000–Less than $30,000	2.6%	1.5%	4.2%	1.3%	5.5%	2.1%	3.6%▼	0.9%
$30,000–Less than $35,000	2.6%▼	1.5%	4.1%▼	1.2%	6.7%	2.3%	3.8%▼	0.9%
$35,000–Less than $50,000	4.2%▼	1.9%	10.6%▼	1.9%	10.1%▼	2.7%	7.5%▼	1.2%
$50,000–Less than $75,000	12.6%	3.1%	20.6%	2.5%	24.0%	3.9%	17.3%	1.9%
$75,000–Less than $100,000	17.4%	3.5%	17.7%	2.4%	21.4%	3.7%	18.1%	2.0%
$100,000–Less than $150,000	26.8%▲	4.1%	24.2%▲	2.7%	17.9%▲	3.5%	24.5%▲	2.3%
$150,000–Less than $200,000	13.8%▲	3.2%	8.0%▲	1.7%	5.3%	2.0%	10.3%▲	1.7%
$200,000 or More	16.2%	3.4%	4.0%	1.2%	3.4%	1.6%	9.7%	1.7%
Respondents (n)	334	334	1,006	1,006	425	425	1,765	1,765

Source: Survey fields: ['Household Income', 'Climate Zone'].

TABLE 8. 2017 ANNUAL HOUSEHOLD INCOME BY HOME VINTAGE (SURVEY)

COMPARE WITH TABLE 28, VOLUME 5, IN 2015 RSBS.

Annual Income	Existing Homes		New Homes		Overall Statewide	
	%	EB	%	EB	%	EB
Less than $25,000	5.2%▼	1.1%	3.2%	2.3%	5.2%▼	1.1%
$25,000–Less than $30,000	3.6%▼	0.9%	2.3%	2.3%	3.6%▼	0.9%
$30,000–Less than $35,000	3.8%▼	0.9%	4.1%	3.1%	3.8%▼	0.9%
$35,000–Less than $50,000	7.5%▼	1.2%	3.2%▼	1.3%	7.5%▼	1.2%
$50,000–Less than $75,000	17.3%	1.9%	14.8%	4.8%	17.3%	1.9%
$75,000–Less than $100,000	18.1%	2.0%	14.3%	3.3%	18.1%	2.0%
$100,000–Less than $150,000	24.4%▲	2.3%	32.7%	5.7%	24.5%▲	2.3%
$150,000–Less than $200,000	10.3%▲	1.7%	9.6%	2.2%	10.3%▲	1.7%
$200,000 or More	9.7%	1.8%	15.9%	5.1%	9.7%	1.7%
Respondents (n)	1,320	1,320	445	445	1,765	1,765

Source: Survey fields: ['Household Income', 'Construction Type'].

TABLE 9. HOUSEHOLD MEMBERS WHO WORK PRIMARILY FROM HOME BY CLIMATE ZONE (SURVEY)

COMPARE WITH TABLE 22, VOLUME 5, IN 2015 RSBS.

Household Members		Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
		%	EB	%	EB	%	EB	%	EB
At Least One Household Member Primarily Works from Home	Yes	15.4%	2.6%	13.7%	1.9%	13.5%	2.8%	14.5%	1.5%
	No	84.6%	2.6%	86.3%	1.9%	86.5%	2.8%	85.5%	1.5%
	Respondents (n)	544	544	1,313	1,313	527	527	2,384	2,384
Number of People Who Primarily Work from Home	Mean	1.6	0.8	1.1▼	0.1	1.1▼	0.1	1.3	0.4
	Respondents (n)	85	85	182	182	76	76	343	343

Note: The mean value shown for "Number of people who work primarily from home" represents the mean only for households who reported that at least one person works at home.

Source: Survey fields: ['People Working at Home', 'Work from Home', 'Climate Zone'].

TABLE 10. SINGLE-FAMILY HOME TYPE BY AGE (SURVEY)
COMPARE WITH FIGURE 2, VOLUME 1, IN 2015 RSBS.

Year	Single-Family Detached House		Single-Family Attached House		Mobile or Manufactured Home		Apartment Building or Condominium	
	%	EB	%	EB	%	EB	%	EB
1939 or Earlier	84.5%	3.3%	11.1%	2.9%	0.0%	0.0%	4.4%	1.7%
1940 to 1949	87.8%	5.2%	10.8%	5.1%	0.5%	0.8%	1.0%	1.1%
1950 to 1959	94.8%	2.5%	4.8%	2.4%	0.2%	0.4%	0.2%	0.4%
1960 to 1969	94.1%	3.0%	4.5%	2.6%	0.3%	0.5%	1.0%	1.3%
1970 to 1979	90.9%	4.2%	7.5%	3.9%	1.3%	1.6%	0.4%	0.7%
1980 to 1989	86.7%	5.1%	8.3%	4.4%	3.3%	2.1%	1.7%	2.1%
1990 to 1999	78.4%	6.2%	14.8%	5.8%	5.3%	2.5%	1.5%	1.9%
2000 to 2009	81.2%	6.5%	11.6%	5.8%	4.0%	2.4%	3.2%	3.1%
2009 to 2014	83.9%	9.9%	8.5%	7.4%	5.0%	5.7%	2.6%	4.1%
2015	92.0%	5.3%	4.6%	4.3%	3.4%	2.1%	0.0%	0.0%
2016	88.9%	6.5%	6.6%	4.7%	4.1%	3.3%	0.3%	0.4%
2017	84.9%	9.9%	11.6%	9.7%	1.9%	2.2%	1.6%	1.9%
2018	84.1%	0.0%	15.9%	0.0%	0.0%	0.0%	0.0%	0.0%
All Ages	87.9%	1.5%	8.8%	1.3%	1.4%	0.4%	1.9%	0.6%
Respondents (n)	2,151	2,151	155	155	61	61	40	40

Note: This table provides similar information as Figure 2 of volume 1 of the 2015 RSBS, but numbers precise enough to allow significance testing could not be extracted from that figure.

Source: Survey fields: ['Home Description', 'Year of Home', 'Construction Type'].

TABLE 11. AGE OF SINGLE-FAMILY BUILDING STOCK BY CLIMATE ZONE (SURVEY AND SITE)

COMPARE WITH TABLE 8, VOLUME 1, IN 2015 RSBS.

Year	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide		Site Visit	
	%	EB	%	EB	%	EB	%	EB	%	EB
1939 or Earlier	30.5%	3.3%	19.9%▼	2.2%	20.2%▼	3.3%	25.0%	1.9%	31.9%	0.6%
1940 to 1949	10.4%	2.2%	6.3%	1.3%	6.2%	2.0%	8.3%	1.2%	8.3%	0.3%
1950 to 1959	19.9%	2.9%	17.5%▲	2.1%	12.3%	2.7%	17.9%	1.6%	13.4%	0.4%
1960 to 1969	13.7%	2.5%	13.0%	1.8%	7.7%	2.2%	12.5%	1.4%	13.0%	0.4%
1970 to 1979	7.5%	1.9%	11.3%	1.7%	16.0%▲	3.0%	10.2%	1.2%	9.7%	0.4%
1980 to 1989	4.4%	1.5%	10.1%	1.6%	13.6%	2.8%	7.9%	1.0%	6.4%	0.3%
1990 to 1999	6.6%	1.8%	10.5%▲	1.7%	10.6%	2.5%	8.6%	1.1%	7.8%	0.3%
2000 to 2009	5.2%	1.6%	8.3%	1.5%	9.6%	2.4%	7.0%	1.0%	6.1%	0.3%
2010 to 2014	0.6%	0.6%	2.2%	0.8%	2.7%	1.3%	1.5%	0.4%	2.9%	0.2%
2015	0.3%	0.3%	0.3%	0.0%	0.6%	0.4%	0.4%	0.2%	0.2%	0.0%
2016	0.6%	0.5%	0.4%	0.1%	0.4%	0.1%	0.5%	0.2%	0.1%	0.0%
2017	0.1%	0.0%	0.1%	0.0%	0.1%	0.0%	0.1%	0.0%	0.1%	0.0%
2018	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Respondents (n)	553	553	1,326	1,326	528	528	2,407	2,407	451	451

Note: Results for 2010 and later cannot be compared with results from the 2015 RSBS.

Source: Survey fields: ['Year of Home', 'Climate Zone'], On-site fields: ['Year Building Built', 'Climate Zone'].

TABLE 12. EXISTING HOMES: TYPICAL SINGLE-FAMILY HOME PROFILE (SURVEY AND SITE)

COMPARE WITH TABLE 9, VOLUME 1, IN 2015 RSBS.

Characteristic		Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
		Mean	EB	Mean	EB	Mean	EB	Mean	EB
Home Built in 1939 or Earlier[a]	Percentage	30.7%	3.4%	20.1%	2.2%	20.4%	3.3%	25.2%	1.9%
	Respondents (n)	515	515	906	906	402	402	1,823	1,823
Home Square Feet Less than 2,000[a]	Percentage	54.2%	4.0%	63.0%	2.7%	61.7%	4.2%	58.6%▼	2.2%
	Respondents (n)	430	430	841	841	373	373	1,644	1,644
Average Number of Bedrooms[a]	Mean	3.5	0.1	3.3	0.0	3.3	0.1	3.4▲	0.0
	Respondents (n)	510	510	909	909	407	407	1,826	1,826
Most Common House Type (Single-Family Detached)[a]	Percentage	82.7%	2.7%	93.3%	1.4%	89.9%	2.5%	87.7%▲	1.5%
	Respondents (n)	515	515	913	913	407	407	1,835	1,835
Annual Energy Consumption 6,000 to 12,000 kWh[b]	Percentage	54.9%	9.9%	49.0%	5.9%	41.3%	10.4%	50.6%▲	5.4%
	Respondents (n)	71	71	194	194	63	63	328	328
Occupancy - Own/Buying[a]	Percentage	99.4%	0.6%	96.1%	1.1%	94.1%	1.9%	97.4%▲	0.6%
	Respondents (n)	510	510	909	909	405	405	1,824	1,824
Average Number of Occupants[a]	Mean	3.1	0.1	2.6	0.1	2.5	0.1	2.8	0.1
	Respondents (n)	446	446	844	844	380	380	1,670	1,670
Annual Household Income of $75,000 or More[a]	Percentage	58.0%	4.6%	49.9%	3.1%	44.5%	4.5%	52.9%▲	2.6%
	Respondents (n)	334	334	1,006	1,006	425	425	1,765	1,765
Highest Education Level in Household of Graduate Degree[a]	Percentage	43.8%	3.8%	37.6%	2.7%	30.4%	3.9%	39.5%▲	2.1%
	Respondents (n)	470	470	875	875	388	388	1,733	1,733

[a] From survey data; [b] From site visit data

Source: Survey fields: [‘Number of Bedrooms,’ ‘Number of People Age <5,’ ‘Number of People Age 6-17,’ ‘Number of People Age 18-24,’ ‘Number of People Age 25-34,’ ‘Number of People Age 35-44,’ ‘Number of People Age 45-54,’ ‘Number of People Age 55-64,’ ‘Number of People Age >65,’ ‘Square Feet of Home,’ ‘Approximate Square Feet of Home,’ ‘Home Description,’ ‘Ownership,’ ‘Household Income,’ ‘Highest Education Level,’ ‘Year of Home’]; On-site fields: [‘Climate Zone,’ ‘Electricity Annual Usage (kWh)’].Source: Survey fields: ['Number of Bedrooms', 'Number of People Age <5', 'Number of People Age 6-17', 'Number of People Age 18-24', 'Number of People Age 25-34', 'Number of People Age 35-44', 'Number of People Age 45-54', 'Number of People Age 55-64', 'Number of People Age >65', 'Square Feet of Home', 'Approximate Square Feet of Home', 'Home Description', 'Ownership', 'Household Income', 'Highest Education Level', 'Year of Home', 'Climate Zone'], On-site fields: ['Electricity Annual Usage (kWh)', 'Climate Zone'].

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TABLE 13. NEW HOMES: TYPICAL HOME PROFILE (SURVEY AND SITE)
COMPARE WITH TABLE 10, VOLUME 1, IN 2015 RSBS.

Characteristic		Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
		Mean	EB	Mean	EB	Mean	EB	Mean	EB
Average HERS Rating[a]	Mean	67.6	27.7	53.9	4.6	60.4	8.2	55.7▼	3.9
	Respondents (n)	5	5	68	68	22	22	90	90
Home Built in 2015[b]	Percentage	28.9%	12.6%	35.7%	3.9%	37.3%	7.2%	33.8%▼	4.6%
	Respondents (n)	38	38	420	420	126	126	584	584
Home Less than 2,000 Square Feet[b]	Percentage	47.2%	14.3%	38.7%	4.0%	56.8%	7.6%	44.9%▲	5.0%
	Respondents (n)	36	36	406	406	118	118	560	560
Average Number of Bedrooms[b]	Mean	3.8	0.3	3.3	0.1	3.0	0.1	3.4	0.1
	Respondents (n)	37	37	415	415	125	125	577	577
Annual Energy Consumption 5,470 to 8,202 kWh[a]	Percentage	20.0%	47.1%	15.0%	7.8%	38.1%	18.8%	21.5%	7.7%
	Respondents (n)	5	5	60	60	21	21	81	81
Most Common Home Type (Single-Family Detached)[B]	Percentage	73.7%	12.2%	90.0%	2.4%	84.9%	5.3%	83.8%▼	4.2%
	Respondents (n)	38	38	420	420	126	126	584	584
Occupancy - Own/Buying[b]	Percentage	100.0%	0.0%	98.1%	1.1%	98.4%	1.9%	98.8%	0.7%
	Respondents (n)	38	38	419	419	125	125	582	582
Annual Household Income of $75,000 or More[b]	Percentage	37.5%	17.3%	65.6%	4.4%	65.3%	8.0%	56.5%▼	6.2%
	Respondents (n)	24	24	323	323	98	98	445	445
Average Number of Occupants[b]	Mean	3.6	0.4	2.8	0.1	2.9	0.2	3.1	0.2
	Respondents (n)	30	30	386	386	119	119	535	535
Highest Education Level in Household of Graduate Degree[b]	Percentage	51.4%	14.5%	47.3%	4.1%	43.9%	7.4%	48.0%	5.1%
	Respondents (n)	35	35	404	404	123	123	562	562

[a] *From site visit data.*
[b] *From survey data*

Note: Shaded cells indicate results that cannot be considered representative because of the small sample size for new home site visits in Climate Zone 4.

Source: Survey fields: ['Number of Bedrooms', 'Number of People Age <5', 'Number of People Age 6-17', 'Number of People Age 18-24', 'Number of People Age 25-34', 'Number of People Age 35-44', 'Number of People Age 45-54', 'Number of People Age 55-64', 'Number of People Age >65', 'Square Feet of Home', 'Approximate Square Feet of Home', 'Home Description', 'Ownership', 'Household Income', 'Highest Education Level', 'Year of Home', 'Climate Zone'], On-site fields: ['Home Energy Rating Systems Score', 'Electricity Annual Usage (kWh)', 'Climate Zone'].

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TABLE 14. EXISTING HOMES: CONDITIONED AREA BY CLIMATE ZONE (SURVEY AND SITE)
COMPARE WITH TABLE 12, VOLUME 1, IN 2015 RSBS.

Area	Web and Telephone Surveys								Site Visits	
	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB	%	EB
Less than 1,000 Square Feet	4.7%▼	1.7%	5.0%▼	1.2%	6.7%▼	2.1%	5.1%▼	1.0%	5.0%▼	1.8%
1,000 to Less than 1,500 Square Feet	20.9%	3.2%	25.6%	2.5%	23.9%	3.6%	23.1%	1.9%	19.9%	4.0%
1,500 to Less than 2,000 Square Feet	28.6%	3.6%	32.5%	2.7%	31.1%▲	4.0%	30.4%	2.1%	32.5%▲	4.6%
2,000 to Less than 2,500 Square Feet	22.1%▲	3.3%	20.3%	2.3%	22.3%	3.6%	21.5%▲	1.9%	16.8%	3.8%
2,500 to Less than 3,000 Square Feet	12.1%	2.6%	10.5%▲	1.7%	8.6%	2.4%	11.0%▲	1.4%	15.7%▲	3.8%
3,000 to Less than 4,000 Square Feet	8.8%	2.3%	4.8%	1.2%	5.9%	2.0%	6.9%	1.2%	7.8%	2.7%
4,000 or More Square Feet	2.8%	1.3%	1.4%▼	0.7%	1.6%	1.1%	2.1%▼	0.7%	2.2%▼	1.7%
Respondents (n)	430	430	841	841	373	373	1,644	1,644	361	361

Note: Conditioned area as defined for the survey excludes unfinished basements. Site visits used the RESNET definition of conditioned floor area, which considers directly heated unfinished basements as conditioned.

Source: Survey fields: ['Square Feet of Home', 'Approximate Square Feet of Home', 'Climate Zone'], On-site fields: ['Conditioned Floor Space (measured in square feet)', 'Climate Zone'].

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TABLE 15. NEW HOMES: CONDITIONED AREA BY CLIMATE ZONE (SURVEY AND SITE)
COMPARE WITH TABLE 13, VOLUME 1, IN 2015 RSBS.

Area	Web and Telephone Surveys								Site Visits	
	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB	%	EB
Less than 1,000 Square Feet	2.8%	4.6%	0.5%	0.6%	3.4%	2.8%	1.8%	1.6%	1.1%	1.8%
1,000 to Less than 1,500 Square Feet	13.9%	9.8%	11.3%	2.6%	18.6%	6.0%	13.5%	3.5%	10.6%	5.6%
1,500 to Less than 2,000 Square Feet	30.6%	13.0%	26.8%	3.6%	34.7%	7.3%	29.5%	4.6%	18.9%	6.9%
2,000 to Less than 2,500 Square Feet	11.1%	8.9%	33.5%	3.9%	21.2%	6.2%	24.0%	3.8%	9.7%▼	5.2%
2,500 to Less than 3,000 Square Feet	13.9%	9.8%	17.5%	3.1%	11.0%	4.8%	15.1%	3.5%	20.6%	7.2%
3,000 to Less than 4,000 Square Feet	13.9%	9.8%	7.6%▼	2.2%	7.6%	4.1%	9.6%	3.3%	23.9%	7.5%
4,000 or More Square Feet	13.9%	9.8%	2.7%	1.3%	3.4%	2.8%	6.4%	3.2%	15.3%	6.3%
Respondents (n)	36	36	406	406	118	118	560	560	90	90

Note: Conditioned area as defined for the survey excludes unfinished basements. Site visits used the RESNET definition of conditioned floor area, which considers directly heated unfinished basements as conditioned.

Source: Survey fields: ['Square Feet of Home', 'Approximate Square Feet of Home', 'Climate Zone'], On-site fields: ['Conditioned Floor Space (measured in square feet)', 'Climate Zone'].

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TABLE 16. STYLE OF HOME BY CLIMATE ZONE (SITE)
COMPARE WITH TABLE 77, VOLUME 5, IN 2015 RSBS.

Style	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Colonial	35.3%▲	8.6%	40.8%	5.6%	22.7%	8.3%	35.4%▲	4.8%
Ranch	11.8%	5.8%	17.1%▼	4.3%	26.0%	8.6%	15.9%▼	3.5%
Cape Cod	12.9%	6.1%	13.0%	3.8%	10.0%	5.9%	12.5%	3.3%
Raised Ranch[a]	5.9%	4.2%	6.7%	2.9%	17.0%	7.4%	7.9%	2.6%
Split Level	4.7%	3.8%	5.8%	2.7%	7.1%	5.1%	5.5%	2.2%
Row House	10.6%	5.6%	0.5%	0.8%	0.0%	0.0%	5.2%	2.7%
Other	4.7%	3.8%	3.9%	2.2%	5.8%	4.6%	4.6%	2.1%
Victorian	3.5%	3.3%	3.4%▼	2.1%	4.2%	4.0%	3.6%	1.8%
Townhouse	5.9%▼	4.2%	1.5%	1.4%	0.0%	0.0%	3.3%▼	2.1%
Duplex[a]	3.5%	3.3%	1.0%	1.1%	2.9%	3.3%	2.5%	1.7%
Farm House	0.0%	0.0%	2.5%	1.8%	1.5%	2.3%	1.1%	0.8%
Log Cabin	0.0%	0.0%	1.9%	1.6%	0.0%▼	0.1%	0.7%	0.6%
Salt Box	1.2%	1.9%	0.5%	0.8%	0.0%	0.0%	0.7%	1.0%
Modular	0.0%	0.0%	0.5%	0.8%	2.8%	3.3%	0.6%	0.6%
Bungalow	0.0%	0.0%	0.5%▼	0.8%	0.0%	0.0%	0.2%▼	0.3%
Contemporary	0.0%	0.0%	0.5%	0.8%	0.0%	0.0%	0.2%▼	0.3%
A-Frame	0.0%	0.0%	0.0%	0.0%	0.0%▼	0.1%	0.0%▼	0.0%
Respondents (n)	85	85	274	274	92	92	451	451

[a] *Values for Raised Ranch and Duplex cannot be compared to 2015 RSBS values.*

Source: On-site fields: ['Style of Home', 'Climate Zone'].

TABLE 17. STYLE OF HOME BY HOME VINTAGE (SITE)
COMPARE WITH TABLE 78, VOLUME 5, IN 2015 RSBS.

Style	Existing Homes		New Homes		Overall Statewide	
	%	EB	%	EB	%	EB
Colonial	35.4%▲	4.8%	35.4%	8.3%	35.4%▲	4.8%
Ranch	15.8%▼	3.5%	37.5%	8.6%	15.9%▼	3.5%
Cape Cod	12.6%	3.3%	2.3%	2.7%	12.5%	3.3%
Raised Ranch[a]	7.9%	2.6%	1.1%	1.8%	7.9%	2.6%
Split Level	5.5%	2.2%	2.1%	2.5%	5.5%	2.2%
Row House	5.2%	2.7%	0.0%	0.0%	5.2%	2.7%
Other	4.6%	2.1%	5.9%	4.3%	4.6%	2.1%
Victorian	3.6%	1.9%	2.1%	2.5%	3.6%	1.8%
Townhouse	3.3%▼	2.1%	1.1%	1.8%	3.3%▼	2.1%
Duplex[a]	2.5%	1.7%	1.3%	2.1%	2.5%	1.7%
Farm House	1.1%	0.8%	5.5%	4.0%	1.1%	0.8%
Log Cabin	0.7%	0.6%	1.3%	2.1%	0.7%	0.6%
Salt Box	0.7%	1.0%	0.0%	0.0%	0.7%	1.0%
Modular	0.6%	0.6%	0.0%	0.0%	0.6%	0.6%
Bungalow	0.2%▼	0.3%	0.0%	0.0%	0.2%▼	0.3%
Contemporary	0.2%▼	0.3%	1.1%	1.8%	0.2%▼	0.3%
A-Frame	0.0%	0.0%	3.4%	3.2%	0.0%▼	0.0%
Respondents (n)	361	361	90	90	451	451

[a] *Values for Raised Ranch and Duplex cannot be compared to 2015 RSBS values.*

Source: On-site fields: ['Style of Home', 'Construction Type'].

TABLE 18. NUMBER OF STORIES BY CLIMATE ZONE (SURVEY)
COMPARE WITH TABLE 29, VOLUME 5, IN 2015 RSBS.

Stories	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	Mean	EB	Mean	EB	Mean	EB	Mean	EB
Mean	2.0▼	0.0	1.8▼	0.0	1.7▼	0.0	1.9▼	0.0
Respondents (n)	551	551	1,329	1,329	530	530	2,410	2,410

Note: This table does not include unfinished basements.

Source: Survey fields: ['Number of Stories', 'Climate Zone'].

TABLE 19. NUMBER OF STORIES BY HOME VINTAGE (SURVEY)
COMPARE WITH TABLE 30, VOLUME 5, IN 2015 RSBS.

Stories	Existing Homes		New Homes		Overall Statewide	
	Mean	EB	Mean	EB	Mean	EB
Mean	1.9▼	0.0	1.7▼	0.0	1.9▼	0.0
Respondents (n)	1,827	1,827	583	583	2,410	2,410

Note: This table does not include unfinished basements.

Source: Survey fields: ['Number of Stories', 'Construction Type'].

TABLE 20. MAJOR RENOVATION IN PAST FIVE YEARS BY CLIMATE ZONE (SURVEY)

COMPARE WITH TABLE 32, VOLUME 5, IN 2015 RSBS.

Renovation	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Yes	13.3%	2.5%	10.2%	1.7%	13.6%	2.8%	12.2%	1.4%
No	86.7%	2.5%	89.8%	1.7%	86.4%	2.8%	87.8%	1.4%
Respondents (n)	549	549	1,310	1,310	525	525	2,384	2,384

Source: Survey fields: ['Major Renovations', 'Climate Zone'].

TABLE 21. EXISTING HOMES: ANNUAL KILOWATT-HOUR CONSUMPTION BY CLIMATE ZONE (SITE)

COMPARE WITH TABLE 14, VOLUME 1, IN 2015 RSBS.

Annual kWh Consumption	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
500 kWh or Less	5.6%	4.6%	0.0%	0.0%	1.6%	2.6%	2.9%	2.2%
501 to 2,500 kWh	2.8%▼	3.3%	3.1%▼	2.1%	3.2%▼	3.7%	3.0%▼	1.8%
2,501 to 6,000 kWh	23.9%	8.5%	30.4%	5.5%	30.2%	9.7%	27.3%	4.7%
6,001 to 12,000 kWh	54.9%▲	9.9%	49.0%	5.9%	41.3%	10.4%	50.6%▲	5.4%
12,001 to 20,000 kWh	11.3%	6.3%	13.9%	4.1%	17.5%	8.0%	13.2%	3.5%
20,001 kWh or More	1.4%	2.3%	3.6%	2.2%	6.4%	5.1%	3.0%	1.6%
Respondents (n)	71	71	194	194	63	63	328	328

Note: This table shows annual usage from bills or bill summaries provided during site visits. Significance testing compares results to utility billing data for 2015 RSBS survey participants.

Source: On-site fields: ['Electricity Annual Usage (kWh)', 'Climate Zone'].

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TABLE 22. NEW HOMES: ANNUAL KILOWATT-HOUR CONSUMPTION BY CLIMATE ZONE (SITE)

COMPARE WITH TABLE 14, VOLUME 1, IN 2015 RSBS.

Annual Consumption	Climate Zone 4[a]		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
500 kWh or Less	**0.0%**	**0.0%**	10.0%	6.5%	0.0%	0.0%	7.2%	4.7%
501 to 2,500 kWh	**0.0%**	**0.0%**	11.7%	7.0%	0.0%	0.0%	8.4%	5.1%
2,501 to 6,000 kWh	**75.0%**	**63.6%**	16.7%	8.1%	23.8%	16.2%	18.7%	7.3%
6,001 to 12,000 kWh	**25.0%**	**63.6%**	30.0%	10.0%	47.6%	19.0%	34.9%	8.9%
12,001 to 20,000 kWh	**0.0%**	**0.0%**	28.3%	9.8%	9.5%	11.1%	23.1%	7.8%
20,001 kWh or More	**0.0%**	**0.0%**	3.3%	3.9%	19.1%	14.9%	7.7%	5.1%
Respondents (n)	5	5	60	60	21	21	81	81

Note: This table shows annual usage from bills or bill summaries provided during site visits. Significance testing compares results to utility billing data for 2015 RSBS survey participants.
[a] Shaded cells indicate results that cannot be considered representative because of the small sample size for new home site visits in Climate Zone 4.

Source: On-site fields: ['Electricity Annual Usage (kWh)', 'Climate Zone'].

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TABLE 23. EXISTING HOMES: ESTIMATED ANNUAL ELECTRIC COSTS BY CLIMATE ZONE (SURVEY) COMPARE WITH TABLE 15, VOLUME 1, IN 2015 RSBS.

Annual Cost	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
$500 or Less	2.7%	1.4%	5.6%	1.4%	5.5%▼	2.0%	4.2%	0.9%
$501 to $1,000	3.6%	1.6%	8.3%▼	1.7%	13.6%▼	3.0%	6.9%▼	1.1%
$1,001 to $1,500	11.7%	2.8%	18.9%▼	2.4%	20.0%▼	3.6%	15.6%▼	1.7%
$1,501 to $2,000	14.2%▼	3.0%	23.2%▲	2.6%	19.1%	3.5%	18.3%	1.8%
$2,001 to $2,500	13.9%	3.0%	21.3%▲	2.5%	18.0%▲	3.4%	17.3%▲	1.8%
$2,501 to $3,000	11.5%	2.7%	9.4%▲	1.8%	7.8%▲	2.4%	10.2%▲	1.5%
$3,001 to $3,500	13.1%▲	2.9%	6.2%▲	1.5%	6.4%▲	2.2%	9.5%▲	1.5%
$3,501 to $4,000	8.5%	2.4%	3.7%▲	1.2%	4.6%▲	1.9%	6.1%▲	1.3%
$4,000 or More	20.8%	3.5%	3.4%▲	1.1%	4.9%▲	1.9%	11.9%▲	1.8%
Respondents (n)	366	366	710	710	345	345	1,421	1,421

Source: Survey fields: ['All Fuel Yearly Cost', 'Climate Zone'].

TABLE 24. NEW HOMES: ESTIMATED ANNUAL ELECTRIC COSTS BY CLIMATE ZONE (SURVEY)

COMPARE WITH TABLE 15, VOLUME 1, IN 2015 RSBS.

Annual Cost	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
$500 or Less	18.5%	12.8%	10.9%▲	2.8%	14.7%	5.6%	14.0%▲	4.3%
$501 to $1,000	14.8%	11.7%	13.2%	3.0%	15.6%	5.8%	14.2%	4.1%
$1,001 to $1,500	14.8%	11.7%	23.5%	3.8%	25.7%	7.0%	21.1%	4.3%
$1,501 to $2,000	18.5%	12.8%	21.4%	3.7%	20.2%	6.4%	20.2%	4.5%
$2,001 to $2,500	11.1%	10.3%	13.8%	3.1%	9.2%	4.6%	12.0%	3.6%
$2,501 to $3,000	7.4%	8.6%	8.5%	2.5%	7.3%	4.1%	7.9%	3.0%
$3,001 to $3,500	0.0%	0.0%	3.5%	1.6%	3.7%	3.0%	2.4%	1.0%
$3,501 to $4,000	7.4%	8.6%	3.5%	1.6%	2.8%	2.6%	4.6%	2.8%
$4,000 or More	7.4%▼	8.6%	1.8%	1.2%	0.9%	1.5%	3.4%▼	2.8%
Respondents (n)	27	27	341	341	109	109	477	477

Source: Survey fields: ['All Fuel Yearly Cost', 'Climate Zone'].

TABLE 25. AVERAGE ANNUAL FUEL USE PER HOME BY CLIMATE ZONE (SITE)

THIS TABLE IS NEW WITH THE 2019 RBSA.

Fuel Type		Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
		Mean	EB	Mean	EB	Mean	EB	Mean	EB
Electricity	Mean (kBtu)	27,317	2,944	28,635	1,904	30,955	4,547	28,365	1,697
	Respondents (n)	71	71	254	254	84	84	409	409
Natural Gas	Mean (kBtu)	98,368	13,474.	99,056	5,743.6	111,824	30,313	100,692	8,004
	Respondents (n)	53	53	198	198	32	32	283	283
Other[a]	Mean (kBtu)	131,109	20,298	100,142	17,266	95,475	19,974	112,681	11,719
	Respondents (n)	21	21	53	53	49	49	123	123
All Fuels	Mean (kBtu)	149,660	12,501	128,758	5,777	133,008	19,182	139,346	6,946
	Respondents (n)	62	62	245	245	80	80	387	387

Note: Presents average annual consumption for electricity, natural gas, and other fuels only for homes that use those fuels based on information collected from bills and home occupants during site visits. Average annual fuel use for the all fuels category represents average total fuel consumption for home. For all fuels averages, homes with unknown usage values for any fuel were excluded from the calculation. New York State energy content values for each fuel were drawn from the NYSERDA report Patterns and Trends New York Energy Profiles: 2002-2016. *Where necessary, cost per-unit energy consumption values were taken from the U.S. Energy Information Administration. This table is new to the 2019 RBSA and its values cannot be compared with those of any 2015 RSBS table.*

[a] *The Other fuel type includes fuel oil, propane, kerosene, wood, wood pellets, and coal, and usage data collected for each are approximate.*

Source: On-site fields: ['Electricity Annual Usage (kWh)', 'Natural Gas Annual Usage', 'Natural Gas Annual Usage Units', 'Other Fuel 1 Type', 'Other Fuel 1 Annual Usage Units', 'Other Fuel 2 Type', 'Other Fuel 2 Annual Usage Units', 'Conditioned Floor Space (measured in square feet)', 'Climate Zone'].

TABLE 26. AVERAGE ANNUAL FUEL USE PER HOME BY HOME VINTAGE (SITE)

THIS TABLE IS NEW WITH THE 2019 RBSA.

Fuel Type		Existing Construction		New Construction		Overall Statewide	
		Mean	EB	Mean	EB	Mean	EB
Electricity	Mean (kBtu)	28,354.7	1,706.6	30,558.2	4,383.2	28,365.4	1,697.0
	Respondents (n)	328	328	81	81	409	409
Natural Gas	Mean (kBtu)	100,787.1	8,051.2	81,196.5	13,149.5	100,692.3	8,004.3
	Respondents (n)	236	236	47	47	283	283
Other[a]	Mean (kBtu)	113,088.1	11,830.2	49,775.9	11,038.6	112,680.7	11,719.8
	Respondents (n)	93	93	30	30	123	123
All Fuels	Mean (kBtu)	139,559.0	6,984.1	95,615.9	10,881.6	139,346.4	6,946.1
	Respondents (n)	307	307	80	80	387	387

Note: Presents average annual consumption for electricity, natural gas, and other fuels only for homes that use those fuels based on information collected from bills and home occupants during site visits. Average annual fuel use for the all fuels category represents average total fuel consumption for home. For all fuels averages, homes with unknown usage values for any fuel were excluded from the calculation. State energy content values for each fuel were drawn from the NYSERDA report Patterns and Trends New York Energy Profiles: 2002-2016. *Where necessary, cost per-unit energy consumption values were taken from the U.S. Energy Information Administration. This table is new to the 2019 RBSA and its values cannot be compared with those of any 2015 RSBS table.*

[a] *The Other fuel type includes fuel oil, propane, kerosene, wood, wood pellets, and coal, and usage data collected for each are approximate.*

Source: On-site fields: ['Electricity Annual Usage (kWh)', 'Natural Gas Annual Usage', 'Natural Gas Annual Usage Units', 'Other Fuel 1 Type', 'Other Fuel 1 Annual Usage Units', 'Other Fuel 2 Type', 'Other Fuel 2 Annual Usage Units', 'Conditioned Floor Space (measured in square feet)', 'Construction Type'].

TABLE 27. AVERAGE ENERGY USE INTENSITY (EUI) BY CLIMATE ZONE (SITE)

THIS TABLE IS NEW WITH THE 2019 RBSA.

Fuel Type		Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
		Mean	EB	Mean	EB	Mean	EB	Mean	EB
Electricity	Mean (kBtu/sq ft)	14.0	1.6	16.3	1.1	18.1	2.3	15.4	0.9
	Respondents (n)	71	71	254	254	84	84	409	409
Natural Gas	Mean (kBtu/sq ft)	50.3	9.3	54.1	3.4	70.2	13.5	54.8	5.0
	Respondents (n)	53	53	198	198	32	32	283	283
Other[a]	Mean (kBtu/sq ft)	66.8	8.3	60.3	11.1	55.8	15.8	61.9	6.5
	Respondents (n)	21	21	53	53	49	49	123	123
All Fuels	Mean (kBtu/sq ft)	76.8	8.7	71.7	3.7	80.3	11.8	75.5	4.6
	Respondents (n)	62	62	245	245	80	80	387	387

Note: Presents the average energy use intensity (EUI) for each home for electricity, natural gas, and other fuels only for homes that use those fuels based on information collected from bills and home occupants during site visits. Average annual EUI for the all fuels category represents average total fuel consumption per square foot for each home. For all fuels averages, homes with unknown usage values for any fuel were excluded from the calculation. Average EUI was calculated by averaging the EUI for each home, not by dividing total consumption by total conditioned area for each stratum; accordingly, multiplying the total number of single-family homes by the average EUI will not yield a highly accurate estimate of total consumption. State energy content values for each fuel were drawn from the NYSERDA report Patterns and Trends New York Energy Profiles: 2002-2016. *Where necessary, cost per-unit energy consumption values were taken from the U.S. Energy Information Administration. This table is new to the 2019 RBSA and its values cannot be compared with those of any 2015 RSBS table.*

[a] *The Other fuel type includes fuel oil, propane, kerosene, wood, wood pellets, and coal, and usage data collected for each are approximate.*

Source: On-site fields: ['Electricity Annual Usage (kWh)', 'Conditioned Floor Space (measured in square feet)', 'Natural Gas Annual Usage', 'Natural Gas Annual Usage Units', 'Other Fuel 1 Type', 'Other Fuel 1 Annual Usage Units', 'Other Fuel 2 Type', 'Other Fuel 2 Annual Usage Units', 'Climate Zone'].

TABLE 28. AVERAGE ENERGY USE INTENSITY (EUI) BY HOME VINTAGE (SITE)

THIS TABLE IS NEW WITH THE 2019 RBSA.

Fuel Type		Existing Construction		New Construction		Overall Statewide	
		Mean	EB	Mean	EB	Mean	EB
Electricity	Mean (kBtu/sq ft)	15.5	0.9	12.3	1.8	15.4	0.9
	Respondents (n)	328	328	81	81	409	409
Natural Gas	Mean (kBtu/sq ft)	54.9	5.0	28.2	3.9	54.8	5.0
	Respondents (n)	236	236	47	47	283	283
Other[a]	Mean (kBtu/sq ft)	62.2	6.5	22.9	5.6	61.9	6.5
	Respondents (n)	93	93	30	30	123	123
All Fuels	Mean (kBtu/sq ft)	75.7	4.7	37.0	3.9	75.5	4.6
	Respondents (n)	307	307	80	80	387	387

Note: Presents the average of EUI for each home for electricity, natural gas, and other fuels only for homes that use those fuels based on information collected from bills and home occupants during site visits. Average annual EUI for the all fuels category represents average total fuel consumption per square foot for each home. For all fuels averages, homes with unknown usage values for any fuel were excluded from the calculation. Average EUI was calculated by averaging the EUI for each home, not by dividing total consumption by total conditioned area for each stratum; accordingly, multiplying the total number of single-family homes by the average EUI will not yield a highly accurate estimate of total consumption. State energy content values for each fuel were drawn from the NYSERDA report Patterns and Trends New York Energy Profiles: 2002-2016. *Where necessary, cost per-unit energy consumption values were taken from the U.S. Energy Information Administration. This table is new to the 2019 RBSA and its values cannot be compared with those of any 2015 RSBS table.*

[a] *The Other fuel type includes fuel oil, propane, kerosene, wood, wood pellets, and coal, and usage data collected for each are approximate.*

Source: On-site fields: ['Electricity Annual Usage (kWh)', 'Conditioned Floor Space (measured in square feet)', 'Natural Gas Annual Usage', 'Natural Gas Annual Usage Units', 'Other Fuel 1 Type', 'Other Fuel 1 Annual Usage Units', 'Other Fuel 2 Type', 'Other Fuel 2 Annual Usage Units', 'Construction Type'].

TABLE 29. DISTRIBUTION OF TOTAL FUEL USAGE PER HOME BY CLIMATE ZONE (SITE)

THIS TABLE IS NEW WITH THE 2019 RBSA.

Fuel Type	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Electricity	19.3%	5.1%	22.0%	3.2%	23.5%	6.8%	20.8%	3.0%
Natural Gas	54.5%	9.2%	62.7%	4.9%	38.6%	11.3%	55.0%	5.3%
Other[a]	26.2%	8.9%	15.3%	4.4%	37.9%	10.8%	24.2%	5.1%
Respondents (n)	62	62	245	245	80	80	387	387

Note: This table shows the estimated saturation of each fuel type—electricity, natural gas, and other fuels—as a percentage of total fuel consumption for single-family homes based on information collected from bills and home occupants during site visits. Homes with unknown usage values for any fuel were excluded from the calculation. State energy content values for each fuel were drawn from the NYSERDA report Patterns and Trends New York Energy Profiles: 2002-2016*. Where necessary, cost per-unit energy consumption values were taken from the U.S. Energy Information Administration. This table is new to the 2019 RBSA and its values cannot be compared with those of any 2015 RSBS table.*

[a] *The Other fuel type includes fuel oil, propane, kerosene, wood, wood pellets, and coal, and usage data collected for each are approximate.*

Source: On-site fields: ['Electricity Annual Usage (kWh)', 'Natural Gas Annual Usage', 'Natural Gas Annual Usage Units', 'Other Fuel 1 Type', 'Other Fuel 2 Type', 'Other Fuel 1 Annual Usage Units', 'Other Fuel 2 Annual Usage Units', 'Climate Zone'].

TABLE 30. DISTRIBUTION OF TOTAL FUEL USAGE PER HOME BY HOME VINTAGE (SITE)

THIS TABLE IS NEW WITH THE 2019 RBSA.

Fuel Type	Existing Construction		New Construction		Overall Statewide	
	%	EB	%	EB	%	EB
Electricity	20.8%	3.0%	32.2%	7.2%	20.8%	3.0%
Natural Gas	55.0%	5.3%	49.8%	8.9%	55.0%	5.3%
Other[a]	24.2%	5.1%	18.0%	6.5%	24.2%	5.1%
Respondents (n)	307	307	80	80	387	387

Note: This table shows the estimated saturation of each fuel type—electricity, natural gas, and other fuels—as a percentage of total fuel consumption for single-family homes based on information collected from bills and home occupants during site visits. Homes with unknown usage values for any fuel were excluded from the calculation. State energy content values for each fuel were drawn from the NYSERDA report Patterns and Trends New York Energy Profiles: 2002-2016. *Where necessary, cost per-unit energy consumption values were taken from the U.S. Energy Information Administration. This table is new to the 2019 RBSA and its values cannot be compared with those of any 2015 RSBS table.*

[a] *The Other fuel type includes fuel oil, propane, kerosene, wood, wood pellets, and coal, and usage data collected for each are approximate.*

Source: On-site fields: ['Electricity Annual Usage (kWh)', 'Natural Gas Annual Usage', 'Natural Gas Annual Usage Units', 'Other Fuel 1 Type', 'Other Fuel 2 Type', 'Other Fuel 1 Annual Usage Units', 'Other Fuel 2 Annual Usage Units', 'Construction Type'].

TABLE 31. MORE THAN ONE ELECTRIC METER AT ADDRESS BY CLIMATE ZONE (SURVEY)
COMPARE WITH TABLE 33, VOLUME 5, IN 2015 RSBS.

More than One Meter	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Yes	4.0%▼	1.6%	2.1%▼	0.8%	3.3%	1.5%	3.2%▼	0.8%
No	96.0%▲	1.6%	97.9%▲	0.8%	96.7%	1.5%	96.8%▲	0.8%
Respondents (n)	456	456	1,245	1,245	510	510	2,211	2,211

Source: Survey fields: ['Multiple Electric Meters', 'Climate Zone'].

TABLE 32. ELECTRIC UTILITY PROVIDER BY CLIMATE ZONE (SURVEY)
COMPARE WITH TABLE 34, VOLUME 5, IN 2015 RSBS.

Electricity Provider	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
National Grid	7.2%▲	1.9%	54.5%▲	2.7%	49.1%	4.0%	31.2%▲	1.8%
Consolidated Edison	52.6%	3.6%	0.0%	0.0%	0.0%	0.0%	25.0%	2.1%
Long Island Power Authority	38.9%▼	3.5%	0.0%	0.0%	0.0%	0.0%	18.5%	1.9%
New York State Electric and Gas	0.6%	0.6%	20.7%▼	2.2%	40.8%	4.0%	14.2%▼	1.2%
Rochester Gas & Electric	0.2%	0.3%	14.7%	1.9%	1.2%	0.9%	5.7%	0.8%
Other	0.6%	0.6%	3.8%	1.0%	6.1%	1.9%	2.6%	0.6%
Central Hudson	0.0%	0.0%	4.1%	1.1%	2.5%	1.3%	1.9%	0.4%
Orange & Rockland	0.0%	0.0%	2.1%▼	0.8%	0.3%	0.4%	0.8%▼	0.3%
Respondents (n)	550	550	1,326	1,326	533	533	2,409	2,409

Source: Survey fields: ['Electric Utility', 'Climate Zone'].

TABLE 33. NATURAL GAS PROVIDER BY CLIMATE ZONE (SURVEY)
COMPARE WITH TABLE 35, VOLUME 5, IN 2015 RSBS.

Natural Gas Provider	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
National Grid	67.7%▲	3.9%	38.1%▲	3.1%	49.8%▲	6.1%	54.4%▲	2.5%
National Fuel Gas Distribution Corporation	0.0%	0.0%	25.1%▲	2.7%	2.2%	1.8%	10.0%▲	1.2%
Consolidated Edison	18.4%▼	3.2%	0.0%	0.0%	0.0%	0.0%	9.5%▼	1.7%
New York State Electric & Gas Corporation	0.5%	0.6%	13.7%	2.2%	34.2%	5.8%	8.9%	1.2%
Rochester Gas Company	0.0%	0.0%	17.1%	2.4%	0.0%	0.0%	6.7%	1.0%
Keyspan Energy Delivery (New York)	6.9%	2.1%	0.0%	0.0%	0.0%	0.0%	3.6%	1.1%
Keyspan Energy Delivery (Long Island)	4.4%▼	1.7%	0.0%	0.0%	0.0%	0.0%	2.2%	0.9%
Other	2.1%	1.2%	1.6%▼	0.8%	3.3%	2.2%	2.0%▼	0.7%
Central Hudson Gas & Electric Corporation	0.0%	0.0%	1.7%	0.8%	1.1%	1.3%	0.8%	0.3%
Orange & Rockland	0.0%	0.0%	1.8%▼	0.8%	0.0%	0.0%	0.7%▼	0.3%
St. Lawrence Gas Company	0.0%	0.0%	0.0%	0.0%	5.0%	2.7%	0.5%	0.3%
Corning Natural Gas Corporation	0.0%	0.0%	0.1%	0.2%	3.3%	2.2%	0.4%	0.2%
Reserve Gas Company	0.0%	0.0%	0.6%	0.5%	0.0%	0.0%	0.2%	0.2%
Bath Electric, Gas & Water System[a]	0.0%	0.0%	0.0%	0.0%	1.1%	1.3%	0.1%	0.1%
Valley Energy[a]	0.0%	0.0%	0.1%	0.2%	0.0%	0.0%	0.1%	0.1%
Respondents (n)	422	422	964	964	212	212	1,598	1,598

[a] *Bath Electric, Gas & Water System and Valley Energy did not appear as 2015 RSBS utilities.*

Source: Survey fields: ['Natural Gas Provider', 'Climate Zone'].

TABLE 34. NATURAL GAS PROVIDER BY HOME VINTAGE (SURVEY)
COMPARE WITH TABLE 36, VOLUME 5, IN 2015 RSBS.

Natural Gas Provider	Existing Homes		New Homes		Overall Statewide	
	%	EB	%	EB	%	EB
National Grid	54.4%▲	2.5%	55.7%▲	6.3%	54.4%▲	2.5%
National Fuel Gas Distribution Corporation	10.0%▲	1.2%	12.1%	2.6%	10.0%▲	1.2%
Consolidated Edison	9.5%▼	1.7%	2.5%▼	2.9%	9.5%▼	1.7%
New York State Electric & Gas Corporation	8.9%	1.2%	8.6%	2.2%	8.9%	1.2%
Rochester Gas Company	6.6%	1.0%	10.3%	2.4%	6.7%	1.0%
Keyspan Energy Delivery (New York)	3.6%	1.1%	2.5%	2.9%	3.6%	1.1%
Keyspan Energy Delivery (Long Island)	2.3%▼	0.9%	1.3%	2.1%	2.2%	0.9%
Other	2.0%▼	0.7%	1.6%	2.1%	2.0%▼	0.7%
Central Hudson Gas & Electric Corporation	0.7%	0.3%	2.7%	1.2%	0.8%	0.3%
Orange & Rockland	0.7%▼	0.3%	2.1%▼	1.0%	0.7%▼	0.3%
St. Lawrence Gas Company	0.5%	0.3%	0.2%	0.4%	0.5%	0.3%
Corning Natural Gas Corporation	0.4%	0.2%	0.2%	0.4%	0.4%	0.2%
Reserve Gas Company	0.2%	0.2%	0.0%	0.0%	0.2%	0.2%
Bath Electric, Gas & Water System[a]	0.1%	0.1%	0.2%	0.3%	0.1%	0.1%
Valley Energy[a]	0.1%	0.1%	0.0%	0.0%	0.1%	0.1%
Respondents (n)	1,242	1,242	356	356	1,598	1,598

[a] *Bath Electric, Gas & Water System and Valley Energy did not appear as 2015 RSBS utilities.*

Source: Survey fields: ['Natural Gas Provider', 'Construction Type'].

TABLE 35. WHO PAYS FOR NATURAL GAS BY CLIMATE ZONE (SURVEY)
COMPARE WITH TABLE 37, VOLUME 5, IN 2015 RSBS.

Pays Bills	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Household Member/Occupant	98.7%▲	0.9%	99.7%▲	0.3%	99.5%▲	0.9%	99.2%▲	0.5%
Landlord	1.3%▼	0.9%	0.3%▼	0.3%	0.5%▼	0.9%	0.8%▼	0.5%
Respondents (n)	434	434	975	975	217	217	1,626	1,626

Source: Survey fields: ['Natural Gas Bill Payee', 'Climate Zone'].

TABLE 36. WHO PAYS FOR NATURAL GAS BY HOME VINTAGE (SURVEY)
COMPARE WITH TABLE 38, VOLUME 5, IN 2015 RSBS.

Pays Bills	Existing Homes		New Homes		Overall Statewide	
	%	EB	%	EB	%	EB
Household Member/Occupant	99.2%▲	0.5%	96.2%	3.5%	99.2%▲	0.5%
Landlord	0.8%▼	0.5%	3.8%	3.5%	0.8%▼	0.5%
Respondents (n)	1,267	1,267	359	359	1,626	1,626

Source: Survey fields: ['Natural Gas Bill Payee', 'Construction Type'].

TABLE 37. PERCENTAGE OF EQUIPMENT LESS THAN 10 YEARS OLD THAT IS ENERGY STAR BY CLIMATE ZONE (SURVEY AND SITE)
COMPARE WITH TABLE 55, VOLUME 1, IN 2015 RSBS.

Equipment Type		Web and Telephone Surveys								Site Visits	
		Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide		Overall Statewide	
		%	EB	%	EB	%	EB	%	EB	%	EB
Clothes Washer[a]	% ENERGY STAR	93.0%▲	2.5%	88.9%▲	2.3%	87.9%	3.6%	90.7%▲	1.6%	76.9%	5.9%
	Respondents (n)	312	312	810	810	307	307	1,429	1,429	237	237
Primary Cooling System[a]	% ENERGY STAR	92.4%▲	2.9%	86.4%	3.0%	89.4%	3.9%	89.9%▲	1.9%	64.8%	8.2%
	Respondents (n)	241	241	597	597	234	234	1,072	1,072	126	126
Dishwasher[b]	% ENERGY STAR	92.8%▲	2.9%	86.1%	2.8%	87.5%	4.3%	89.4%▲	1.9%	59.4%	6.3%
	Respondents (n)	231	231	702	702	245	245	1,178	1,178	295	295
Stand-Alone Freezer	% ENERGY STAR	88.7%▲	8.0%	82.3%	5.7%	83.9%	7.7%	84.9%▲	4.1%	42.9%	13.4%
	Respondents (n)	45	45	169	169	81	81	295	295	65	65
Primary Heating System	% ENERGY STAR	85.3%	5.5%	86.3%▲	3.3%	73.3%	7.2%	84.0%▲	2.9%	57.2%	9.8%
	Respondents (n)	134	134	569	569	172	172	875	875	151	151
Refrigerator	% ENERGY STAR	86.5%▲	3.5%	80.5%▲	3.1%	80.2%▲	4.8%	83.5%▲	2.2%	55.6%▲	6.7%
	Respondents (n)	283	283	736	736	272	272	1,291	1,291	257	257
Programmable Thermostat[a,d]	% Installed	66.2%	3.5%	65.7%	2.6%	51.6%	4.1%	63.8%▼	2.0%	69.5%	3.8%
	Respondents (n)	538	538	1,296	1,296	508	508	2,342	2,342	436	436
Smart Thermostat[c,d]	% Installed	13.9%	2.5%	10.2%	1.7%	4.4%	1.7%	11.1%	1.4%	5.8%	2.0%
	Respondents (n)	538	538	1,296	1,296	508	508	2,342	2,342	436	436
Clothes Dryer - Heat Pump Dryer	% Installed	4.2%	2.1%	2.5%	1.2%	0.0%▼	0.0%	2.9%	1.0%	0.0%	0.0%
	Respondents (n)	270	270	796	796	296	296	1,362	1,362	0	0

[a] *On-site results for heat pump clothes dryers, primary cooling, and programmable thermostats cannot be compared with 2015 RSBS results, which showed values of NA.*
[b] *Dishwashers included in site inspection results may be more than 10 years old.*
[c] *Smart thermostats were not included in the 2015 RSBS, so smart thermostat results cannot be compared with 2015 RSBS results.*
[c] *Included thermostats may be more than 10 years old.*
Source: Survey fields: ['Energy Star Primary Heat System', 'Age of Primary Heating System', 'Thermostat Type', 'Energy Star Air Conditioning', 'Age of Primary Air Conditioning', 'Energy Star Automatic Dishwasher', 'Age of Automatic Dishwasher', 'Energy Star Fridge', 'Age of Fridge', 'Energy Star Standalone Freezer', 'Age of First Freezer', 'Energy Star Clothes Washer', 'Age of Clothes Washer', 'Heat Pump Clothes Dryer', 'Age of Clothes Dryer', 'Climate Zone'], On-site fields: ['Equipment Category', 'Is HVAC Heating Primary or Secondary Source?', 'HVAC System Year Manufactured', 'Is HVAC System ENERGY STAR?', 'HVAC Controls Thermostat Type', 'Is HVAC Cooling Primary or Secondary Source?', 'Number of HVAC Systems', 'Appliance Energy Star Certified?', 'Number of Appliance Units', 'Appliance Manufacture Year', 'Climate Zone'].

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TABLE 38. PRIMARY HEATING SYSTEM TYPE BY HOME VINTAGE (SURVEY)
COMPARE WITH TABLE 17, VOLUME 1, IN 2015 RSBS.

Type	Existing Homes		New Homes		Overall Statewide	
	%	EB	%	EB	%	EB
Central Forced-Air Furnace	48.3%	2.1%	75.5%	4.4%	48.5%	2.1%
Central Boiler[a,b]	42.9%	2.2%	15.3%	4.1%	42.7%	2.1%
Baseboard Electric Heat[a,b]	2.0%	0.5%	1.5%	0.8%	2.0%	0.5%
Other	1.4%▼	0.5%	0.9%▼	0.6%	1.4%▼	0.5%
Heating Stove Burning Wood or Coal[b]	1.3%	0.4%	0.3%	0.3%	1.3%	0.4%
Air Source Heat Pump	1.2%	0.4%	1.3%	0.7%	1.2%	0.4%
District Steam	1.1%	0.5%	0.0%	0.0%	1.1%	0.5%
Ground Source Heat Pump	0.8%	0.4%	3.2%▼	1.1%	0.8%	0.4%
Ductless Mini-Split Heat Pump[b]	0.4%	0.2%	1.3%	1.5%	0.4%	0.2%
Wood Pellet Stove[b]	0.4%	0.2%	0.6%	0.5%	0.4%	0.2%
Fireplace	0.2%▼	0.1%	0.1%	0.2%	0.2%▼	0.1%
Portable Electric Heater	0.1%	0.1%	0.0%	0.0%	0.1%▼	0.1%
Respondents (n)	1,791	1,791	575	575	2,366	2,366

[a] The apparent increase in central boilers and decrease in baseboard electric heat results from a large percentage of boiler systems characterized by participants as baseboard heating in the 2015 RSBS.
[b] Comparisons cannot be made with the corresponding table in the 2015 RSBS for central boiler, baseboard electric heat, heating stove burning wood or coal, ductless mini-split heat pump, or wood pellet stove.

Source: Survey fields: ['Primary Heating System Type', 'Construction Type'].

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TABLE 39. PRIMARY HEATING FUEL BY CLIMATE ZONE (SURVEY AND SITE)

COMPARE WITH TABLE 7, VOLUME 1, IN 2015 RSBS.

Fuel	Web and Telephone Surveys								Site Visits	
	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB	%	EB
Natural Gas	67.4%▲	3.4%	72.4%▲	2.4%	41.2%▲	4.0%	65.2%▲	2.0%	71.2%▲	4.5%
Fuel Oil	26.2%▼	3.2%	10.2%▼	1.7%	19.8%	3.3%	19.3%▼	1.7%	21.0%	4.3%
Electricity	4.0%	1.4%	8.5%	1.5%	12.9%▲	2.7%	7.0%	1.0%	1.8%	1.0%
Propane	0.2%▼	0.3%	5.7%▼	1.3%	13.4%	2.8%	4.3%▼	0.7%	4.5%	1.6%
Wood/Wood Pellets	0.0%	0.0%	2.3%▼	0.8%	8.0%▼	2.2%	2.1%▼	0.5%	1.1%▼	0.8%
District Steam	2.0%▲	1.0%	0.7%	0.4%	0.2%	0.4%	1.2%▲	0.5%	0.0%	0.0%
Kerosene	0.0%	0.0%	0.2%	0.3%	2.5%▼	1.3%	0.5%▼	0.2%	0.2%	0.4%
Other	0.2%	0.3%	0.0%▼	0.0%	1.7%	1.1%	0.4%▼	0.2%	0.2%	0.3%
Solar	0.0%	0.0%	0.0%▼	0.0%	0.2%	0.4%	0.0%	0.1%	0.0%	0.0%
Respondents (n)	542	542	1,313	1,313	522	522	2,377	2,377	422	422

Source: Survey fields: ['Primary Fuel Type', 'Climate Zone'], On-site fields: ['HVAC Heating Fuel Type', 'Climate Zone'].

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TABLE 40. EXISTING HOMES: PRIMARY HEATING FUEL BY CLIMATE ZONE (SURVEY)

COMPARE WITH TABLE 18, VOLUME 1, IN 2015 RSBS.

Primary Fuel Type	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Natural Gas	67.3%▲	3.4%	72.4%▲	2.5%	41.3%▲	4.1%	65.2%▲	2.0%
Fuel Oil	26.3%▼	3.2%	10.3%	1.7%	19.9%	3.3%	19.4%▼	1.8%
Electricity	4.0%	1.4%	8.5%	1.5%	12.8%▲	2.8%	7.0%	1.0%
Propane	0.2%▼	0.3%	5.6%▼	1.3%	13.1%	2.8%	4.2%▼	0.7%
Wood	0.0%	0.0%	1.7%	0.7%	6.5%	2.0%	1.6%	0.4%
Wood Pellets	0.0%	0.0%	0.7%	0.4%	1.5%	1.0%	0.5%	0.2%
Kerosene	0.0%	0.0%	0.2%	0.3%	2.5%▼	1.3%	0.5%▼	0.2%
District Steam	2.0%▲	1.0%	0.7%	0.4%	0.3%	0.4%	1.2%▲	0.5%
Other	0.2%	0.3%	0.0%	0.0%	1.8%	1.1%	0.4%▼	0.2%
Solar	0.0%	0.0%	0.0%	0.0%	0.3%	0.4%	0.0%	0.1%
Respondents (n)	505	505	896	896	397	397	1,798	1,798

Source: Survey fields: ['Primary Fuel Type', 'Climate Zone'].

TABLE 41. NEW HOMES: PRIMARY HEATING FUEL BY CLIMATE ZONE (SURVEY)
COMPARE WITH TABLE 19, VOLUME 1, IN 2015 RSBS.

Primary Fuel Type	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Natural Gas	86.5%▲	9.5%	65.7%	3.8%	23.2%	6.3%	64.3%▲	4.3%
Propane	2.7%▼	4.5%	18.7%	3.2%	48.0%	7.4%	19.1%	3.0%
Electricity	8.1%	7.6%	12.9%▲	2.7%	18.4%	5.7%	12.4%▲	3.0%
Fuel Oil	2.7%▼	4.5%	0.5%▼	0.6%	4.8%	3.2%	2.0%▼	1.6%
Wood Pellets	0.0%	0.0%	0.5%	0.6%	3.2%	2.6%	0.8%	0.6%
Wood	0.0%	0.0%	0.5%	0.6%	2.4%	2.3%	0.7%	0.5%
Solar	0.0%	0.0%	1.0%	0.8%	0.0%	0.0%	0.5%	0.4%
Other	0.0%	0.0%	0.2%	0.4%	0.0%	0.0%	0.1%	0.2%
Respondents (n)	37	37	417	417	125	125	579	579

Source: Survey fields: ['Primary Fuel Type', 'Climate Zone'].

TABLE 42. EXISTING HOMES: PRIMARY HEATING SYSTEM AGE BY PRIMARY HEATING FUEL (SURVEY)

COMPARE WITH TABLE 20, VOLUME 1, IN 2015 RSBS.

Age of Heating System	Natural Gas		Oil		Electricity		Propane		Other		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB	%	EB	%	EB
Less than 2 Years	9.6%▼	1.6%	3.4%▼	1.9%	9.0%	4.2%	5.4%	3.9%	4.1%	3.3%	8.0%▼	1.2%
2 to 4 Years	11.0%▼	1.7%	8.1%	2.9%	18.7%	5.9%	12.5%	5.6%	9.6%▼	5.8%	11.0%▼	1.3%
5 to 9 Years	22.9%	2.2%	15.4%▼	3.9%	24.1%	6.9%	27.4%	7.6%	27.4%	8.5%	21.9%	1.8%
10 to 14 Years	21.3%▲	2.2%	18.4%	4.2%	12.5%	5.2%	29.6%▲	7.8%	17.1%	7.4%	20.3%▲	1.8%
15 to 19 Years	11.1%	1.7%	16.9%	3.9%	10.2%	5.2%	6.3%	4.1%	12.4%	7.3%	12.0%▲	1.4%
20 or More Years	24.0%▲	2.4%	37.7%▲	5.2%	25.7%	6.3%	18.9%	6.7%	29.5%	8.7%	26.8%▲	2.0%
Respondents (n)	1,083	1,083	283	283	134	134	95	95	84	84	1,679	1,679

Source: Survey fields: ['Age of Primary Heating System', 'Primary Fuel Type'].

TABLE 43. EXISTING HOMES: PRIMARY HEATING SYSTEM TYPE BY PRIMARY HEATING FUEL (SURVEY)

COMPARE WITH TABLE 21, VOLUME 1, IN 2015 RSBS.

Fuel Type	Natural Gas		Oil		Electricity		Propane		Other		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB	%	EB	%	EB
Central Forced-Air Furnace	59%	3%	26%	4%	33%	7%	59%	8%	10%▼	5%	49%	2%
Central Boiler[a, b]	41%▲	3%	72%▲	4%	0%	0%	36%▲	8%	13%	6%	42%▲	2%
Baseboard Electric Heat[a, b]	0%	0%	0%	0%	28%	6%	0%	0%	0%	0%	2%▼	1%
Other	0%▼	0%	2%	2%	4%	3%	3%▼	3%	8%	5%	1%▼	0%
Air Source Heat Pump	0%	0%	0%	0%	17%▲	6%	0%	0%	0%	0%	1%	0%
Heating Stove Burning Wood[b]	0%	0%	0%	0%	0%	0%	0%	0%	28%	8%	1%	0%
District Steam	0%	0%	0%	0%	0%	0%	0%	0%	27%▲	10%	1%	0%
Ground Source Heat Pump	0%	0%	0%	0%	11%▲	5%	0%	0%	0%	0%	1%	0%
Ductless Mini-Split Heat Pump[b]	0%	0%	0%	0%	6%	3%	0%	0%	0%	0%	0%	0%
Wood Pellet Stove[b]	0%	0%	0%	0%	0%	0%	0%	0%	10%	5%	0%	0%
Fireplace	0%	0%	0%	0%	0%	0%	2%	2%	1%	2%	0%▼	0%
Heating Stove Burning Coal[b]	0%	0%	0%	0%	0%	0%	0%	0%	4%	3%	0%	0%
Portable Electric Heater	0%	0%	0%	0%	1%▼	1%	0%	0%	0%	0%	0%▼	0%
Respondents (n)	1,140	1,140	302	302	146	146	96	96	89	89	1,773	1,773

[a] *The apparent increase in central boilers and decrease in baseboard electric heat appears to result from a large percentage of boiler systems characterized by participants as baseboard heating in the 2015 RSBS.*
[b] *Comparisons cannot be made with the corresponding table in the 2015 RSBS for central boiler, baseboard electric heat, heating stove burning wood or coal, ductless mini-split heat pump, wood pellet stove, or heating stove burning coal.*

Source: Survey fields: ['Primary Heating System Type', 'Primary Fuel Type'].

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TABLE 44. NEW HOMES: PRIMARY HEATING SYSTEM TYPE BY PRIMARY HEATING FUEL (SURVEY)
COMPARE WITH TABLE 22, VOLUME 1, IN 2015 RSBS.

Fuel Type	Natural Gas		Propane		Electricity		Other		Oil		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB	%	EB	%	EB
Central Forced-Air Furnace	84.6%	6.2%	70.6%	6.9%	41.7%	13.0%	40.1%	22.1%	77.4%	44.0%	75.4%	4.5%
Steam/Hot Water Boiler	14.7%▲	6.2%	27.3%▲	6.7%	0.0%	0.0%	12.7%	15.4%	22.6%	44.0%	15.3%▲	4.2%
Ground Source Heat Pump	0.0%	0.0%	0.0%	0.0%	25.2%▲	8.8%	0.0%	0.0%	0.0%	0.0%	3.2%▼	1.1%
Baseboard Electric Heat	0.0%	0.0%	0.0%	0.0%	11.8%▼	6.2%	0.0%	0.0%	0.0%	0.0%	1.5%▼	0.8%
Air Source Heat Pump	0.0%	0.0%	0.0%	0.0%	10.3%	5.5%	0.0%	0.0%	0.0%	0.0%	1.3%	0.7%
Ductless Mini-Split Heat Pump[a]	0.0%	0.0%	0.0%	0.0%	10.1%	11.1%	0.0%	0.0%	0.0%	0.0%	1.3%	1.5%
Other	0.5%	0.6%	2.1%▼	2.0%	0.9%▼	1.6%	5.5%	9.7%	0.0%	0.0%	0.9%▼	0.6%
Wood Pellet Stove[a]	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	29.0%	21.6%	0.0%	0.0%	0.6%	0.5%
Heating Stove Burning Wood[a]	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	12.7%	15.4%	0.0%	0.0%	0.3%	0.3%
Fireplace[a]	0.2%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.2%
Respondents (n)	332	332	134	134	80	80	16	16	8	8	570	570

[a] *Comparisons cannot be made with the corresponding table in the 2015 RSBS for ductless mini-split heat pump, wood pellet stove, heating stove burning wood, or fireplace.*

Source: Survey fields: ['Primary Heating System Type', 'Primary Fuel Type'].

TABLE 45. PRIMARY HEATING FUEL BY DWELLING UNIT TYPE (SURVEY)

COMPARE WITH TABLE 23, VOLUME 1, IN 2015 RSBS.

Fuel Type	Single-Family Detached House		Single-Family Attached House		Mobile or Manufactured Home		Multi-Unit Building or Condominium		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB	%	EB
Natural Gas	63.5%▲	2.1%	89.2%▲	4.6%	6.7%▼	6.9%	78.7%	15.7%	65.2%▲	2.0%
Fuel Oil	20.8%▼	1.9%	4.0%▼	3.1%	29.5%	14.2%	7.9%	12.7%	19.3%▼	1.7%
Propane	4.1%▼	0.7%	0.5%	0.8%	38.1%	13.9%	3.2%	5.4%	4.3%▼	0.7%
Electricity	7.0%▲	1.0%	6.3%	3.5%	11.9%	9.0%	10.2%	9.9%	7.0%	1.0%
Wood[a]	1.8%	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.6%	0.4%
District Steam	1.4%▲	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.2%▲	0.5%
Kerosene	0.4%▼	0.2%	0.0%	0.0%	11.1%	8.8%	0.0%	0.0%	0.5%▼	0.2%
Wood Pellets[a]	0.5%	0.2%	0.0%	0.0%	2.8%	4.6%	0.0%	0.0%	0.5%	0.2%
Other	0.4%▼	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%▼	0.2%
Solar	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Respondents (n)	2,133	2,133	155	155	60	60	29	29	2,377	2,377

[a] *Comparisons cannot be made with the corresponding table in the 2015 RSBS for wood or wood pellets.*

Source: Survey fields: ['Home Description', 'Primary Fuel Type'].

TABLE 46. EFFICIENCY OF BOILERS AND FURNACES BY FUEL TYPE (SITE)

THIS TABLE IS NEW WITH THE 2019 RBSA.

AFUE	Gas[a]		Oil		Overall Statewide	
	%	EB	%	EB	%	EB
60 to 69	0.2%	0.4%	3.5%	4.6%	1.0%	1.1%
70 to 79	2.1%	1.6%	7.2%	5.5%	3.2%	1.7%
80 to 84	52.8%	5.7%	47.4%	12.2%	51.6%	5.2%
85 to 89	5.4%	3.1%	41.9%	12.1%	13.5%	3.9%
90 to 94	20.1%	4.3%	0.0%	0.0%	15.6%	3.4%
95 and above	19.4%	3.8%	0.0%	0.0%	15.1%	3.0%
Respondents (n)	326	326	61	61	387	387

Note: This table is new to the 2019 RBSA and its values cannot be compared with those of any 2015 RSBS table.

[a] *As defined for this table, gas includes natural gas and propane.*

Source: On-site fields: ['Rated Heating Efficiency', 'HVAC Heating Fuel Type', 'HVAC System Type'].

TABLE 47. FURNACE EFFICIENCY BY EQUIPMENT AGE (SITE)

THIS TABLE IS NEW WITH THE 2019 RBSA.

AFUE	Manufactured in 2000 or Later		Manufactured before 2000		Overall Statewide	
	%	EB	%	EB	%	EB
70 to 79	1.1%	1.3%	7.4%	6.1%	2.7%	1.8%
80 to 84	23.0%	7.6%	71.0%	12.4%	34.8%	6.9%
85 to 89	4.1%	4.1%	1.7%	2.9%	3.5%	3.2%
90 to 94	32.4%	7.2%	18.1%	11.1%	28.9%	6.1%
95 and above	39.3%	7.2%	1.8%	2.9%	30.1%	5.7%
Respondents (n)	192	192	45	45	237	237

Note: This table is new to the 2019 RBSA and its values cannot be compared with those of any 2015 RSBS table.

Source: On-site fields: ['Rated Heating Efficiency', 'HVAC System Year Manufactured', 'HVAC System Type', 'HVAC Heating Fuel Type'].

TABLE 48. BOILER EFFICIENCY BY EQUIPMENT AGE (SITE)

THIS TABLE IS NEW WITH THE 2019 RBSA.

AFUE	Manufactured in 2000 or Later		Manufactured before 2000		Overall Statewide	
	%	EB	%	EB	%	EB
60 to 69	0.6%	1.0%	3.6%	4.7%	1.8%	2.0%
70 to 79	2.5%	3.2%	5.3%	5.1%	3.6%	2.8%
80 to 84	60.0%	9.9%	73.1%	10.9%	65.2%	7.3%
85 to 89	23.8%	8.8%	18.1%	9.6%	21.5%	6.5%
90 to 94	8.2%	5.0%	0.0%	0.0%	4.9%	3.0%
95 and above	4.9%	3.7%	0.0%	0.0%	2.9%	2.2%
Respondents (n)	90	90	60	60	150	150

Note: This table is new to the 2019 RBSA and its values cannot be compared with those of any 2015 RSBS table.

Source: On-site fields: ['Rated Heating Efficiency', 'HVAC System Year Manufactured', 'HVAC System Type', 'HVAC Heating Fuel Type'].

TABLE 49. HEATING SYSTEM ENERGY STAR RATED BY CLIMATE ZONE (SURVEY)

COMPARE WITH TABLE 44, VOLUME 5, IN 2015 RSBS.

ENERGY STAR Heating	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Yes	85.3%	5.5%	86.3%▲	3.3%	73.3%	7.2%	84.0%▲	2.9%
No	14.7%	5.5%	13.7%▼	3.3%	26.7%	7.2%	16.0%▼	2.9%
Respondents (n)	134	134	569	569	172	172	875	875

Source: Survey fields: ['Energy Star Primary Heat System', 'Climate Zone'].

TABLE 50. HEATING SYSTEM ENERGY STAR RATED BY HOME VINTAGE (SURVEY)

COMPARE WITH TABLE 45, VOLUME 5, IN 2015 RSBS.

ENERGY STAR Heating	Existing Homes		New Homes		Overall Statewide	
	%	EB	%	EB	%	EB
Yes	83.8%▲	2.9%	92.1%	2.2%	84.0%▲	2.9%
No	16.2%▼	2.9%	7.9%	2.2%	16.0%▼	2.9%
Respondents (n)	504	504	371	371	875	875

Source: Survey fields: ['Energy Star Primary Heat System', 'Construction Type'].

TABLE 51. AVERAGE NUMBER OF FIREPLACES BY CLIMATE ZONE (SURVEY)

COMPARE WITH TABLE 42, VOLUME 5, IN 2015 RSBS.

Fireplaces	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	Mean	EB	Mean	EB	Mean	EB	Mean	EB
Wood	0.2	0.0	0.2	0.0	0.2	0.0	0.2	0.0
Natural Gas	0.1	0.0	0.2▲	0.0	0.1	0.0	0.1▲	0.0
Propane	0.0	0.0	0.0▲	0.0	0.1	0.0	0.0▲	0.0
Electric	0.1▲	0.0	0.1	0.0	0.1	0.0	0.1	0.0
Respondents (n)	494	494	1,199	1,199	484	484	2,177	2,177

Source: Survey fields: ['No. of Wood Fireplaces', 'No. of Gas Fireplaces', 'No. of Propane Fireplaces', 'No. of Electric Fireplaces', 'Climate Zone'].

TABLE 52. AVERAGE NUMBER OF FIREPLACES BY HOME VINTAGE (SURVEY)
COMPARE WITH TABLE 43, VOLUME 5, IN 2015 RSBS.

Fireplaces	Existing Homes		New Homes		Overall Statewide	
	Mean	EB	Mean	EB	Mean	EB
Wood	0.22	0.02	0.11▼	0.04	0.22	0.02
Natural Gas	0.15▲	0.02	0.40	0.06	0.15▲	0.02
Propane	0.03▲	0.01	0.09	0.03	0.03▲	0.01
Electric	0.10	0.02	0.25	0.20	0.10	0.02
Respondents (n)	1,651	1,651	526	526	2,177	2,177

Source: Survey fields: ['No. of Wood Fireplaces', 'No. of Gas Fireplaces', 'No. of Propane Fireplaces', 'No. of Electric Fireplaces', 'Construction Type'].

TABLE 53. AVERAGE NUMBER OF OTHER HEATING SOURCES BY CLIMATE ZONE (SURVEY)
COMPARE WITH TABLE 46, VOLUME 5, IN 2015 RSBS.

Other Heat Source	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	Mean	EB	Mean	EB	Mean	EB	Mean	EB
Heat Stove[a]	0.04	0.02	0.10	0.02	0.17	0.03	0.08	0.01
Portable Electric Heater	0.33	0.06	0.36	0.04	0.46	0.07	0.36	0.03
Portable Kerosene Heater	0.00	0.01	0.01	0.01	0.01	0.01	0.01▲	0.00
Pellet Stove[a]	0.00	0.01	0.03	0.01	0.05	0.02	0.02	0.01
Respondents (n)	447	447	1,039	1,039	427	427	1,913	1,913

[a] *Comparisons cannot be made with the corresponding table in the 2015 RSBS for heat stove or pellet stove.*

Source: Survey fields: ['Number of Heat Stoves in Winter', 'Number of Electric Heaters', 'Number of Kerosene Heaters', 'Number of Pellet Stoves', 'Climate Zone'].

TABLE 54. AVERAGE NUMBER OF OTHER HEATING SOURCES BY HOME VINTAGE (SURVEY)
COMPARE WITH TABLE 47, VOLUME 5, IN 2015 RSBS.

Other Heat Source	Existing Homes		New Homes		Overall Statewide	
	Mean	EB	Mean	EB	Mean	EB
Heat Stove[a]	0.08	0.01	0.04	0.01	0.08	0.01
Portable Electric Heater	0.36	0.03	0.22	0.08	0.36	0.03
Portable Kerosene Heater	0.01▲	0.00	0.00	0.00	0.01▲	0.00
Pellet Stove[a]	0.02	0.01	0.02	0.01	0.02	0.01
Respondents (n)	1,489	1,489	424	424	1,913	1,913

[a] *Comparisons cannot be made with the corresponding table in the 2015 RSBS for heat stove or pellet stove.*

Source: Survey fields: ['Number of Heat Stoves in Winter', 'Number of Electric Heaters', 'Number of Kerosene Heaters', 'Number of Pellet Stoves', 'Construction Type'].

TABLE 55. HEATING SYSTEM TUNE-UP BY CLIMATE ZONE (SURVEY)
COMPARE WITH TABLE 24, VOLUME 1, IN 2015 RSBS.

Tune-Up Conducted	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Yes, by a Heating Contractor	57.9%	3.6%	44.2%	2.7%	42.7%▼	4.1%	50.5%	2.1%
No	32.3%	3.4%	41.3%	2.7%	40.1%▲	4.0%	36.8%	2.0%
Yes, by Someone in the Household	9.5%	2.1%	13.4%	1.9%	15.8%	3.0%	11.9%	1.3%
Yes, by Landlord	0.4%▼	0.5%	1.1%▼	0.6%	1.5%	1.0%	0.8%▼	0.3%
Respondents (n)	533	533	1,283	1,283	520	520	2,336	2,336

Source: Survey fields: ['Annual Tune Up Heating System', 'Climate Zone'].

TABLE 56. COOLING EQUIPMENT PRESENCE AND TYPE BY CLIMATE ZONE (SURVEY)
COMPARE WITH TABLE 25, VOLUME 1, IN 2015 RSBS.

Primary Cooling Equipment	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Central Air Conditioning System	47.0%▲	3.6%	53.1%▲	2.7%	20.1%	3.2%	45.1%▲	2.1%
Room or Window Air Conditioner	43.4%▼	3.6%	30.9%▼	2.5%	52.3%	4.0%	40.2%▼	2.1%
No Air Conditioning	3.7%▼	1.4%	12.2%▼	1.8%	22.1%▼	3.4%	9.7%▼	1.1%
Heat Pump	5.5%▲	1.7%	3.5%▲	1.0%	5.2%▲	1.8%	4.7%▲	0.9%
Other	0.4%	0.5%	0.3%	0.3%	0.2%	0.4%	0.3%	0.3%
Respondents (n)	549	549	1,330	1,330	532	532	2,411	2,411

Note: Reports type of primary cooling equipment.

Source: Survey fields: ['Primary Air Conditioning Type', 'Air Conditioning in Home', 'Climate Zone'].

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TABLE 57. COOLING EQUIPMENT PRESENCE AND TYPE BY HOME VINTAGE (SURVEY)
COMPARE WITH TABLE 26, VOLUME 1, IN 2015 RSBS.

Primary Cooling Equipment	Existing Homes		New Homes		Overall Statewide	
	%	EB	%	EB	%	EB
Central Air Conditioning System	44.9%▲	2.1%	76.9%	3.6%	45.1%▲	2.1%
Room or Window Air Conditioner	40.4%▼	2.1%	11.0%▲	2.4%	40.2%▼	2.1%
No Air Conditioning	9.7%▼	1.1%	7.1%▼	2.4%	9.7%▼	1.1%
Heat Pump	4.7%▲	0.9%	4.9%	1.8%	4.7%▲	0.9%
Other	0.3%	0.3%	0.0%	0.0%	0.3%	0.3%
Respondents (n)	1,827	1,827	584	584	2,411	2,411

Note: Reports type of primary cooling equipment.

Source: Survey fields: ['Primary Air Conditioning Type', 'Air Conditioning in Home', 'Construction Type'].

TABLE 58. COOLING EQUIPMENT PRESENCE AND TYPE BY DWELLING UNIT TYPE (SURVEY)

COMPARE WITH TABLE 27, VOLUME 1, IN 2015 RSBS.

Primary Cooling Equipment	Single-Family Detached House		Single-Family Attached House		Mobile or Manufactured Home		Multi-Unit Building or Condominium		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB	%	EB
Central Air Conditioning System	46.4%▲	2.2%	39.0%	7.8%	37.1%	14.5%	18.3%	12.2%	45.1%▲	2.1%
Room or Window Air Conditioner	38.7%▼	2.2%	49.5%	8.0%	43.4%	14.3%	62.8%	14.4%	40.2%▼	2.1%
No Air Conditioning	9.8%▼	1.2%	5.4%▼	3.4%	19.6%	11.1%	18.9%	10.2%	9.7%▼	1.1%
Heat Pump	4.8%▲	1.0%	5.7%	3.8%	0.0%	0.0%	0.0%	0.0%	4.7%▲	0.9%
Other	0.3%▼	0.3%	0.5%	0.8%	0.0%	0.0%	0.0%	0.0%	0.3%	0.3%
Respondents (n)	2,152	2,152	156	156	61	61	42	42	2,411	2,411

Note: Reports type of primary cooling equipment.

Source: Survey fields: ['Home Description', 'Primary Air Conditioning Type', 'Air Conditioning in Home'].

TABLE 59. PERCENTAGE OF CONDITIONED SPACE MECHANICALLY COOLED BY CLIMATE ZONE (SITE)

COMPARE WITH TABLE 162, VOLUME 5, IN 2015 RSBS.

Space Cooled (%)	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
10	0.0%	0.0%	0.6%▼	1.0%	4.4%	5.1%	0.9%▼	0.9%
20	2.8%▼	3.2%	4.9%▼	2.8%	8.9%	7.0%	4.5%▼	2.1%
30	1.4%▼	2.3%	1.8%▼	1.7%	4.4%	5.1%	2.0%▼	1.5%
40	4.2%	3.9%	3.1%	2.2%	4.4%	5.1%	3.8%	2.2%
50	18.1%	7.6%	9.2%	3.8%	15.4%	9.0%	14.3%	4.0%
60	1.4%	2.3%	2.5%	2.0%	4.4%	5.1%	2.3%	1.5%
70	11.1%▲	6.2%	1.2%	1.4%	0.0%	0.0%	5.7%	3.0%
80	1.4%	2.3%	1.2%	1.4%	2.2%	3.6%	1.5%	1.3%
90	5.6%	4.5%	0.7%	1.0%	0.1%▼	0.1%	2.9%	2.1%
100	54.2%▲	9.8%	74.7%▲	5.6%	55.8%▲	12.3%	62.1%▲	5.4%
Respondents (n)	72	72	225	225	57	57	354	354

Note: For mechanically cooled homes, this tables provides an average of the percentage of the living area conditioned by primary cooling systems.

Source: On-site fields: ['HVAC Cooling Percentage of Conditioned Space', 'Climate Zone'].

TABLE 60. PERCENTAGE OF CONDITIONED SPACE MECHANICALLY COOLED BY HOME VINTAGE (SITE)

COMPARE WITH TABLE 163, VOLUME 5, IN 2015 RSBS.

Space Cooled (%)	Existing Homes		New Homes		Overall Statewide	
	%	EB	%	EB	%	EB
10	0.9%▼	0.9%	0.0%	0.0%	0.9%▼	0.9%
20	4.6%▼	2.2%	2.3%	3.8%	4.5%▼	2.1%
30	2.0%▼	1.5%	0.0%	0.0%	2.0%▼	1.5%
40	3.8%	2.2%	0.0%	0.0%	3.8%	2.2%
50	14.4%	4.1%	0.0%	0.0%	14.3%	4.0%
60	2.3%	1.5%	1.1%	1.9%	2.3%	1.5%
70	5.7%	3.0%	1.1%	1.9%	5.7%	3.0%
80	1.5%	1.3%	0.0%	0.0%	1.5%	1.3%
90	2.8%	2.1%	5.7%	4.9%	2.9%	2.1%
100	62.0%▲	5.5%	89.7%	6.5%	62.1%▲	5.4%
Respondents (n)	278	278	76	76	354	354

Note: For mechanically cooled homes, this table provides an average of the percentage of the living area conditioned by primary cooling systems.

Source: On-site fields: ['HVAC Cooling Percentage of Conditioned Space', 'Construction Type'].

TABLE 61. PRIMARY COOLING EQUIPMENT AGE BY CLIMATE ZONE (SURVEY)
COMPARE WITH TABLE 28, VOLUME 1, IN 2015 RSBS.

Age	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Less than 2 Years	15.1%	2.7%	13.6%	2.0%	18.6%	3.7%	15.0%	1.6%
2 to 4 Years	18.1%▼	2.9%	19.5%▼	2.4%	27.7%	4.2%	19.9%▼	1.8%
5 to 9 Years	27.8%	3.4%	30.8%	2.8%	29.7%	4.3%	29.1%	2.1%
10 to 14 Years	19.6%▲	3.0%	19.3%	2.4%	12.0%	3.1%	18.5%	1.8%
15 to 19 Years	11.0%▲	2.4%	9.1%▲	1.7%	6.0%	2.3%	9.6%▲	1.4%
20 or More Years	8.4%	2.1%	7.8%	1.6%	6.0%	2.3%	7.8%▲	1.3%
Respondents (n)	498	498	1,136	1,136	396	396	2,030	2,030

Source: Survey fields: ['Age of Primary Air Conditioning', 'Climate Zone'].

TABLE 62. COOLING EQUIPMENT AGE BY CLIMATE ZONE (SITE)
COMPARE WITH TABLE 29, VOLUME 1, IN 2015 RSBS.

Age	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Less than 2 Years	5.1%▼	3.2%	11.3%▼	4.0%	7.9%	5.2%	7.1%▼	2.3%
2 to 4 Years	8.8%	4.5%	11.6%	4.5%	17.1%	8.8%	10.6%	3.2%
5 to 9 Years	33.6%	8.9%	22.8%	5.3%	49.2%	12.7%	32.8%	5.8%
10 to 14 Years	22.6%	8.9%	23.7%	5.5%	11.6%	6.9%	21.5%	5.7%
15 to 19 Years	15.3%	8.6%	12.7%	4.0%	5.2%	4.3%	13.3%	5.3%
20 or More Years	14.6%	6.6%	17.9%	4.7%	9.1%	6.3%	14.8%	4.2%
Systems (n)	137	137	240	240	89	89	466	466

Note: This table represents age of all space cooling systems, whether used as primary or secondary cooling equipment.

Source: On-site fields: ['HVAC System Year Manufactured', 'Number of HVAC Systems', 'Climate Zone'].

TABLE 63. PRIMARY COOLING EQUIPMENT TYPE BY HOME VINTAGE (SURVEY)

COMPARE WITH TABLE 30, VOLUME 1, IN 2015 RSBS.

Primary Cooling Equipment	Existing Homes		New Homes		Overall Statewide	
	%	EB	%	EB	%	EB
Central Air Conditioning System	49.7%▲	2.2%	82.8%	3.2%	49.9%▲	2.2%
Room or Window Air Conditioner	44.7%▼	2.2%	11.9%▲	2.6%	44.5%▼	2.2%
Heat Pump	5.2%▲	1.0%	5.3%	2.0%	5.2%▲	1.0%
Other	0.4%	0.3%	0.0%	0.0%	0.4%	0.3%
Respondents (n)	1,606	1,606	542	542	2,148	2,148

Source: Survey fields: ['Primary Air Conditioning Type', 'Construction Type'].

TABLE 64. COOLING EQUIPMENT AGE BY COOLING SYSTEM TYPE (SITE)

COMPARE WITH TABLE 31, VOLUME 1, IN 2015 RSBS.

Age	Central AC		Room Window AC		Ductless Mini-Split Heat Pump[a]		Room Sleeve AC		Room Free-Standing AC		Ground Source Heat Pump		Air Source Heat Pump		Mini-Split AC		Ducted Mini-Split Heat Pump[a]		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB	%	EB	%	EB	%	EB	%	EB	%	EB	%	EB
Less than 2 Years	11.6%	4.5%	6.3%▼	3.1%	15.4%	12.2%	0.0%	0.0%	0.0%	0.0%	61.3%	42.3%	22.6%	40.3%	0.0%	0.0%	0.0%	0.0%	8.7%▼	2.4%
2 to 4 Years	8.3%	4.7%	10.0%	4.4%	19.0%	12.4%	11.1%	11.4%	38.1%	25.1%	7.1%	7.0%	0.2%	0.5%	44.1%	0.0%	100.0%	0.0%	11.6%	3.0%
5 to 9 Years	20.6%	6.0%	44.5%	9.4%	51.1%	18.5%	24.3%	21.4%	48.1%	27.3%	31.6%	43.2%	25.3%	30.3%	11.9%	0.0%	0.0%	0.0%	34.9%▲	5.4%
10 to 14 Years	22.2%	5.9%	17.8%	5.8%	12.0%	10.2%	40.5%	32.8%	3.7%	6.7%	0.0%	0.0%	35.3%	42.0%	11.9%	0.0%	0.0%	0.0%	20.2%	4.8%
15 to 19 Years	16.7%	5.3%	9.6%	9.2%	2.6%	4.4%	12.2%	12.7%	10.0%	17.0%	0.0%	0.0%	0.0%	0.0%	32.2%	0.0%	0.0%	0.0%	11.5%	4.4%
20 or More Years	20.6%	5.6%	11.9%	6.7%	0.0%	0.0%	11.9%	11.9%	0.0%	0.0%	0.0%	0.0%	16.7%	24.8%	0.0%	0.0%	0.0%	0.0%	13.1%	3.5%
System Type (n)	229	229	188	188	52	52	27	27	17	17	17	17	10	10	5	5	2	2	547	547

Note: This table includes primary and secondary cooling systems.
[a] *Comparisons cannot be made with the corresponding table in the 2015 RSBS for ductless mini-split heat pump or ducted mini-split heat pump.*

Source: On-site fields: ['HVAC System Year Manufactured', 'Number of HVAC Systems', 'HVAC System Type'].

TABLE 65. COOLING EQUIPMENT TYPE BY CLIMATE ZONE (SITE)
COMPARE WITH TABLE 32, VOLUME 1, IN 2015 RSBS.

Cooling Equipment	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Room Window Air Conditioner	45.0%	8.2%	35.5%	6.0%	72.0%	10.2%	46.5%	5.4%
Central Air Conditioner	22.7%▼	5.5%	48.4%	5.9%	10.7%	5.7%	27.4%▼	4.0%
Room Sleeve Air Conditioner	19.0%	7.2%	2.1%	1.6%	1.1%	1.9%	12.2%	4.6%
Ductless Mini-Split Heat Pump[a]	9.5%	4.3%	6.1%	3.2%	7.0%	6.8%	8.3%	2.9%
Room Free-Standing Air Conditioner	1.9%	1.6%	3.0%	2.1%	6.9%	6.3%	2.9%	1.4%
Air Source Heat Pump	0.9%▼	1.1%	2.2%	1.6%	1.1%	1.9%	1.3%	0.8%
Ground Source Heat Pump	0.0%	0.0%	1.4%	1.2%	1.2%	1.9%	0.5%▼	0.4%
Mini-Split Air Conditioner	0.9%▼	1.1%	1.3%	1.2%	0.0%	0.0%	0.9%▼	0.7%
Ducted Mini-Split Heat Pump[a]	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Systems (n)	211	211	310	310	104	104	625	625

Note: This table includes primary and secondary cooling systems.
[a] Comparisons cannot be made with the corresponding table in the 2015 RSBS for ductless mini-split heat pump or ducted mini-split heat pump.

Source: On-site fields: ['Number of HVAC Systems', 'HVAC System Type', 'Climate Zone'].

TABLE 66. COOLING EQUIPMENT TYPE BY HOME VINTAGE (SITE)
COMPARE WITH TABLE 33, VOLUME 1, IN 2015 RSBS.

Cooling Equipment	Existing Homes		New Homes		Overall Statewide	
	%	EB	%	EB	%	EB
Room Window Air Conditioner	46.6%	5.4%	3.7%	5.9%	46.5%	5.4%
Central Air Conditioner	27.3%	4.0%	65.1%	9.4%	27.4%▼	4.0%
Room Sleeve Air Conditioner	12.3%	4.6%	0.0%	0.0%	12.2%	4.6%
Ductless Mini-Split Heat Pump[a]	8.3%	2.9%	14.3%	7.0%	8.3%	2.9%
Air Source Heat Pump	1.3%	0.8%	1.8%	2.1%	1.3%	0.8%
Ground Source Heat Pump	0.5%	0.4%	13.4%	6.1%	0.5%▼	0.4%
Mini-Split Air Conditioner	0.9%	0.7%	0.0%	0.0%	0.9%▼	0.7%
Room Free-Standing Air Conditioner	2.9%	1.4%	0.0%	0.0%	2.9%	1.4%
Ducted Mini-Split Heat Pump[a]	0.0%	0.0%	1.8%	2.9%	0.0%	0.0%
Systems (n)	530	530	95	95	625	625

Note: This table includes primary and secondary cooling systems.
[a] Comparisons cannot be made with the corresponding table in the 2015 RSBS for ductless mini-split heat pump or ducted mini-split heat pump .

Source: On-site fields: ['Number of HVAC Systems', 'HVAC System Type', 'Construction Type'].

TABLE 67. CENTRAL AIR CONDITIONER SEER RATING BY CLIMATE ZONE (SITE)

COMPARE WITH TABLE 34, VOLUME 1, IN 2015 RSBS.

SEER	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
8 to 8.9	0.0%	0.0%	1.9%	2.2%	12.1%	19.8%	1.2%▼	1.2%
10 to 10.9	16.7%	9.1%	25.6%	7.0%	12.1%	19.8%	20.0%	5.9%
11 to 11.9	0.0%	0.0%	3.8%	3.1%	12.1%	19.8%	2.0%	1.5%
12 to 12.9	14.6%	8.6%	5.7%	3.7%	12.1%	19.8%	11.0%	5.1%
13 to 13.9	27.1%	10.9%	42.4%▲	7.9%	25.9%	25.9%	33.1%	7.0%
14 to 14.9	20.8%	10.6%	11.0%	4.9%	24.5%	25.9%	17.1%	6.4%
15 to 15.9	12.5%	8.1%	3.0%	2.7%	1.0%	1.2%	8.3%	4.7%
16 to 16.9	6.3%	5.9%	6.7%	4.0%	0.3%	0.6%	6.2%	3.6%
17 to 17.9	2.1%	3.5%	0.0%	0.0%	0.0%	0.0%	1.2%	1.9%
18 to 18.9	0.0%	NA	0.0%	NA	0.0%	NA	0.0%	NA
Systems (n)	48	48	156	156	18	18	222	222

Note: Presents SEER for central air conditioner equipment only. Does not include SEER for heat pump equipment or other air conditioning units.

Source: On-site fields: ['Rated Cooling Efficiency', 'Number of HVAC Systems', 'Climate Zone'].

TABLE 68. NEW HOMES: CENTRAL AIR CONDITIONER SEER RATING BY CLIMATE ZONE (SITE)

THIS TABLE IS NEW WITH THE 2019 RBSA.

SEER	Climate Zone 4[a]		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
12 to 12.9	**0.0%**	**0.0%**	1.9%	3.2%	0.0%	0.0%	1.6%	2.6%
13 to 13.9	**12.5%**	**23.3%**	46.2%	11.7%	50.0%	29.6%	46.9%	10.7%
14 to 14.9	**87.5%**	**23.3%**	38.5%	11.4%	10.0%	17.8%	33.1%	10.0%
15 to 15.9	**0.0%**	**0.0%**	9.6%	6.9%	30.0%	27.2%	13.4%	7.5%
16 to 16.9	**0.0%**	**0.0%**	3.8%	4.5%	10.0%	17.8%	5.0%	4.8%
Systems (n)	8	8	52	52	10	10	62	62

Note: Presents SEER for central air conditioner equipment only. Does not include SEER for heat pump equipment or other air conditioning units. This table is new to the 2019 RBSA and its values cannot be compared with those of any 2015 RSBS table.

[a] *Shaded cells indicate results that cannot be considered representative because of the small sample size for new homes site visits in Climate Zone 4.*

Source: On-site fields: ['Rated Cooling Efficiency', 'Number of HVAC Systems', 'Climate Zone'].

TABLE 69. CENTRAL AIR CONDITIONER SEER RATING BY HOME VINTAGE (SITE)

COMPARE WITH TABLE 35, VOLUME 1, IN 2015 RSBS.

SEER	Existing Homes		New Homes		Overall Statewide	
	%	EB	%	EB	%	EB
8 to 8.9	1.2%▼	1.2%	0.0%	0.0%	1.2%▼	1.2%
10 to 10.9	20.2%	5.9%	0.0%	0.0%	20.0%	5.9%
11 to 11.9	2.0%	1.5%	0.0%	0.0%	2.0%	1.5%
12 to 12.9	11.0%	5.1%	1.6%	2.6%	11.0%	5.1%
13 to 13.9	33.0%	7.0%	46.9%▼	10.6%	33.1%	7.0%
14 to 14.9	17.0%	6.4%	33.1%▲	10.0%	17.1%	6.4%
15 to 15.9	8.3%	4.7%	13.4%▲	7.4%	8.3%	4.7%
16 to 16.9	6.2%	3.7%	5.0%	4.7%	6.2%	3.6%
17 to 17.9	1.2%	2.0%	0.0%	0.0%	1.2%	1.9%
18 to 18.9	0.0%	NA	0.0%	NA	0.0%	NA
Systems (n)	160	160	62	62	222	222

Note: Presents SEER for central air conditioner equipment only. Does not include SEER for heat pump equipment or other air conditioning units.

Source: On-site fields: ['Rated Cooling Efficiency', 'Number of HVAC Systems', 'Construction Type'].

TABLE 70. CENTRAL AIR CONDITIONER SEER RATING BY EQUIPMENT AGE (SITE)

THIS TABLE IS NEW WITH THE 2019 RBSA.

SEER	Manufactured 2007 or Later		Manufactured before 2007		Overall Statewide	
	%	EB	%	EB	%	EB
8 to 8.9	0.0%	0.0%	2.4%	2.3%	1.2%	1.2%
10 to 10.9	0.0%	0.0%	39.8%	10.2%	20.2%	5.9%
11 to 11.9	0.0%	0.0%	3.9%	2.9%	2.0%	1.5%
12 to 12.9	0.8%	1.3%	21.0%	9.4%	11.0%	5.1%
13 to 13.9	48.0%	11.3%	18.4%	8.5%	33.0%	7.0%
14 to 14.9	22.7%	11.0%	11.4%	6.3%	17.0%	6.4%
15 to 15.9	14.3%	8.5%	2.3%	3.8%	8.3%	4.7%
16 to 16.9	11.8%	7.2%	0.7%	1.2%	6.2%	3.7%
17 to 17.9	2.4%	4.0%	0.0%	0.0%	1.2%	2.0%
Respondents (n)	71	71	76	76	147	147

Note: This table is new to the 2019 RBSA and its values cannot be compared with those of any 2015 RSBS table.

Source: On-site fields: ['Rated Cooling Efficiency', 'HVAC System Year Manufactured', 'Number of HVAC Systems'].

TABLE 71. ROOM OR WINDOW AIR CONDITIONER EER RATING BY HOME VINTAGE (SITE)

COMPARE WITH TABLE 36, VOLUME 1, IN 2015 RSBS.

EER	Existing Homes		New Homes		Overall Statewide	
	%	EB	%	EB	%	EB
Below 7	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
7 to 7.9	0.9%	1.5%	0.0%	0.0%	0.9%	1.5%
8 to 8.9	9.0%	9.7%	0.0%	0.0%	9.0%	9.7%
9 to 9.9	42.7%	10.9%	0.0%	0.0%	42.7%	10.9%
10 to 10.9	28.8%	8.4%	0.0%	0.0%	28.8%	8.4%
11 to 11.9	13.0%▲	5.9%	0.0%	0.0%	13.0%▲	5.9%
12 to 12.9	5.6%	3.2%	100.0%	0.0%	5.6%	3.2%
Systems (n)	182	182	2	2	184	184

Source: On-site fields: ['Rated Cooling Efficiency', 'Number of Window Units', 'Construction Type'].

TABLE 72. AVERAGE NUMBER OF ROOM OR WINDOW AIR CONDITIONERS BY CLIMATE ZONE (SURVEY)

COMPARE WITH TABLE 48, VOLUME 5, IN 2015 RSBS.

Air Conditioners	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	Mean	EB	Mean	EB	Mean	EB	Mean	EB
Mean	3.3▲	0.2	2.0	0.1	2.1▲	0.1	2.7▲	0.1
Respondents (n)	244	244	363	363	274	274	881	881

Note: This represents the average number of units only for respondents who reported using room or window air conditioners.

Source: Survey fields: ['Number of Window Units', 'Climate Zone'].

TABLE 73. AVERAGE NUMBER OF ROOM OR WINDOW AIR CONDITIONERS BY HOME VINTAGE (SURVEY)

COMPARE WITH TABLE 49, VOLUME 5, IN 2015 RSBS.

Air Conditioners	Existing Homes		New Homes		Overall Statewide	
	Mean	EB	Mean	EB	Mean	EB
Mean	2.7▲	0.1	1.7	0.2	2.7▲	0.1
Respondents (n)	796	796	85	85	881	881

Note: This represents the average number of units only for respondents who reported using room or window air conditioners.

Source: Survey fields: ['Number of Window Units', 'Construction Type'].

TABLE 74. ROOM OR WINDOW AIR CONDITIONER ENERGY EFFICIENCY RATIO BY CLIMATE ZONE (SITE)

COMPARE WITH TABLE 170, VOLUME 5, IN 2015 RSBS.

EER	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
7 to 7.9	1.4%	2.3%	0.0%	0.0%	0.0%	0.0%	0.9%	1.5%
8 to 8.9	10.8%	14.5%	7.4%	6.1%	3.7%	4.4%	9.0%	9.7%
9 to 9.9	39.2%	16.0%	35.2%	12.8%	61.0%	14.1%	42.7%	10.9%
10 to 10.9	31.1%	12.3%	40.7%	13.8%	11.1%▼	7.5%	28.8%	8.4%
11 to 11.9	14.9%▲	8.7%	7.4%	6.1%	11.1%	8.4%	13.0%▲	5.9%
12 to 12.9	2.7%	3.2%	9.3%	6.8%	13.1%	10.4%	5.6%▲	3.2%
Systems (n)	74	74	54	54	56	56	184	184

Source: On-site fields: ['Rated Cooling Efficiency', 'Number of HVAC Systems', 'Climate Zone'].

TABLE 75. ANNUAL AIR CONDITIONER TUNE-UP BY CLIMATE ZONE (SURVEY)
COMPARE WITH TABLE 37, VOLUME 1, IN 2015 RSBS.

Annual Tune-Up	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Yes, by an Air Conditioning Contractor	54.7%	5.2%	42.8%	3.6%	42.4%	8.3%	48.6%	3.1%
No	38.2%	5.1%	49.5%	3.6%	46.9%	8.4%	43.8%	3.0%
Yes, by Landlord	0.0%	0.0%	0.2%▼	0.3%	0.0%	0.0%	0.1%▼	0.1%
Yes, by Someone in the Household	7.1%	2.7%	7.5%▼	1.9%	10.7%	5.2%	7.5%▼	1.6%
Respondents (n)	276	276	853	853	147	147	1,276	1,276

Source: Survey fields: ['Annual Tune Up Air Conditioning', 'Climate Zone'].

TABLE 76. COOLING SYSTEM YEAR LAST SERVICED BY CLIMATE ZONE (SITE)
COMPARE WITH TABLE 166, VOLUME 5, IN 2015 RSBS.

Last Serviced	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
1980 to 1989	0.0%	0.0%	0.7%	1.1%	0.0%	0.0%	0.2%▼	0.3%
1990 to 1999	0.0%	0.0%	0.0%	0.0%	6.8%	6.5%	0.8%▼	0.7%
2000 to 2009	16.5%	12.1%	8.3%▼	3.8%	6.8%▼	6.5%	12.9%	7.4%
2009 to 2014	7.7%▼	5.3%	14.5%▼	4.8%	38.4%▼	16.5%	13.1%▼	4.2%
2015[a]	3.3%	3.1%	7.0%	3.5%	9.2%	7.4%	5.1%	2.3%
2016[a]	14.3%	6.4%	10.5%	4.2%	16.1%	12.4%	13.4%	4.2%
2017[a]	41.8%	10.5%	34.6%	6.6%	6.9%	6.5%	35.7%	6.5%
2018[a]	16.5%	6.8%	24.5%	6.1%	15.8%	9.7%	18.8%	4.6%
Systems (n)	91	91	194	194	53	53	338	338

[a] *Comparisons cannot be made with the corresponding table in the 2015 RSBS for years 2015 through 2018.*

Source: On-site fields: ['When was HVAC System Last Serviced?', 'Number of HVAC Systems', 'Climate Zone'].

TABLE 77. COOLING SYSTEM YEAR LAST SERVICED BY HOME VINTAGE (SITE)

COMPARE WITH TABLE 167, VOLUME 5, IN 2015 RSBS.

Last Serviced	Existing Homes		New Homes		Overall Statewide	
	%	EB	%	EB	%	EB
1980 to 1989	0.2%▼	0.3%	0.0%	0.0%	0.2%▼	0.3%
1990 to 1999	0.8%▼	0.7%	0.0%	0.0%	0.8%▼	0.7%
2000 to 2009	13.0%	7.4%	0.0%	0.0%	12.9%	7.4%
2009 to 2014	13.2%▼	4.2%	1.6%▼	2.7%	13.1%▼	4.2%
2015[a]	5.0%	2.3%	15.5%	8.0%	5.1%	2.3%
2016[a]	13.3%	4.2%	24.7%	10.2%	13.4%	4.2%
2017[a]	35.8%	6.5%	25.3%	9.6%	35.7%	6.5%
2018[a]	18.8%	4.6%	32.9%	10.3%	18.8%	4.6%
Systems (n)	279	279	59	59	338	338

[a] *Comparisons cannot be made with the corresponding table in the 2015 RSBS for years 2015 through 2018.*

Source: On-site fields: ['When was HVAC System Last Serviced?', 'Number of HVAC Systems', 'Construction Type'].

TABLE 78. COOLING SYSTEM YEAR LAST SERVICED BY YEAR OF MANUFACTURER (SITE) COMPARE WITH TABLE 168, VOLUME 5, IN 2015 RSBS.

Last Serviced	Less than 2 Years Old		2 to 4 Years Old		5 to 9 Years Old		10 to 14 Years Old		15 to 19 Years Old		20+ Years Old		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB	%	EB	%	EB	%	EB
1989	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.3%	2.2%	0.2%	0.3%
1993	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.6%	2.6%	0.3%	0.4%
1995	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.6%▼	2.6%	0.3%▼	0.4%
1999	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.6%	2.6%	0.3%	0.4%
2000	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	34.2%	34.4%	1.3%	2.2%	5.4%	7.1%
2001	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.4%	2.4%	0.0%	0.0%	0.2%	0.3%
2002	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.6%	7.8%	0.0%	0.0%	0.9%	1.1%
2003	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.4%	2.4%	0.0%	0.0%	0.2%	0.3%
2005	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.4%	6.1%	0.0%	0.0%	0.0%	0.0%	1.3%▼	1.2%
2006	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.1%	2.5%	0.0%	0.0%	0.0%	0.0%	0.4%▼	0.5%
2007	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.5%	5.7%	0.0%	0.0%	0.0%	0.0%	0.9%	1.1%
2008	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	15.4%	12.2%	0.0%	0.0%	0.0%	0.0%	3.0%	2.6%
2009	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.0%	6.6%	0.6%▼	1.1%
2010	0.0%	0.0%	0.0%	0.0%	10.3%	6.6%	1.0%	1.8%	1.4%▼	2.4%	10.6%	9.5%	5.3%	2.7%
2011	0.0%	0.0%	0.0%	0.0%	4.4%	4.4%	1.0%	1.8%	0.0%	0.0%	0.0%	0.0%	1.6%▼	1.4%
2012	0.0%	0.0%	0.0%	0.0%	3.4%▼	3.7%	0.0%	0.0%	0.0%	0.0%	1.3%▼	2.2%	1.3%▼	1.2%
2013	0.0%	0.0%	0.0%	0.0%	4.7%▼	4.5%	1.0%▼	1.8%	0.0%	0.0%	2.6%▼	3.1%	2.1%▼	1.5%
2014	0.0%	0.0%	11.0%	16.7%	3.1%	3.2%	0.0%	0.0%	1.4%	2.4%	2.6%	3.1%	2.9%	2.4%
2015[a]	0.0%	0.0%	12.1%	8.3%	1.3%	1.6%	8.6%	7.8%	2.7%	3.5%	6.9%	7.3%	5.1%	2.3%
2016[a]	3.5%	5.8%	39.2%	17.6%	11.7%	7.0%	11.9%	9.2%	6.8%	6.1%	9.3%	9.3%	13.4%	4.2%
2017[a]	44.6%	19.3%	25.6%	15.5%	40.5%	12.0%	28.8%	11.9%	36.9%	23.1%	38.1%	14.9%	35.7%	6.5%
2018[a]	51.9%	19.4%	12.0%	8.8%	20.5%	8.7%	19.3%	10.7%	8.3%	8.9%	17.5%	11.4%	18.8%	4.6%
Systems (n)	37	37	74	74	87	87	53	53	39	39	48	48	338	338

[a] *Comparisons cannot be made with the corresponding table in the 2015 RSBS for years 2015 through 2018.*

Source: On-site fields: ['When was HVAC System Last Serviced?', 'HVAC System Year Manufactured', 'Number of HVAC Systems'].

TABLE 79. COOLING SYSTEM YEAR LAST SERVICED BY SYSTEM TYPE (SITE)

COMPARE WITH TABLE 169, VOLUME 5, IN 2015 RSBS.

Year	Central AC		Room Window AC		Ductless Mini-Split Heat Pump		Room Sleeve AC		Ground Source Heat Pump		Air Source Heat Pump		Room Free-Standing AC		Mini-Split AC		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB	%	EB	%	EB	%	EB	%	EB	%	EB
1980 to 1989	0.5%	0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	8.4%	17.7%	0.0%	0.0%	0.0%	0.0%	0.4%	0.4%
1990 to 1999	0.0%	0.0%	1.6%	1.9%	0.0%	0.0%	3.5%	6.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.8%	0.8%
2000 to 2009	6.2%	4.0%	19.4%	14.6%	8.5%	10.0%	18.4%	21.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	11.6%	6.0%
2009 to 2014	15.1%	6.2%	16.9%	8.1%	0.0%	0.0%	6.1%	10.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	12.3%	3.8%
2015[a]	7.6%	4.2%	3.5%	2.7%	0.2%	0.2%	2.3%	4.1%	2.3%	3.7%	0.0%	0.0%	0.0%	0.0%	11.9%	0.0%	4.6%	2.0%
2016[a]	10.8%	4.8%	17.4%	8.0%	0.0%	0.0%	6.1%	10.7%	1.5%	2.4%	0.2%	0.5%	32.8%	51.1%	0.0%	0.0%	11.4%	3.5%
2017[a]	29.4%	7.0%	31.0%	10.5%	39.7%	20.5%	57.5%	24.9%	33.1%	45.2%	47.6%	41.7%	53.1%	58.2%	88.1%	0.0%	35.3%	5.8%
2018[a]	30.3%	7.3%	10.1%	5.1%	51.6%	20.8%	6.1%	10.7%	63.2%	45.4%	43.8%	41.9%	14.2%	38.9%	0.0%	0.0%	23.6%	4.9%
Systems (n)	197	197	110	110	43	43	18	18	15	15	10	10	8	8	5	5	406	406

[a] *Comparisons cannot be made with the corresponding table in the 2015 RSBS because of apparent misalignment of values in the 2015 table.*

Source: On-site fields: ['When was HVAC System Last Serviced?', 'Number of HVAC Systems', 'HVAC System Type'].

TABLE 80. AIR FILTER CONDITION BY COOLING SYSTEM TYPE (SITE)

COMPARE WITH TABLE 171, VOLUME 5, IN 2015 RSBS.

Condition	Central AC		Room Window AC		Room Sleeve AC		Ground Source Heat Pump		Ductless Mini-Split Heat Pump[a]		Room Free-Standing AC		Air Source Heat Pump		Mini-Split AC		Overall Statewide[a]	
	%	EB	%	EB	%	EB	%	EB	%	EB	%	EB	%	EB	%	EB	%	EB
Fair	22.7%	7.5%	42.9%▲	9.5%	23.4%	15.2%	0.6%	1.3%	0.5%	0.9%	37.3%	34.8%	0.0%	0.0%	73.0%	0.0%	31.7%	5.6%
Good	70.4%	8.0%	45.0%	9.3%	72.2%▲	16.4%	99.4%	1.3%	99.5%	0.9%	62.7%	34.8%	100.0%	0.0%	27.0%	0.0%	60.0%	6.0%
Poor	6.9%	4.4%	12.1%	8.8%	4.4%▼	7.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	8.4%	4.4%
Systems (n)	187	187	137	137	25	25	15	15	11	11	11	11	7	7	2	2	395	395

[a] *Comparisons cannot be made with the corresponding table in the 2015 RSBS for Ductless Mini-Split and Overall Statewide values.*

Source: On-site fields: ['Number of HVAC Systems', 'Condition of HVAC Air Filter', 'HVAC System Type'].

TABLE 81. AIR FILTER CONDITION BY COOLING SYSTEM AGE (SITE)

COMPARE WITH TABLE 172, VOLUME 5, IN 2015 RSBS.

Condition	Less than 2 Years Old		2 to 4 Years Old		5 to 9 Years Old		10 to 14 Years Old		15 to 19 Years Old		20 or More Years Old		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB	%	EB	%	EB	%	EB
Fair	25.1%	16.4%	34.5%	16.7%	29.3%	10.2%	28.8%	11.2%	29.2%	16.0%	38.5%	14.8%	30.8%	5.5%
Good	74.9%	16.4%	62.9%	16.8%	68.6%	10.2%	54.8%	12.6%	68.8%	16.0%	53.5%	14.5%	63.5%	5.7%
Poor	0.0%	0.0%	2.6%	4.2%	2.0%▼	2.0%	16.3%	9.8%	2.0%	3.3%	8.0%	5.6%	5.6%▼	2.4%
Systems (n)	45	45	88	88	102	102	57	57	34	34	47	47	373	373

Source: On-site fields: ['HVAC System Year Manufactured', 'Number of HVAC Systems', 'Condition of HVAC Air Filter'].

TABLE 82. COOLING SYSTEM CONDITION BY CLIMATE ZONE (SITE)
COMPARE WITH TABLE 173, VOLUME 5, IN 2015 RSBS.

Condition	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Well-Maintained	81.3%	6.8%	82.3%	4.5%	84.8%	8.0%	82.1%	4.3%
Not Well-Maintained	15.8%	5.5%	16.2%	4.4%	15.2%	8.0%	15.8%	3.6%
Disrepair	2.9%	4.7%	1.4%	1.4%	0.0%	0.0%	2.1%	2.8%
Systems (n)	171	171	286	286	102	102	559	559

Source: On-site fields: ['Number of HVAC Systems', 'Visual Condition of HVAC System', 'Climate Zone'].

TABLE 83. COOLING SYSTEM CONDITION BY HOME VINTAGE (SITE)
COMPARE WITH TABLE 174, VOLUME 5, IN 2015 RSBS.

Condition	Existing Homes		New Homes		Overall Statewide	
	%	EB	%	EB	%	EB
Well-Maintained	82.1%	4.3%	96.4%	3.6%	82.1%	4.3%
Not Well-Maintained	15.9%	3.6%	3.6%	3.6%	15.8%	3.6%
Disrepair	2.1%	2.8%	0.0%	0.0%	2.1%	2.8%
Systems (n)	464	464	95	95	559	559

Source: On-site fields: ['Number of HVAC Systems', 'Visual Condition of HVAC System', 'Construction Type'].

TABLE 84. COOLING SYSTEM CONDITION BY SYSTEM TYPE (SITE)

COMPARE WITH TABLE 175, VOLUME 5, IN 2015 RSBS.

Condition	Central AC		Room Window AC		Ductless Mini-Split Heat Pump[a]		Room Sleeve AC		Room Free-Standing AC		Ground Source Heat Pump		Air Source Heat Pump		Mini-Split AC		Ducted Mini-Split Heat Pump[a]		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB	%	EB	%	EB	%	EB	%	EB	%	EB	%	EB
Well-Maintained	84.8%	5.1%	79.4%	8.2%	87.5%	10.7%	78.3%	14.7%	86.3%	18.0%	99.5%	1.0%	91.6%	17.7%	67.8%	0.0%	100.0%	0.0%	82.1%	4.3%
Not Well-Maintained	15.2%	5.1%	15.8%	6.2%	12.5%	10.7%	21.7%	14.7%	13.7%	18.0%	0.5%	1.0%	8.4%	17.7%	32.2%	0.0%	0.0%	0.0%	15.8%	3.6%
Disrepair	0.0%	0.0%	4.9%	6.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.1%	2.8%
Systems (n)	230	230	194	194	50	50	34	34	17	17	17	17	10	10	5	5	2	2	559	559

[a] *Comparisons cannot be made with the corresponding table in the 2015 RSBS for Ductless Mini-Split Heat Pump and Ducted Mini-Split Heat Pump values.*

Source: On-site fields: ['Number of HVAC Systems', 'Visual Condition of HVAC System', 'HVAC System Type'].

TABLE 85. COOLING SYSTEM CONDITION BY SYSTEM AGE (SITE)

COMPARE WITH TABLE 176, VOLUME 5, IN 2015 RSBS.

Condition	Less than 2 Years Old		2 to 4 Years Old		5 to 9 Years Old		10 to 14 Years Old		15 to 19 Years Old		20 or More Years Old		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB	%	EB	%	EB	%	EB
Well-Maintained	98.4%	2.7%	93.8%	6.2%	89.7%	4.8%	82.4%	8.3%	80.3%	12.5%	66.0%	13.1%	85.2%▲	3.4%
Not Well-Maintained	1.6%	2.7%	6.2%	6.2%	9.9%	4.7%	17.6%	8.3%	19.7%	12.5%	32.0%	12.9%	14.4%▼	3.3%
Disrepair	0.0%	0.0%	0.0%	0.0%	0.4%	0.6%	0.0%	0.0%	0.0%	0.0%	2.0%	2.5%	0.4%	0.4%
Systems (n)	62	62	120	120	150	150	91	91	51	51	61	61	535	535

Source: On-site fields: ['HVAC System Year Manufactured', 'Number of HVAC Systems', 'Visual Condition of HVAC System'].

TABLE 86. SYSTEM TYPE SERVED BY DUCTING BY CLIMATE ZONE (SITE)

COMPARE WITH TABLE 177, VOLUME 5, IN 2015 RSBS.

System Served	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Heating/Cooling	42.1%	13.5%	66.8%▲	6.1%	29.7%	13.6%	53.2%	6.2%
Heating	7.9%	7.4%	26.4%▼	5.7%	67.1%	14.0%	24.4%▼	4.8%
Cooling	50.0%	13.7%	6.8%	3.3%	3.2%	5.3%	22.4%	6.1%
Respondents (n)	38	38	222	222	45	45	305	305

Source: On-site fields: ['System Type Served by Ducting', 'Climate Zone'].

TABLE 87. PERCENTAGE OF DUCT DISTRIBUTION IN UNCONDITIONED SPACE BY CLIMATE ZONE (SITE)

COMPARE WITH TABLE 179, VOLUME 5, IN 2015 RSBS.

Percentage in Unconditioned Space	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
0	23.5%	12.3%	36.2%	6.3%	26.1%	13.1%	30.5%	5.6%
10	11.8%	9.4%	6.9%	3.3%	6.5%	7.3%	8.6%	3.8%
20	5.9%	6.8%	3.2%	2.3%	0.0%	0.0%	3.7%	2.6%
30	0.0%	0.0%	3.8%	2.5%	0.0%	0.0%	2.0%	1.3%
40	2.9%	4.9%	3.8%	2.5%	0.0%	0.0%	3.0%	2.1%
50	5.9%	6.8%	5.0%	2.9%	0.1%▼	0.2%	4.7%	2.8%
60	5.9%	6.8%	2.5%	2.0%	0.0%	0.0%	3.4%	2.6%
70	0.0%	0.0%	3.2%▼	2.3%	0.0%	0.0%	1.7%▼	1.2%
80	11.8%	9.4%	5.0%▼	2.9%	6.6%	7.3%	7.6%	3.7%
90	2.9%	4.9%	3.8%	2.5%	6.4%	7.3%	3.8%	2.3%
100	29.4%	13.3%	26.4%	5.8%	54.4%▲	14.9%	31.0%▲	5.8%
Mean	51.5%	12.2%	44.2%	5.6%	66.2%	13.6%	51.0%	6.3%
Respondents (n)	34	34	219	219	45	45	298	298

Source: On-site fields: ['Percentage Ducting in Unconditioned Space', 'Climate Zone'].

TABLE 88. PERCENTAGE OF DUCT DISTRIBUTION IN UNCONDITIONED SPACE INSULATED BY CLIMATE ZONE (SITE)

COMPARE WITH TABLE 180, VOLUME 5, IN 2015 RSBS.

Percentage in Unconditioned Space	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
0	38.2%	14.1%	79.7%	5.2%	80.6%	11.8%	60.1%	7.8%
10	2.9%	4.9%	0.6%	1.0%	0.0%	0.0%	1.6%	2.3%
20	0.0%	0.0%	1.9%	1.8%	0.0%	0.0%	0.7%	0.7%
30	2.9%	4.9%	0.7%	1.0%	6.4%	7.4%	2.6%	2.6%
40	0.0%	0.0%	0.6%	1.0%	0.0%	0.0%	0.2%	0.4%
50	5.9%	6.8%	1.3%▼	1.5%	9.6%	8.9%	4.7%	3.5%
60	0.0%	0.0%	0.6%	1.0%	0.0%	0.0%	0.2%	0.4%
70	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
80	5.9%	6.8%	0.6%	1.0%	0.0%	0.0%	3.0%	3.2%
90	8.8%	8.3%	3.8%	2.5%	0.0%	0.0%	5.6%	4.0%
100	35.3%	13.9%	10.2%	3.9%	3.4%▼	5.3%	21.1%	7.0%
Mean	52.1%	13.5%	16.0%	4.5%	10.1%	6.9%	32.2%	7.1%
Respondents (n)	34	34	219	219	45	45	298	298

Source: On-site fields: ['Percentage Ducting Insulated in Unconditioned Space', 'Climate Zone'].

TABLE 89. DUCT INSULATION TYPE IN UNCONDITIONED SPACE BY CLIMATE ZONE (SITE)

COMPARE WITH TABLE 181, VOLUME 5, IN 2015 RSBS.

Insulation Type	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
None	16.0%	12.6%	72.9%	7.3%	73.8%	15.5%	51.5%▼	7.8%
Fiberglass Wrap	84.0%▲	12.6%	25.0%▲	7.1%	21.8%	14.5%	46.8%▲	7.9%
Bubble Wrap	0.0%	0.0%	2.0%	2.3%	4.3%	7.2%	1.6%	1.5%
Various	0.0%	0.0%	0.2%	0.1%	0.1%	0.2%	0.1%▼	0.1%
Respondents (n)	25	25	133	133	30	30	188	188

Source: On-site fields: ['HVAC Duct Insulation Type', 'Garage Finished Interior?', 'Climate Zone'].

TABLE 90. DUCT TYPE IN UNCONDITIONED SPACE BY CLIMATE ZONE (SITE)

COMPARE WITH TABLE 182, VOLUME 5, IN 2015 RSBS.

Duct Type	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Metal	26.9%▼	14.9%	59.1%▼	8.0%	56.2%	17.5%	46.3%▼	7.6%
Mixed[a]	38.5%	16.4%	34.0%	7.7%	39.4%	17.2%	36.4%	7.5%
Flexible	34.6%	16.0%	5.0%▼	3.6%	4.4%	7.2%	16.3%	6.7%
Duct Board	0.0%	0.0%	2.0%	2.3%	0.0%	0.0%	0.9%	1.1%
Respondents (n)	26	26	134	134	30	30	190	190

[a] *Comparisons cannot be made with the corresponding table in the 2015 RSBS for mixed duct type values.*

Source: On-site fields: ['HVAC Duct Type', 'Garage Finished Interior?', 'Climate Zone'].

TABLE 91. AVERAGE VENTILATION EQUIPMENT BY CLIMATE ZONE (SURVEY)
COMPARE WITH TABLE 50, VOLUME 5, IN 2015 RSBS.

Ventilation Equipment	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	Mean	EB	Mean	EB	Mean	EB	Mean	EB
Ceiling Fans	2.3▲	0.1	2.1▲	0.1	2.3▲	0.2	2.2▲	0.1
Kitchen Exhaust Fans	0.8	0.0	0.7	0.0	0.7	0.0	0.7	0.0
Bathroom Exhaust Fans	1.3▲	0.1	1.5▲	0.1	1.4▲	0.1	1.4▲	0.0
Attic Fans	0.3▲	0.0	0.1	0.0	0.0▼	0.0	0.2	0.0
Whole-House Fans	0.1	0.0	0.1▼	0.0	0.0▲	0.0	0.1▼	0.0
Respondents (n)	508	508	1,205	1,205	481	481	2,194	2,194

Source: Survey fields: ['Number of Ceiling Fans', 'Number of Exhaust Fans Kitchen', ‘Number of Exhaust Fans’, 'Number of Attic Fans', 'Number of Whole House Fans', 'Climate Zone'].

TABLE 92. AVERAGE VENTILATION EQUIPMENT BY HOME VINTAGE (SURVEY)
COMPARE WITH TABLE 51, VOLUME 5, IN 2015 RSBS.

Ventilation Equipment	Existing Homes		New Homes		Overall Statewide	
	Mean	EB	Mean	EB	Mean	EB
Ceiling Fans	2.2▲	0.1	2.1▼	0.2	2.2▲	0.1
Kitchen Exhaust Fans	0.7	0.0	0.9	0.0	0.7	0.0
Bathroom Exhaust Fans	1.4▲	0.1	2.4	0.2	1.4▲	0.0
Attic Fans	0.2	0.0	0.1	0.0	0.2	0.0
Whole-House Fans	0.1▼	0.0	0.1	0.0	0.1▼	0.0
Respondents (n)	1,676	1,676	518	518	2,194	2,194

Source: Survey fields: ['Number of Ceiling Fans', 'Number of Exhaust Fans Kitchen', ‘Number of Exhaust Fans’, 'Number of Attic Fans', 'Number of Whole House Fans', 'Construction Type'].

TABLE 93. FAN TYPE BY CLIMATE ZONE (SITE)

COMPARE WITH TABLE 221, VOLUME 5, IN 2015 RSBS.

Fan Type	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Ceiling	70.4%	8.6%	64.2%	5.4%	68.0%	9.7%	67.7%	4.9%
Plug In	29.6%	8.6%	35.8%	5.4%	32.0%	9.7%	32.3%	4.9%
Fans (n)	243	243	758	758	232	232	1,233	1,233

Source: On-site fields: ['Type/Style of Appliance', 'Number of Appliance Units', 'Climate Zone'].

TABLE 94. FAN USAGE BY CLIMATE ZONE (SITE)

COMPARE WITH TABLE 222, VOLUME 5, IN 2015 RSBS.

Fan Usage	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Rarely/Never Used	28.3%▲	10.2%	41.2%▲	6.4%	41.2%▲	11.7%	35.3%▲	5.7%
Seasonal	60.9%▼	11.3%	43.2%▼	6.5%	48.1%▼	12.1%	52.0%▼	6.1%
Year Round	10.9%	7.5%	15.5%	5.1%	10.7%▼	5.6%	12.7%	4.0%
Fans (n)	184	184	647	647	205	205	1,036	1,036

Source: On-site fields: ['Fan Usage', 'Number of Appliance Units', 'Climate Zone'].

TABLE 95. SMART THERMOSTAT PRESENCE AND USE BY CLIMATE ZONE (SURVEY)

THIS TABLE IS NEW WITH THE 2019 RBSA.

Smart Thermostat		Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
		%	EB	%	EB	%	EB	%	EB
Have a Smart Thermostat	Yes	14.4%	2.6%	10.2%	1.7%	4.4%	1.8%	11.5%	1.5%
	No	85.6%	2.6%	89.8%	1.7%	95.6%	1.8%	88.5%	1.5%
	Respondents (n)	520	520	1,250	1,250	429	429	2,199	2,199
Use of Smart Thermostat	Programmed to Change Temperature Automatically	63.2%	9.5%	45.6%	8.8%	36.6%	21.1%	56.0%	6.7%
	Both	24.7%	8.5%	31.9%	8.3%	42.1%	21.8%	28.0%	6.0%
	Manually Change the Temperature	12.1%	6.3%	22.5%	7.4%	21.3%	18.1%	16.0%	4.7%
	Respondents (n)	84	84	178	178	30	30	292	292

Note: This table reports the existence of smart thermostats for primary central heating and/or cooling systems, as well as the thermostat usage for participants with smart thermostats. Results cannot be compared with 2015 RSBS results, which did not report on smart thermostats.

Source: Survey fields: ['Thermostat Type', 'Programmed Thermostat Setting', 'Climate Zone'].

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TABLE 96. SMART THERMOSTAT PRESENCE AND USE BY HOME VINTAGE (SURVEY)

THIS TABLE IS NEW WITH THE 2019 RBSA.

Smart Thermostat		Existing Homes		New Homes		Overall Statewide	
		%	EB	%	EB	%	EB
Have a Smart Thermostat	Yes	11.4%	1.5%	27.6%	5.0%	11.5%	1.5%
	No	88.6%	1.5%	72.4%	5.0%	88.5%	1.5%
	Respondents (n)	1,651	1,651	548	548	2,199	2,199
Use of Smart Thermostat	Programmed to Change Temperature Automatically	56.2%	6.8%	43.8%	10.8%	56.0%	6.7%
	Both	28.0%	6.1%	24.1%	9.8%	28.0%	6.0%
	Manually Change the Temperature	15.7%	4.8%	32.1%	11.4%	16.0%	4.7%
	Respondents (n)	167	167	125	125	292	292

Note: This table reports the existence of smart thermostat for primary central heating and/or cooling systems, as well as thermostat usage for participants with smart thermostats. Results cannot be compared with 2015 RSBS results, which did not report on smart thermostats.

Source: Survey fields: ['Thermostat Type', 'Programmed Thermostat Setting', 'Construction Type'].

TABLE 97. SMART THERMOSTAT PRESENCE AND USE BY SYSTEM FUEL TYPE (SURVEY)

THIS TABLE IS NEW WITH THE 2019 RBSA.

Smart Thermostat		Electricity		Natural Gas		Oil		Other		Propane		Overall Statewide	
		%	EB	%	EB	%	EB	%	EB	%	EB	%	EB
Have a Smart Thermostat	Yes	13.8%	6.2%	13.1%	1.9%	7.0%	2.9%	0.2%	0.2%	6.0%	3.9%	11.4%	1.5%
	No	86.2%	6.2%	86.9%	1.9%	93.0%	2.9%	99.8%	0.2%	94.0%	3.9%	88.6%	1.5%
	Respondents (n)	167	167	1,449	1,449	297	297	43	43	221	221	2,177	2,177
Use of Smart Thermostat	Programmed to Change Temperature Automatically	36.8%	24.1%	55.3%	7.6%	64.2%	22.0%	75.0%	0.0%	79.2%	28.7%	55.7%	6.8%
	Both	26.1%	22.7%	28.3%	6.8%	29.0%	21.5%	0.0%	0.0%	19.1%	28.7%	28.1%	6.1%
	Manually Change the Temperature	37.1%	24.0%	16.4%	5.5%	6.8%	8.1%	25.0%	0.0%	1.8%	2.0%	16.3%	4.8%
	Respondents (n)	29	29	212	212	18	18	4	4	25	25	288	288

Note: This table reports the existence of smart thermostat for primary central heating and/or cooling systems, as well as thermostat usage for participants with smart thermostats. Results cannot be compared with 2015 RSBS results, which did not report on smart thermostats.

Source: Survey fields: ['Thermostat Type', 'Primary Fuel Type', 'Programmed Thermostat Setting', 'Climate Zone'].

TABLE 98. PROGRAMMABLE THERMOSTAT PRESENCE AND USE BY CLIMATE ZONE (SURVEY)

COMPARE WITH TABLE 52, VOLUME 5, IN 2015 RSBS.

Programmable Thermostat		Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
		%	EB	%	EB	%	EB	%	EB
Have a Programmable Thermostat	Yes	80.8%▲	2.9%	77.3%▲	2.4%	60.1%	4.4%	76.7%▲	1.8%
	No	19.2%▼	2.9%	22.7%▼	2.4%	39.9%	4.4%	23.3%▼	1.8%
	Respondents (n)	520	520	1,250	1,250	429	429	2,199	2,199
Use of Programmable Thermostat	Programmed to Change Temperature Automatically	62.7%▲	4.0%	54.1%▲	3.2%	53.4%▲	5.9%	58.5%▲	2.5%
	Manually Change the Temperature	21.9%	3.5%	29.5%▼	2.9%	31.1%▼	5.4%	25.7%▼	2.2%
	Both	15.4%	3.0%	16.4%	2.4%	15.5%	4.3%	15.8%	1.8%
	Respondents (n)	417	417	1,011	1,011	272	272	1,700	1,700

Note: This table reports thermostat type for primary central heating and/or cooling systems, as well as thermostat usage for participants with programmable thermostats. For this table, programmable thermostats include smart thermostats.

Source: Survey fields: ['Thermostat Type', 'Programmed Thermostat Setting', 'Climate Zone'].

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TABLE 99. PROGRAMMABLE THERMOSTAT PRESENCE AND USE BY HOME VINTAGE (SURVEY)
COMPARE WITH TABLE 53, VOLUME 5, IN 2015 RSBS.

Programmable Thermostat		Existing Homes		New Homes		Overall Statewide	
		%	EB	%	EB	%	EB
Have a Programmable Thermostat	Yes	76.6%▲	1.8%	87.6%	3.5%	76.7%▲	1.8%
	No	23.4%▼	1.8%	12.4%	3.5%	23.3%▼	1.8%
	Respondents (n)	1,651	1,651	548	548	2,199	2,199
Use of Programmable Thermostat	Programmed to Change Temperature Automatically	58.6%▲	2.5%	48.0%	5.4%	58.5%▲	2.5%
	Manually Change the Temperature	25.7%▼	2.2%	31.6%	5.1%	25.7%▼	2.2%
	Both	15.7%	1.9%	20.4%	4.9%	15.8%	1.8%
	Respondents (n)	1,219	1,219	481	481	1,700	1,700

Note: This table reports thermostat type for primary central heating and/or cooling systems, as well as thermostat usage for participants with programmable thermostats. For this table, programmable thermostats include smart thermostats.

Source: Survey fields: ['Thermostat Type', 'Programmed Thermostat Setting', 'Construction Type'].

TABLE 100. PROGRAMMABLE THERMOSTAT PRESENCE AND USE BY SYSTEM FUEL TYPE (SURVEY)

COMPARE WITH TABLE 54, VOLUME 5, IN 2015 RSBS.

Programmable Thermostat		Natural Gas		Oil		Propane		Electricity		Other		Overall Statewide	
		%	EB	%	EB	%	EB	%	EB	%	EB	%	EB
Have a Programmable Thermostat	Yes	80.8%▲	2.0%	66.2%	4.9%	68.4%	7.9%	75.6%▲	7.3%	54.9%	15.6%	76.7%▲	1.8%
	No	19.2%▼	2.0%	33.8%	4.9%	31.6%	7.9%	24.4%▼	7.3%	45.1%	15.6%	23.3%▼	1.8%
	Respondents (n)	1,449	1,449	297	297	221	221	167	167	43	43	2,177	2,177
Use of Programmable Thermostat	Programmed to Change Temperature Automatically	58.3%▲	2.9%	59.3%	6.5%	61.7%▲	10.3%	56.0%	10.4%	68.3%	20.2%	58.6%▲	2.5%
	Manually Change the Temperature	25.9%	2.6%	24.8%	5.6%	25.3%▼	9.4%	23.6%▼	8.4%	26.0%	18.6%	25.5%▼	2.2%
	Both	15.8%	2.2%	15.9%	4.9%	13.0%▼	7.0%	20.5%	9.0%	5.7%	9.2%	15.9%	1.9%
	Respondents (n)	1,182	1,182	189	189	162	162	127	127	26	26	1,686	1,686

Note: This table reports thermostat type for primary central heating and/or cooling systems, as well as thermostat usage for participants with programmable thermostats. For this table, programmable thermostats include smart thermostats.

Source: Survey fields: ['Thermostat Type', 'Primary Fuel Type', 'Programmed Thermostat Setting'].

TABLE 101. CONNECTED THERMOSTAT FOR PRIMARY HEATING AND/OR COOLING SYSTEM (SURVEY)

THIS TABLE IS NEW WITH THE 2019 RBSA.

Connected Thermostat	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Yes	20.5%	3.1%	13.2%	1.9%	7.1%	2.3%	15.9%	1.7%
No	79.5%	3.1%	86.8%	1.9%	92.9%	2.3%	84.1%	1.7%
Respondents (n)	502	502	1,224	1,224	423	423	2,149	2,149

Note: This table reports thermostat type for primary central heating and/or cooling systems. This table is new to the 2019 RBSA and its values cannot be compared with those of any 2015 RSBS table.

Source: Survey fields: ['Internet Connected Thermostat', 'Climate Zone'].

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TABLE 102. WATER HEATING FUEL TYPE BY CLIMATE ZONE (SURVEY)

COMPARE WITH TABLE 38, VOLUME 1, IN 2015 RSBS.

Fuel	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Natural Gas	70.8%▲	3.4%	71.9%▲	2.5%	40.3%▲	4.1%	66.5%▲	2.0%
Electricity	6.9%	1.9%	15.6%▼	2.0%	32.0%▼	3.8%	14.0%▼	1.3%
Fuel Oil	21.1%▼	3.0%	5.3%	1.2%	9.9%	2.5%	13.5%▼	1.6%
Propane	0.2%▼	0.3%	6.4%▼	1.3%	15.0%	2.9%	4.8%▼	0.7%
Other	0.8%	0.7%	0.3%	0.3%	1.3%	0.9%	0.7%	0.4%
Kerosene	0.0%	0.0%	0.1%	0.2%	0.8%	0.7%	0.2%	0.1%
Solar	0.0%	0.0%	0.3%	0.3%	0.8%	0.7%	0.2%	0.2%
Respondents (n)	527	527	1,277	1,277	513	513	2,317	2,317

Source: Survey fields: ['Water Heating Fuel Type', 'Primary Water Heating System', 'Climate Zone'].

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TABLE 103. EXISTING HOMES: WATER HEATING FUEL BY CLIMATE ZONE (SURVEY)

COMPARE WITH TABLE 63, VOLUME 5, IN 2015 RSBS.

Fuel	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Natural Gas	70.7%▲	3.4%	72.1%▲	2.5%	40.6%▲	4.1%	66.6%▲	2.0%
Electricity	6.9%	1.9%	15.5%▼	2.0%	31.9%▼	3.9%	13.9%▼	1.4%
Fuel Oil	21.1%▼	3.0%	5.4%	1.3%	9.9%	2.5%	13.6%▼	1.6%
Propane	0.2%▼	0.3%	6.3%▼	1.3%	14.8%	3.0%	4.7%▼	0.7%
Other	0.8%	0.7%	0.3%	0.3%	1.3%	0.9%	0.7%	0.4%
Kerosene	0.0%	0.0%	0.1%	0.2%	0.8%	0.7%	0.2%	0.1%
Solar	0.0%	0.0%	0.3%	0.3%	0.8%	0.7%	0.2%	0.2%
Respondents (n)	492	492	877	877	392	392	1,761	1,761

Source: Survey fields: ['Water Heating Fuel Type', 'Primary Water Heating System', 'Climate Zone', 'Construction Type'].

TABLE 104. NEW HOMES: WATER HEATING FUEL BY CLIMATE ZONE (SURVEY)

COMPARE WITH TABLE 39, VOLUME 1, IN 2015 RSBS.

Fuel	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Natural Gas	80.0%▲	11.5%	57.0%	4.1%	14.9%	5.4%	56.4%▲	4.9%
Electricity	14.3%	10.0%	25.3%▲	3.6%	47.9%	7.5%	26.0%	4.0%
Propane	2.9%▼	4.8%	16.5%	3.1%	33.1%	7.1%	15.3%▼	2.8%
Fuel Oil	2.9%▼	4.8%	0.0%	0.0%	1.7%	1.9%	1.2%▼	1.5%
Solar	0.0%	0.0%	1.0%	0.8%	0.8%	1.4%	0.6%▼	0.5%
Other	0.0%	0.0%	0.3%▼	0.4%	1.7%	1.9%	0.4%▼	0.4%
Respondents (n)	35	35	400	400	121	121	556	556

Source: Survey fields: ['Water Heating Fuel Type', 'Primary Water Heating System', 'Climate Zone', 'Construction Type'].

TABLE 105. WATER HEATING FUEL TYPE BY HOME VINTAGE (SURVEY)

COMPARE WITH TABLE 40, VOLUME 1, IN 2015 RSBS.

Fuel	Existing Homes		New Homes		Overall Statewide	
	%	EB	%	EB	%	EB
Natural Gas	66.6%▲	2.0%	56.4%▲	4.9%	66.5%▲	2.0%
Electricity	13.9%▼	1.4%	26.0%	4.0%	14.0%▼	1.3%
Fuel Oil	13.6%▼	1.6%	1.2%▼	1.5%	13.5%▼	1.6%
Propane	4.7%▼	0.7%	15.3%▼	2.8%	4.8%▼	0.7%
Other	0.7%	0.4%	0.4%▼	0.4%	0.7%	0.4%
Kerosene	0.2%	0.1%	0.0%	0.0%	0.2%	0.1%
Solar	0.2%	0.2%	0.6%▼	0.5%	0.2%	0.2%
Respondents (n)	1,761	1,761	556	556	2,317	2,317

Source: Survey fields: ['Water Heating Fuel Type', 'Primary Water Heating System', 'Construction Type'].

TABLE 106. WATER HEATING FUEL TYPE BY CLIMATE ZONE (SITE)

THIS TABLE IS NEW WITH THE 2019 RBSA.

Fuel Type	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Natural Gas	73.6%	7.9%	77.1%	4.7%	37.9%	9.5%	69.3%	4.5%
Fuel Oil	24.1%	7.6%	5.7%	2.6%	9.8%	5.8%	15.1%	3.9%
Electricity	2.3%	2.7%	14.7%	4.0%	35.4%	9.4%	12.0%	2.6%
Propane	0.0%	0.0%	2.5%	1.7%	15.6%	7.1%	3.3%	1.3%
Kerosene	0.0%	0.0%	0.0%	0.0%	1.4%	2.3%	0.2%	0.4%
Respondents (n)	85	85	274	274	91	91	450	450

Note: This table is new to the 2019 RBSA and its values cannot be compared with those of any 2015 RSBS table.

Source: On-site fields: ['DHW Fuel Type', 'Climate Zone'].

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TABLE 107. WATER HEATING FUEL TYPE BY HOME VINTAGE (SITE)

THIS TABLE IS NEW WITH THE 2019 RBSA.

Fuel Type	Existing Homes		New Homes		Overall Statewide	
	%	EB	%	EB	%	EB
Natural Gas	69.5%	4.5%	42.5%	8.6%	69.3%	4.5%
Fuel Oil	15.2%	4.0%	0.0%	0.0%	15.1%	3.9%
Electricity	11.8%	2.7%	42.9%	8.6%	12.0%	2.6%
Propane	3.3%	1.4%	14.5%	6.2%	3.3%	1.3%
Kerosene	0.2%	0.4%	0.0%	0.0%	0.2%	0.4%
Respondents (n)	360	360	90	90	450	450

Note: This table is new to the 2019 RBSA and its values cannot be compared with those of any 2015 RSBS table.

Source: On-site fields: ['DHW Fuel Type', 'Construction Type'].

TABLE 108. WATER HEATER TYPE BY CLIMATE ZONE (SURVEY)

COMPARE WITH TABLE 55, VOLUME 5, IN 2015 RSBS.

Type	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Storage Water Heater	63.2%	3.9%	72.6%▼	2.6%	64.5%▼	4.1%	66.8%▼	2.2%
Integrated with Heating System Boiler	22.7%▼	3.3%	10.2%	1.8%	15.8%	3.1%	17.0%	1.8%
Heat Pump Water Heater[a]	1.5%	0.9%	5.2%	1.3%	7.0%	2.2%	3.7%	0.7%
Tankless/On-Demand Water Heater	11.2%▲	2.5%	11.3%▲	1.8%	12.1%▲	2.8%	11.4%▲	1.4%
Other	1.4%	0.9%	0.8%	0.5%	0.6%	0.6%	1.0%▲	0.5%
Respondents (n)	444	444	1,137	1,137	473	473	2,054	2,054

[a] *Survey data appear to overreport the existence of heat pump water heaters, which likely results from respondent error.*

Source: Survey fields: ['Primary Water Heating System', 'Climate Zone'].

TABLE 109. WATER HEATER TYPE BY CLIMATE ZONE (SITE)
COMPARE WITH TABLE 41, VOLUME 1, IN 2015 RSBS.

Type	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Storage Water Heater	66.7%	8.4%	84.0%	4.1%	77.3%	8.2%	74.7%	4.5%
Space Heating Boiler with Tank	19.5%	7.1%	6.7%	2.8%	14.0%	6.8%	13.9%	3.7%
Tankless/On-Demand	6.9%	4.5%	5.9%	2.6%	7.3%	5.0%	6.6%	2.5%
Space Heating Boiler with Coil	6.9%	4.5%	1.4%	1.3%	1.4%	2.3%	4.0%	2.2%
Ground Source Heat Pump with Tank	0.0%	0.0%	1.0%	1.1%	0.0%	0.0%	0.4%	0.4%
Heat Pump Water Heater	0.0%	0.0%	1.0%	1.1%	0.0%▼	0.1%	0.4%	0.4%
Water Heaters (n)	87	87	280	280	95	95	462	462

Source: On-site fields: ['No. of Water Heaters', 'DHW Type', 'Climate Zone'].

TABLE 110. WATER HEATER TYPE BY HOME VINTAGE (SITE)
THIS TABLE IS NEW WITH THE 2019 RBSA.

Type	Existing Homes		New Homes		Overall Statewide	
	%	EB	%	EB	%	EB
Storage Water Heater	74.8%	4.5%	60.1%	8.7%	74.6%	4.5%
Space Heating Boiler with Tank	14.0%	3.7%	2.0%	2.3%	13.9%	3.7%
Tankless/On-Demand	6.5%	2.5%	24.7%	7.5%	6.6%	2.5%
Space Heating Boiler with Coil	4.1%	2.3%	0.0%	0.0%	4.0%	2.2%
Heat Pump Water Heater	0.4%	0.4%	7.2%	4.4%	0.4%	0.4%
Ground Source Heat Pump with Tank	0.4%	0.4%	6.0%	4.0%	0.4%	0.4%
Water Heaters (n)	367	367	95	95	462	462

Note: This table is new to the 2019 RBSA and its values cannot be compared with those of any 2015 RSBS table.

Source: On-site fields: ['No. of Water Heaters', 'DHW Type', 'Construction Type'].

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TABLE 111. WATER HEATER TYPE BY HOME VINTAGE (SURVEY)
COMPARE WITH TABLE 56, VOLUME 5, IN 2015 RSBS.

Type	Existing Homes		New Homes		Overall Statewide	
	%	EB	%	EB	%	EB
Storage Water Heater	67.0%▼	2.2%	49.8%▼	6.2%	66.8%▼	2.2%
Integrated with Heating System Boiler	17.1%	1.8%	12.4%	5.1%	17.0%	1.8%
Heat Pump Water Heater[a]	3.6%	0.7%	11.6%	3.7%	3.7%	0.7%
Tankless/On-Demand Water Heater	11.3%▲	1.5%	25.5%	5.5%	11.4%▲	1.4%
Other	1.0%▲	0.5%	0.7%	0.5%	1.0%▲	0.5%
Respondents (n)	1,562	1,562	492	492	2,054	2,054

[a] *Survey data appear to overreport the existence of heat pump water heaters, which likely results from respondent error.*

Source: Survey fields: ['Water Heating Fuel Type', 'Construction Type'].

TABLE 112. WATER HEATER TYPE BY WATER HEATER FUEL (SURVEY)
COMPARE WITH TABLE 57, VOLUME 5, IN 2015 RSBS.

Type	Natural Gas		Electricity		Propane		Fuel Oil		Other		Solar		Kerosene		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB	%	EB	%	EB	%	EB	%	EB
Storage Water Heater	78.1%▼	2.4%	61.1%▼	5.3%	54.1%▼	8.0%	30.7%	6.3%	27.8%	29.0%	19.7%	36.1%	100.0%	0.0%	67.0%▼	2.2%
Integrated with Heating System Boiler	9.9%	1.8%	6.4%	3.4%	20.8%▲	6.5%	58.2%	6.7%	47.0%	28.8%	20.8%	39.1%	0.0%	0.0%	17.1%	1.8%
Heat Pump Water Heater[a]	0.0%	0.0%	22.7%	4.4%	0.0%	0.0%	0.0%	0.0%	6.0%	10.7%	19.6%	36.1%	0.0%	0.0%	3.5%	0.7%
Tankless/On-Demand Water Heater	11.5%▲	1.8%	8.3%▲	3.1%	25.1%	6.9%	9.5%	4.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	11.3%▲	1.5%
Other	0.6%	0.5%	1.4%	1.4%	0.0%	0.0%	1.6%	1.8%	19.2%	24.2%	39.9%	45.9%	0.0%	0.0%	1.1%▲	0.5%
Respondents (n)	1,182	1,182	434	434	192	192	178	178	15	15	10	10	3	3	2,015	2,015

[a] *Survey data appear to overreport the existence of heat pump water heaters, which likely results from respondent error.*

Source: Survey fields: ['Primary Water Heating System', 'Water Heating Fuel Type'].

TABLE 113. NEW HOMES: WATER HEATER TYPE BY WATER HEATER AGE (SITE)

THIS TABLE IS NEW WITH THE 2019 RBSA.

DHW type	2015		After 2015		Before 2015		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Ground Source Heat Pump with Tank	2.3%	3.1%	0.5%	0.7%	3.8%	4.4%	3.2%	3.4%
Heat Pump Water Heater	2.5%	3.3%	0.8%	0.9%	3.8%	4.4%	3.2%	3.4%
Instantaneous	1.7%	2.6%	0.3%	0.5%	5.8%	9.4%	4.7%	7.4%
Storage Water Heater	93.5%	6.9%	98.4%	1.4%	86.6%	10.6%	88.8%	8.4%
Systems (n)	20	20	30	30	49	49	99	99

Note: This table is new to the 2019 RBSA and its values cannot be compared with those of any 2015 RSBS table.

Source: On-site fields: ['DHW Manufacture Year', 'Construction Type', 'No. of Water Heaters', 'DHW Type'].

TABLE 114. STORAGE WATER HEATER TANK SIZE BY HOME VINTAGE (SITE)

THIS TABLE IS NEW WITH THE 2019 RBSA.

Water Heater Tank Size	Existing Homes		New Homes		Overall Statewide	
	%	EB	%	EB	%	EB
55 gallons and above	7.0%	3.4%	8.9%	5.9%	7.0%	3.4%
55 gallons and below	93.0%	3.4%	91.1%	5.9%	93.0%	3.4%
Respondents (n)	289	289	64	64	353	353

Note: This table is new to the 2019 RBSA and its values cannot be compared with those of any 2015 RSBS table.

Source: On-site fields: ['Storage Volume of the Unit (Gallons)', 'No. of Water Heaters', 'Construction Type'].

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TABLE 115. PRIMARY WATER HEATER AGE BY CLIMATE ZONE (SURVEY)

COMPARE WITH TABLE 58, VOLUME 5, IN 2015 RSBS.

Age	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Less than 2 Years	12.9%▼	2.5%	13.5%	1.9%	11.0%	2.6%	12.8%▼	1.4%
2 to 4 Years	17.9%	2.9%	17.8%▼	2.1%	21.3%	3.5%	18.4%	1.7%
5 to 9 Years	31.0%	3.5%	30.9%	2.6%	32.3%	4.0%	31.2%	2.0%
10 to 14 Years	20.6%	3.0%	22.0%	2.3%	19.6%	3.4%	21.0%	1.8%
15 to 19 Years	7.1%	1.9%	8.7%▲	1.6%	8.6%	2.4%	7.9%▲	1.2%
20 or More Years	10.4%	2.3%	7.1%	1.5%	7.3%	2.2%	8.7%	1.3%
Respondents (n)	516	516	1,257	1,257	494	494	2,267	2,267

Source: Survey fields: ['Age of Water Heating System', 'Climate Zone'].

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TABLE 116. PRIMARY WATER HEATER AGE BY HOME VINTAGE (SURVEY)

COMPARE WITH TABLE 59, VOLUME 5, IN 2015 RSBS.

Age	Existing Homes		New Homes		Overall Statewide	
	%	EB	%	EB	%	EB
Less than 2 Years	12.7%▼	1.5%	34.3%▲	4.9%	12.8%▼	1.4%
2 to 4 Years	18.1%	1.7%	64.0%▲	4.9%	18.4%	1.7%
5 to 9 Years	31.4%	2.0%	1.5%▼	1.5%	31.2%	2.0%
10 to 14 Years	21.1%	1.8%	0.2%▼	0.3%	21.0%	1.8%
15 to 19 Years	8.0%▲	1.2%	0.0%	0.0%	7.9%▲	1.2%
20 or More Years	8.8%	1.3%	0.0%	0.0%	8.7%	1.3%
Respondents (n)	1,685	1,685	582	582	2,267	2,267

Source: Survey fields: ['Age of Water Heating System', 'Construction Type'].

TABLE 117. PRIMARY WATER HEATING SYSTEM AGE BY WATER HEATER TYPE (SURVEY)

COMPARE WITH TABLE 60, VOLUME 5, IN 2015 RSBS.

Age	Storage Tank Water Heater		Heat Pump Water Heater[a]		Tankless/On-Demand Water Heater		Integrated with Heating System Boiler		Other		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB	%	EB	%	EB
Less than 2 Years	13.1%	1.9%	11.9%	6.4%	19.9%	5.6%	7.7%	3.2%	25.6%	23.4%	13.1%	1.6%
2 to 4 Years	19.5%	2.2%	29.2%	10.0%	19.8%▼	5.5%	10.1%▼	3.4%	30.8%	24.0%	18.4%	1.8%
5 to 9 Years	32.3%	2.6%	33.1%	10.4%	33.1%	6.4%	21.9%▼	5.1%	25.9%	23.5%	30.6%	2.1%
10 to 14 Years	21.5%	2.3%	15.5%	8.0%	16.2%▲	5.0%	23.6%	5.1%	13.2%	13.4%	21.0%	1.9%
15 to 19 Years	7.4%	1.5%	4.2%	3.9%	6.7%▲	3.4%	12.6%	3.8%	0.0%	0.0%	8.0%▲	1.2%
20 Years or More	6.1%	1.3%	6.1%	6.2%	4.4%	2.5%	24.1%▲	5.3%	4.5%▼	8.0%	8.9%	1.4%
Respondents (n)	1,285	1,285	122	122	294	294	261	261	19	19	1,981	1,981

[a] *Survey data appear to overreport the existence of heat pump water heaters, which likely results from respondent error.*

Source: Survey fields: ['Primary Water Heating System', 'Age of Water Heating System'].

TABLE 118. PRIMARY WATER HEATER ENERGY STAR RATED BY CLIMATE ZONE (SURVEY)

COMPARE WITH TABLE 61, VOLUME 5, IN 2015 RSBS.

ENERGY STAR Water Heater	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Yes	81.2%	8.9%	81.5%	7.6%	94.9%▲	5.7%	83.5%	5.3%
No	18.8%	8.9%	18.5%	7.6%	5.1%▼	5.7%	16.5%	5.3%
Respondents (n)	62	62	133	133	64	64	259	259

Source: Survey fields: ['Energy Star Water Heating System', 'Climate Zone'].

TABLE 119. PRIMARY WATER HEATER ENERGY STAR RATED BY HOME VINTAGE (SURVEY)

COMPARE WITH TABLE 62, VOLUME 5, IN 2015 RSBS.

ENERGY STAR Water Heater	Existing Homes		New Homes		Overall Statewide	
	%	EB	%	EB	%	EB
Yes	83.5%	5.4%	88.0%	8.0%	83.5%	5.3%
No	16.5%	5.4%	12.0%	8.0%	16.5%	5.3%
Respondents (n)	163	163	96	96	259	259

Source: Survey fields: ['Energy Star Water Heating System', 'Construction Type'].

TABLE 120. WATER HEATER YEAR OF MANUFACTURE BY CLIMATE ZONE (SITE)

COMPARE WITH TABLE 64, VOLUME 5, IN 2015 RSBS.

Age	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
1969 or Earlier	1.1%	1.9%	2.4%	1.7%	1.4%	2.3%	1.6%	1.2%
1970 to 1979	2.3%	2.7%	0.5%	0.8%	0.0%	0.0%	1.3%	1.3%
1980 to 1989	3.4%	3.3%	0.9%	1.1%	1.4%	2.3%	2.2%	1.6%
1990 to 1999	10.3%	5.4%	10.4%	3.5%	11.2%	6.2%	10.5%	3.0%
2000 to 2009	33.3%▼	8.4%	32.7%▼	5.3%	30.7%▼	9.0%	32.7%▼	4.6%
2009 to 2014	32.2%	8.3%	27.1%	5.1%	32.1%	9.2%	30.3%	4.6%
2015[a]	2.3%	2.7%	7.5%	2.9%	4.5%	3.9%	4.6%	1.8%
2016[a]	6.9%	4.5%	8.9%	3.2%	4.6%	3.9%	7.3%	2.5%
2017[a]	6.9%	4.5%	5.8%	2.6%	8.6%	5.4%	6.8%	2.5%
2018[a]	1.1%	1.9%	3.8%	2.2%	5.6%	4.5%	2.8%	1.4%
Water Heaters (n)	87	87	280	280	95	95	462	462

[a] *Comparisons cannot be made with the corresponding table in the 2015 RSBS for years 2015 through 2018.*

Source: On-site fields: ['DHW Manufacture Year', 'No. of Water Heaters', 'Climate Zone'].

TABLE 121. NEW HOMES: AVERAGE HOME ENERGY RATING (HERS INDEX SCORE) (SITE)

COMPARE WITH TABLE 47, VOLUME 1, IN 2015 RSBS.

HERS Index	Climate Zone 4[a]		Climate Zone 5		Climate Zone 6		Overall Statewide	
	Mean	EB	Mean	EB	Mean	EB	Mean	EB
Mean	67.6	27.7	53.9▼	4.6	60.4	8.2	55.7▼	3.9
Respondents (n)	5	5	68	68	22	22	90	90

[a] *Shaded cells indicate results that cannot be considered representative because of the small sample size for new homes site visits in Climate Zone 4.*

Source: On-site fields: ['Home Energy Rating Systems Score', 'Climate Zone'].

TABLE 122. HOME AIR LEAKAGE IN CFM50 BY CLIMATE ZONE (SITE)

THIS TABLE IS NEW WITH THE 2019 RBSA.

CFM50	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Less than 1,000	0.0%	0.0	3.6%	2.3%	8.1%	6.4%	2.6%	1.4%
1,000 to Less than 2,000	7.2%	0.1	33.6%	6.0%	42.0%	11.6%	22.6%	4.3%
2,000 to Less than 3,000	35.7%	0.1	35.3%	6.0%	30.0%	10.8%	34.7%	5.7%
3,000 to Less than 4,000	23.2%	0.1	14.1%	4.4%	14.0%	8.2%	18.3%	4.8%
4,000 to Less than 5,000	16.1%	0.1	8.8%	3.6%	2.0%	3.3%	11.1%	4.1%
5,000 to Less than 6,000	12.5%	0.1	2.3%	1.9%	4.0%	4.6%	7.3%	3.6%
6,000 to Less than 8,000	1.8%	0.0	1.8%	1.7%	0.0%	0.0%	1.5%	1.5%
More than 8,000	3.6%	0.0	0.6%	1.0%	0.0%	0.0%	1.9%	1.9%
Mean (CFM50)	3,662	345.6	2,555	186.4	2,241	258.3	3,033	194.1
Respondents (n)	56	56	236	236	72	72	364	364

Note: This table is new to the 2019 RBSA and its values cannot be compared with those of any 2015 RSBS table.

Source: On-site fields: ['Building Air Leakage Measured by Blower Door Test', 'Climate Zone'].

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TABLE 123. HOME AIR LEAKAGE IN CFM50 BY HOME VINTAGE (SITE)

THIS TABLE IS NEW WITH THE 2019 RBSA.

CFM50	Existing Homes		New Homes		Overall Statewide	
	%	EB	%	EB	%	EB
Less than 1,000	2.6%	0.0	18.8%	6.9%	2.6%	1.4%
1,000 to Less than 2,000	22.6%	0.0	41.6%	11.5%	22.6%	4.3%
2,000 to Less than 3,000	34.7%	0.1	34.0%	12.8%	34.7%	5.7%
3,000 to Less than 4,000	18.3%	0.0	5.6%	8.9%	18.3%	4.8%
4,000 to Less than 5,000	11.1%	0.0	0.0%	0.0%	11.1%	4.1%
5,000 to Less than 6,000	7.3%	0.0	0.0%	0.0%	7.3%	3.6%
6,000 to Less than 8,000	1.5%	0.0	0.0%	0.0%	1.5%	1.5%
More than 8,000	1.9%	0.0	0.0%	0.0%	1.9%	1.9%
Mean (CFM50)	3,041	195.1	1,459	119.3	3,033	194.1
Respondents (n)	276	276	88	88	364	364

Note: This table is new to the 2019 RBSA and its values cannot be compared with those of any 2015 RSBS table.

Source: On-site fields: ['Building Air Leakage Measured by Blower Door Test', 'Construction Type'].

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TABLE 124. HOME AIR LEAKAGE AIR CHANGES PER HOUR AT 50 PASCALS BY CLIMATE ZONE (SITE)

THIS TABLE IS NEW WITH THE 2019 RBSA.

ACH50	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Less than 5	5.4%	5.0%	14.9%	4.5%	24.1%	10.1%	11.9%	3.3%
5 to Less than 10	32.2%	10.4%	47.6%	6.3%	30.0%	10.8%	37.8%	5.6%
10 to Less than 15	30.3%	10.3%	19.9%	5.1%	31.9%	11.0%	26.6%	5.4%
15 to Less than 20	19.6%	8.9%	7.0%	3.2%	8.0%	6.4%	13.0%	4.4%
More than 20	12.5%	7.4%	10.6%	3.9%	6.0%	5.6%	10.8%	3.8%
Mean (ACH50)	13.8	1.8	10.7	0.9	10.2	1.6	12.1	0.9
Respondents (n)	56	56	236	236	72	72	364	364

Note: This table is new to the 2019 RBSA and its values cannot be compared with those of any 2015 RSBS table.

Source: On-site fields: ['Building Air Leakage Measured by Blower Door Test', 'Conditioned Floor Space (measured in square feet)', 'Building Envelope Average Ceiling Height', 'Climate Zone'].

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TABLE 125. HOME AIR LEAKAGE AIR CHANGES PER HOUR AT 50 PASCALS BY HOME VINTAGE (SITE)

THIS TABLE IS NEW WITH THE 2019 RBSA.

ACH50	Existing Homes		New Homes		Overall Statewide	
	%	EB	%	EB	%	EB
Less than 5	11.8%	0.0	57.2%	12.9%	11.9%	3.3%
5 to Less than 10	37.8%	0.1	42.8%	12.9%	37.8%	5.6%
10 to Less than 15	26.6%	0.1	0.0%	0.0%	26.6%	5.4%
15 to Less than 20	13.0%	0.0	0.0%	0.0%	13.0%	4.4%
More than 20	10.8%	0.0	0.0%	0.0%	10.8%	3.8%
Mean (ACH50)	12.1	1.0	4.0	0.4	12.1	0.9
Respondents (n)	276	276	88	88	364	364

Note: This table is new to the 2019 RBSA and its values cannot be compared with those of any 2015 RSBS table.

Source: On-site fields: ['Building Air Leakage Measured by Blower Door Test', 'Conditioned Floor Space (measured in square feet)', 'Building Envelope Average Ceiling Height', 'Construction Type'].

TABLE 126. TYPE OF GARAGE BY CLIMATE ZONE (SITE)

COMPARE WITH TABLE 79, VOLUME 5, IN 2015 RSBS.

Type	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Attached	31.8%	8.4%	53.7%	5.7%	41.6%	9.7%	41.4%▲	4.8%
Free Standing	29.4%	8.2%	21.7%	4.7%	21.4%▼	8.1%	25.3%	4.4%
Below Living Space	12.9%	6.1%	6.7%	2.9%	8.5%	5.5%	10.0%	3.2%
None	25.9%▼	7.9%	17.8%	4.4%	28.6%	8.9%	23.3%▼	4.3%
Respondents (n)	85	85	274	274	92	92	451	451

Source: On-site fields: ['Building Garage Type', 'Climate Zone'].

TABLE 127. TYPE OF GARAGE BY HOME VINTAGE (SITE)
COMPARE WITH TABLE 80, VOLUME 5, IN 2015 RSBS.

Type	Existing Homes		New Homes		Overall Statewide	
	%	EB	%	EB	%	EB
Attached	41.2%	4.8%	80.1%	7.2%	41.4%▲	4.8%
Free Standing	25.4%	4.5%	9.1%	5.1%	25.3%	4.4%
Below Living Space	10.0%	3.2%	0.0%	0.0%	10.0%	3.2%
None	23.4%▼	4.3%	10.8%	5.7%	23.3%▼	4.3%
Respondents (n)	361	361	90	90	451	451

Source: On-site fields: ['Building Garage Type', 'Construction Type'].

TABLE 128. GARAGE FINISH BY CLIMATE ZONE (SITE)
COMPARE WITH TABLE 81, VOLUME 5, IN 2015 RSBS.

Garage Finished Interior	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Finished Insulated	52.6%▲	13.7%	34.9%▲	7.2%	35.3%▲	13.6%	42.5%▲	6.9%
Finished Uninsulated	21.1%	11.2%	28.0%	6.8%	20.7%	11.5%	24.0%	5.7%
Unfinished Insulated[a]	0.0%	0.0%	13.4%	5.1%	8.9%	8.1%	7.1%	2.7%
Unfinished Uninsulated[a]	26.3%	12.1%	23.6%	6.4%	35.1%	13.6%	26.5%	6.1%
Respondents (n)	38	38	177	177	47	47	262	262

[a] *Comparisons cannot be made with the corresponding table in the 2015 RSBS for unfinished insulated and unfinished uninsulated values because they do not map clearly to 2015 RSBS values.*

Source: On-site fields: ['Garage Finished Interior?', 'Climate Zone'].

TABLE 129. GARAGE FINISH BY HOME VINTAGE (SITE)
COMPARE WITH TABLE 82, VOLUME 5, IN 2015 RSBS.

Garage Finished Interior	Existing Homes		New Homes		Overall Statewide	
	%	EB	%	EB	%	EB
Finished Insulated	42.5%▲	6.9%	46.9%▲	9.8%	42.5%▲	6.9%
Finished Uninsulated	23.9%	5.8%	31.9%	9.2%	24.0%	5.7%
Unfinished Insulated[a]	7.1%	2.7%	7.2%	5.2%	7.1%	2.7%
Unfinished Uninsulated[a]	26.6%	6.1%	13.9%	6.8%	26.5%	6.1%
Respondents (n)	190	190	72	72	262	262

[a] *Comparisons cannot be made with the corresponding table in the 2015 RSBS for unfinished insulated and unfinished uninsulated values because they do not map clearly to 2015 RSBS values.*

Source: On-site fields: ['Garage Finished Interior?', 'Construction Type'].

TABLE 130. CONNECTIVITY OF ATTACHED GARAGE BOUNDARY WALL BY CLIMATE ZONE (SITE)
COMPARE WITH TABLE 83, VOLUME 5, IN 2015 RSBS.

Connection to Garage	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Well-Sealed	60.6%	14.5%	83.2%▲	6.0%	83.5%▲	11.4%	73.8%▲	6.9%
Some Visible Penetrations	30.3%	13.6%	14.0%▼	5.6%	13.2%▼	10.4%	20.7%▼	6.4%
Obvious Large Penetrations	9.1%	8.5%	2.8%	2.6%	3.3%	5.5%	5.5%	3.8%
Respondents (n)	33	33	150	150	38	38	221	221

Note: This table reports the results of field inspector visual inspection.

Source: On-site fields: ['Building Envelope Connection Boundary wall', 'Climate Zone'].

TABLE 131. CONNECTIVITY OF ATTACHED GARAGE BOUNDARY WALL BY HOME VINTAGE (SITE)

COMPARE WITH TABLE 84, VOLUME 5, IN 2015 RSBS.

Connection to Garage	Existing Homes		New Homes		Overall Statewide	
	%	EB	%	EB	%	EB
Well-Sealed	73.6%▲	6.9%	96.3%	4.4%	73.8%▲	6.9%
Some Visible Penetrations	20.8%▼	6.4%	3.7%	4.4%	20.7%▼	6.4%
Obvious Large Penetrations	5.5%	3.8%	0.0%	0.0%	5.5%	3.8%
Respondents (n)	169	169	52	52	221	221

Note: This table reports the results of field inspector visual inspection.

Source: On-site fields: ['Building Envelope Connection Boundary wall', 'Construction Type'].

TABLE 132. CONNECTIVITY OF ATTACHED GARAGE BOUNDARY CEILING BY CLIMATE ZONE (SITE)

COMPARE WITH TABLE 85, VOLUME 5, IN 2015 RSBS.

Connection to Garage	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Well-Sealed	43.3%	15.4%	80.7%▲	7.2%	61.7%	16.2%	61.0%	8.2%
Some Visible Penetrations	43.3%	15.4%	10.8%▼	5.7%	30.6%	15.3%	28.5%	7.8%
Obvious Large Penetrations	13.3%	10.6%	8.4%	5.1%	7.7%	8.9%	10.5%	5.2%
Respondents (n)	30	30	125	125	31	31	186	186

Note: This table reports the results of field inspector visual inspection.

Source: On-site fields: ['Building Envelope Connection Ceiling', 'Climate Zone'].

TABLE 133. CONNECTIVITY OF ATTACHED GARAGE BOUNDARY CEILING BY HOME VINTAGE (SITE)

COMPARE WITH TABLE 86, VOLUME 5, IN 2015 RSBS.

Connection to Garage	Existing Homes		New Homes		Overall Statewide	
	%	EB	%	EB	%	EB
Well-Sealed	60.8%	8.3%	95.9%	4.8%	61.0%	8.2%
Some Visible Penetrations	28.6%	7.9%	2.0%	3.4%	28.5%	7.8%
Obvious Large Penetrations	10.6%	5.3%	2.0%	3.4%	10.5%	5.2%
Respondents (n)	138	138	48	48	186	186

Note: This table reports the results of field inspector visual inspection.

Source: On-site fields: ['Building Envelope Connection Ceiling', 'Construction Type'].

TABLE 134. CONNECTIVITY OF DUCTING IN ATTACHED GARAGE BY CLIMATE ZONE (SITE)

COMPARE WITH TABLE 87, VOLUME 5, IN 2015 RSBS.

Ducts in Garage	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Some Visible Penetrations	50.0%	44.5%	49.6%	28.8%	0.0%	0.0%	44.2%	23.1%
Well-Sealed	50.0%	44.5%	50.4%	28.8%	67.0%	80.5%	52.1%	23.1%
Respondents (n)	6	6	13	13	4	4	23	23

Note: This table reports the results of field inspector visual inspection.

Source: On-site fields: ['Building Envelope Connection Duct', 'Climate Zone'].

TABLE 135. CONNECTIVITY OF DUCTING IN ATTACHED GARAGE BY HOME VINTAGE (SITE)

COMPARE WITH TABLE 88, VOLUME 5, IN 2015 RSBS.

Ducts In Garage	Existing Homes		New Homes		Overall Statewide	
	%	EB	%	EB	%	EB
Some Visible Penetrations	44.4%	23.5%	0.0%	0.0%	44.2%	23.2%
Well-Sealed	51.9%	23.6%	100.0%	0.0%	52.1%	23.2%
Respondents (n)	19	19	4	4	23	23

Note: This table reports the results of field inspector visual inspection.

Source: On-site fields: ['Building Envelope Connection Duct', 'Construction Type'].

TABLE 136. CEILING TYPE BY CLIMATE ZONE (SITE)

COMPARE WITH TABLE 91, VOLUME 5, IN 2015 RSBS.

Ceiling Type	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Flat Under Attic	70.8%	7.4%	78.6%	4.1%	82.1%	6.4%	75.4%	3.9%
Closed Slant	13.5%	5.3%	11.8%	3.1%	7.8%	3.7%	12.0%	2.8%
Vaulted Under Attic	8.6%	4.5%	6.8%	2.6%	7.2%	4.6%	7.7%	2.4%
Open Slant	3.5%	3.0%	1.8%	1.1%	0.0%	0.1%	2.3%	1.5%
Below Other Living Unit	3.5%	3.3%	1.0%	1.1%	2.8%	3.3%	2.5%	1.7%
Observations (n)	122	122	376	376	125	125	623	623

Note: This table estimates the distribution of ceiling type by area. The number of observations equals the number of ceiling segments defined in the data. More than one type of ceiling may be defined per home. Each segment includes an indication of the percentage of ceiling space it accounts for in that home, which was applied to each segment in calculating the percentage of each type of ceiling. Comparisons cannot be made with the corresponding table in the 2015 RSBS because ceiling types do not map directly to 2015 RSBS values.

Source: On-site fields: ['Percentage of Surface Type', 'Ceiling Type', 'Climate Zone'].

TABLE 137. CEILING TYPE BY HOME VINTAGE (SITE)
COMPARE WITH TABLE 92, VOLUME 5, IN 2015 RSBS.

Ceiling Type	Existing Homes		New Homes		Overall Statewide	
	%	EB	%	EB	%	EB
Flat Under Attic	75.5%	3.9%	70.3%	7.5%	75.4%	3.9%
Closed Slant	12.0%▲	2.8%	12.6%	5.5%	12.0%▲	2.8%
Vaulted Under Attic	7.7%▼	2.4%	5.3%▼	3.3%	7.7%▼	2.4%
Open Slant	2.3%	1.5%	11.8%	5.3%	2.3%	1.5%
Below Other Living Unit	2.5%	1.7%	0.0%	0.0%	2.5%	1.7%
Ceiling Type (n)	513	513	110	110	623	623

Note: This table estimates the distribution of ceiling type by area. The number of observations equals the number of ceiling segments defined in the data. More than one type of ceiling may be defined per home. Each segment includes an indication of the percentage of ceiling space it accounts for in that home, which was applied to each segment in calculating the percentage of each type of ceiling. Comparisons cannot be made with the corresponding table in the 2015 RSBS because ceiling types do not map directly to 2015 RSBS values.

Source: On-site fields: ['Percentage of Surface Type', 'Ceiling Type', 'Construction Type'].

TABLE 138. CEILING INSULATION THICKNESS BY CLIMATE ZONE (SITE)

COMPARE WITH TABLE 113, VOLUME 5, IN 2015 RSBS.

Inches	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
0	11.2%▲	5.4%	5.3%▲	2.4%	0.1%	0.2%	7.3%▲	2.7%
1.0 to 3.0	13.6%	6.0%	6.6%	2.6%	5.2%	4.3%	9.8%	3.1%
3.5 to 5.0	13.4%	5.6%	6.7%▼	2.5%	5.1%▼	4.2%	9.6%▼	2.9%
5.5 to 8.0	43.2%	8.2%	35.5%▼	5.1%	35.4%	8.7%	39.1%▼	4.5%
9.0 to 12.0	13.9%	5.8%	30.7%▲	5.0%	34.5%	8.8%	23.3%	3.7%
13.0 to 16.0	3.5%	3.1%	11.2%▲	3.4%	14.7%	6.7%	8.1%▲	2.2%
17.0 to 20.0	1.2%	2.0%	4.0%	2.2%	2.2%	2.6%	2.4%	1.3%
21.0 to 24.0	0.0%	0.0%	0.0%▼	0.0%	2.8%	2.8%	0.4%	0.4%
Insulation thickness (n)	119	119	367	367	122	122	608	608

Note: This table estimates the distribution of ceiling interior or cavity insulation by area. The number of observations equals the number of ceiling segments defined in the data. More than one type of ceiling may be defined per home. Each segment includes an indication of the percentage of ceiling space it accounts for in that home, which was applied to each segment in calculating the distribution of insulation thickness.

Source: On-site fields: ['Interior or Cavity Insulation Thickness (Inches)', 'Interior or Cavity Insulation Type', 'Percentage of Surface Type', 'Climate Zone'].

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TABLE 139. EXISTING HOMES: CEILING INSULATION THICKNESS (SITE)

COMPARE WITH TABLE 114, VOLUME 5, IN 2015 RSBS.

Inches	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
0	11.2%▲	5.4%	5.4%▲	2.4%	0.1%	0.2%	7.4%▲	2.8%
1.0 to 3.0	13.6%	6.0%	6.7%	2.6%	5.3%	4.4%	9.8%	3.1%
3.5 to 5.0	13.4%	5.6%	6.8%▼	2.5%	5.1%▼	4.2%	9.7%▼	2.9%
5.5 to 8.0	43.2%	8.2%	35.8%	5.2%	35.6%	8.8%	39.3%	4.6%
9.0 to 12.0	13.9%	5.8%	30.6%	5.0%	34.4%	8.9%	23.2%	3.7%
13.0 to 16.0	3.5%	3.1%	10.9%▲	3.5%	14.6%	6.8%	7.9%▲	2.2%
17.0 to 20.0	1.2%	2.0%	4.0%	2.2%	2.1%	2.6%	2.4%	1.3%
21.0 to 24.0	0.0%	0.0%	0.0%	0.0%	2.8%	2.9%	0.4%	0.4%
Insulation thickness (n)	119	119	283	283	97	97	499	499

Note: This table estimates the distribution of ceiling interior or cavity insulation thickness by area. The number of observations equals the number of ceiling segments defined in the data. More than one type of ceiling may be defined per home. Each segment includes an indication of the percentage of ceiling space it accounts for in that home, which was applied to each segment in calculating the distribution of insulation thickness.

Source: On-site fields: ['Interior or Cavity Insulation Thickness (Inches)', 'Interior or Cavity Insulation Type', 'Percentage of Surface Type', 'Climate Zone'].

TABLE 140. NEW HOMES: CEILING INSULATION THICKNESS (SITE)

COMPARE WITH TABLE 115, VOLUME 5, IN 2015 RSBS.

Inches	Climate Zone 4[a]		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
0	0.0%	0.0%	1.5%	2.4%	0.0%	0.0%	1.1%	1.8%
1.0 to 3.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
3.5 to 5.0	0.0%	0.0%	0.0%	0.0%	0.5%▼	0.8%	0.1%▼	0.2%
5.5 to 8.0	0.0%	0.0%	7.1%	4.6%	18.5%	14.3%	10.2%	5.2%
9.0 to 12.0	100.0%	0.0%	43.5%▼	9.6%	41.7%	17.7%	43.0%	8.4%
13.0 to 16.0	0.0%	0.0%	40.8%▲	9.6%	25.5%	15.7%	36.6%▲	8.2%
17.0 to 20.0	0.0%	0.0%	5.7%	4.6%	13.9%	12.8%	7.9%	4.8%
21.0 to 24.0	0.0%	0.0%	1.5%	2.4%	0.0%	0.0%	1.1%	1.8%
Insulation thickness (n)	5	5	84	84	25	25	109	109

Note: This table estimates the distribution of ceiling interior or cavity insulation thickness by area. The number of observations equals the number of ceiling segments defined in the data. More than one type of ceiling may be defined per home. Each segment includes an indication of the percentage of ceiling space it accounts for in that home, which was applied to each segment in calculating the distribution of insulation thickness.

[a] *Shaded cells indicate results that cannot be considered representative because of the small sample size for new homes site visits in Climate Zone 4.*

Source: On-site fields: ['Interior or Cavity Insulation Thickness (Inches)', 'Interior or Cavity Insulation Type', 'Percentage of Surface Type', 'Climate Zone'].

TABLE 141. CEILING INSULATION TYPE BY CLIMATE ZONE (SITE)

COMPARE WITH TABLE 116, VOLUME 5, IN 2015 RSBS.

Insulation Type	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Fiberglass Batts	68.9%	7.8%	49.7%▼	5.4%	61.1%	9.0%	60.6%	4.5%
Cellulose	8.2%	4.8%	23.1%	4.6%	23.9%	7.9%	16.1%	3.2%
Fiberglass Fill	6.3%	4.1%	14.9%▲	3.9%	10.4%	5.8%	10.1%▲	2.6%
None	11.2%	5.4%	5.3%	2.4%	0.1%▼	0.2%	7.3%	2.7%
Spray Foam	0.6%	1.0%	1.6%	1.3%	0.4%▼	0.5%	0.9%	0.7%
Other	3.0%	2.5%	0.8%	1.0%	0.0%	0.0%	1.7%	1.3%
Vermiculite	0.0%	0.0%	1.3%	1.2%	2.2%	2.7%	0.8%	0.6%
Rock Wool	0.6%▼	1.0%	0.7%	0.8%	1.5%	2.4%	0.8%▼	0.7%
XPS	0.0%	0.0%	0.5%	0.8%	0.0%▼	0.1%	0.2%	0.3%
Polyisocyanurate	1.2%	2.0%	0.5%	0.8%	0.4%	0.7%	0.8%	1.0%
Fiberglass - Combo	0.0%	0.0%	0.5%	0.8%	0.0%	0.0%	0.2%▼	0.3%
Spray Foam - Combo[a]	0.0%	0.0%	0.5%	0.8%	0.0%	0.0%	0.2%	0.3%
Vermiculite - Combo	0.0%	0.0%	0.5%	0.8%	0.0%	0.0%	0.2%	0.3%
Observations (n)	119	119	365	365	121	121	605	605

Note: This table estimates ceiling interior or cavity insulation type by area. The number of observations equals the number of ceiling segments defined in the data. More than one type of ceiling may be defined per home. Each segment includes an indication of the percentage of ceiling space it accounts for in that home, which was applied to each segment in calculating the distribution of insulation type.

[a] *The spray foam - combo insulation type was not represented in the corresponding table in the 2015 RSBS.*

Source: On-site fields: ['Interior or Cavity Insulation Type', 'Percentage of Surface Type', 'Climate Zone'].

TABLE 142. EXISTING HOMES: CEILING INSULATION TYPE BY CLIMATE ZONE (SITE)
COMPARE WITH TABLE 117, VOLUME 5, IN 2015 RSBS.

Insulation Type	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Fiberglass Batts	68.9%	7.8%	49.7%▼	5.4%	61.3%	9.1%	60.7%	4.5%
Cellulose	8.2%	4.8%	23.2%	4.7%	23.8%	8.0%	16.1%	3.2%
Fiberglass Fill	6.3%	4.1%	14.7%▲	4.0%	10.3%	5.9%	10.0%▲	2.6%
None	11.2%	5.4%	5.4%	2.4%	0.1%▼	0.2%	7.4%	2.8%
Vermiculite	0.0%	0.0%	1.4%	1.2%	2.2%	2.7%	0.8%	0.6%
Other	3.0%	2.5%	0.8%	1.0%	0.0%	0.0%	1.7%	1.3%
Spray Foam	0.6%	1.0%	1.5%	1.3%	0.3%▼	0.5%	0.9%	0.7%
Rock Wool	0.6%▼	1.0%	0.8%	0.8%	1.5%	2.4%	0.8%▼	0.7%
Polyisocyanurate	1.2%	2.0%	0.5%	0.8%	0.4%	0.7%	0.8%	1.0%
Fiberglass - Combo	0.0%	0.0%	0.5%	0.8%	0.0%	0.0%	0.2%	0.3%
Spray Foam - Combo[a]	0.0%	0.0%	0.5%	0.8%	0.0%	0.0%	0.2%	0.3%
Vermiculite - Combo	0.0%	0.0%	0.5%	0.8%	0.0%	0.0%	0.2%	0.3%
XPS	0.0%	0.0%	0.5%	0.8%	0.0%	0.0%	0.2%	0.3%
Observations (n)	119	119	281	281	97	97	497	497

Note: This table estimates ceiling interior or cavity insulation type by area. The number of observations equals the number of ceiling segments defined in the data. More than one type of ceiling may be defined per home. Each segment includes an indication of the percentage of ceiling space it accounts for in that home, which was applied to each segment in calculating the distribution of insulation type.

[a] *The spray foam - combo insulation type was not represented in the corresponding table in the 2015 RSBS.*

Source: On-site fields: ['Interior or Cavity Insulation Type', 'Percentage of Surface Type', 'Climate Zone'].

TABLE 143. NEW HOMES: CEILING INSULATION TYPE BY CLIMATE ZONE (SITE)

COMPARE WITH TABLE 118, VOLUME 5, IN 2015 RSBS.

Insulation Type	Climate Zone 4[a]		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Fiberglass Batts	**80.0%**	**42.3%**	51.3%	9.7%	38.1%	17.9%	47.6%	8.5%
Fiberglass Fill	**0.0%**	**0.0%**	29.3%	8.9%	19.0%	14.7%	26.4%	7.6%
Cellulose	**0.0%**	**0.0%**	9.1%	5.6%	28.1%	16.3%	14.4%	6.1%
Spray Foam	**20.0%**	**42.3%**	8.8%	5.4%	9.5%	11.0%	9.0%	4.9%
None	**0.0%**	**0.0%**	1.5%	2.4%	0.0%	0.0%	1.1%	1.8%
XPS	**0.0%**	**0.0%**	0.0%	0.0%	4.8%	8.0%	1.3%	2.2%
Polyisocyanurate	**0.0%**	**0.0%**	0.0%	0.0%	0.5%	0.8%	0.1%	0.2%
Observations (n)	5	5	84	84	24	24	108	108

Note: This table estimates ceiling interior or cavity insulation type by area. The number of observations equals the number of ceiling segments defined in the data. More than one type of ceiling may be defined per home. Each segment includes an indication of the percentage of ceiling space it accounts for in that home, which was applied to each segment in calculating the distribution of insulation type.

[a] *Shaded cells indicate results that cannot be considered representative because of the small sample size for new homes site visits in Climate Zone 4.*

Source: On-site fields: ['Interior or Cavity Insulation Type', 'Percentage of Surface Type', 'Climate Zone'].

TABLE 144. CEILING INSULATION GRADE BY CLIMATE ZONE (SITE)

COMPARE WITH TABLE 133, VOLUME 5, IN 2015 RSBS.

Insulation Grade	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Grade I	4.2%	3.5%	18.6%▲	4.3%	11.6%	5.9%	10.9%	2.5%
Grade II	41.8%	8.7%	52.7%	5.5%	52.6%	9.2%	47.7%	4.7%
Grade III	34.6%	8.4%	17.4%▼	3.9%	29.1%	8.6%	27.2%▼	4.4%
Sub Grade III	19.3%	7.3%	11.3%	3.5%	6.7%	4.6%	14.2%	3.7%
Observations (n)	107	107	347	347	122	122	576	576

Note: This table estimates ceiling interior or cavity insulation grade by area. The number of observations equals the number of insulated ceiling segments with known insulation grades defined in the data. More than one ceiling segment may be defined per home. Each segment includes an indication of the percentage of ceiling space it accounts for in that home, which was applied to each segment in calculating the percentage values for each insulation grade.

Source: On-site fields: ['Interior or Cavity Insulation Grade', 'Percentage of Surface Type', 'Climate Zone'].

TABLE 145. EXISTING HOMES: CEILING INSULATION GRADE BY CLIMATE ZONE (SITE)

COMPARE WITH TABLE 134, VOLUME 5, IN 2015 RSBS.

Insulation Grade	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Grade I	4.2%	3.5%	18.1%▲	4.3%	11.0%	5.9%	10.5%	2.6%
Grade II	41.8%	8.7%	53.2%	5.5%	53.0%	9.3%	47.9%	4.8%
Grade III	34.6%	8.4%	17.3%▼	4.0%	29.2%	8.7%	27.2%▼	4.4%
Sub Grade III	19.3%	7.3%	11.5%	3.5%	6.8%	4.7%	14.3%	3.7%
Observations (n)	107	107	266	266	96	96	469	469

Note: This table estimates ceiling interior or cavity insulation grade by area. The number of observations equals the number of insulated ceiling segments with known insulation grades defined in the data. More than one ceiling segment may be defined per home. Each segment includes an indication of the percentage of ceiling space it accounts for in that home, which was applied to each segment in calculating the percentage values for each insulation grade.

Source: On-site fields: ['Interior or Cavity Insulation Grade', 'Percentage of Surface Type', 'Climate Zone'].

TABLE 146. NEW HOMES: CEILING INSULATION GRADE BY CLIMATE ZONE (SITE)

COMPARE WITH TABLE 135, VOLUME 5, IN 2015 RSBS.

Insulation Grade	Climate Zone 4[a]		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Grade I	**40.0%**	**51.8%**	70.7%▲	8.9%	70.9%▲	16.0%	70.7%▲	7.7%
Grade II	**60.0%**	**51.8%**	3.9%▼	3.5%	9.1%▼	10.5%	5.4%▼	3.9%
Grade III	**0.0%**	**0.0%**	25.4%	8.6%	20.0%	13.8%	23.9%	7.2%
Observations (n)	5	5	81	81	26	26	107	107

Note: This table estimates ceiling interior or cavity insulation grade by area. The number of observations equals the number of insulated ceiling segments with known insulation grades defined in the data. More than one ceiling segment may be defined per home. Each segment includes an indication of the percentage of ceiling space it accounts for in that home, which was applied to each segment in calculating the percentage values for each insulation grade.
[a] Shaded cells indicate results that cannot be considered representative because of the small sample size for new homes site visits in Climate Zone 4.

Source: On-site fields: ['Interior or Cavity Insulation Grade', 'Percentage of Surface Type', 'Climate Zone'].

TABLE 147. FOUNDATION TYPE BY CLIMATE ZONE (SITE)
COMPARE WITH TABLE 89, VOLUME 5, IN 2015 RSBS.

Foundation Type	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Conditioned Basement	50.6%	8.5%	31.3%	5.1%	28.9%	8.6%	40.1%	4.8%
Unconditioned Basement	18.0%	6.5%	36.0%	5.3%	38.7%	9.3%	27.8%	4.0%
Indirectly Conditioned Basement	19.5%	7.0%	23.5%	4.7%	15.2%	6.8%	20.3%	3.9%
Slab on Grade	6.7%	4.1%	4.0%	2.0%	10.8%	6.0%	6.3%	2.3%
Unvented Crawlspace	4.5%	2.7%	3.2%	1.6%	3.2%	2.9%	3.8%	1.5%
Vented Crawlspace	0.7%▼	1.0%	2.0%	1.3%	3.2%▼	3.4%	1.6%▼	0.9%
Respondents (n)	83	83	268	268	90	90	441	441

Note: This table estimates the distribution of foundation type by area. The number of observations equals the number of foundation segments defined in the data. Each segment defined for a home includes an indication of the percentage of the total surface of that type it accounts for in that home, which was applied to each segment in calculating the distribution of foundation type.

Source: On-site fields: ['Envelope Foundation Space Type', 'Energy Path Description', 'Equipment Category', 'Percentage of Surface Type', 'Climate Zone'].

TABLE 148. FOUNDATION TYPE BY HOME VINTAGE (SITE)
COMPARE WITH TABLE 90, VOLUME 5, IN 2015 RSBS.

Foundation Type	Existing Homes		New Homes		Overall Statewide	
	%	EB	%	EB	%	EB
Conditioned Basement	40.0%	4.8%	55.3%	8.7%	40.1%	4.8%
Unconditioned Basement	27.9%	4.1%	8.9%	5.0%	27.8%	4.0%
Indirectly Conditioned Basement	20.3%	3.9%	24.8%	7.5%	20.3%	3.9%
Slab on Grade	6.3%	2.3%	9.7%	5.2%	6.3%	2.3%
Unvented Crawlspace	3.8%	1.5%	1.3%	2.1%	3.8%	1.5%
Vented Crawlspace	1.6%▼	0.9%	0.0%	0.0%	1.6%▼	0.9%
Respondents (n)	353	353	88	88	441	441

Note: This table estimates the distribution of foundation type by area. The number of observations equals the number of foundation segments defined in the data. Each segment defined for a home includes an indication of the percentage of the total surface of that type it accounts for in that home, which was applied to each segment in calculating the distribution of foundation type.

Source: On-site fields: ['Envelope Foundation Space Type', 'Energy Path Description', 'Equipment Category', 'Percentage of Surface Type', 'Construction Type'].

TABLE 149. FOUNDATION WALL INTERIOR/CAVITY INSULATION TYPE BY CLIMATE ZONE (SITE)

COMPARE WITH TABLE 42, VOLUME 1, IN 2015 RSBS.

Insulation Type	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
None	58.2%▼	8.7%	70.0%	5.0%	71.4%	9.0%	64.5%▼	4.8%
Fiberglass Batts	37.9%▲	8.6%	24.8%	4.7%	17.0%	7.5%	30.0%▲	4.7%
Spray Foam	1.6%	2.2%	0.4%	0.5%	3.3%	3.8%	1.4%	1.2%
XPS	0.0%	0.0%	1.4%	1.1%	3.3%	3.8%	1.0%	0.7%
EPS	2.3%	2.6%	0.1%▼	0.1%	3.3%	3.8%	1.6%	1.4%
Polyisocyanurate	0.0%	0.0%	1.4%	1.3%	1.1%	1.5%	0.7%	0.5%
Fiberglass Blanket	0.0%	0.0%	1.4%	1.3%	0.0%	0.0%	0.5%▼	0.5%
Fiberglass Fill	0.0%	0.0%	0.5%	0.8%	0.0%	0.0%	0.2%	0.3%
Mineral Wool	0.0%	0.0%	0.0%	0.0%	0.5%	0.8%	0.1%	0.1%
Cellulose	0.0%	0.0%	0.1%	0.2%	0.0%	0.0%	0.0%	0.1%
Observations (n)	101	101	323	323	99	99	523	523

Note: This table estimates the distribution of foundation interior or cavity insulation type by area. The number of observations equals the number of foundation segments with known insulation values defined in the data. More than one type of foundation may be defined per home. Each segment includes an indication of the percentage of foundation area of that type it accounts for in that home, which was applied to each segment in calculating the percentage of each type of insulation.

Source: On-site fields: ['Interior or Cavity Insulation Type', 'Percentage of Surface Type', 'Climate Zone'].

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TABLE 150. FOUNDATION WALL EXTERIOR/CONTINUOUS INSULATION TYPE BY CLIMATE ZONE (SITE)

COMPARE WITH TABLE 42, VOLUME 1, IN 2015 RSBS.

insulation type	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
None	98.7%▲	2.1%	96.7%▲	2.0%	91.6%▲	5.5%	96.9%▲	1.5%
XPS	0.0%	0.0%	1.6%	1.5%	5.0%	4.2%	1.3%	0.8%
EPS	1.3%	2.1%	0.5%	0.8%	1.7%	2.7%	1.1%	1.1%
Polyisocyanurate	0.0%	0.0%	1.1%	1.2%	1.7%	2.7%	0.7%	0.6%
Insulation Type (n)	99	99	322	322	99	99	520	520

Note: This table estimates the distribution of foundation exterior insulation type by area. The number of observations equals the number of foundation segments with known insulation values defined in the data. More than one type of foundation may be defined per home. Each segment includes an indication of the percentage of foundation area of that type it accounts for in that home, which was applied to each segment in calculating the percentage of each type of insulation.

Source: On-site fields: ['Ext or Continuous Insulation Type', 'Percentage of Surface Type', 'Climate Zone'].

TABLE 151. FOUNDATION WALL INTERIOR/CAVITY INSULATION TYPE BY HOME VINTAGE (SITE)

COMPARE WITH TABLE 43, VOLUME 1, IN 2015 RSBS.

Insulation Type	Existing Homes		New Homes		Overall Statewide	
	%	EB	%	EB	%	EB
None	64.7%▼	4.8%	22.1%	7.7%	64.5%▼	4.8%
Fiberglass Batts	29.9%▲	4.7%	56.7%▲	9.2%	30.0%▲	4.7%
EPS	1.6%	1.4%	2.6%	3.1%	1.6%	1.4%
Spray Foam	1.4%	1.2%	8.9%	5.4%	1.4%	1.2%
XPS	1.0%	0.7%	8.5%	5.1%	1.0%	0.7%
Polyisocyanurate	0.7%	0.5%	0.0%	0.0%	0.7%	0.5%
Fiberglass Blanket	0.5%	0.5%	0.0%	0.0%	0.5%▼	0.5%
Fiberglass Fill	0.2%	0.3%	1.2%	2.0%	0.2%	0.3%
Mineral Wool	0.1%	0.1%	0.0%	0.0%	0.1%	0.1%
Cellulose	0.0%	0.1%	0.0%	0.0%	0.0%	0.1%
Observations (n)	438	438	85	85	523	523

Note: This table estimates the distribution of foundation interior or cavity insulation type by area. The number of observations equals the number of foundation segments with known insulation values defined in the data. More than one type of foundation may be defined per home. Each segment includes an indication of the percentage of foundation area of that type it accounts for in that home, which was applied to each segment in calculating the percentage of each type of insulation.

Source: On-site fields: ['Interior or Cavity Insulation Type', 'Percentage of Surface Type', 'Construction Type'].

TABLE 152. FOUNDATION WALL EXTERIOR/CONTINUOUS INSULATION TYPE BY HOME VINTAGE (SITE)

COMPARE WITH TABLE 43, VOLUME 1, IN 2015 RSBS.

Insulation Type	Existing Homes		New Homes		Overall Statewide	
	%	EB	%	EB	%	EB
None	97.0%▲	1.5%	84.4%▲	6.9%	96.9%▲	1.5%
XPS	1.3%	0.8%	10.1%	5.7%	1.3%	0.8%
EPS	1.0%	1.1%	2.9%	3.3%	1.1%	1.1%
Polyisocyanurate	0.7%	0.6%	2.6%	3.1%	0.7%	0.6%
Observations (n)	435	435	85	85	520	520

Note: This table estimates the distribution of foundation exterior insulation type by area. The number of observations equals the number of foundation segments with known insulation values defined in the data. More than one type of foundation may be defined per home. Each segment includes an indication of the percentage of foundation area of that type it accounts for in that home, which was applied to each segment in calculating the percentage of each insulation type.

Source: On-site fields: ['Ext or Continuous Insulation Type', 'Percentage of Surface Type', 'Construction Type'].

TABLE 153. FOUNDATION WALL INTERIOR/CAVITY INSULATION TYPE AND GRADE (SITE)

COMPARE WITH TABLE 94, VOLUME 5, IN 2015 RSBS.

Insulation Type	Grade I		Grade II		Grade III		Sub Grade III		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB	%	EB
Fiberglass Batts	50.6%	19.4%	89.4%▲	5.5%	92.3%	11.3%	99.5%▲	1.2%	85.8%▲	5.5%
EPS	19.7%	17.3%	0.0%	0.0%	7.0%	11.3%	0.5%	1.2%	4.5%	3.9%
Spray Foam	24.1%	19.1%	1.3%	2.2%	0.1%	0.1%	0.0%	0.0%	4.1%	3.3%
XPS	4.7%▼	5.1%	4.0%▼	3.6%	0.7%▼	1.2%	0.0%	0.0%	2.9%▼	2.0%
Polyisocyanurate	0.8%▼	1.3%	2.5%	2.4%	0.0%	0.0%	0.0%	0.0%	1.4%▼	1.2%
Fiberglass Blanket	0.0%	0.0%	1.1%▼	1.8%	0.0%	0.0%	0.0%	0.0%	0.5%▼	0.9%
Fiberglass Fill	0.1%	0.2%	1.0%	1.6%	0.0%	0.0%	0.0%	0.0%	0.5%	0.8%
Mineral Wool	0.0%	0.0%	0.4%	0.7%	0.0%	0.0%	0.0%	0.0%	0.2%	0.3%
Cellulose	0.0%	0.0%	0.2%	0.4%	0.0%	0.0%	0.0%	0.0%	0.1%	0.2%
Observations (n)	68	68	86	86	37	37	10	10	201	201

Note: This table estimates the distribution of foundation interior or cavity insulation grade by insulation type by area. The number of observations equals the number of foundation segments with known insulation grade and type values defined in the data. More than one type of foundation may be defined per home. Each segment includes an indication of the percentage of foundation area of that type it accounts for in that home, which was applied to each segment in calculating the percentage of each insulation type and grade.

Source: On-site fields: ['Interior or Cavity Insulation Grade', 'Interior or Cavity Insulation Type', 'Percentage of Surface Type'].

TABLE 154. EXISTING HOMES: FOUNDATION WALL INTERIOR/CAVITY INSULATION TYPE AND GRADE (SITE)

COMPARE WITH TABLE 95, VOLUME 5, IN 2015 RSBS.

Insulation Type	Grade I		Grade II		Grade III		Sub Grade III		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB	%	EB
Fiberglass Batts	49.7%	21.2%	89.4%▲	5.5%	92.3%	11.6%	99.5%▲	1.2%	85.9%▲	5.6%
EPS	20.5%	19.0%	0.0%	0.0%	7.0%	11.6%	0.5%	1.2%	4.5%	3.9%
Spray Foam	24.8%	21.0%	1.3%	2.2%	0.0%	0.0%	0.0%	0.0%	4.0%	3.4%
XPS	4.1%▼	5.6%	4.0%▼	3.6%	0.7%▼	1.2%	0.0%	0.0%	2.8%▼	2.0%
Polyisocyanurate	0.8%▼	1.5%	2.5%	2.4%	0.0%	0.0%	0.0%	0.0%	1.4%▼	1.2%
Fiberglass Blanket	0.0%	0.0%	1.1%▼	1.8%	0.0%	0.0%	0.0%	0.0%	0.6%▼	0.9%
Fiberglass Fill	0.0%	0.0%	1.0%	1.6%	0.0%	0.0%	0.0%	0.0%	0.5%	0.8%
Mineral Wool	0.0%	0.0%	0.4%	0.7%	0.0%	0.0%	0.0%	0.0%	0.2%	0.3%
Cellulose	0.0%	0.0%	0.2%	0.4%	0.0%	0.0%	0.0%	0.0%	0.1%	0.2%
Observations (n)	23	23	76	76	27	27	10	10	136	136

Note: This table estimates the distribution of foundation interior or cavity insulation grade by insulation type by area. The number of observations equals the number of foundation segments with known insulation grade and type values defined in the data. More than one type of foundation may be defined per home. Each segment includes an indication of the percentage of foundation area of that type it accounts for in that home, which was applied to each segment in calculating the percentage of each insulation type and grade.

Source: On-site fields: ['Interior or Cavity Insulation Grade', 'Interior or Cavity Insulation Type', 'Percentage of Surface Type'].

TABLE 155. NEW HOMES: FOUNDATION WALL INTERIOR/CAVITY INSULATION TYPE AND GRADE (SITE)

COMPARE WITH TABLE 96, VOLUME 5, IN 2015 RSBS.

Insulation Type	Grade I		Grade II		Grade III		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Fiberglass Batts	65.7%	12.2%	89.1%	22.1%	88.9%	22.5%	72.3%	9.6%
Spray Foam	11.9%	8.5%	10.9%	22.1%	11.1%	22.5%	11.6%	7.0%
XPS	15.5%	9.2%	0.0%	0.0%	0.0%	0.0%	11.0%	6.7%
EPS	4.8%	5.7%	0.0%	0.0%	0.0%	0.0%	3.5%	4.1%
Fiberglass Fill	2.2%	3.7%	0.0%	0.0%	0.0%	0.0%	1.6%	2.6%
Observations (n)	45	45	10	10	10	10	65	65

Note: This table estimates the distribution of foundation interior or cavity insulation grade by insulation type by area. The number of observations equals the number of foundation segments with known insulation grade and type values defined in the data. More than one type of foundation may be defined per home. Each segment includes an indication of the percentage of foundation area of that type it accounts for in that home, which was applied to each segment in calculating the percentage of each insulation type and grade.

Source: On-site fields: ['Interior or Cavity Insulation Grade', 'Interior or Cavity Insulation Type', 'Percentage of Surface Type'].

TABLE 156. FLOOR INSULATION THICKNESS BY CLIMATE ZONE (SITE)

THIS TABLE IS NEW WITH THE 2019 RBSA.

Insulation Inches	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
0	13.2%	21.3%	29.9%	15.0%	0.0%	0.0%	16.8%	11.0%
1.0 to 3.0	1.3%	2.4%	1.5%	2.5%	14.9%	19.1%	3.7%	3.7%
3.5 to 5.0	0.0%	0.0%	20.4%	13.5%	22.9%	24.1%	11.2%	7.1%
5.5 to 8.0	85.5%	21.3%	44.2%	15.8%	49.2%	27.0%	64.5%	12.8%
9.0 to 12.0	0.0%	0.0%	4.1%	3.4%	13.1%	18.5%	3.7%	3.5%
Observations (n)	15	15	74	74	22	22	111	111

Note: This table represents floor interior or cavity insulation thickness by area in floors over the outside, over vented crawlspaces, and over garages. The number of observations equals the number of floor segments with known insulation thickness values defined in the data. More than one floor segment may be defined per home. Each segment includes an indication of the percentage of floor area of that type it accounts for in that home, which was applied to each segment in calculating the percentage of each floor insulation thickness. This table is new to the 2019 RBSA and its values cannot be compared with those of any 2015 RSBS table.

Source: On-site fields: ['Interior or Cavity Insulation Thickness (Inches)', 'Interior or Cavity Insulation Type', 'Percentage of Surface Type', 'Climate Zone'].

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TABLE 157. FLOOR INSULATION TYPE AND GRADE (SITE)

COMPARE WITH TABLE 46, VOLUME 1, IN 2015 RSBS.

Insulation Type	Grade I		Grade II		Grade III		Sub Grade III		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB	%	EB
Fiberglass Batts	56.9%	32.8%	90.4%▲	7.7%	92.8%	8.7%	93.5%	8.9%	89.3%▲	5.4%
Fiberglass Fill	16.3%	24.7%	3.7%	5.4%	0.0%	0.0%	0.0%	0.0%	2.8%	3.0%
Other	5.0%	8.8%	2.6%	4.3%	0.0%	0.0%	4.1%	7.5%	2.2%	2.4%
Cellulose	21.2%	30.7%	0.9%	1.6%	0.0%	0.0%	0.0%	0.0%	1.9%	2.5%
Spray Foam	0.1%▼	0.2%	0.0%	0.0%	4.8%	7.9%	0.0%	0.0%	1.4%	2.4%
EPS[a]	0.0%	0.0%	0.8%	1.4%	0.0%	0.0%	2.5%	4.6%	0.8%	1.0%
Radiant Barrier[a]	0.5%	0.9%	0.0%	0.0%	2.4%	4.0%	0.0%	0.0%	0.8%	1.2%
XPS	0.0%	0.0%	1.6%	2.6%	0.0%	0.0%	0.0%	0.0%	0.7%▼	1.2%
Observations (n)	30	30	50	50	47	47	16	16	143	143

Note: This table represents floor interior or cavity insulation type and grade in all floor surfaces by area. The number of observations equals the number of floor segments with known insulation type and grade defined in the data. More than one floor segment may be defined per home. Each segment includes an indication of the percentage of floor area it accounts for in that home, which was applied to each segment in calculating the percentage of each type of insulation and insulation grade.

[a] EPS and radiant barrier were not represented in the corresponding table in the 2015 RSBS.

Source: On-site fields: ['Interior or Cavity Insulation Grade', 'Interior or Cavity Insulation Type', 'Percentage of Surface Type'].

TABLE 158. EXISTING HOMES: FLOOR INSULATION GRADE BY CLIMATE ZONE (SITE)

COMPARE WITH TABLE 99, VOLUME 5, IN 2015 RSBS.

Insulation Grade	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Grade I	13.9%	14.8%	6.8%	5.4%	13.5%	15.1%	11.3%	7.2%
Grade II	51.6%	21.5%	39.4%	12.8%	33.3%	18.9%	43.5%	10.9%
Grade III	21.3%	16.9%	31.4%	12.5%	39.1%	20.2%	28.6%▼	9.5%
Sub Grade III	13.1%	15.3%	22.4%	11.6%	14.1%	13.0%	16.7%	8.1%
Observations (n)	22	22	54	54	24	24	100	100

Note: This table represents floor interior or cavity insulation grade in all floor surfaces by area. The number of observations equals the number of floor segments with known insulation type and grade defined in the data. More than one floor segment may be defined per home. Each segment includes an indication of the percentage of floor area it accounts for in that home, which was applied to each segment in calculating the percentage of insulation of each grade.

Source: On-site fields: ['Interior or Cavity Insulation Grade', 'Percentage of Surface Type', 'Climate Zone'].

TABLE 159. NEW HOMES: FLOOR INSULATION GRADE BY CLIMATE ZONE (SITE)

COMPARE WITH TABLE 100, VOLUME 5, IN 2015 RSBS.

Insulation Grade	Climate Zone 4[a]		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Grade I	**50.0%**	**57.5%**	40.2%	16.7%	50.0%	36.2%	42.8%▲	15.1%
Grade II	**18.8%**	**41.3%**	8.5%▼	9.6%	25.0%	29.5%	12.9%▼	10.0%
Grade III	**31.3%**	**52.0%**	50.3%	17.2%	25.0%	31.1%	43.5%	15.1%
Sub Grade III	**0.0%**	**0.0%**	1.0%	1.7%	0.0%	0.0%	0.7%	1.3%
Observations (n)	5	5	36	36	9	9	45	45

Note: This table represents floor interior or cavity insulation grade in all floor surfaces by area. The number of observations equals the number of floor segments with known insulation type and grade defined in the data. More than one floor segment may be defined per home. Each segment includes an indication of the percentage of floor area it accounts for in that home, which was applied to each segment in calculating the percentage of insulation of each grade.
[a] Shaded cells indicate results that cannot be considered representative because of the small sample size for new homes site visits in Climate Zone 4.

Source: On-site fields: ['Interior or Cavity Insulation Grade', 'Percentage of Surface Type', 'Climate Zone'].

TABLE 160. NEW HOMES: FLOOR INSULATION TYPE AND GRADE (SITE)

COMPARE WITH TABLE 104, VOLUME 5, IN 2015 RSBS.

Insulation Type	Grade I		Grade II		Grade III		Sub Grade III		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB	%	EB
Fiberglass Batts	78.5%▲	19.6%	100.0%	0.0%	91.5%	14.8%	100.0%	0.0%	87.1%	10.3%
Radiant Barrier[a]	8.6%	14.5%	0.0%	0.0%	8.5%	14.8%	0.0%	0.0%	7.4%	8.5%
Fiberglass Fill	8.6%	14.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	3.7%	6.2%
Spray Foam	2.6%▼	3.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.1%▼	1.4%
Cellulose[a]	1.7%	3.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.7%	1.3%
Observations (n)	22	22	6	6	16	16	1	1	45	45

Note: This table represents floor interior or cavity insulation type and grade in all floor surfaces by area. The number of observations equals the number of floor segments with known insulation type and grade defined in the data. More than one floor segment may be defined per home. Each segment includes an indication of the percentage of floor area it accounts for in that home, which was applied to each segment in calculating the percentage of each type of insulation and insulation grade.

[a] *The cellulose and radiant barrier insulation types were not represented in the corresponding table of the 2015 RSBS.*

Source: On-site fields: ['Interior or Cavity Insulation Grade', 'Interior or Cavity Insulation Type', 'Percentage of Surface Type'].

TABLE 161. WALL INTERIOR/CAVITY INSULATION TYPE BY CLIMATE ZONE (SITE)

COMPARE WITH TABLE 44, VOLUME 1, IN 2015 RSBS.

Insulation Type	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Fiberglass Batts	60.0%	8.3%	65.9%	5.3%	75.0%	8.3%	64.5%	4.6%
None	28.9%	7.7%	17.8%▲	4.2%	9.0%	5.4%	21.7%	4.1%
Cellulose	5.0%	3.8%	12.0%	3.7%	9.8%	5.8%	8.3%	2.4%
Fiberglass Fill	2.4%	2.8%	0.5%	0.8%	3.8%	3.6%	1.9%	1.5%
Spray Foam[a]	1.7%	2.1%	1.7%	1.4%	2.3%	2.6%	1.8%	1.2%
Polyisocyanurate	1.2%	2.0%	0.0%	0.0%	0.0%	0.0%	0.6%	0.9%
Rock Wool	0.0%	0.0%	0.7%	0.9%	0.1%▼	0.1%	0.3%	0.3%
UFFI[a]	0.7%	1.2%	0.0%	0.0%	0.0%	0.0%	0.3%	0.6%
Other	0.0%	0.0%	0.5%	0.8%	0.0%	0.0%	0.2%	0.3%
Vermiculite	0.1%▼	0.2%	0.3%	0.4%	0.0%	0.0%	0.2%▼	0.2%
XPS	0.0%	0.0%	0.5%	0.6%	0.0%	0.0%	0.2%	0.2%
Spray Foam - Combo	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Observations (n)	117	117	316	316	107	107	540	540

Note: This table estimates the distribution of interior or cavity wall insulation type by area. The number of observations equals the number of wall segments with known insulation type defined in the data. More than one wall segment may be defined per home. Each segment includes an indication of the percentage of wall area it accounts for in that home, which was applied to each segment in calculating the percentage of each type of insulation.

[a] The UFFI and spray foam - combo insulation types were not represented in the corresponding table in the 2015 RSBS.

Source: On-site fields: ['Interior or Cavity Insulation Type', 'Percentage of Surface Type', 'Climate Zone'].

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TABLE 162. WALL EXTERIOR/CONTINUOUS INSULATION TYPE BY CLIMATE ZONE (SITE)

COMPARE WITH TABLE 44E, VOLUME 1, IN 2015 RSBS.

Insulation Type	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
None	75.1%▲	7.6%	93.6%▲	2.8%	83.9%▲	7.2%	83.3%▲	4.0%
EPS	22.4%▲	7.3%	2.0%	1.6%	10.2%▲	6.0%	13.0%▲	3.7%
Polyisocyanurate	2.5%	2.9%	1.7%	1.4%	1.5%	2.4%	2.1%	1.5%
XPS	0.0%	0.0%	2.6%	1.8%	4.3%	4.0%	1.6%	0.9%
Cellulose Dense Pack[a]	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%
Mineral Wool Board[a]	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%
Spray Foam	0.0%	0.0%	0.1%▼	0.1%	0.0%	0.0%	0.0%▼	0.0%
Observations (n)	110	110	309	309	106	106	525	525

Note: This table estimates the distribution of exterior or continuous wall insulation type by area. The number of observations equals the number of wall segments with known exterior or continuous insulation type defined in the data. More than one wall segment may be defined per home. Each segment includes an indication of the percentage of wall area it accounts for in that home, which was applied to each segment in calculating the percentage of each type of insulation.
[a] The cellulose dense pack and mineral wool board insulation types were not represented in the corresponding table in the 2015 RSBS.

Source: On-site fields: ['Ext or Continuous Insulation Type', 'Percentage of Surface Type', 'Climate Zone'].

TABLE 163. EXISTING HOMES: WALL INTERIOR/CAVITY INSULATION TYPE BY CLIMATE ZONE (SITE)

COMPARE WITH TABLE 108, VOLUME 5, IN 2015 RSBS.

Insulation Type	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Fiberglass Batts	60.0%	8.3%	65.7%	5.3%	75.1%	8.4%	64.4%	4.6%
None	28.9%	7.7%	18.0%	4.3%	9.0%	5.5%	21.8%	4.1%
Cellulose	5.0%	3.8%	12.1%	3.7%	9.9%	5.9%	8.4%	2.5%
Fiberglass Fill	2.4%	2.8%	0.5%	0.8%	3.9%	3.7%	1.9%	1.5%
Spray Foam	1.7%	2.1%	1.6%	1.4%	2.1%	2.6%	1.7%	1.2%
Polyisocyanurate	1.2%	2.0%	0.0%	0.0%	0.0%	0.0%	0.6%	0.9%
Rock Wool	0.0%	0.0%	0.7%	0.9%	0.0%	0.0%	0.3%	0.3%
UFFI[a]	0.7%	1.2%	0.0%	0.0%	0.0%	0.0%	0.3%	0.6%
Other	0.0%	0.0%	0.5%▼	0.8%	0.0%	0.0%	0.2%▼	0.3%
XPS	0.0%	0.0%	0.5%	0.6%	0.0%	0.0%	0.2%	0.2%
Vermiculite	0.1%	0.2%	0.3%	0.4%	0.0%	0.0%	0.2%	0.2%
Observations (n)	117	117	238	238	78	78	433	433

Note: This table estimates the distribution of interior or cavity wall insulation type by area. The number of observations equals the number of wall segments with known insulation type defined in the data. More than one wall segment may be defined per home. Each segment includes an indication of the percentage of wall area it accounts for in that home, which was applied to each segment in calculating the percentage of each type of insulation.

[a] *The UFFI insulation type was not represented in the equivalent table in the 2015 RSBS.*

Source: On-site fields: ['Interior or Cavity Insulation Type', 'Percentage of Surface Type', 'Climate Zone'].

TABLE 164. EXISTING HOMES: WALL EXTERIOR/CONTINUOUS INSULATION TYPE BY CLIMATE ZONE (SITE)

COMPARE WITH TABLE 108E, VOLUME 5, IN 2015 RSBS.

Insulation Type	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
None	75.1%▲	7.6%	93.2%▲	2.9%	84.1%▲	7.3%	83.1%▲	4.0%
EPS	22.4%▲	7.3%	2.0%	1.7%	10.1%▲	6.0%	13.0%▲	3.8%
Polyisocyanurate	2.5%	2.9%	1.7%	1.4%	1.4%	2.4%	2.0%	1.5%
XPS	0.0%	0.0%	2.5%	1.8%	4.3%	4.1%	1.6%▲	0.9%
Other	0.0%	0.0%	0.5%	0.8%	0.0%	0.0%	0.2%▼	0.3%
Spray Foam	0.0%	0.0%	0.1%	0.1%	0.0%	0.0%	0.0%▼	0.0%
Observations (n)	110	110	231	231	77	77	418	418

Note: This table estimates the distribution of exterior or continuous wall insulation type by area. The number of observations equals the number of wall segments with known exterior or continuous insulation type defined in the data. More than one wall segment may be defined per home. Each segment includes an indication of the percentage of wall area it accounts for in that home, which was applied to each segment in calculating the percentage of each type of insulation.

Source: On-site fields: ['Ext or Continuous Insulation Type', 'Percentage of Surface Type', 'Interior or Cavity Insulation Type', 'Climate Zone'].

TABLE 165. NEW HOMES: WALL INTERIOR/CAVITY INSULATION TYPE BY CLIMATE ZONE (SITE)

COMPARE WITH TABLE 45, VOLUME 1, IN 2015 RSBS.

Insulation Type	Climate Zone 4[a]		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Fiberglass Batts	**80.0%**	**37.8%**	86.0%	6.7%	61.4%	16.8%	79.1%	6.9%
Spray Foam	**20.0%**	**37.8%**	8.1%	5.3%	20.9%	14.3%	11.7%▼	5.5%
None	**0.0%**	**0.0%**	1.5%	1.7%	8.6%	9.1%	3.5%	2.8%
Rock Wool	**0.0%**	**0.0%**	0.0%	0.0%	9.1%	9.7%	2.5%	2.7%
Spray Foam/Cellulose[b]	**0.0%**	**0.0%**	1.5%	2.4%	0.0%	0.0%	1.1%	1.8%
Spray Foam/Fiberglass[b]	**0.0%**	**0.0%**	1.5%	2.4%	0.0%	0.0%	1.1%	1.8%
Cellulose	**0.0%**	**0.0%**	1.5%	2.4%	0.0%	0.0%	1.1%	1.8%
Observations (n)	6	6	78	78	29	29	107	107

Note: This table estimates the distribution of interior or cavity wall insulation type by area. The number of observations equals the number of wall segments with known insulation type defined in the data. More than one wall segment may be defined per home. Each segment includes an indication of the percentage of wall area it accounts for in that home, which was applied to each segment in calculating the percentage of each type of insulation.

[a] Shaded cells indicate results that cannot be considered representative because of the small sample size for new homes site visits in Climate Zone 4.

[b] The spray foam/cellulose and spray foam/fiberglass insulation types were not represented in the equivalent table in the 2015 RSBS.

Source: On-site fields: ['Interior or Cavity Insulation Type', 'Percentage of Surface Type', 'Climate Zone'].

TABLE 166. NEW HOMES: WALL EXTERIOR/CONTINUOUS INSULATION TYPE BY CLIMATE ZONE (SITE)

COMPARE WITH TABLE 45E, VOLUME 1, IN 2015 RSBS.

Insulation Type	Climate Zone 4[a]		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
None	**40.0%**	**45.3%**	82.9%▲	7.4%	70.5%▲	15.8%	79.4%▲	6.9%
EPS	**60.0%**	**45.3%**	4.4%	3.8%	12.7%	11.1%	6.7%	4.1%
XPS	**0.0%**	**0.0%**	8.2%	5.5%	0.0%	0.0%	5.9%	4.0%
Polyisocyanurate	**0.0%**	**0.0%**	4.4%	4.2%	8.6%	10.0%	5.6%	4.1%
Cellulose Dense Pack[b]	**0.0%**	**0.0%**	0.0%	0.0%	4.5%	7.6%	1.3%	2.1%
Mineral Wool Board[b]	**0.0%**	**0.0%**	0.0%	0.0%	3.6%	6.1%	1.0%	1.7%
Observations (n)	6	6	78	78	29	29	107	107

Note: This table estimates the distribution of exterior or continuous wall insulation type by area. The number of observations equals the number of wall segments with known exterior or continuous insulation type defined in the data. More than one wall segment may be defined per home. Each segment includes an indication of the percentage of wall area it accounts for in that home, which was applied to each segment in calculating the percentage of each type of insulation.

[a] Shaded cells indicate results that cannot be considered representative because of the small sample size for new homes site visits in Climate Zone 4.

[b] The cellulose dense pack and mineral wool board insulation types were not represented in the 2015 RSBS.

Source: On-site fields: ['Ext or Continuous Insulation Type', 'Percentage of Surface Type', 'Climate Zone'].

TABLE 167. WALL INTERIOR/CAVITY INSULATION THICKNESS BY CLIMATE ZONE (SITE)

COMPARE WITH TABLE 109, VOLUME 5, IN 2015 RSBS.

Inches of Insulation	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
0	28.9%	7.7%	17.8%	4.2%	9.0%	5.4%	21.7%	4.1%
0.5	1.2%	2.0%	0.2%▼	0.3%	0.0%	0.0%	0.6%	0.9%
1	0.0%	0.0%	0.5%▼	0.6%	0.0%	0.0%	0.2%▼	0.2%
1.5	3.6%	3.4%	1.5%	1.4%	0.0%	0.0%	2.2%	1.7%
2	1.3%▼	2.0%	3.2%	2.0%	5.2%	4.3%	2.6%▼	1.4%
2.5	3.9%	3.4%	1.2%	1.2%	0.0%	0.0%	2.3%	1.7%
3	2.1%	2.5%	4.4%	2.4%	0.0%▼	0.1%	2.7%	1.5%
3.5	48.7%▼	8.5%	49.8%▲	5.6%	48.0%	9.6%	49.0%	4.8%
4	0.7%▼	1.2%	0.5%▼	0.8%	0.0%▼	0.1%	0.5%▼	0.6%
4.5	1.2%	2.0%	0.0%	0.0%	0.0%	0.0%	0.6%	0.9%
5.5	8.3%	4.8%	19.5%▼	4.3%	37.6%	9.3%	17.0%▼	3.3%
6.5	0.0%	0.0%	0.0%▼	0.0%	0.0%	0.0%	0.0%▼	0.0%
8	0.0%	0.0%	1.5%	1.3%	0.0%	0.0%	0.5%	0.5%
10.5	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
11	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Observations (n)	117	117	316	316	107	107	540	540

Note: This table estimates the distribution of interior or cavity wall insulation thickness by area. The number of observations equals the wall segments with known insulation thickness values defined in the data. More than one segment may be defined per home. Each segment includes an indication of the percentage of wall area it accounts for in that home, which was applied to each segment in calculating the distribution of insulation thickness.

Source: On-site fields: ['Interior or Cavity Insulation Thickness (Inches)', 'Interior or Cavity Insulation Type', 'Percentage of Surface Type', 'Climate Zone'].

TABLE 168. EXISTING HOMES: WALL INTERIOR/CAVITY INSULATION THICKNESS BY CLIMATE ZONE (SITE)

COMPARE WITH TABLE 110, VOLUME 5, IN 2015 RSBS.

Inches of Insulation	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
0	28.9%	7.7%	17.9%	4.3%	9.0%	5.5%	21.8%	4.1%
0.5	1.2%	2.0%	0.2%▼	0.3%	0.0%	0.0%	0.6%	0.9%
1	0.0%	0.0%	0.5%▼	0.6%	0.0%	0.0%	0.2%▼	0.2%
1.5	3.6%	3.4%	1.5%	1.4%	0.0%	0.0%	2.3%	1.7%
2	1.3%▼	2.0%	3.2%	2.0%	5.3%	4.3%	2.6%▼	1.4%
2.5	3.9%	3.4%	1.2%	1.2%	0.0%	0.0%	2.3%	1.7%
3	2.1%	2.5%	4.4%	2.4%	0.0%	0.0%	2.7%	1.5%
3.5	48.7%▼	8.5%	50.1%▲	5.6%	48.3%	9.7%	49.1%	4.8%
4	0.7%▼	1.2%	0.5%▼	0.8%	0.0%	0.0%	0.5%▼	0.6%
4.5	1.2%	2.0%	0.0%	0.0%	0.0%	0.0%	0.6%	0.9%
5.5	8.3%	4.8%	18.9%▼	4.4%	37.4%	9.4%	16.7%▼	3.3%
8	0.0%	0.0%	1.5%	1.3%	0.0%	0.0%	0.5%	0.5%
Observations Type (n)	117	117	238	238	78	78	433	433

Note: This table estimates the distribution of interior or cavity wall insulation thickness by area. The number of observations equals the wall segments with known insulation thickness values defined in the data. More than one segment may be defined per home. Each segment includes an indication of the percentage of wall area it accounts for in that home, which was applied to each segment in calculating the distribution of insulation thickness.

Source: On-site fields: ['Interior or Cavity Insulation Thickness (Inches)', 'Interior or Cavity Insulation Type', 'Percentage of Surface Type', 'Climate Zone'].

TABLE 169. NEW HOMES: WALL INSULATION INTERIOR/CAVITY THICKNESS BY CLIMATE ZONE (SITE)

COMPARE WITH TABLE 111, VOLUME 5, IN 2015 RSBS.

Inches of Insulation	Climate Zone 4[a]		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
0	0.0%	0.0%	1.5%	1.7%	8.6%	9.1%	3.5%	2.8%
3	0.0%	0.0%	0.0%	0.0%	4.5%	7.6%	1.3%▼	2.1%
3.5	30.0%	40.7%	13.2%▼	6.7%	19.1%	13.5%	14.9%	6.1%
4	0.0%	0.0%	0.0%	0.0%	4.5%	7.6%	1.3%	2.1%
5.5	70.0%	40.7%	82.4%▲	7.4%	62.3%	16.7%	76.7%	7.2%
6.5	0.0%	0.0%	1.5%	2.4%	0.0%	0.0%	1.1%	1.8%
10.5	0.0%	0.0%	1.5%	2.4%	0.0%	0.0%	1.1%	1.8%
11	0.0%	0.0%	0.0%	0.0%	0.9%	1.6%	0.3%	0.4%
Observations (n)	6	6	78	78	29	29	107	107

Note: This table estimates the distribution of interior or cavity wall insulation thickness by area. The number of observations equals the wall segments with known insulation thickness values defined in the data. More than one segment may be defined per home. Each segment includes an indication of the percentage of wall area it accounts for in that home, which was applied to each segment in calculating the distribution of insulation thickness.
[a] Shaded cells indicate results that cannot be considered representative because of the small sample size for new homes site visits in Climate Zone 4.

Source: On-site fields: ['Interior or Cavity Insulation Thickness (Inches)', 'Interior or Cavity Insulation Type', 'Percentage of Surface Type', 'Climate Zone'].

TABLE 170. WALL INTERIOR/CAVITY INSULATION GRADE BY CLIMATE ZONE (SITE)

COMPARE WITH TABLE 123, VOLUME 5, IN 2015 RSBS.

Insulation Grade	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Grade I	9.2%▲	5.7%	10.4%	3.7%	8.9%	5.3%	9.6%▲	3.0%
Grade II	42.4%	10.0%	62.7%▲	5.9%	66.6%▲	9.5%	54.6%▲	5.3%
Grade III	35.5%▼	9.8%	21.5%▼	5.0%	17.2%▼	7.8%	26.8%▼	4.9%
Sub Grade III	12.9%	7.0%	5.4%	2.8%	7.3%	5.3%	9.0%	3.3%
Observations (n)	86	86	259	259	97	97	442	442

Note: This table represents interior or cavity wall insulation grade by area. The number of observations equals the number of wall segments with known insulation grade defined in the data. More than one wall segment may be defined per home. Each segment includes an indication of the percentage of wall area it accounts for in that home, which was applied to each segment in calculating the percentage of insulation of each grade.

Source: On-site fields: ['Interior or Cavity Insulation Grade', 'Percentage of Surface Type', 'Climate Zone'].

TABLE 171. EXISTING HOMES: WALL INTERIOR/CAVITY INSULATION GRADE BY CLIMATE ZONE (SITE)

COMPARE WITH TABLE 124, VOLUME 5, IN 2015 RSBS.

Insulation Grade	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Grade I	9.2%▲	5.7%	10.0%	3.8%	8.3%	5.4%	9.3%▲	3.0%
Grade II	42.4%	10.0%	63.1%▲	6.0%	67.0%▲	9.6%	54.8%▲	5.4%
Grade III	35.5%▼	9.8%	21.4%▼	5.1%	17.3%▼	7.9%	26.8%▼	4.9%
Sub Grade III	12.9%	7.0%	5.5%	2.8%	7.4%	5.3%	9.1%	3.4%
Observations (n)	86	86	193	193	71	71	350	350

Note: This table represents interior or cavity wall insulation grade by area. The number of observations equals the number of wall segments with known insulation grade defined in the data. More than one wall segment may be defined per home. Each segment includes an indication of the percentage of wall area it accounts for in that home, which was applied to each segment in calculating the percentage of insulation of each grade.

Source: On-site fields: ['Interior or Cavity Insulation Grade', 'Percentage of Surface Type', 'Climate Zone'].

TABLE 172. NEW HOMES: WALL INTERIOR/CAVITY INSULATION GRADE BY CLIMATE ZONE (SITE)

COMPARE WITH TABLE 125, VOLUME 5, IN 2015 RSBS.

Insulation Grade	Climate Zone 4[a]		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Grade I	**40.0%**	**45.4%**	49.5%▲	10.7%	69.2%▲	16.6%	55.1%▲	9.1%
Grade II	**60.0%**	**45.4%**	25.5%▼	9.3%	20.9%▼	14.8%	24.2%▼	7.8%
Grade III	**0.0%**	**0.0%**	25.0%	9.2%	10.0%	10.1%	20.7%	7.2%
Observations (n)	6	6	66	66	26	26	92	92

Note: This table represents interior or cavity wall insulation grade by area. The number of observations equals the number of wall segments with known insulation grade defined in the data. More than one wall segment may be defined per home. Each segment includes an indication of the percentage of wall area it accounts for in that home, which was applied to each segment in calculating the percentage of insulation of each grade.

[a] *Shaded cells indicate results that cannot be considered representative because of the small sample size for new homes site visits in Climate Zone 4.*

Source: On-site fields: ['Interior or Cavity Insulation Grade', 'Percentage of Surface Type', 'Climate Zone'].

TABLE 173. NEW HOMES: WALL INTERIOR/CAVITY INSULATION TYPE AND GRADE (SITE)

COMPARE WITH TABLE 126, VOLUME 5, IN 2015 RSBS.

Insulation Type	Grade I		Grade II		Grade III		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Mineral Wool[a]	2.6%	4.3%	5.9%	8.3%	0.0%	0.0%	2.9%	3.0%
Spray Foam - Combo[a]	4.3%	5.1%	0.0%	0.0%	0.0%	0.0%	2.4%	2.8%
Fiberglass Batts	71.1%	11.5%	90.2%	10.5%	100.0%	0.0%	81.7%	7.1%
Spray Foam	22.0%	10.5%	3.9%	6.8%	0.0%	0.0%	13.1%▲	6.2%
Insulation Type (n)	47	47	24	24	21	21	92	92

Note: This table represents interior or cavity wall insulation type and grade by area. The number of observations equals the number of wall segments with known insulation type and grade defined in the data. More than one wall segment may be defined per home. Each segment includes an indication of the percentage of wall area it accounts for in that home, which was applied to each segment in calculating the percentage of each type of insulation and insulation grade.

[a] The mineral wool and spray foam - combo insulation types were not represented in the corresponding table in the 2015 RSBS.

Source: On-site fields: ['Interior or Cavity Insulation Grade', 'Interior or Cavity Insulation Type', 'Percentage of Surface Type'].

TABLE 174. RIM JOIST INTERIOR INSULATION TYPE BY CLIMATE ZONE (SITE)
COMPARE WITH TABLE 127, VOLUME 5, IN 2015 RSBS.

Insulation Type	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
None	69.9%	7.8%	44.1%	5.6%	40.4%	9.7%	55.9%	4.7%
Fiberglass Batts	24.0%	7.4%	40.9%▼	5.5%	45.7%	9.8%	33.6%	4.4%
Spray Foam	2.5%	2.7%	12.1%	3.7%	5.9%	4.5%	6.6%	2.1%
EPS[a]	2.7%	2.7%	0.0%	0.0%	4.7%	4.1%	2.0%	1.4%
Cellulose	0.7%	1.2%	0.0%	0.0%	0.2%▼	0.3%	0.4%	0.6%
Fiberglass Fill	0.0%	0.0%	1.0%	1.2%	0.0%	0.0%	0.4%	0.4%
Mineral Wool	0.0%	0.0%	0.0%	0.0%	1.6%	2.6%	0.2%	0.4%
Polyisocyanurate	0.0%	0.0%	0.5%	0.8%	0.0%▼	0.1%	0.2%▼	0.3%
XPS	0.1%	0.2%	0.3%	0.4%	0.0%	0.0%	0.2%	0.2%
Spray Foam - Combo[a]	0.0%	0.0%	0.5%	0.8%	0.0%	0.0%	0.2%	0.3%
Observations (n)	115	115	320	320	98	98	533	533

Note: This table represents the distribution of rim joist interior insulation type by area. The number of observations equals the number of rim joist segments with known insulation values defined in the data. More than one rim joist segment may be defined per home. Each segment includes an indication of the percentage of rim joist area it accounts for in that home, which was applied to each segment in calculating the percentage of each type of insulation.
[a] The EPS and spray foam - combo insulation types were not represented in the equivalent table in the 2015 RSBS.

Source: On-site fields: ['Interior or Cavity Insulation Type', 'Percentage of Surface Type', 'Climate Zone'].

TABLE 175. EXISTING HOMES: RIM JOIST INTERIOR INSULATION TYPE BY CLIMATE ZONE (SITE)

COMPARE WITH TABLE 128, VOLUME 5, IN 2015 RSBS.

Insulation Type	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
None	69.9%	7.8%	44.5%	5.6%	40.6%	9.7%	56.1%	4.7%
Fiberglass Batts	24.0%	7.4%	40.7%▼	5.6%	45.8%	9.9%	33.4%	4.4%
Spray Foam	2.5%	2.7%	12.0%	3.7%	5.6%	4.6%	6.5%	2.1%
EPS[a]	2.7%	2.7%	0.0%	0.0%	4.7%	4.1%	2.0%	1.4%
Cellulose	0.7%	1.2%	0.0%	0.0%	0.2%▼	0.3%	0.4%	0.6%
Fiberglass Fill	0.0%	0.0%	1.0%	1.2%	0.0%	0.0%	0.4%	0.4%
Mineral Wool[a]	0.0%	0.0%	0.0%	0.0%	1.6%	2.6%	0.2%	0.4%
Polyisocyanurate	0.0%	0.0%	0.5%	0.8%	0.0%	0.0%	0.2%▼	0.3%
XPS	0.1%	0.2%	0.3%	0.4%	0.0%	0.0%	0.2%	0.2%
Observations (n)	115	115	239	239	80	80	434	434

Note: This table represents the distribution of rim joist interior insulation type by area. The number of observations equals the number of rim joist segments with known insulation values defined in the data. More than one rim joist segment may be defined per home. Each segment includes an indication of the percentage of rim joist area it accounts for in that home, which was applied to each segment in calculating the percentage of each type of insulation.

[a] The EPS and mineral wool insulation types were not represented in the equivalent table in the 2015 RSBS.

Source: On-site fields: ['Interior or Cavity Insulation Type', 'Percentage of Surface Type', 'Climate Zone'].

TABLE 176. NEW HOMES: RIM JOIST INTERIOR INSULATION TYPE BY CLIMATE ZONE (SITE)

COMPARE WITH TABLE 129, VOLUME 5, IN 2015 RSBS.

Insulation Type	Climate Zone 4[a]		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Fiberglass Batts	**80.0%**	**37.8%**	65.6%	9.5%	31.3%	19.6%	57.7%	8.9%
Spray Foam	**20.0%**	**37.8%**	26.6%	8.8%	49.4%	21.5%	31.8%	8.5%
None	**0.0%**	**0.0%**	4.7%	4.4%	6.9%	10.7%	5.2%	4.1%
EPS[b]	**0.0%**	**0.0%**	0.0%	0.0%	6.3%	10.6%	1.4%	2.4%
Polyisocyanurate	**0.0%**	**0.0%**	0.0%	0.0%	6.3%	10.6%	1.4%	2.4%
Spray Foam - Combo[b]	**0.0%**	**0.0%**	1.6%	2.6%	0.0%	0.0%	1.2%	2.0%
XPS	**0.0%**	**0.0%**	1.6%	2.6%	0.0%	0.0%	1.2%	2.0%
Observations (n)	6	6	81	81	18	18	99	99

Note: This table represents the distribution of rim joist interior insulation type by area. The number of observations equals the number of rim joist segments with known insulation values defined in the data. More than one rim joist segment may be defined per home. Each segment includes an indication of the percentage of rim joist area it accounts for in that home, which was applied to each segment in calculating the percentage of each type of insulation.

[a] Shaded cells indicate results that cannot be considered representative because of the small sample size for new homes site visits in Climate Zone 4.

[b] The EPS and spray foam - combo insulation types were not represented in the equivalent table in the 2015 RSBS.

Source: On-site fields: ['Interior or Cavity Insulation Type', 'Percentage of Surface Type', 'Climate Zone'].

TABLE 177. WINDOW GLAZING BY CLIMATE ZONE (SITE)
COMPARE WITH TABLE 139, VOLUME 5, IN 2015 RSBS.

Window Glazing	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Double	55.1%	4.3%	47.1%	3.3%	43.3%	5.7%	50.7%	2.7%
Double Low-E	33.8%	4.2%	29.8%	3.2%	48.9%	6.0%	34.5%	2.6%
Single with Storm Windows	7.7%	2.1%	15.4%	2.3%	4.4%	1.9%	9.9%	1.4%
Single	3.3%	1.2%	2.8%	0.7%	3.1%	1.9%	3.1%	0.7%
Triple Low-E	0.0%	0.0%	2.8%	1.4%	0.3%	0.4%	1.0%	0.5%
Glass Block	0.1%	0.1%	1.9%	0.5%	0.0%	0.0%	0.7%	0.2%
Triple	0.0%	0.0%	0.2%	0.2%	0.0%	0.0%	0.1%	0.1%
Jalousie[a]	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Window Area in Square Feet (n)	22,667	22,667	65,829	65,829	20,833	20,833	109,329	109,329

Note: This table shows the distribution of window glazing based on window area. Comparisons to the values of the corresponding table in the 2015 RSBS may not be valid because the 2015 RSBS values were calculated by window count.
[a] The jalousie window type was not represented in the corresponding table in the 2015 RSBS.

Source: On-site fields: ['Window Size', 'Number of Windows or Doors', 'Window Glazing', 'Climate Zone'].

TABLE 178. EXISTING HOMES: WINDOW GLAZING BY CLIMATE ZONE (SITE)

COMPARE WITH TABLE 140, VOLUME 5, IN 2015 RSBS.

Window Glazing	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Double	55.1%	4.3%	47.4%	3.4%	43.6%	5.8%	50.9%	2.7%
Double Low-E	33.8%	4.2%	29.2%	3.2%	48.7%	6.1%	34.3%	2.6%
Single with Storm Windows	7.7%	2.1%	15.6%	2.4%	4.4%	2.0%	9.9%	1.4%
Single	3.3%	1.2%	2.8%	0.7%	3.1%	1.9%	3.1%	0.7%
Triple Low-E	0.0%	0.0%	2.8%	1.4%	0.2%	0.3%	1.0%	0.5%
Glass Block	0.1%	0.1%	2.0%	0.5%	0.0%	0.0%	0.7%	0.2%
Triple	0.0%	0.0%	0.2%	0.2%	0.0%	0.0%	0.1%	0.1%
Jalousie[a]	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Window Area in Square Feet (n)	22,667	22,667	45,688	45,688	15,411	15,411	83,767	83,767

Note: This table shows the distribution of window glazing based on window area. Comparisons to the values of the corresponding table in the 2015 RSBS may not be valid because the 2015 RSBS values were calculated by window count.
[a] The jalousie window type was not represented in the corresponding table in the 2015 RSBS.

Source: On-site fields: ['Window Size', 'Number of Windows or Doors', 'Window Glazing', 'Climate Zone'].

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TABLE 179. NEW HOMES: WINDOW GLAZING BY CLIMATE ZONE (SITE)

COMPARE WITH TABLE 141, VOLUME 5, IN 2015 RSBS.

Window Glazing	Climate Zone 4[a]		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Double Low-E	86.2%	8.3%	78.5%	7.0%	76.4%	15.4%	78.0%	6.5%
Double	13.8%	8.3%	17.8%	6.7%	9.8%	9.9%	15.9%	5.6%
Triple Low-E	0.0%	0.0%	3.7%	2.7%	13.7%	12.8%	6.1%	3.8%
Window Area in Square Feet (n)	1,264	1,264	20,141	20,141	5,421	5,421	25,562	25,562

Note: This table shows the distribution of window glazing based on window area. Comparisons to the values of the corresponding table in the 2015 RSBS may not be valid because the 2015 RSBS values were calculated by window count.
[a] Shaded cells indicate results that cannot be considered representative because of the small sample size for new homes site visits in Climate Zone 4.

Source: On-site fields: ['Window Size', 'Number of Windows or Doors', 'Window Glazing', 'Climate Zone'].

TABLE 180. WINDOW CONDITION BY CLIMATE ZONE (SITE)

COMPARE WITH TABLE 142, VOLUME 5, IN 2015 RSBS.

Overall Window Condition	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Good	68.1%	4.0%	75.5%	2.6%	64.3%	5.5%	70.1%	2.4%
Fair	26.3%	3.9%	19.3%	2.4%	31.8%	5.4%	24.7%	2.3%
Poor	5.6%	1.7%	5.2%	1.2%	3.9%	2.1%	5.2%	1.0%
Window Area in Square Feet (n)	22,625	22,625	65,786	65,786	20,833	20,833	109,244	109,244

Note: This table shows window condition based on window area. Comparisons to the values of the corresponding table in the 2015 RSBS may not be valid because the 2015 RSBS values were calculated by window count.

Source: On-site fields: ['Window Size', 'Number of Windows or Doors', 'Window Glazing', 'Climate Zone'].

TABLE 181. EXISTING HOMES: WINDOW CONDITION BY CLIMATE ZONE (SITE)
COMPARE WITH TABLE 143, VOLUME 5, IN 2015 RSBS.

Overall Window Condition	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Good	68.1%	4.0%	75.2%	2.7%	64.0%	5.6%	69.9%	2.4%
Fair	26.3%	3.9%	19.5%	2.5%	32.1%	5.4%	24.8%	2.3%
Poor	5.6%	1.7%	5.3%	1.2%	3.9%	2.2%	5.3%	1.0%
Window Area in Square Feet (n)	22,625	22,625	45,645	45,645	15,411	15,411	83,682	83,682

Note: This table shows window condition based on window area. Comparisons to the values of the corresponding table in the 2015 RSBS may not be valid because the 2015 RSBS values were calculated by window count.

Source: On-site fields: ['Window Size', 'Number of Windows or Doors', 'Window Glazing', 'Climate Zone'].

TABLE 182. WINDOW FRAME TYPE BY CLIMATE ZONE (SITE)
COMPARE WITH TABLE 145, VOLUME 5, IN 2015 RSBS.

Window Frame Type	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Vinyl	56.4%	4.3%	54.2%	3.4%	54.8%	5.9%	55.4%	2.7%
Wood	35.5%	4.2%	39.0%	3.3%	42.1%	5.9%	37.6%	2.6%
Metal	8.0%	2.1%	2.8%	0.8%	1.6%	1.1%	5.4%	1.1%
Fiberglass	0.0%	0.0%	3.5%	2.0%	0.1%	0.1%	1.2%	0.7%
Metal with Thermal Break	0.0%	0.0%	0.4%	0.4%	1.5%	1.3%	0.3%	0.2%
Window Area in Square Feet (n)	22,530	22,530	64,929	64,929	20,833	20,833	108,292	108,292

Note: This table shows the distribution of window frame type based on window area. Comparisons to the values of the corresponding table in the 2015 RSBS may not be valid because the 2015 RSBS values were calculated by window count.

Source: On-site fields: ['Window Size', 'Number of Windows or Doors', 'Window Glazing', 'Climate Zone'].

TABLE 183. EXISTING HOMES: WINDOW FRAME TYPE BY CLIMATE ZONE (SITE)
COMPARE WITH TABLE 146, VOLUME 5, IN 2015 RSBS.

Window Frame Type	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Vinyl	56.4%	4.3%	54.1%	3.4%	54.4%	6.0%	55.4%	2.7%
Wood	35.5%	4.2%	39.0%	3.3%	42.5%	5.9%	37.7%	2.6%
Metal	8.0%	2.1%	2.9%	0.8%	1.6%	1.1%	5.4%	1.1%
Fiberglass	0.0%	0.0%	3.5%	2.0%	0.0%	0.1%	1.2%	0.7%
Metal with Thermal Break	0.0%	0.0%	0.4%	0.4%	1.5%	1.4%	0.4%	0.2%
Window Area in Square Feet (n)	22,530	22,530	44,788	44,788	15,411	15,411	82,729	82,729

Note: This table shows the distribution of window frame type based on window area. Comparisons to the values of the corresponding table in the 2015 RSBS may not be valid because the 2015 RSBS values were calculated by window count.

Source: On-site fields: ['Window Size', 'Number of Windows or Doors', 'Window Glazing', 'Climate Zone'].

TABLE 184. STORM WINDOWS PRESENCE BY AGE OF HOME (SITE)

COMPARE WITH TABLE 147, VOLUME 5, IN 2015 RSBS.

Home Age	Exterior		Interior		None		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Less than 2 Years	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.1%	0.0%
2 to 4 Years	0.0%	0.0%	0.0%	0.0%	0.5%	0.1%	0.4%	0.1%
5 to 14 Years	0.2%	0.2%	0.0%	0.0%	8.5%	1.9%	7.5%	1.6%
15 to 24 Years	0.1%	0.1%	0.0%	0.0%	6.7%	1.4%	5.9%	1.2%
25 to 34 Years	0.5%	0.5%	0.0%	0.0%	8.7%	1.4%	7.7%	1.2%
35 to 44 Years	6.0%	2.8%	6.0%	6.7%	5.1%	0.9%	5.3%	0.9%
45 to 54 Years	3.8%	2.0%	23.9%	13.2%	12.8%	1.9%	11.9%	1.7%
55 to 64 Years	11.8%	5.3%	24.6%	14.2%	14.1%	1.9%	13.9%	1.8%
65 to 74 Years	6.6%	3.0%	1.8%	2.2%	7.2%	1.3%	7.1%	1.2%
75 Years or More	71.1%	6.4%	43.7%	16.9%	36.1%	2.9%	40.2%	2.7%
Window Area in Square Feet (n)	10,246	10,246	784	784	98,299	98,299	109,329	109,329

Note: This table shows the distribution of storm windows of each type (including none) by home age. Comparisons to the values of the corresponding table in the 2015 RSBS may not be valid because the 2015 RSBS values were calculated by window count.

Source: On-site fields: ['Year Building Built', 'Window Size', 'Number of Windows or Doors', 'Storm Windows'].

TABLE 185. EXISTING HOMES: STORM WINDOW PRESENCE BY AGE OF HOME (SITE)

COMPARE WITH TABLE 148, VOLUME 5, IN 2015 RSBS.

Home Age	Exterior		Interior		None		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
5 to 14 Years	0.2%	0.2%	0.0%	0.0%	8.6%	1.9%	7.6%	1.6%
15 to 24 Years	0.1%	0.1%	0.0%	0.0%	6.8%	1.4%	6.0%	1.2%
25 to 34 Years	0.5%	0.5%	0.0%	0.0%	8.7%	1.4%	7.7%	1.3%
35 to 44 Years	6.0%	2.8%	6.0%	6.7%	5.2%	0.9%	5.3%	0.9%
45 to 54 Years	3.8%	2.0%	23.9%	13.2%	12.9%	1.9%	11.9%	1.7%
55 to 64 Years	11.8%	5.3%	24.6%	14.2%	14.2%	1.9%	14.0%	1.8%
65 to 74 Years	6.6%	3.0%	1.8%	2.2%	7.3%	1.3%	7.2%	1.2%
75 Years or More	71.1%	6.4%	43.7%	16.9%	36.3%	2.9%	40.4%	2.7%
Window Area in Square Feet (n)	10,246	10,246	784	784	72,737	72,737	83,767	83,767

Note: This table shows the distribution of storm windows of each type (including none) by home age. Comparisons to the values of the corresponding table in the 2015 RSBS may not be valid because the 2015 RSBS values were calculated by window count.

Source: On-site fields: ['Year Building Built', 'Window Size', 'Number of Windows or Doors', 'Storm Windows'].

TABLE 186. AVERAGE WINDOW SIZE BY CLIMATE ZONE (SITE)

COMPARE WITH TABLE 150, VOLUME 5, IN 2015 RSBS.

Window Size (sq ft)	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	Mean	EB	Mean	EB	Mean	EB	Mean	EB
Mean	11.5▼	0.5	10.9▼	0.3	11.7	0.5	11.3▼	0.3
Windows (n)	1,977	1,977	5,541	5,541	1,701	1,701	9,219	9,219

Source: On-site fields: ['Number of Windows or Doors', 'Window Size', 'Climate Zone'].

TABLE 187. AVERAGE NUMBER OF WINDOWS BY CLIMATE ZONE (SITE)
COMPARE WITH TABLE 152, VOLUME 5, IN 2015 RSBS.

Number of Windows	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	Mean	EB	Mean	EB	Mean	EB	Mean	EB
Mean	26.3	2.1	23.5	1.0	22.1	1.8	24.6	1.1
Windows (n)	2,239	2,239	6,391	6,391	1,994	1,994	10,624	10,624

Note: Results cannot be meaningfully compared to 2015 RSBS results because of apparent differences in methodology.

Source: On-site fields: ['Number of Windows or Doors', 'Climate Zone'].

TABLE 188. AVERAGE NUMBER OF WINDOWS BY HOME VINTAGE (SITE)
COMPARE WITH TABLE 153, VOLUME 5, IN 2015 RSBS.

Number of Windows	Existing Homes		New Homes		Overall Statewide	
	Mean	EB	Mean	EB	Mean	EB
Mean	24.7	1.1	22.0	1.5	24.6	1.1
Windows (n)	8,637	8,637	1,987	1,987	10,624	10,624

Note: Results cannot be meaningfully compared to 2015 RSBS results because of apparent differences in methodology.

Source: On-site fields: ['Number of Windows or Doors', 'Construction Type'].

TABLE 189. AVERAGE U-FACTOR OF WINDOWS BY CLIMATE ZONE (SITE)
COMPARE WITH TABLE 154, VOLUME 5, IN 2015 RSBS.

U-Factor	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	Mean	EB	Mean	EB	Mean	EB	Mean	EB
Mean	0.42	0.01	0.40	0.01	0.40	0.01	0.41	0.01
Window Square Feet (n)	22,520	22,520	65,038	65,038	20,833	20,833	108,391	108,391

Note: Documentation of window U-factor was generally not available during site visits. U-factor values were inferred where practical from National Renewable Energy Laboratory database values based on windows frame and glazing. Methodology may differ from that of the 2015 RSBS.

Source: On-site fields: ['Final Window U-Value', 'Number of Windows or Doors', 'Window Size', 'Climate Zone'].

TABLE 190. AVERAGE U-FACTOR OF WINDOWS BY HOME VINTAGE (SITE)
COMPARE WITH TABLE 155, VOLUME 5, IN 2015 RSBS.

U-Factor	Existing Homes		New Homes		Overall Statewide	
	Mean	EB	Mean	EB	Mean	EB
Mean	0.41	0.01	0.32	0.01	0.41	0.01
Window Square Feet (n)	82,829	82,829	25,562	25,562	108,391	108,391

Note: Documentation of window U-factor was generally not available during site visits. U-factor values were inferred where practical from National Renewable Energy Laboratory database values based on windows frame and glazing. Methodology may differ from that of the 2015 RSBS.

Source: On-site fields: ['Final Window U-Value', 'Number of Windows or Doors', 'Window Size', 'Construction Type'].

TABLE 191. DOOR MATERIAL BY CLIMATE ZONE (SITE)
COMPARE WITH TABLE 156, VOLUME 5, IN 2015 RSBS.

Door Material	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Steel with Glazing	23.3%▲	5.3%	26.7%▲	3.9%	37.7%▲	7.0%	26.9%▲	3.1%
Wood with Glazing	21.4%	5.0%	22.8%	3.9%	20.2%	6.2%	21.7%▼	2.9%
Steel	11.8%	4.2%	12.3%▲	2.7%	11.6%▲	4.0%	12.0%▲	2.3%
Sliding Glass	10.7%	3.9%	10.0%▼	2.8%	12.0%	5.8%	10.7%▼	2.3%
Steel Foam Filled	12.6%	4.0%	6.8%▼	2.1%	2.7%▼	1.7%	8.8%	2.1%
Wood	9.5%	3.6%	7.9%	2.3%	4.3%▼	2.2%	8.1%	1.9%
Fiberglass with Glazing	5.0%	2.4%	5.7%	1.7%	5.3%	2.6%	5.3%	1.4%
Wood Panel	3.8%	3.0%	3.3%	1.3%	0.5%▼	0.7%	3.1%	1.5%
Vinyl with Glazing	1.1%▼	1.4%	2.4%	1.3%	3.0%	2.3%	1.9%▼	0.9%
Fiberglass	0.8%	0.9%	1.6%	0.8%	2.2%	1.9%	1.3%	0.6%
Vinyl	0.0%	0.0%	0.3%	0.5%	0.4%▼	0.7%	0.2%▼	0.2%
French Door[a]	0.0%	0.0%	0.2%	0.3%	0.0%	0.0%	0.1%	0.1%
Doors (n)	262	262	850	850	293	293	1,405	1,405

Note: This table shows the distribution of door material based on door count.
[a] The French door type was not represented in the corresponding table of the 2015 RSBS.

Source: On-site fields: ['Number of Windows or Doors', 'Door Material', 'Climate Zone'].

TABLE 192. EXISTING HOMES: DOOR MATERIAL BY CLIMATE ZONE (SITE)
COMPARE WITH TABLE 157, VOLUME 5, IN 2015 RSBS.

Door Material	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Steel with Glazing	23.3%▲	5.3%	27.0%▲	4.0%	37.9%▲	7.0%	27.0%▲	3.1%
Wood with Glazing	21.4%	5.0%	22.9%	3.9%	20.3%	6.2%	21.7%▼	2.9%
Steel	11.8%	4.2%	12.4%▲	2.7%	11.6%▲	4.1%	12.0%▲	2.3%
Sliding Glass	10.7%	3.9%	10.0%▼	2.9%	12.1%	5.9%	10.7%▼	2.3%
Steel Foam Filled	12.6%	4.0%	6.5%▼	2.1%	2.6%▼	1.7%	8.8%	2.1%
Wood	9.5%	3.6%	7.9%	2.3%	4.3%▼	2.2%	8.1%	1.9%
Fiberglass with Glazing	5.0%	2.4%	5.6%	1.7%	5.2%	2.6%	5.2%	1.4%
Wood Panel	3.8%	3.0%	3.3%	1.3%	0.4%▼	0.7%	3.1%	1.5%
Vinyl with Glazing	1.1%▼	1.4%	2.4%	1.3%	3.0%	2.3%	1.9%▼	0.9%
Fiberglass	0.8%	0.9%	1.6%	0.8%	2.2%	1.9%	1.3%	0.6%
Vinyl	0.0%	0.0%	0.3%	0.5%	0.4%▼	0.7%	0.2%▼	0.2%
French Door[a]	0.0%	0.0%	0.2%	0.3%	0.0%	0.0%	0.1%	0.1%
Doors (n)	262	262	630	630	232	232	1,124	1,124

Note: This table shows the distribution of door material based on door count.
[a] The French door type was not represented in the corresponding table of the 2015 RSBS.

Source: On-site fields: ['Number of Windows or Doors', 'Door Material', 'Climate Zone'].

TABLE 193. NEW HOMES: DOOR MATERIAL BY CLIMATE ZONE (SITE)

COMPARE WITH TABLE 158, VOLUME 5, IN 2015 RSBS.

Door Material	Climate Zone 4[a]		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Steel Foam Filled	**30.0%**	**20.4%**	31.4%	7.1%	23.0%	12.2%	29.3%	6.1%
Sliding Glass	**36.7%**	**23.7%**	12.3%▼	5.1%	6.6%▼	6.5%	10.8%▼	4.2%
Wood with Glazing	**30.0%**	**21.1%**	13.2%	5.7%	13.1%	9.0%	13.2%	4.8%
Fiberglass with Glazing	**0.0%**	**0.0%**	16.4%	6.2%	27.9%	13.9%	19.2%	5.9%
Fiberglass	**0.0%**	**0.0%**	6.4%	3.1%	8.2%	6.1%	6.8%	2.8%
Steel with Glazing	**3.3%**	**5.7%**	2.7%▼	2.1%	9.8%	8.3%	4.5%▼	2.6%
Wood	**0.0%**	**0.0%**	6.8%	4.4%	3.3%	3.9%	5.9%	3.4%
Steel	**0.0%**	**0.0%**	5.0%	3.0%	1.6%▼	2.7%	4.2%	2.4%
Vinyl with Glazing	**0.0%**	**0.0%**	4.1%	2.9%	3.3%	5.4%	3.9%	2.5%
Wood Panel	**0.0%**	**0.0%**	1.4%	1.3%	3.3%	5.4%	1.8%	1.7%
Vinyl	**0.0%**	**0.0%**	0.5%▼	0.8%	0.0%	0.0%	0.3%▼	0.6%
Doors (n)	30	30	220	220	61	61	281	281

Note: This table shows the distribution of door material based on door count.
[a] These results cannot be considered representative because of the small sample size for new homes site visits in Climate Zone 4.

Source: On-site fields: ['Number of Windows or Doors', 'Door Material', 'Climate Zone'].

TABLE 194. INSTALLATION QUALITY OF DOOR WEATHERSTRIPPING (SITE)

COMPARE WITH TABLE 48, VOLUME 1, IN 2015 RSBS.

Installation Quality	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Good	45.8%	6.2%	54.7%	4.4%	47.3%	7.3%	49.3%	3.5%
Fair	34.7%	6.1%	25.1%	4.0%	38.6%▲	6.9%	31.9%▲	3.4%
Poor	14.1%	4.1%	10.2%	2.6%	10.7%	4.4%	12.1%	2.3%
None	5.3%▼	2.6%	9.9%	2.6%	3.4%	2.2%	6.7%	1.6%
Doors (n)	262	262	850	850	293	293	1,405	1,405

Note: This table shows the distribution of door weatherstripping quality based on door count.

Source: On-site fields: ['Number of Windows or Doors', 'Door Weather Stripping', 'Climate Zone'].

TABLE 195. NEW HOMES: INSTALLATION QUALITY OF DOOR WEATHERSTRIPPING (SITE)

COMPARE WITH TABLE 49, VOLUME 1, IN 2015 RSBS.

Installation Quality	Climate Zone 4[a]		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Good	**100.0%**	**0.0%**	98.2%	1.5%	91.8%	8.7%	96.6%	2.5%
None	**0.0%**	**0.0%**	0.9%	1.1%	0.0%	0.0%	0.7%	0.8%
Fair	**0.0%**	**0.0%**	0.5%▼	0.8%	6.6%	8.3%	2.0%	2.2%
Poor	**0.0%**	**0.0%**	0.5%	0.8%	1.6%	2.7%	0.8%	0.9%
Doors (n)	30	30	220	220	61	61	281	281

Note: This table shows the distribution of door weatherstripping quality based on door count.
[a] These results cannot be considered representative because of the small sample size for new homes site visits in Climate Zone 4.

Source: On-site fields: ['Number of Windows or Doors', 'Door Weather Stripping', 'Climate Zone'].

TABLE 196. AVERAGE NUMBER OF LIGHT BULBS USED TWO OR MORE HOURS PER DAY INSIDE HOME BY CLIMATE ZONE (SURVEY)

COMPARE WITH TABLE 50, VOLUME 1, IN 2015 RSBS.

Lamp Type	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	Mean	EB	Mean	EB	Mean	EB	Mean	EB
CFLs and LEDs	11.3▲	0.8	8.3▲	0.4	9.0▲	0.7	9.8▲	0.4
Incandescent	2.4▼	0.4	2.9	0.3	2.6	0.4	2.6▼	0.2
Other	0.9▼	0.2	0.9▼	0.2	1.0	0.2	0.9▼	0.1
Respondents (n)	473	473	1,173	1,173	467	467	2,113	2,113

Source: Survey fields: ['CFL Bulbs Inside Home', 'LED Bulbs Inside Home', 'Incandescent Bulbs Inside', 'Other Bulbs Inside Home', 'Climate Zone'].

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TABLE 197. AVERAGE NUMBER OF INTERIOR LIGHT BULBS USED TWO OR MORE HOURS PER DAY BY BULB TYPE AND CLIMATE ZONE (SURVEY)

THIS TABLE IS NEW WITH THE 2019 RBSA.

Lamp Type	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	Mean	EB	Mean	EB	Mean	EB	Mean	EB
LEDs[a]	7.9	0.8	5.2	0.4	5.8	0.6	6.6	0.4
CFLs[a]	3.4	0.4	3.1	0.3	3.2	0.4	3.3	0.2
Incandescent	2.4▼	0.4	2.9	0.3	2.6	0.4	2.6▼	0.2
Other Bulbs	0.9▼	0.2	0.9▼	0.2	1.0	0.2	0.9▼	0.1
Respondents (n)	473	473	1,173	1,173	467	467	2,113	2,113

[a] *Results for CFL and LED bulbs cannot be directly compared to results in the 2015 RSBS.*

Source: Survey fields: ['CFL Bulbs Inside Home', 'LED Bulbs Inside Home', 'Incandescent Bulbs Inside', 'Other Bulbs Inside Home', 'Climate Zone'].

TABLE 198. DISTRIBUTION OF BULB TYPE BY CLIMATE ZONE, WITH CFL AND LED COMBINED (SITE)

COMPARE WITH TABLE 51, VOLUME 1, IN 2015 RSBS.

Lamp Type	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
CFL/LED[a]	57.1%▲	2.7%	45.3%▲	1.8%	53.0%▲	3.2%	52.4%▲	1.6%
Inefficient[b]	32.7%▼	2.5%	44.5%▼	1.9%	36.3%▼	3.0%	37.3%▼	1.5%
Linear Fluorescent[c]	8.3%	1.6%	8.4%	1.4%	9.3%	2.1%	8.5%	1.0%
Other[c]	1.9%	0.9%	1.9%	1.0%	1.4%	1.8%	1.8%	0.6%
Lamps (n)	6,885	6,885	19,760	19,760	6,076	6,076	32,721	32,721

[a] *CFL and LED bulb types are combined to allow comparisons with the 2015 RSBS.*
[b] *Inefficient bulbs include conventional incandescent and halogen bulbs.*
[c] *Linear fluorescent and other bulb types shown here cannot be directly compared to bulb types defined in the corresponding 2015 RSBS table.*

Source: On-site fields: ['Number of Linear Fluorescent Bulbs', 'Number of LED Bulbs', 'Number of CFL Bulbs', 'Number of Inefficient Bulbs', 'Number of Other Light Bulbs', 'Climate Zone'].

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TABLE 199. DISTRIBUTION OF BULB TYPE BY CLIMATE ZONE (SITE)
COMPARE WITH TABLE 51, VOLUME 1, IN 2015 RSBS.

Lamp Type	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Inefficient[a]	32.7%▼	2.5%	44.5%▼	1.9%	36.3%▼	3.0%	37.3%▼	1.5%
LED	37.8%	2.8%	27.6%	1.6%	36.1%	3.0%	34.0%	1.6%
CFL	19.3%	2.1%	17.6%	1.2%	16.9%	2.1%	18.4%	1.2%
Linear Fluorescent	8.3%	1.6%	8.4%	1.4%	9.3%	2.1%	8.5%	1.0%
Other	1.9%	0.9%	1.9%	1.0%	1.4%	1.8%	1.8%	0.6%
Lamps (n)	6,885	6,885	19,760	19,760	6,076	6,076	32,721	32,721

[a] *Inefficient bulbs include conventional incandescent and halogen bulbs. In this table, only results for the inefficient bulb type can be directly compared to results in the corresponding 2015 RSBS table.*

Source: On-site fields: ['Number of Linear Fluorescent Bulbs', 'Number of LED Bulbs', 'Number of CFL Bulbs', 'Number of Inefficient Bulbs', 'Number of Other Light Bulbs', 'Climate Zone'].

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TABLE 200. DISTRIBUTION OF BULB TYPE BY HOME VINTAGE, WITH CFL AND LED COMBINED (SITE)

COMPARE WITH TABLE 52, VOLUME 1, IN 2015 RSBS.

Lamp Type	Existing Homes		New Homes		Overall Statewide	
	%	EB	%	EB	%	EB
CFL/LED[a]	52.3%▲	1.6%	78.8%▲	2.2%	52.4%▲	1.6%
Inefficient[b]	37.4%▼	1.5%	16.0%▼	1.9%	37.3%▼	1.5%
Linear Fluorescent[c]	8.5%	1.0%	2.0%	0.8%	8.5%	1.0%
Other[c]	1.8%	0.7%	3.2%	0.8%	1.8%	0.6%
Lamps (n)	26,042	26,042	6,679	6,679	32,721	32,721

[a] *CFL and LED bulb types are combined to allow comparisons with the 2015 RSBS.*
[b] *Inefficient bulbs include conventional incandescent and halogen bulbs.*
[c] *Linear fluorescent and other bulb types shown here cannot be directly compared to bulb types in the corresponding 2015 RSBS table.*

Source: On-site fields: ['Number of Linear Fluorescent Bulbs', 'Number of LED Bulbs', 'Number of CFL Bulbs', 'Number of Inefficient Bulbs', 'Number of Other Light Bulbs', 'Construction Type'].

TABLE 201. DISTRIBUTION OF BULB TYPE BY HOME VINTAGE (SITE)

COMPARE WITH TABLE 52, VOLUME 1, IN 2015 RSBS.

Lamp Type	Existing Homes		New Homes		Overall Statewide	
	%	EB	%	EB	%	EB
Inefficient[a]	37.4%▼	1.5%	16.0%▼	1.9%	37.3%▼	1.5%
LED	33.9%	1.6%	62.3%	2.6%	34.0%	1.6%
CFL	18.4%	1.2%	16.5%	1.9%	18.4%	1.2%
Linear Fluorescent	8.5%	1.0%	2.0%	0.8%	8.5%	1.0%
Other	1.8%	0.7%	3.2%	0.8%	1.8%	0.6%
Lamps (n)	26,042	26,042	6,679	6,679	32,721	32,721

[a] *Inefficient bulbs include conventional incandescent and halogen bulbs. In this table, only results for the Inefficient bulb type can be directly compared to results in the corresponding 2015 RSBS table.*

Source: On-site fields: ['Number of Linear Fluorescent Bulbs', 'Number of LED Bulbs', 'Number of CFL Bulbs', 'Number of Inefficient Bulbs', 'Number of Other Light Bulbs', 'Construction Type'].

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TABLE 202. EXISTING HOMES: BULB TYPE BY ROOM (SITE)

COMPARE WITH TABLE 53, VOLUME 1, IN 2015 RSBS.

Room Type	CFL		Inefficient[a]		LED		Linear Fluorescent		Other	
	%	EB	%	EB	%	EB	%	EB	%	EB
Attic[b]	23%	13%	60%	19%	13%	15%	5%	8%	0%	0%
Bathroom	18%	3%	46%	4%	34%	4%	1%	0%	0%	0%
Bedroom	24%	3%	39%	3%	32%	3%	3%	1%	2%	2%
Bulbs in Storage[b]	24%	8%	39%	10%	32%	9%	5%	6%	0%	0%
Closet	20%	7%	36%	8%	21%	6%	23%	11%	0%	0%
Den/Office	19%	5%	39%	7%	32%	7%	9%	4%	0%	1%
Dining Room	9%	3%	47%	7%	40%	8%	1%	1%	3%	2%
Entryway	16%	5%	53%	9%	28%	8%	1%	1%	2%	2%
Exterior	15%	3%	45%	6%	31%	6%	1%	1%	9%	6%
Garage	16%	5%	28%	6%	19%	5%	36%	9%	1%	1%
Hallway	24%	6%	36%	6%	38%	6%	1%	0%	1%	1%
Kitchen	12%	3%	32%	5%	44%	5%	8%	2%	3%	3%
Laundry	20%	7%	24%	10%	30%	10%	26%	9%	0%	0%
Living Room	21%	4%	38%	5%	39%	5%	1%	1%	1%	0%
Other[b]	37%	32%	23%	17%	32%	20%	8%	8%	0%	0%
Utility	16%	3%	24%	4%	26%	5%	34%	5%	0%	0%
Overall Statewide	18%	1%	37%	2%	34%	2%	9%	1%	2%	1%

[a] Inefficient bulbs include conventional incandescent and halogen bulbs. In this table, only results for the inefficient bulb type can be directly compared to results in the corresponding 2015 RSBS table.
[b] Bulb types for attic, bulbs in storage, and other room types cannot be directly compared to 2015 RSBS results.

Source: On-site fields: ['Location of Lighting Unit', 'Number of Linear Fluorescent Bulbs', 'Number of LED Bulbs', 'Number of CFL Bulbs', 'Number of Inefficient Bulbs', 'Number of Other Light Bulbs'].

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TABLE 203. NEW HOMES: BULB TYPE BY ROOM (SITE)

COMPARE WITH TABLE 54, VOLUME 1, IN 2015 RSBS.

Room Type	CFL		Inefficient[a]		LED		Linear Fluorescent		Other	
	%	EB	%	EB	%	EB	%	EB	%	EB
Attic[b]	46.8%	63.5%	0.0%	0.0%	53.2%	63.5%	0.0%	0.0%	0.0%	0.0%
Bathroom	16.2%	5.3%	17.4%	5.7%	65.6%	7.2%	0.0%	0.0%	0.8%	0.6%
Bedroom	22.2%	5.2%	17.2%	4.7%	57.3%	6.4%	0.1%	0.2%	3.2%	1.4%
Bulbs in Storage[b]	0.0%	0.0%	37.2%	0.0%	62.8%	0.0%	0.0%	0.0%	0.0%	0.0%
Closet	29.2%	12.7%	3.0%	2.6%	55.1%	12.4%	12.8%	6.7%	0.0%	0.0%
Den/Office	20.0%	8.7%	11.1%	6.2%	63.8%	11.3%	0.0%	0.0%	5.1%	3.3%
Dining Room	18.7%	8.7%	19.8%	9.4%	59.3%	11.3%	0.0%	0.0%	2.3%	1.7%
Entryway	15.8%	8.5%	20.5%	10.0%	57.4%	12.2%	0.4%	0.6%	5.9%	7.5%
Exterior	8.9%	4.5%	20.2%	8.0%	63.9%	10.3%	0.0%	0.0%	7.1%	6.8%
Garage	24.1%	9.8%	11.0%	5.3%	54.1%	11.2%	9.5%	7.1%	1.3%	1.3%
Hallway	20.7%	7.5%	10.9%	5.7%	66.5%	9.0%	0.4%	0.5%	1.5%	1.8%
Kitchen	10.1%	4.2%	15.9%	5.6%	68.1%	6.9%	1.0%	0.9%	5.0%	2.3%
Laundry	24.5%	10.2%	9.6%	6.3%	63.4%	11.1%	1.5%	1.8%	0.9%	1.5%
Living Room	11.4%	4.7%	16.5%	6.3%	66.5%	7.9%	1.3%	2.1%	4.3%	2.0%
Other[b]	8.5%	6.7%	3.5%	4.7%	59.7%	21.4%	15.8%	22.6%	12.5%	13.3%
Utility	16.5%	1.9%	16.0%	1.9%	62.3%	2.6%	2.0%	0.8%	3.2%	0.8%
Overall Statewide	17.4%	7.0%	19.3%	6.9%	57.4%	9.7%	4.9%	3.0%	1.0%	1.3%

[a] *Inefficient bulbs include conventional incandescent and halogen bulbs. In this table, only results for the Inefficient bulb type can be directly compared to results in the corresponding 2015 RSBS table.*
[b] *Bulbs types for attic, bulbs in storage, and other room types cannot be directly compared to 2015 RSBS results.*

Source: On-site fields: ['Location of Lighting Unit', 'Number of Linear Fluorescent Bulbs', 'Number of LED Bulbs', 'Number of CFL Bulbs', 'Number of Inefficient Bulbs', 'Number of Other Light Bulbs'].

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TABLE 204. COOKING AND CLOTHES DRYING FUEL USE BY CLIMATE ZONE (SURVEY)
COMPARE WITH TABLE 56, VOLUME 1, IN 2015 RSBS.

Appliance Type		Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
		%	EB	%	EB	%	EB	%	EB
Clothes Dryer	Electricity	41.2%▼	3.7%	59.4%▼	2.7%	78.4%	3.4%	53.9%▼	2.1%
	Natural Gas	57.9%▲	3.7%	37.2%▲	2.7%	14.0%	2.9%	43.2%▲	2.2%
	Propane	0.7%▼	0.6%	3.3%	1.0%	7.7%	2.2%	2.8%▼	0.6%
	Other	0.2%	0.3%	0.0%	0.0%	0.0%	0.0%	0.1%	0.2%
	Respondents (n)	509	509	1,283	1,283	513	513	2,305	2,305
Oven Fuel	Natural Gas	64.9%	3.7%	43.1%	2.8%	26.0%	3.7%	50.7%	2.2%
	Electricity	27.6%	3.4%	47.0%	2.8%	50.6%	4.3%	38.4%	2.1%
	Electricity and Natural Gas[a]	5.5%	1.7%	3.6%	1.1%	1.6%	1.1%	4.2%	0.9%
	Propane	1.3%▼	0.9%	5.5%▼	1.3%	19.2%▼	3.3%	5.7%▼	0.9%
	Electricity and Propane[a]	0.0%	0.0%	0.7%	0.5%	1.9%	1.2%	0.6%	0.3%
	Oil	0.7%	0.6%	0.0%	0.0%	0.3%	0.4%	0.4%	0.3%
	Natural Gas and Coal[a]	0.0%	0.0%	0.0%	0.0%	0.3%	0.4%	0.0%	0.1%
	Wood	0.0%	0.0%	0.0%	0.0%	0.3%	0.4%	0.0%	0.1%
	Respondents (n)	489	489	1,213	1,213	482	482	2,184	2,184

[a] *Combined fuel types were not represented in the corresponding 2015 RSBS table.*

Source: Survey fields: ['Fuel for Ovens-Other', 'Fuel for Oven Unit-Other', 'Fuel for Ovens-Electric', 'Fuel for Ovens-Natural Gas', 'Fuel for Ovens-Propane', 'Fuel for Oven Unit-Electricity', 'Fuel for Oven Unit-Natural Gas', 'Fuel for Oven Unit-Propane', 'Climate Zone'].

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TABLE 205. COOKING AND CLOTHES DRYING FUEL USE BY HOME VINTAGE (SURVEY)
COMPARE WITH TABLE 56, VOLUME 1, IN 2015 RSBS.

Appliance Type		Existing Homes		New Homes		Overall Statewide	
		%	EB	%	EB	%	EB
Clothes Dryer	Electricity	53.9%	2.2%	50.5%	5.0%	53.9%▼	2.1%
	Natural Gas	43.2%	2.2%	42.9%	5.2%	43.2%▲	2.2%
	Propane	2.7%	0.6%	6.6%	2.4%	2.8%▼	0.6%
	Other (specify)	0.1%	0.2%	0.0%	0.0%	0.1%	0.2%
	Respondents (n)	1,739	1,739	566	566	2,305	2,305
Oven Fuel	Natural Gas	50.7%	2.2%	47.4%	5.2%	50.7%	2.2%
	Electricity	38.5%	2.1%	29.4%	4.3%	38.4%	2.1%
	Electricity and Natural Gas[a]	4.2%	0.9%	6.0%	3.1%	4.2%	0.9%
	Propane	5.6%	0.9%	16.1%	2.9%	5.7%▼	0.9%
	Electricity and Propane[a]	0.6%	0.3%	1.1%	0.7%	0.6%	0.3%
	Oil	0.4%	0.3%	0.0%	0.0%	0.4%	0.3%
	Wood	0.0%	0.1%	0.0%	0.0%	0.0%	0.1%
	Natural Gas and Coal[a]	0.0%	0.1%	0.0%	0.0%	0.0%	0.1%
	Respondents (n)	1,652	1,652	532	532	2,184	2,184

Note: Only statewide results can be compared with the results from the corresponding 2015 RSBS table.
[a] Combined fuel types were not represented in the corresponding 2015 RSBS table.

Source: Survey fields: ['Clothes Dryer Fuel Type', 'Fuel for Ovens-Other', 'Fuel for Oven Unit-Other', 'Fuel for Ovens-Electric', 'Fuel for Ovens-Natural Gas', 'Fuel for Ovens-Propane', 'Fuel for Oven Unit-Electricity', 'Fuel for Oven Unit-Natural Gas', 'Fuel for Oven Unit-Propane', 'Construction Type'].

TABLE 206. CLOTHES WASHER ENERGY STAR BY CLIMATE ZONE (SITE)
COMPARE WITH TABLE 67, VOLUME 5, IN 2015 RSBS.

ENERGY STAR	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Yes	67.6%▲	9.3%	58.2%▲	6.5%	57.5%	11.1%	62.8%▲	5.4%
No	32.4%	9.3%	41.8%	6.5%	42.5%	11.1%	37.2%	5.4%
Clothes Washers (n)	71	71	212	212	73	73	356	356

Note: This table represents the percentage of clothes washers labeled as ENERGY STAR or that project staff could identify through look-ups as ENERGY STAR certified. Look-ups of older appliances often do not indicate whether they were ENERGY STAR certified when new.

Source: On-site fields: ['Type/Style of Appliance', 'Appliance Energy Star Certified?', 'Number of Appliance Units', 'Climate Zone'].

TABLE 207. CLOTHES WASHER TYPE BY CLIMATE ZONE (SITE)
COMPARE WITH TABLE 183, VOLUME 5, IN 2015 RSBS.

Type	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Top Loading	57.0%	8.9%	65.2%	5.4%	59.9%	9.7%	60.5%	4.9%
Front Loading	36.0%	8.6%	32.8%	5.3%	35.8%	9.4%	34.8%	4.7%
Stacked Washer/Dryer	7.0%	4.6%	1.9%	1.6%	4.2%	4.0%	4.7%	2.3%
Combo Washer and Dryer	0.0%	0.0%	0.0%▼	0.0%	0.0%	0.0%	0.0%▼	0.0%
Clothes Washers (n)	86	86	279	279	92	92	457	457

On-Site fields: ['Type/Style of Appliance', 'Number of Appliance Units', 'Climate Zone']

TABLE 208. AGE OF PRIMARY CLOTHES WASHER BY CLIMATE ZONE (SURVEY)
COMPARE WITH TABLE 68, VOLUME 5, IN 2015 RSBS.

Age	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Less than 2 Years	14.0%▼	2.6%	15.3%	2.0%	17.1%	3.1%	15.0%	1.5%
2 to 4 Years	20.1%▼	3.0%	22.8%	2.3%	21.2%	3.4%	21.3%▼	1.7%
5 to 9 Years	37.2%	3.6%	34.1%	2.6%	33.1%	3.9%	35.4%	2.1%
10 to 14 Years	20.0%▲	3.0%	15.8%	2.0%	19.5%	3.3%	18.4%▲	1.7%
15 to 19 Years	3.7%	1.4%	6.6%	1.4%	4.4%	1.7%	4.9%	0.9%
20 or More Years	5.0%	1.6%	5.4%	1.3%	4.7%	1.8%	5.1%	0.9%
Respondents (n)	519	519	1,287	1,287	507	507	2,313	2,313

Source: Survey fields: ['Age of Clothes Washer', 'Climate Zone'].

TABLE 209. CLOTHES WASHER AGE BY CLIMATE ZONE (SITE)
COMPARE WITH TABLE 185, VOLUME 5, IN 2015 RSBS.

Age	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Less than 2 Years	10.7%▼	5.6%	12.3%	3.7%	11.6%▼	6.3%	11.4%▼	3.1%
2 to 4 Years	14.3%	6.4%	19.0%	4.4%	18.7%	7.7%	16.7%	3.6%
5 to 9 Years	32.1%	8.5%	22.3%▼	4.8%	38.4%	9.6%	29.5%	4.6%
10 to 14 Years	22.6%	7.6%	29.5%	5.2%	14.2%	6.9%	23.9%	4.2%
15 to 19 Years	13.1%	6.1%	12.1%	3.7%	12.7%	6.6%	12.7%	3.3%
20 or More Years	7.1%	4.7%	4.8%	2.5%	4.3%	4.0%	5.8%	2.5%
Clothes Washers (n)	84	84	273	273	92	92	449	449

On-Site fields: ['Appliance Manufacture Year', 'Number of Appliance Units', 'Climate Zone']

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TABLE 210. WATER TEMPERATURE FOR WASH CYCLE OF CLOTHES WASHER BY CLIMATE ZONE (SURVEY)

COMPARE WITH TABLE 69, VOLUME 5, IN 2015 RSBS.

Water Temperature	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Cold	37.8%	3.7%	44.9%	2.8%	49.1%	4.2%	42.2%	2.1%
Warm	56.3%	3.8%	50.2%	2.8%	48.0%	4.2%	52.7%	2.2%
Hot	5.8%	1.8%	4.9%	1.2%	2.9%	1.4%	5.0%	1.0%
Respondents (n)	497	497	1,258	1,258	491	491	2,246	2,246

Source: Survey fields: ['Wash Cycle Water Temperature', 'Climate Zone'].

TABLE 211. WATER TEMPERATURE FOR RINSE CYCLE OF CLOTHES WASHER BY CLIMATE ZONE

COMPARE WITH TABLE 70, VOLUME 5, IN 2015 RSBS.

Water Temperature	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Cold	75.3%	3.4%	79.5%	2.3%	83.5%	3.2%	78.2%	1.9%
Warm	23.6%	3.3%	19.2%	2.2%	15.4%	3.1%	20.6%	1.8%
Hot	1.1%	0.8%	1.3%	0.6%	1.1%	0.9%	1.2%	0.5%
Respondents (n)	469	469	1,217	1,217	478	478	2,164	2,164

Source: Survey fields: ['Rinse Cycle Water Temperature', 'Climate Zone', 'Construction Type'].

TABLE 212. AVERAGE NUMBER OF LOADS/CYCLES PER WEEK BY CLIMATE ZONE (SURVEY)
COMPARE WITH TABLE 186, VOLUME 5, IN 2015 RSBS.

Appliance		Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
		Mean	EB	Mean	EB	Mean	EB	Mean	EB
Clothes Washer	Loads per Week	4.6▼	0.2	4.9▼	0.2	4.7▼	0.2	4.7▼	0.1
	Respondents (n)	526	526	1,280	1,280	517	517	2,323	2,323
Dishwasher	Loads per Week	3.2▼	0.2	3.3▼	0.1	3.2	0.2	3.2▼	0.1
	Respondents (n)	444	444	1,093	1,093	406	406	1,943	1,943

Note: This table includes weekly loads for part-year homes when occupied.

Source: Survey fields: ['Clothes Washer Loads per Week ', 'Clothes Washer Occupied Loads', 'Dishwasher Loads/Week 1', 'Dishwasher Loads/Week 2', 'Climate Zone'].

TABLE 213. PRIMARY CLOTHES DRYER FUEL BY CLIMATE ZONE (SURVEY)
COMPARE WITH TABLE 73, VOLUME 5, IN 2015 RSBS.

Fuel	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Electricity	41.2%▼	3.7%	59.4%▼	2.7%	78.4%	3.4%	53.9%▼	2.1%
Natural Gas	57.9%▲	3.7%	37.2%▲	2.7%	14.0%	2.9%	43.2%▲	2.2%
Propane	0.7%▼	0.6%	3.3%	1.0%	7.7%	2.2%	2.8%▼	0.6%
Other	0.2%	0.3%	0.0%	0.0%	0.0%	0.0%	0.1%	0.2%
Respondents (n)	509	509	1,283	1,283	513	513	2,305	2,305

Source: Survey fields: ['Clothes Dryer Fuel Type', 'Climate Zone'].

TABLE 214. CLOTHES DRYER TYPE BY CLIMATE ZONE (SITE)
COMPARE WITH TABLE 188, VOLUME 5, IN 2015 RSBS.

Dryer Type	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Residential	91.7%	5.0%	98.0%▲	1.6%	95.7%	4.1%	94.7%	2.5%
Stacked Washer/Dryer	7.1%	4.7%	1.9%	1.6%	4.3%	4.1%	4.8%	2.4%
Combo Washer and Dryer	1.2%	2.0%	0.0%▼	0.0%	0.0%	0.0%	0.6%	0.9%
Ventless	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%▼	0.0%
Clothes Dryers (n)	84	84	277	277	90	90	451	451

On-Site fields: ['Type/Style of Appliance', 'Number of Appliance Units', 'Climate Zone']

TABLE 215. AGE OF CLOTHES DRYER BY CLIMATE ZONE (SURVEY)
COMPARE WITH TABLE 74, VOLUME 5, IN 2015 RSBS.

Age	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Less than 2 Years	12.1%▼	2.5%	11.3%	1.8%	10.0%	2.5%	11.5%▼	1.4%
2 to 4 Years	16.7%▼	2.8%	17.8%▼	2.1%	19.4%	3.3%	17.5%▼	1.6%
5 to 9 Years	34.6%	3.6%	36.3%	2.7%	34.3%	4.0%	35.2%	2.1%
10 to 14 Years	23.7%▲	3.3%	17.7%	2.1%	22.7%▲	3.5%	21.3%▲	1.8%
15 to 19 Years	6.9%	1.9%	8.3%	1.6%	4.5%▼	1.7%	7.1%	1.1%
20 or More Years	6.0%	1.8%	8.5%▲	1.6%	9.2%	2.4%	7.4%▲	1.1%
Respondents (n)	497	497	1,255	1,255	498	498	2,250	2,250

Source: Survey fields: ['Age of Clothes Dryer', 'Climate Zone'].

TABLE 216. CLOTHES DRYER AGE BY CLIMATE ZONE (SITE)

COMPARE WITH TABLE 189, VOLUME 5, IN 2015 RSBS.

Age	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Less than 2 Years	4.8%▼	3.9%	8.0%	3.1%	10.3%	6.0%	6.9%▼	2.4%
2 to 4 Years	9.6%	5.4%	12.9%	3.8%	16.1%	7.3%	11.9%	3.1%
5 to 9 Years	30.1%	8.4%	31.5%	5.4%	40.4%	9.8%	32.2%	4.7%
10 to 14 Years	28.9%	8.3%	26.0%	5.1%	15.8%	7.3%	25.8%	4.5%
15 to 19 Years	14.5%	6.4%	11.3%	3.7%	12.9%	6.7%	13.0%	3.5%
20 or More Years	12.0%	6.0%	10.3%	3.5%	4.4%	4.1%	10.2%	3.2%
Clothes Dryers (n)	83	83	271	271	90	90	444	444

Source: On-site fields: ['Appliance Manufacture Year', 'Number of Appliance Units', 'Climate Zone'].

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TABLE 217. AVERAGE LOADS OF CLOTHES DRIED PER WEEK BY CLIMATE ZONE (SITE)

COMPARE WITH TABLE 72, VOLUME 5, IN 2015 RSBS.

Loads	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	Mean	EB	Mean	EB	Mean	EB	Mean	EB
Mean	5.1	0.7	4.5▼	0.3	5.5	0.9	4.9	0.4
Clothes Dryers (n)	84	84	276	276	90	90	450	450

Source: On-site fields: ['Number of Appliance Units', 'Loads Per Week', 'Climate Zone'].

TABLE 218. REFRIGERATOR ENERGY STAR BY CLIMATE ZONE (SITE)
COMPARE WITH TABLE 76, VOLUME 5, IN 2015 RSBS.

ENERGY STAR	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Yes	35.5%▲	8.3%	44.5%▲	6.0%	45.6%▲	10.2%	40.0%▲	5.0%
No	64.5%▲	8.3%	55.5%	6.0%	54.4%	10.2%	60.0%▲	5.0%
Refrigerators (n)	93	93	253	253	89	89	435	435

Note: This table represents the percentage of refrigerators labeled as ENERGY STAR or that project staff could identify through look-ups as ENERGY STAR certified. Look-ups of older appliances often do not indicate whether they were ENERGY STAR certified when new.

Source: On-site fields: ['Type/Style of Appliance', 'Appliance Energy Star Certified?', 'Number of Appliance Units', 'Climate Zone'].

TABLE 219. AGE OF PRIMARY REFRIGERATOR BY CLIMATE ZONE (SURVEY)
COMPARE WITH TABLE 75, VOLUME 5, IN 2015 RSBS.

Age	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Less than 2 Years	12.2%	2.4%	17.8%▲	2.1%	15.3%	3.0%	14.7%	1.5%
2 to 4 Years	18.6%▼	2.8%	19.1%▼	2.2%	18.7%	3.2%	18.8%▼	1.7%
5 to 9 Years	34.2%	3.5%	28.6%▼	2.5%	30.1%	3.8%	31.5%	2.0%
10 to 14 Years	20.5%	3.0%	19.6%	2.2%	21.5%	3.4%	20.3%	1.7%
15 to 19 Years	7.0%	1.9%	8.3%	1.5%	8.5%	2.3%	7.7%▲	1.1%
20 or More Years	7.6%▲	1.9%	6.6%▲	1.4%	5.9%	2.0%	7.0%▲	1.1%
Respondents (n)	538	538	1,293	1,293	509	509	2,340	2,340

Source: Survey fields: ['Age of Fridge', 'Climate Zone'].

TABLE 220. AVERAGE REFRIGERATOR YEAR OF MANUFACTURER PER HOUSEHOLD BY CLIMATE ZONE (SITE)

COMPARE WITH TABLE 57, VOLUME 1, IN 2015 RSBS.

Age	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Less than 2 years	5.9%▼	4.2%	14.7%	4.0%	8.7%	5.5%	9.6%	2.7%
2 to 4 years	9.4%	5.3%	13.1%	3.8%	9.0%	5.5%	10.7%	3.0%
5 to 9 years	25.9%	7.9%	28.2%	5.1%	34.1%	9.4%	28.0%	4.4%
10 to 14 years	32.9%▲	8.5%	19.4%	4.5%	22.7%	8.3%	26.3%	4.6%
15 to 19 years	15.3%	6.5%	14.0%	4.0%	11.3%	6.3%	14.2%	3.5%
20 or more years	10.6%	5.6%	10.6%	3.5%	14.2%	6.9%	11.2%	3.1%
Mean Year of Manufacture	2007▲	1.2	2009▲	0.8	2008▲	1.3	2008▲	0.7
Respondents (n)	85	85	271	271	92	92	448	448

Source: On-site fields: ['Appliance Manufacture Year', 'Climate Zone'].

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TABLE 221. AVERAGE REFRIGERATOR SIZE PER HOUSEHOLD BY CLIMATE ZONE (SITE)

COMPARE WITH TABLE 191, VOLUME 5, IN 2015 RSBS.

Size (Cubic Feet)	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	Mean	EB	Mean	EB	Mean	EB	Mean	EB
Mean	19.9	0.8	20.2▲	0.5	19.8	1.0	20.0▲	0.5
Refrigerators (n)	120	120	352	352	120	120	592	592

Note: This table includes all refrigerators, including mini fridges.

Source: On-site fields: ['Size of Refrigerator or Freezer (cu ft)', 'Number of Appliance Units', 'Climate Zone'].

TABLE 222. DISTRIBUTION OF REFRIGERATOR COUNT BY CLIMATE ZONE (SURVEY)

THIS TABLE IS NEW WITH THE 2019 RBSA.

Refrigerator Size		Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
		%	EB	%	EB	%	EB	%	EB
Full Size	0	0.4%	0.4%	0.3%	0.3%	0.5%	0.6%	0.4%	0.3%
	1	65.9%	3.4%	75.2%	2.3%	76.4%	3.4%	71.0%	1.9%
	2	29.7%	3.3%	21.4%	2.2%	20.4%	3.3%	25.2%	1.9%
	3	3.9%	1.4%	2.9%	0.9%	2.7%	1.3%	3.4%	0.8%
	4	0.2%	0.3%	0.1%	0.2%	0.0%	0.0%	0.1%	0.2%
Compact	0	85.2%	2.6%	86.2%	1.9%	85.3%	2.9%	85.6%	1.5%
	1	14.0%	2.5%	12.3%	1.8%	13.3%	2.7%	13.2%	1.4%
	2	0.6%	0.6%	1.5%	0.7%	1.2%	0.9%	1.0%	0.4%
	3	0.2%	0.3%	0.0%	0.0%	0.2%	0.4%	0.1%	0.2%
Respondents (n)		553	553	1,332	1,332	532	532	2,417	2,417

Note: This table is new to the 2019 RBSA and its values cannot be compared with those of any 2015 RSBS table.

Source: Survey fields: ['Fridge Description', 'Number of Other Fridges', 'Number of Compact Fridges', 'Climate Zone'].

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TABLE 223. FREEZER ENERGY STAR BY CLIMATE ZONE (SITE)

COMPARE WITH TABLE 193, VOLUME 5, IN 2015 RSBS.

ENERGY STAR	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Yes	29.2%	16.0%	20.4%	8.4%	36.9%▲	15.7%	27.4%▲	8.0%
No	70.8%▲	16.0%	79.6%	8.4%	63.1%	15.7%	72.6%▲	8.0%
Freezers (n)	24	24	77	77	34	34	135	135

Note: This table represents the percentage of stand-alone freezers labeled as ENERGY STAR or that project staff could identify through look-ups as ENERGY STAR certified. Look-ups of older appliances often do not indicate whether they were ENERGY STAR certified when new.

Source: On-site fields: ['Type/Style of Appliance', 'Appliance Energy Star Certified?', 'Number of Appliance Units', 'Climate Zone'].

TABLE 224. AVERAGE AGE OF STAND-ALONE FREEZERS BY CLIMATE ZONE (SURVEY)

COMPARE WITH TABLE 58, VOLUME 1, IN 2015 RSBS.

Freezer Type		Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
		Mean	EB	Mean	EB	Mean	EB	Mean	EB
First Stand-Alone Freezer	Age (Years)	10.2	1.3	11.3▼	0.9	10.9▲	1.0	10.9	0.6
	Respondents (n)	113	113	457	457	235	235	805	805
Second Stand-Alone Freezer	Age (Years)	6.7	26.9	14.4	5.6	8.5	2.2	10.2	2.5
	Respondents (n)	3	3	16	16	27	27	46	46
Third Stand-Alone Freezer	Age (Years)	1.0	0.0	17.8	65.0	7.9	0.0	8.7	12.3
	Respondents (n)	1	1	3	3	2	2	6	6

Source: Survey fields: ['Age of First Freezer', 'Age of Second Freezer', 'Age of Third Freezer', 'Climate Zone'].

TABLE 225. AVERAGE FREEZER YEAR OF MANUFACTURER PER HOUSEHOLD BY CLIMATE ZONE (SITE)

COMPARE WITH TABLE 59, VOLUME 1, IN 2015 RSBS.

Age	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Less than 2 Years	3.8%▼	6.5%	6.3%	4.5%	14.1%	9.6%	6.3%▼	3.7%
2 to 4 Years	11.5%▼	10.8%	4.1%▼	3.6%	11.3%	8.8%	8.7%	5.3%
5 to 9 Years	26.9%	14.9%	22.9%	7.8%	16.6%	10.4%	23.9%	7.6%
10 to 14 Years	23.1%	14.2%	15.1%	6.7%	19.3%	11.0%	19.5%	7.2%
15 to 19 Years	11.5%	10.8%	23.9%	7.9%	13.9%	9.6%	16.5%	6.0%
20 or More Years	23.1%	14.2%	27.8%	8.3%	24.8%	12.1%	25.1%	7.4%
Mean Year of Manufacture	2005	3.5	2002	2.4	2006	2.8	2004	1.9
Respondents (n)	26	26	101	101	44	44	171	171

Source: On-site fields: ['Appliance Manufacture Year', 'Number of Appliance Units', 'Climate Zone'].

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TABLE 226. DISTRIBUTION OF STAND-ALONE FREEZER COUNT BY CLIMATE ZONE (SURVEY)

THIS TABLE IS NEW WITH THE 2019 RBSA.

freezer count	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
0	77.0%	3.0%	60.2%	2.6%	48.9%	4.0%	66.5%	1.9%
1	22.1%	3.0%	38.2%	2.6%	45.4%	4.0%	31.6%	1.9%
2	0.8%	0.6%	1.4%	0.6%	5.4%	1.8%	1.7%	0.5%
3	0.2%	0.3%	0.1%	0.2%	0.3%	0.4%	0.2%	0.2%
4	0.0%	0.0%	0.1%	0.2%	0.0%	0.0%	0.0%	0.1%
Respondents (n)	553	553	1,333	1,333	533	533	2,419	2,419

Note: This table is new to the 2019 RBSA and its values cannot be compared with those of any 2015 RSBS table.

Source: Survey fields: ['Number of Freezers', 'Climate Zone'].

TABLE 227. REFRIGERATOR AND FREEZER LOCATION BY CLIMATE ZONE (SITE)

COMPARE WITH TABLE 59, VOLUME 1, IN 2015 RSBS.

Appliance Type	Location	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
		%	EB	%	EB	%	EB	%	EB
Refrigerator/Freezers, Refrigerators	Conditioned	90.2%	4.4%	86.9%	3.4%	89.5%	5.2%	88.9%	2.6%
	Unconditioned	9.8%	4.4%	13.1%	3.4%	10.5%	5.2%	11.1%	2.6%
	Refrigerators (n)	123	123	355	355	122	122	600	600
Freezers	Conditioned	50.0%	16.2%	38.2%	8.7%	38.6%	13.0%	43.0%	7.7%
	Unconditioned	50.0%	16.2%	61.8%	8.7%	61.4%	13.0%	57.0%	7.7%
	Freezers (n)	28	28	110	110	47	47	185	185

Source: On-site fields: ['Location of Appliance Unit', 'Number of Appliance Units', 'Climate Zone'].

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TABLE 228. DISHWASHER ENERGY STAR BY CLIMATE ZONE (SITE)

COMPARE WITH TABLE 194, VOLUME 5, IN 2015 RSBS.

ENERGY STAR	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Yes	47.5%	10.9%	70.5%▲	6.6%	75.9%▲	11.1%	59.4%▲	6.3%
No	52.5%▲	10.9%	29.5%	6.6%	24.1%	11.1%	40.6%	6.3%
Dishwashers (n)	61	61	187	187	57	57	305	305

Note: This table represents the percentage of dishwashers labeled as ENERGY STAR or that project staff could identify through look-ups as ENERGY STAR certified. Look-ups of older appliances often do not indicate whether they were ENERGY STAR certified when new.

Source: On-site fields: [‘Climate Zone,’ ‘Type/Style of Appliance,’ ‘Appliance Energy Star Certified?’].

TABLE 229. AVERAGE NUMBER OF DISHWASHER LOADS PER WEEK BY CLIMATE ZONE (SITE)

COMPARE WITH TABLE 224, VOLUME 5, IN 2015 RSBS.

Loads per Week	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	Mean	EB	Mean	EB	Mean	EB	Mean	EB
Mean	3.4	0.5	3.1	0.3	3.3	0.6	3.3	0.3
Dishwashers (n)	81	81	229	229	74	74	384	384

Source: On-site fields: ['Dishwasher Usage Pattern (cycles/week)', 'Number of Appliance Units', 'Climate Zone'].

TABLE 230. WINE COOLER AGE BY CLIMATE ZONE (SITE)

COMPARE WITH TABLE 195, VOLUME 5, IN 2015 RSBS.

Age	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Less than 2 Years	40.0%	52.4%	19.0%	16.8%	0.0%	0.0%	27.2%	19.6%
2 to 4 Years	0.0%	0.0%	13.0%	14.2%	2.7%	7.7%	6.3%▼	7.1%
5 to 9 Years	20.0%	42.8%	43.3%	21.3%	97.3%▲	7.7%	36.7%	19.0%
10 to 14 Years	20.0%	42.8%	12.3%	14.2%	0.0%	0.0%	14.9%	15.6%
15 to 19 Years	0.0%	0.0%	12.3%	14.2%	0.0%	0.0%	5.8%	7.1%
20 or More Years	20.0%	42.8%	0.0%	0.0%	0.0%	0.0%	9.1%	14.6%
Wine Coolers (n)	5	5	24	24	5	5	34	34

Source: On-site fields: ['Appliance Manufacture Year', 'Number of Appliance Units', 'Climate Zone'].

TABLE 231. PERCENTAGE OF HOMES USING DEHUMIDIFIERS BY SEASON AND CLIMATE ZONE (SITE)

COMPARE WITH TABLE 223, VOLUME 5, IN 2015 RSBS.

Season	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	Mean	EB	Mean	EB	Mean	EB	Mean	EB
Summer	82.8%	12.2%	55.9%	7.5%	72.5%	12.1%	67.7%	6.0%
Fall	13.8%	11.1%	19.8%	6.5%	12.5%	8.9%	16.5%	5.0%
Winter	6.9%	8.2%	6.6%	3.5%	0.0%	0.0%	5.5%	3.1%
Spring	17.2%	12.2%	35.1%▲	7.3%	30.0%▲	12.4%	28.3%▲	5.8%
Year Round	13.8%	11.1%	29.5%	7.0%	25.1%	11.7%	23.6%	5.4%
Dehumidifiers (n)	29	29	174	174	45	45	248	248

Note: Fall dehumidifier usage was not represented in the corresponding table in the 2015 RSBS.

Source: On-site fields: ['Humidifier Usage', 'Number of Appliance Units', 'Climate Zone'].

TABLE 232. DEHUMIDIFIER AGE BY CLIMATE ZONE (SITE)

COMPARE WITH TABLE 200, VOLUME 5, IN 2015 RSBS.

Age	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Less than 2 Years	3.6%▼	6.0%	14.7%	5.7%	22.6%	11.2%	12.5%▼	4.1%
2 to 4 Years	7.1%▼	8.3%	21.6%	6.0%	22.6%	12.0%	17.1%▼	4.6%
5 to 9 Years	32.1%	15.1%	43.2%▲	7.7%	27.4%	12.0%	36.7%▲	6.5%
10 to 14 Years	25.0%	14.0%	9.8%	4.3%	12.5%	8.8%	15.3%	5.3%
15 to 19 Years	14.3%	11.3%	3.8%▼	2.8%	7.5%	7.0%	7.9%	4.1%
20 or More Years	17.9%	12.4%	6.8%	3.7%	7.5%	7.0%	10.5%	4.6%
Dehumidifiers (n)	28	28	167	167	45	45	240	240

Source: On-site fields: ['Type/Style of Appliance', 'Appliance Manufacture Year', 'Number of Appliance Units', 'Climate Zone'].

TABLE 233. AVERAGE DEHUMIDIFIER YEAR OF MANUFACTURER PER HOUSEHOLD BY CLIMATE ZONE (SITE)

COMPARE WITH TABLE 201, VOLUME 5, IN 2015 RSBS.

Year of Manufacture	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	Mean	EB	Mean	EB	Mean	EB	Mean	EB
Mean	2006	3	2011▲	1	2011▲	2	2010▲	1
Dehumidifier (n)	28	28	167	167	45	45	240	240

Source: On-site fields: ['Number of Appliance Units', 'Appliance Manufacture Year', 'Climate Zone'].

TABLE 234. DEHUMIDIFIER ENERGY STAR BY CLIMATE ZONE (SITE)
COMPARE WITH TABLE 202, VOLUME 5, IN 2015 RSBS.

ENERGY STAR	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Yes	29.2%▼	16.0%	62.8%	7.9%	53.1%	14.9%	49.7%▼	7.4%
No	70.8%▲	16.0%	37.2%	7.9%	46.9%	14.9%	50.3%▲	7.4%
Dehumidifiers (n)	24	24	130	130	37	37	191	191

Note: This table represents the percentage of dehumidifiers labeled as ENERGY STAR or that project staff could identify through look-ups as ENERGY STAR certified. Look-ups of older appliances often do not indicate whether they were ENERGY STAR certified when new.

Source: On-site fields: ['Type/Style of Appliance', 'Appliance Energy Star Certified?', 'Number of Appliance Units', 'Climate Zone'].

TABLE 235. POOL HEATED BY CLIMATE ZONE (SITE)
COMPARE WITH TABLE 61, VOLUME 1, IN 2015 RSBS.

Heated Pool	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Yes	18.2%	21.6%	33.7%	19.2%	25.4%	28.1%	23.8%	13.0%
No	81.8%	21.6%	66.3%	19.2%	74.6%	28.1%	76.2%	13.0%
Pools (n)	11	11	23	23	11	11	45	45

Note: This table does not include hot tubs.

Source: On-Site fields: ['Heated Pool /Hot Tub', 'Number of Appliance Units', 'Climate Zone']

TABLE 236. POOL PUMP HIGH EFFICIENCY BY CLIMATE ZONE (SITE)
COMPARE WITH TABLE 62, VOLUME 1, IN 2015 RSBS.

High Efficiency	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Yes	27.3%	24.9%	11.3%	12.8%	25.4%	28.1%	22.4%	13.9%
No	45.5%	27.8%	55.1%	20.2%	37.1%	31.4%	46.9%	15.9%
Not Available	27.3%	24.9%	33.5%	19.2%	37.5%	31.4%	30.7%	14.5%
Pools (n)	11	11	23	23	11	11	45	45

Note: This table does not include hot tubs.

Source: On-site fields: ['Pool/Hot Tub High Efficiency Pump', 'Number of Appliance Units', 'Climate Zone'].

TABLE 237. POOL IN GROUND BY CLIMATE ZONE (SITE)
COMPARE WITH TABLE 203, VOLUME 5, IN 2015 RSBS.

Location	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Above Ground	54.5%	27.8%	60.8%	19.8%	37.8%	31.4%	53.7%	15.9%
In Ground	45.5%	27.8%	39.2%	19.8%	62.2%	31.4%	46.3%	15.9%
Pools (n)	11	11	23	23	11	11	45	45

Note: This table does not include hot tubs.

Source: On-site fields: ['Pool/Hot Tub Above Ground or In Ground', 'Number of Appliance Units', 'Climate Zone'].

TABLE 238. HOT TUB PUMP HIGH EFFICIENCY BY CLIMATE ZONE (SITE)

COMPARE WITH TABLE 206, VOLUME 5, IN 2015 RSBS.

High Efficiency	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Yes	0.0%	0.0%	0.2%▼	0.4%	14.3%	27.1%	3.9%▼	6.5%
No	33.3%	174.5%	42.3%	22.7%	28.6%	34.9%	36.0%	18.7%
Not Available	66.7%	174.5%	57.5%	22.7%	57.1%	38.3%	60.1%	19.0%
Hot Tub Pumps (n)	3	3	23	23	7	7	33	33

Source: On-site fields: ['Pool/Hot Tub High Efficiency Pump', 'Number of Appliance Units', 'Climate Zone'].

TABLE 239. POOL FUEL BY CLIMATE ZONE (SITE)

COMPARE WITH TABLE 207, VOLUME 5, IN 2015 RSBS.

Fuel	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Electricity	36.4%	26.9%	22.2%	16.9%	0.7%▼	1.0%	26.6%	14.9%
Not Heated	45.5%	27.8%	44.3%	20.2%	74.2%	28.1%	49.6%	16.0%
Natural Gas	0.0%	0.0%	22.5%	16.9%	24.7%	28.1%	10.4%	7.2%
Propane	18.2%	21.6%	0.0%	0.0%	0.3%▼	0.7%	10.1%	11.2%
Solar Hot Water[a]	0.0%	0.0%	11.0%	12.8%	0.0%	0.0%	3.2%	3.9%
Pools (n)	11	11	23	23	11	11	45	45

Note: This table does not include hot tubs.
[a] The solar hot water fuel type was not represented in the corresponding table of the 2015 RSBS.

Source: On-site fields: ['Type/Style of Appliance', 'Number of Appliance Units', 'Appliance Fuel', 'Climate Zone'].

TABLE 240. AVERAGE NUMBER OF TELEVISIONS PER HOUSEHOLD BY CLIMATE ZONE (SITE)

COMPARE WITH TABLE 67, VOLUME 1, IN 2015 RSBS.

Number of Televisions	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	Mean	EB	Mean	EB	Mean	EB	Mean	EB
Mean	3.0	0.3	2.6	0.1	2.8▲	0.3	2.8	0.2
Respondents (n)	81	81	272	272	89	89	442	442

Source: On-site fields: ['Number of Appliance Units', 'Appliance Category', 'Climate Zone'].

TABLE 241. AVERAGE NUMBER OF TELEVISIONS BY TYPE AND CLIMATE ZONE (SURVEY)

COMPARE WITH TABLE 68, VOLUME 1, IN 2015 RSBS.

Television Type	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	Mean	EB	Mean	EB	Mean	EB	Mean	EB
Flat Screen LCD/LED	2.0▲	0.1	1.9▲	0.1	1.8▲	0.1	1.9▲	0.1
Flat Screen of Unknown type	0.4	0.1	0.3▲	0.0	0.3	0.1	0.3▲	0.0
Flat Screen Plasma	0.3▼	0.1	0.2▼	0.0	0.1▼	0.0	0.2▼	0.0
Cathode Ray Tube	0.2▼	0.0	0.1▼	0.0	0.1▼	0.0	0.2▼	0.0
Rear Projection	0.0▲	0.0	0.0▲	0.0	0.0	0.0	0.0▲	0.0
Respondents (n)	545	545	1,325	1,325	526	526	2,396	2,396

Source: Survey fields: ['No. of Standard Tube TVs', 'No. of Plasma TVs', 'No. of LCD/LED TVs', 'No. of TVs of Unknown Type', 'No. of Rear Projection TVs', 'Climate Zone'].

TABLE 242. AVERAGE NUMBER OF TELEVISIONS BY TYPE AND CLIMATE ZONE (SITE)

THIS TABLE IS NEW WITH THE 2019 RBSA.

Televisions		Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
		Mean	EB	Mean	EB	Mean	EB	Mean	EB
Flat Screen LCD/LED	Mean	2.6	0.3	2.3	0.1	2.5	0.3	2.5	0.2
	Respondents (n)	81	81	272	272	89	89	442	442
Cathode Ray Tube	Mean	0.2	0.1	0.2	0.0	0.1	0.1	0.2	0.0
	Respondents (n)	81	81	272	272	89	89	442	442
Flat Screen Plasma	Mean	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.0
	Respondents (n)	81	81	272	272	89	89	442	442
Rear Projection	Mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Respondents (n)	81	81	272	272	89	89	442	442

Note: This table is new to the 2019 RBSA and its values cannot be compared with those of any 2015 RSBS table.

Source: On-site fields: ['Type/Style of Appliance', 'Number of Appliance Units', 'Appliance Category', 'Climate Zone'].

TABLE 243. AVERAGE TELEVISION SIZE BY CLIMATE ZONE (SITE)

COMPARE WITH TABLE 213, VOLUME 5, IN 2015 RSBS.

Size (inches)	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	Mean	EB	Mean	EB	Mean	EB	Mean	EB
Mean	39.3▲	1.4	39.1▲	1.0	37.8▲	1.5	39.0▲	0.8
Respondents (n)	81	81	272	272	88	88	441	441

Source: On-site fields: ['Television Screen Size (inches)', 'Number of Appliance Units', 'Climate Zone'].

TABLE 244. AVERAGE TELEVISION SIZE BY TELEVISION TYPE (SITE)

COMPARE WITH TABLE 214, VOLUME 5, IN 2015 RSBS.

Size (inches)	Cathode Ray Tube		LCD		LED		Plasma		Projection		Overall Statewide	
	Mean	EB	Mean	EB	Mean	EB	Mean	EB	Mean	EB	Mean	EB
Mean	23.8	2.0	36.8▲	1.1	41.7▲	1.1	42.4	2.9	65.1	15.1	39.0▲	0.8
Respondents (n)	22	22	160	160	227	227	28	28	4	4	441	441

Source: On-site fields: ['Type/Style of Appliance', 'Television Screen Size (inches)', 'Number of Appliance Units'].

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TABLE 245. TELEVISION TYPE BY CLIMATE ZONE (SITE)

COMPARE WITH TABLE 215, VOLUME 5, IN 2015 RSBS.

Type	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
LED	55.0%▲	5.5%	43.9%▲	3.9%	55.3%▲	6.5%	51.1%▲	3.2%
LCD	32.6%	5.2%	42.5%▲	3.9%	33.1%	6.1%	36.2%	3.1%
Cathode Ray Tube	6.2%▼	2.6%	6.7%▼	1.8%	5.2%▼	2.9%	6.2%▼	1.5%
Plasma	5.4%	2.4%	4.9%	1.5%	4.8%	2.8%	5.1%	1.4%
Organic LED	0.4%	0.7%	1.3%	0.8%	0.5%	0.9%	0.8%	0.5%
Projection	0.4%	0.7%	0.8%	0.6%	1.0%	1.2%	0.6%	0.4%
Televisions (n)	242	242	714	714	249	249	1,205	1,205

Source: On-site fields: ['Type/Style of Appliance', 'Number of Appliance Units', 'Climate Zone'].

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TABLE 246. AVERAGE NUMBER OF PLUG LOAD EQUIPMENT PER HOUSEHOLD BY CLIMATE ZONE (SURVEY)

COMPARE WITH TABLE 69, VOLUME 1, IN 2015 RSBS.

Plug Load	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	Mean	EB	Mean	EB	Mean	EB	Mean	EB
Cell Phones	2.5▲	0.1	2.1▲	0.1	1.9▲	0.1	2.3▲	0.1
Cordless Phone	1.8	0.1	1.2	0.1	1.3	0.1	1.5	0.1
Cable Satellite	0.8▼	0.1	0.5▼	0.0	0.6▼	0.1	0.6▼	0.1
DVD/Blue Ray Player	0.6▼	0.1	0.7▼	0.0	0.7▼	0.1	0.7▼	0.0
Video Gaming System	0.5▼	0.1	0.5▼	0.0	0.5	0.1	0.5▼	0.0
Stereo System	0.5▼	0.0	0.4▼	0.0	0.5▼	0.1	0.5▼	0.0
VCR	0.2▼	0.0	0.2▼	0.0	0.2▼	0.0	0.2▼	0.0
Respondents (n)	529	529	1,267	1,267	510	510	2,306	2,306

Source: Survey fields: ['Number of DVD/Blu-Rays', 'No. of Combination TV Boxes', 'No. of TV Boxes', 'Number of DVRs', 'Number of Gaming Systems', 'Number of Home Theater Systems', 'Number of Cell/Smart Phones', 'Number of Cordless Phones', 'Number of Stereo Systems', 'Number of VCRs', 'Number of Digital Converters', 'Climate Zone'].

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TABLE 247. SMART STRIPS USAGE AND TYPE BY CLIMATE ZONE (SURVEY)

COMPARE WITH TABLE 66, VOLUME 1, IN 2015 RSBS.

Category		Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
		%	EB	%	EB	%	EB	%	EB
Use Smart Strip	Yes	14.1%	2.6%	12.7%	1.8%	8.8%▼	2.4%	12.8%	1.5%
	No	85.9%	2.6%	87.3%	1.8%	91.2%▲	2.4%	87.2%	1.5%
	Respondents (n)	524	524	1,280	1,280	512	512	2,316	2,316
Type of Smart Strip	Tier 1 Smart Strip That Turns Off When Computer is Powered Off or Goes to Sleep	74.1%	12.5%	81.8%	8.6%	89.8%	11.3%	78.8%	7.2%
	Tier 2 Smart Strip That Turns Off When You Leave or is Programmed to Turn Off at a Certain Time	11.6%	9.1%	9.1%	6.4%	5.1%	8.2%	9.9%	5.3%
	Both Tier 1 and Tier 2 Smart Strip	14.3%	10.0%	9.1%	6.4%	5.1%	8.2%	11.3%	5.7%
	Respondents (n)	36	36	79	79	29	29	144	144

Source: Survey fields: ['Smart Strip to Power Off', 'Tiered Smart Strip', 'Climate Zone'].

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TABLE 248. AVERAGE NUMBER OF OFFICE EQUIPMENT TYPES BY CLIMATE ZONE (SURVEY)

COMPARE WITH TABLE 216, VOLUME 5, IN 2015 RSBS.

Office Equipment	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	Mean	EB	Mean	EB	Mean	EB	Mean	EB
Desktop Computer Excluding Monitor	0.8▲	0.1	0.6▲	0.0	0.7	0.1	0.7▲	0.0
Laptop Computer	1.4▲	0.1	1.2▲	0.1	1.1▼	0.1	1.3▲	0.0
Tablet Computer	1.1▲	0.1	1.0▲	0.1	1.0▲	0.1	1.0▲	0.0
Cathode Ray Tube Computer Monitor	0.1▲	0.0	0.0▲	0.0	0.0▼	0.0	0.0▲	0.0
LCD/LED Computer Monitor	0.7▲	0.1	0.6▲	0.0	0.6▼	0.1	0.6▲	0.0
eReader	0.3	0.0	0.3▲	0.0	0.4▲	0.1	0.3	0.0
Printer	0.9▲	0.0	0.9▲	0.0	0.8▲	0.1	0.9▲	0.0
Modem or Router	1.0▲	0.0	1.1▲	0.0	1.0▲	0.1	1.0▲	0.0
Respondents (n)	521	521	1,260	1,260	497	497	2,278	2,278

Source: Survey fields: ['Number of Desktop Computers', 'Number of Laptops', 'Number of Tablets', 'Number of CRT Computer Monitors', 'Number of LED/LCD Monitors', 'Number of eReaders', 'Number of All-In-One Printers', 'Number of Modems/Routers', 'Climate Zone'].

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TABLE 249. AVERAGE NUMBER OF COMPUTERS PER HOUSEHOLD BY CLIMATE ZONE (SURVEY)

COMPARE WITH TABLE 63, VOLUME 1, IN 2015 RSBS.

Computers	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	Mean	EB	Mean	EB	Mean	EB	Mean	EB
Mean	3.2▲	0.1	2.8▲	0.1	2.8▲	0.1	3.0▲	0.1
Respondents (n)	521	521	1,260	1,260	497	497	2,278	2,278

Note: This table includes desktop, laptop, and tablet computers.

Source: Survey fields: ['Number of Desktop Computers', 'Number of Laptops', 'Number of Tablets', 'Climate Zone'].

TABLE 250. AVERAGE NUMBER OF HOURS COMPUTER USED PER DAY BY CLIMATE ZONE (SURVEY)

COMPARE WITH TABLE 64, VOLUME 1, IN 2015 RSBS.

Computer Type		Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
		Mean	EB	Mean	EB	Mean	EB	Mean	EB
Desktop Computer	Mean	2.8	0.3	2.2▼	0.2	2.6▼	0.4	2.6▼	0.2
	Respondents (n)	349	349	788	788	318	318	1,455	1,455
Laptop Computer	Mean	3.1	0.2	2.4▼	0.2	2.5▼	0.3	2.8▼	0.1
	Respondents (n)	417	417	1,053	1,053	401	401	1,871	1,871

Source: Survey fields: ['Desktop Daily Hours', 'Laptop Daily Hours', 'Climate Zone'].

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TABLE 251. COMPUTER TYPE BY CLIMATE ZONE (SITE)

COMPARE WITH TABLE 218, VOLUME 5, IN 2015 RSBS.

Type	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Laptop	49.4%	7.8%	55.2%▲	5.1%	49.0%	9.4%	51.3%	4.6%
Desktop	34.6%	7.0%	28.7%▼	4.4%	37.7%	8.7%	32.9%	4.1%
Tablet	16.0%	5.4%	16.1%	4.0%	13.4%	6.8%	15.7%	3.2%
Computers (n)	231	231	632	632	187	187	1,050	1,050

Source: On-site fields: ['Type/Style of Appliance', 'Number of Appliance Units', 'Climate Zone'].

TABLE 252. COMPUTER MONITOR TYPE BY CLIMATE ZONE (SITE)
COMPARE WITH TABLE 219, VOLUME 5, IN 2015 RSBS.

Monitor Type	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
LED	66.7%	7.3%	28.8%	4.9%	38.3%	8.9%	50.0%	4.7%
LCD	30.7%	7.2%	34.7%	5.0%	39.2%	9.4%	33.2%	4.3%
LCD or LED	1.3%	1.6%	35.9%	5.1%	21.2%	8.0%	15.7%	2.6%
Cathode Ray Tube[a]	0.9%	1.0%	0.0%	0.0%	1.4%	1.6%	0.6%▼	0.6%
Plasma	0.4%	0.7%	0.2%	0.3%	0.0%	0.0%	0.3%	0.4%
All-in-One Computer	0.0%	0.0%	0.4%	0.7%	0.0%	0.0%	0.1%	0.2%
Computer Monitors (n)	231	231	624	624	185	185	1,040	1,040

Note: This table represents display type for desktop and laptop computers.
[a] Only cathode ray tube values can be meaningfully compared with 2015 RSBS results.

Source: On-site fields: ['Number of Appliance Units', 'Computer Monitor Type', 'Climate Zone'].

TABLE 253. PERCENTAGE OF HOMES WITH CONNECTED DEVICES BY DEVICE TYPE AND CLIMATE ZONE (SURVEY)
THIS TABLE IS NEW WITH THE 2019 RBSA.

Category		Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
		%	EB	%	EB	%	EB	%	EB
Home Includes Equipment That Can be Controlled Remotely	Yes	31%	3%	20%	2%	13%	3%	24%	2%
	No	69%	3%	80%	2%	87%	3%	76%	2%
	Respondents (n)	543	543	1,313	1,313	526	526	2,382	2,382
Items That Can be Controlled Remotely	Thermostats	54%	7%	51%	7%	34%	12%	52%	5%
	Security	39%	7%	32%	6%	36%	12%	37%	5%
	LEDs or Smart Lights	32%	7%	35%	6%	40%	12%	33%	5%
	Heating or Cooling Equipment	30%	7%	27%	6%	19%	10%	28%	4%
	Other	16%	5%	20%	5%	31%	12%	19%	4%
	Pool Pump	2%	2%	1%	1%	0%	0%	2%	1%
	Major Appliances	1%	1%	3%	2%	5%	5%	2%	1%
	Whole-House Humidifying	1%	1%	2%	2%	0%	0%	1%	1%
	Water Heating Equipment	1%	1%	1%	1%	2%	4%	1%	1%
	Whole-House Dehumidifying	1%	1%	0%	0%	0%	0%	0%	1%
	Respondents (n)	145	145	283	283	76	76	504	504
Major Appliances That Can be Controlled Remotely	Dishwasher	1%	1%	1%	1%	0%	0%	1%	1%
	Clothes Washer or Dryer	0%	0%	1%	1%	0%	0%	0%	0%
	Full-Sized Refrigerator	0%	0%	0%	0%	2%	4%	0%	0%
	Other Appliance	0%	0%	0%	0%	2%	4%	0%	0%
	Cooktop Stovetop or Range	0%	0%	0%	0%	0%	0%	0%	0%
	Stand-Alone Freezer	0%	0%	0%	0%	0%	0%	0%	0%
	Stand-Alone Oven	0%	0%	0%	0%	0%	0%	0%	0%
	Respondents (n)	145	145	283	283	76	76	504	504

Note: This table is new to the 2019 RBSA and its values cannot be compared with those of any 2015 RSBS table.

Source: Survey fields: ['Remote Controlled Equipment', 'Remote Equipment-Heat/Cool', 'Remote Equipment-Thermostat', 'Remote Equipment-Water Heating', 'Remote Equipment-Smart Lights', 'Remote Equipment-Humidifier', 'Remote Equipment-Dehumidifier', 'Remote Equipment-Pool Pump', 'Remote Equipment-Security', 'Remote Equipment-Appliance', 'Remote Equipment-Other Notes', 'Remote Appliance-Washer Dryer', 'Remote Appliance-Dishwasher', 'Remote Appliance-Cooktop', 'Remote Appliance-Oven', 'Remote Appliance-Refrigerator', 'Remote Appliance-Freezer', 'Remote Appliance-Other Notes', 'Climate Zone'].

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TABLE 254. PERCENTAGE OF HOMES WITH CONNECTED DEVICES BY DEVICE TYPE AND HOME VINTAGE (SURVEY)
THIS TABLE IS NEW WITH THE 2019 RBSA.

Category		Existing Homes		New Homes		Overall Statewide	
		%	EB	%	EB	%	EB
Home Includes Equipment That Can be Controlled Remotely	Yes	24.0%	1.9%	35.1%	4.8%	24.1%	1.9%
	No	76.0%	1.9%	64.9%	4.8%	75.9%	1.9%
	Respondents (n)	1,810	1,810	572	572	2,382	2,382
Items That Can be Controlled Remotely	Thermostats	51.3%	4.9%	69.9%	7.7%	51.5%	4.9%
	Security	36.5%	4.8%	60.0%	8.1%	36.8%	4.7%
	LEDs or Smart Lights	33.3%	4.6%	36.2%	9.0%	33.3%	4.6%
	Heating or Cooling Equipment	28.1%	4.5%	28.8%	8.1%	28.1%	4.4%
	Other	18.7%	3.8%	14.4%	4.3%	18.7%	3.7%
	Pool Pump	1.8%	1.4%	3.6%	4.6%	1.8%	1.4%
	Major Appliances	1.6%	1.1%	2.4%	1.7%	1.6%	1.1%
	Whole-House Humidifying	1.1%	0.9%	1.2%	1.1%	1.1%	0.9%
	Water Heating Equipment	1.0%	0.9%	3.6%	4.6%	1.1%	0.9%
	Whole-House Dehumidifying	0.5%	0.8%	0.0%	0.0%	0.5%	0.7%
	Respondents (n)	330	330	174	174	504	504
Major Appliances That Can be Controlled Remotely	Dishwasher	0.7%	0.8%	0.0%	0.0%	0.7%	0.8%
	Clothes Washer or Dryer	0.4%	0.5%	0.8%	0.9%	0.4%	0.5%
	Full-Sized Refrigerator	0.2%	0.3%	1.7%	1.4%	0.2%	0.3%
	Other Appliance	0.2%	0.3%	0.0%	0.0%	0.2%	0.3%
	Cooktop Stovetop or Range	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Stand-Alone Freezer	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Stand-Alone Oven	0.0%	0.0%	0.4%	0.6%	0.0%	0.0%
	Respondents (n)	330	330	174	174	504	504

Note: This table is new to the 2019 RBSA and its values cannot be compared with those of any 2015 RSBS table.

Source: Survey fields: ['Remote Controlled Equipment', 'Remote Equipment-Heat/Cool', 'Remote Equipment-Thermostat', 'Remote Equipment-Water Heating', 'Remote Equipment-Smart Lights', 'Remote Equipment-Humidifier', 'Remote Equipment-Dehumidifier', 'Remote Equipment-Pool Pump', 'Remote Equipment-Security', 'Remote Equipment-Appliance', 'Remote Equipment-Other Notes', 'Remote Appliance-Washer Dryer', 'Remote Appliance-Dishwasher', 'Remote Appliance-Cooktop', 'Remote Appliance-Oven', 'Remote Appliance-Refrigerator', 'Remote Appliance-Freezer', 'Remote Appliance-Other Notes', 'Construction Type'].

TABLE 255. PERCENTAGE OF HOMES WITH CONNECTED/SMART DEVICES BY CLIMATE ZONE (SITE)

THIS TABLE IS NEW WITH THE 2019 RBSA.

Connected Devices	Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
	%	EB	%	EB	%	EB	%	EB
Digital Assistant/Smart Speaker	32.9%	8.5%	24.3%	4.9%	25.6%	8.7%	28.6%	4.6%
Thermostat	28.2%	8.2%	14.2%	4.0%	10.1%	5.9%	20.2%	4.3%
Security	25.9%	7.9%	13.2%	3.9%	4.3%	4.0%	17.8%	4.1%
Lighting	7.1%	4.6%	9.8%	3.4%	1.5%	2.4%	7.2%	2.5%
Outlets	7.1%	4.6%	5.3%	2.6%	4.2%	4.0%	6.0%	2.5%
Safety	5.9%	4.3%	4.4%	2.3%	1.5%	2.4%	4.7%	2.2%
Cooking	5.9%	4.3%	1.0%	1.1%	0.0%	0.0%	3.2%	2.1%
Sprinklers	5.9%	4.3%	0.0%	0.0%	0.0%	0.1%	2.8%	2.0%
Respondents (n)	85	85	274	274	92	92	451	451

Note: This table is new to the 2019 RBSA and its values cannot be compared with those of any 2015 RSBS table.

Source: On-site fields: ['General Connected Devices Thermostat', 'General Connected Devices Sprinkler Control', 'General Connected Devices Security', 'General Connected Devices Safety', 'General Connected Devices Outlet', 'General Connected Devices Lighting', 'General Connected Devices Cooking', 'General Connected Devices Assistant', 'Climate Zone', 'Construction Type'].

TABLE 256. PERCENTAGE OF HOMES WITH CONNECTED/SMART DEVICES BY HOME VINTAGE (SITE)

THIS TABLE IS NEW WITH THE 2019 RBSA.

Connected Devices	Existing Homes		New Homes		Overall Statewide	
	%	EB	%	EB	%	EB
Digital Assistant/Smart Speaker	28.6%	4.6%	26.3%	7.7%	28.6%	4.6%
Thermostat	20.2%	4.3%	27.3%	7.8%	20.2%	4.3%
Security	17.9%	4.1%	16.1%	6.4%	17.8%	4.1%
Lighting	7.2%	2.6%	15.3%	6.3%	7.2%	2.5%
Outlets	6.0%	2.5%	3.2%	3.0%	6.0%	2.5%
Safety	4.6%	2.2%	9.7%	5.2%	4.7%	2.2%
Cooking	3.2%	2.1%	0.0%	0.0%	3.2%	2.1%
Sprinklers	2.8%	2.0%	1.3%	2.1%	2.8%	2.0%
Respondents (n)	361	361	90	90	451	451

Note: This table is new to the 2019 RBSA and its values cannot be compared with those of any 2015 RSBS table.

Source: On-site fields: ['General Connected Devices Thermostat', 'General Connected Devices Sprinkler Control', 'General Connected Devices Security', 'General Connected Devices Safety', 'General Connected Devices Outlet', 'General Connected Devices Lighting', 'General Connected Devices Cooking', 'General Connected Devices Assistant', 'Construction Type'].

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TABLE 257. AWARENESS OF AND PARTICIPATION IN ENERGY EFFICIENCY PROGRAMS BY CLIMATE ZONE (SURVEY)
COMPARE WITH TABLE 70, VOLUME 1, IN 2015 RSBS.

Category		Climate Zone 4		Climate Zone 5		Climate Zone 6		Overall Statewide	
		%	EB	%	EB	%	EB	%	EB
Participated in Energy Efficiency Program	Yes	9.2%	2.1%	11.4%	1.7%	12.0%	2.7%	10.5%	1.3%
	No	90.8%	2.1%	88.6%	1.7%	88.0%	2.7%	89.5%	1.3%
	Respondents (n)	539	539	1,297	1,297	523	523	2,359	2,359
Equipment Purchased or Recycled through Program	Insulation	31.0%	11.6%	49.9%	8.4%	38.3%	12.0%	39.8%	6.3%
	Air Conditioning Equipment	41.9%▲	12.4%	16.3%	6.2%	6.4%	6.0%	25.4%▲	6.1%
	Heating Equipment	22.0%	10.4%	32.6%	7.9%	23.4%	10.4%	26.5%	5.6%
	Lighting	26.6%	11.1%	14.3%	5.9%	8.5%▼	6.9%	18.4%	5.4%
	Other	11.2%	7.9%	14.4%	5.9%	29.7%	11.3%	15.8%	4.5%
	Water Heating Equipment	19.8%	10.0%	15.3%	6.0%	8.5%	6.9%	16.0%	5.0%
	Refrigerator or Freezer Recycling	15.4%	9.1%	15.3%	6.0%	10.6%	7.6%	14.5%	4.6%
	Clothes Washer	6.8%	6.2%	5.1%	3.7%	2.1%	3.6%	5.3%	3.0%
	Appliances	11.4%	7.9%	8.1%	4.6%	4.3%	5.0%	8.9%	3.8%
	Respondents (n)	51	51	114	114	51	51	216	216
Reason for Not Participating in Program	Not Aware of Any Reason	55.2%	4.1%	51.5%	3.1%	51.8%	4.6%	53.3%	2.4%
	Do Not Know Who to Contact	28.2%▲	3.7%	31.7%▲	2.9%	29.5%▲	4.2%	29.7%▲	2.2%
	Can Not Afford to Install New Equipment	28.7%▲	3.8%	29.7%▲	2.8%	29.7%▲	4.2%	29.2%▲	2.2%
	Energy Bills Are Not That High	15.0%▲	3.0%	21.4%▲	2.5%	16.1%	3.4%	17.6%▲	1.8%
	Other	11.2%	7.9%	14.4%	5.9%	29.7%	11.3%	15.8%	4.5%
	Too Busy	8.9%	2.4%	7.1%	1.6%	9.7%▲	2.7%	8.4%	1.3%
	Do Not Need Anything Done	7.9%▼	2.2%	8.3%▼	1.7%	8.4%▼	2.5%	8.1%▼	1.3%
	Recently Moved	3.2%	1.4%	6.8%	1.5%	3.9%	1.7%	4.6%	0.9%
	Renter	0.0%	0.0%	2.9%▼	1.0%	2.5%▼	1.4%	1.4%▼	0.4%
	Respondents (n)	421	421	1,049	1,049	424	424	1,894	1,894

Source: Survey fields: ['Efficiency Program Participation', 'Past-Insulation/Weatherization', 'Past-Heating', 'Past-Air Conditioning ', 'Past-Lighting', 'Past-Water Heating', 'Past-Clothes Washer', 'Past-Appliances', 'Past-Refrigeration', 'Past-Other Equipment Notes', 'Non Participation-Awareness', 'Non Participation-Don't Know', 'Non Participation-Not Needed', 'Non Participation-Initiation', 'Non Participation-High Cost', 'Non Participation-Low Bills', 'Non Participation-Rent', 'Non Participation-Other Notes', 'Non Participation-Too Busy', 'Non Participation-Recent Move', 'Primary Air Conditioning Type', 'Climate Zone', 'Construction Type'].

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