2005

BUILDER PRACTICES REPORT

Annual Builder and Consumer Practices Surveys

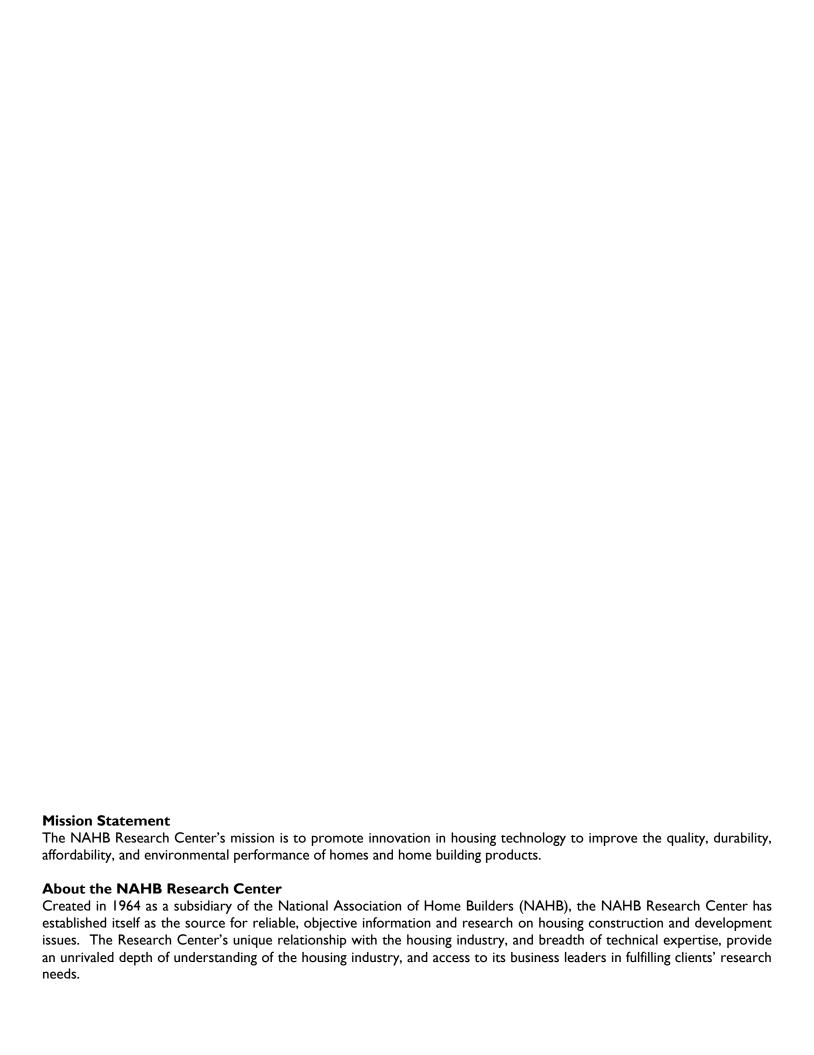
Data on
Structured Wiring
by the nine U.S.
Census Divisions











BUILDER PRACTICES REPORT

UNITED STATES NEW RESIDENTIAL CONSTRUCTION DATA

2005

PREPARED BY:
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ANNUAL BUILDER AND CONSUMER
PRACTICES SURVEYS

PROJECT NUMBER: 5650

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INTRODUCTION

The NAHB Research Center's *Builder Practices Reports* provide a picture of market demand for products and materials purchased by home builders nationwide. Market demand data is obtained through the *Annual Builder Practices Survey*, a nationally disseminated paper survey of home builders. The resulting data are tabulated using a robust methodology to ensure accurate estimates of product demand, quantities purchased, types, styles, sizes, and other characteristics of materials used in new homes built each calendar year.

The *Builder Practices Reports* present data on materials purchased for Single-Family Detached homes and Multifamily dwelling units. Data are shown as "coefficients," or per-house averages, and "product usage," the total volume of products or materials.

Coefficients for single-family detached homes are calculated for 32 separate U.S. geographic areas, referred to as "State-Market-Areas", which are states with similar topography. States with relatively low housing starts have been grouped with another state or states to create a single State-Market-Area, while three states with a high level of new home construction activity are divided between two State-Market-Areas. When a state is split, the dividing line typically occurs along changes in climate or topography, and always along county lines.

The 32 State-Market-Area data for Single-Family Detached dwellings include tabulations by the individual states or combinations of states that comprise each of the State-Market-Areas. Totals are weighted by housing starts for increased accuracy. The total for each of the nine U.S. Census Divisions is a weighted average based on the proportion of housing starts within each State-Market-Area in that Census Division. U.S. totals are weighted by the proportion of housing starts within each Census Division.

The Multifamily data, which include Single-Family Attached dwellings—Townhouses, Duplexes and Row Houses, as well as low-rise Apartments (up to and including four stories), is tabulated by the nine U.S. Census Divisions. U.S. Totals are weighted by the proportion of housing starts within each Census Division.

This year, the Research Center has an agreement with McGraw Hill Construction Analytics (formerly FW Dodge) to provide new housing start data that previously had been extrapolated from U. S. Census Bureau data by NAHB economists. Since previous housing start collection efforts were complex and time-consuming, this arrangement insures that the Builder Practices Reports will reach industry users in a more timely manner. In addition, since McGraw Hill Construction Analytics enjoys broad recognition as a leading authority on housing start data, the Builder Practices Reports will benefit by including housing start data generated using enhanced methodology.

Product usage is the total estimated volume or amount of material used for both single-family and multifamily dwellings tabulated by State, Census Division, and the U.S. as a whole. These data are estimated using the coefficients described previously, along with the housing start data for each state. Product usage data are calculated for each individual state and summed to produce totals for each Census Division and for the U.S. as a whole. In addition to product usage tabulations for the current year, a five-year market demand projection is made using current year coefficients and state-level housing start forecasts.

GEOGRAPHIC SAMPLING

The data provided are separated by geographic areas established by the U.S. Census Bureau in 1910, called Census Divisions. The Census Divisions include all 50 states, and the District of Columbia. The nine U.S. Census Divisions are shown in Figure 1 below.

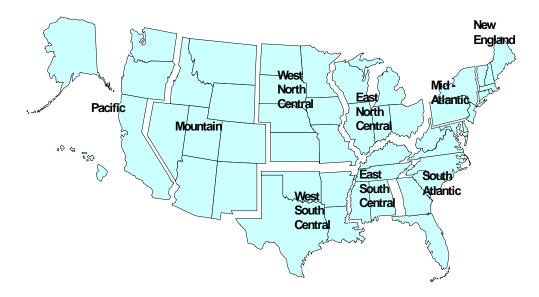


Figure 1: United States Census Division Map

The nine U.S. Census Divisions and the 32 State-Market-Areas utilized by the NAHB Research Center are listed below:

New England

- Connecticut, Massachusetts, Rhode Island
- Maine, New Hampshire, Vermont

Mid-Atlantic

- New Jersey
- New York
- Pennsylvania

South Atlantic

- Delaware, Maryland, the District of Columbia
- Georgia
- Northern Florida (Pinellas, Hillsborough, Polk, Osceola, Indian River counties and north)
- Southern Florida (Manatee, Hardee, Highlands, Okeechobee, St. Lucie counties and south)
- North Carolina, South Carolina
- Virginia, West Virginia

East North Central

- Illinois
- Indiana
- Michigan
- Ohio
- Wisconsin

East South Central

- Alabama, Mississippi
- Kentucky, Tennessee

West North Central

- Iowa, Nebraska
- Kansas, Missouri
- Minnesota
- North Dakota, South Dakota

West South Central

- Arkansas, Oklahoma
- Louisiana, East Texas (Houston to Corpus Christi, and west to the semi-arid plains)
- West Texas (Dallas to San Antonio and west)

Mountain

- Arizona, Nevada, New Mexico
- Colorado, Utah
- Idaho, Montana, Wyoming

Pacific

- Northern California (Monterey, Kings, Tulare, Inyo counties and north)
- Southern California (San Luis Obispo, Kern, San Bernardino counties and south), Hawaii
- Oregon
- Alaska, Washington

133

71

WA, AK

METHODOLOGY

New

In order to gather data for the material usage coefficients, the NAHB Research Center mailed the *Annual Builder Practices Survey* to approximately 49,000 active home building companies nationwide. The sample frame was generated randomly from a pool of NAHB members who indicated that new home construction was their primary occupation. About 1,530 questionnaires were sent to companies in each of the 32 State-Market-Areas. Approximately 2,000 usable responses were received for the 2005 survey—1,915 respondents reported building single-family detached homes and 279 reported building multifamily dwellings (single-family attached—townhouses, row houses, duplexes and apartments). The survey design enabled individual builders to respond to questions about Single Family Detached as well as multifamily dwellings. The number of responses is illustrated in Figure 2.

	p 000	- 11000110u by 00110u0 -		02 0
England	172	West North Central	245	West South Central
CT. MA. RI	106	IA. NE	63	AR. OK

Number of Responses Received by Census Division and 32 State-Market-Area

CT, MA, RI	106	IA, NE	63	AR, OK	60
ME, NH, VT	66	KS, MO	55	LA & East Texas	37
		Minnesota	65	West Texas	36
		ND, SD	62		
Mid-Atlantic	202	South Atlantic	351	Mountain	140
New Jersey	60	DE, MD, DC	60	AZ, NV, NM	39
New York	60	North Florida	68	CO, UT	49
Pennsylvania	82	South Florida	40	ID, MT, WY	52
		Georgia	56		
East North Central	370	NC, SC	74		
Illinois	58	VA, WV	53	Pacific	245
Indiana	71			North California	59
Michigan	93	East South Central	145	South California & Hawaii	65
Ohio	81	AL, MS	72	Oregon	50

Figure 2: Survey Responses Received by Census Division and 32 State-Market-Area

67

Wisconsin

Data for three states—California, Florida, and Texas—are divided because these states have high levels of new home construction activity. The division is made by grouping adjacent counties having similar climate or topography.

KY, TN

73

Since numerous U.S. home building companies have multiple offices throughout the country, each local building establishment of multi-regional and national firms is recognized as a separate entity. Hence, questionnaires were sent to local home building establishments, not to regional offices or national headquarters. To assure that local offices are reporting only on homes built by their own operations and not the homes constructed by operations in other areas, the programming methodology allows a maximum of 200 single-family detached homes per Census Division built by a respondent's local operation. The number of single-family attached homes and multifamily dwellings are limited to 500 per Census Division.

To encourage participation, respondents were offered both a logo shirt and a report limited to market share data for their Census Division and the U.S. totals. Discounting a percentage of surveys that were undeliverable, that reached non-builders, or multiple persons within a single company, the overall response rate was about four percent.

STATISTICAL ESTIMATES

The uncertainty in the estimates presented in this report generally decreases as the sample size increases. The underlying distribution of survey responses is either binomial or multinomial in nature, so the standard deviation of any proportion p estimated from the survey is:

$$\sigma_p = \sqrt{\frac{P \times (1-P)}{n}}$$

where: σ_p = the standard deviation of the estimated proportion,

P = the true proportion, and

n = the sample size (number of responses).

Based on a normal approximation to the binomial distribution, a symmetrical 95 percent confidence interval estimate of the true proportion *P* would be:

$$P = p \pm (1.96 \times \sigma_p)$$

While p for the sample is known, the true proportion P is unknown, so σ_p cannot be computed exactly. Still, a reasonable approximation can be made by using the observed proportion p to estimate σ_p . For example, a 95 percent confidence interval for P, the inclusion of two car garages in single family detached houses built in the United States, based on a sample size of n = 2,003 builders and an observed usage rate of p = 0.638 (or 63.8 percent), would be computed as follows:

$$\sigma_p = \sqrt{\frac{(0.638)(0.362)}{2003}} = 0.0107$$

As a result, the 95 percent confidence interval is:

$$P = 0.638 \pm (1.96 \times 0.0107)$$
, or $0.6170 \le P \le 0.6590$

This calculation indicates that the true value of P is highly likely to be between 0.6170 percent and 0.6590 percent. If the true P had been outside this range, the probability of observing a value p as extreme as the value that was actually observed would be five percent or less (based on a 95 percent confidence interval). This approximation is satisfactory where $n \ge 25$ and p is not too close to 0 or 100 percent. Other methods can be used to compute confidence intervals where these conditions are not met.

Usage rates can be interpreted as proportions of a total, and confidence limits for the proportion multiplied by the total may be used to derive a confidence limit for the coefficient.

CHARACTERISTICS OF NEW SINGLE-FAMILY DETACHED HOMES

STARTER, MOVE-UP, AND LUXURY HOMES

One goal of the *Annual Builder Practices Survey* is to gather information on starter, move-up, and luxury homes built in the survey year. Figure 3 shows the percentage breakdown of all homes built for 2005 compared to the same data for 2004 and 2003.

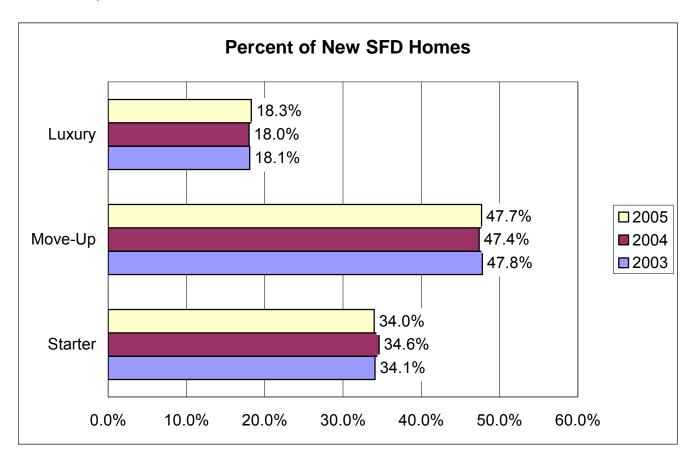


Figure 3: Percent of New SFD Homes

PRICES OF STARTER, MOVE-UP, AND LUXURY HOMES

In 2005, a new single-family detached home (including land) averaged \$320,787 compared to \$281,907 in 2004 and \$265,695 in 2003.

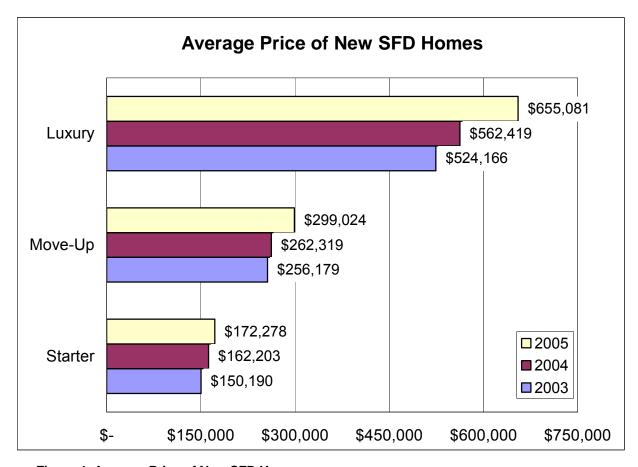


Figure 4: Average Price of New SFD Homes

SIZES OF STARTER, MOVE-UP, AND LUXURY HOMES

Survey tabulations show that the average square feet of finished floor of all new single-family detached homes in the sample was 2,382 square feet. This indicates an increase in square feet of finished floor, up from 2,282 in 2004 which was almost unchanged from 2003's 2,288 square feet of finished floor. Figure 5 separates the results by starter, move-up, and luxury homes.

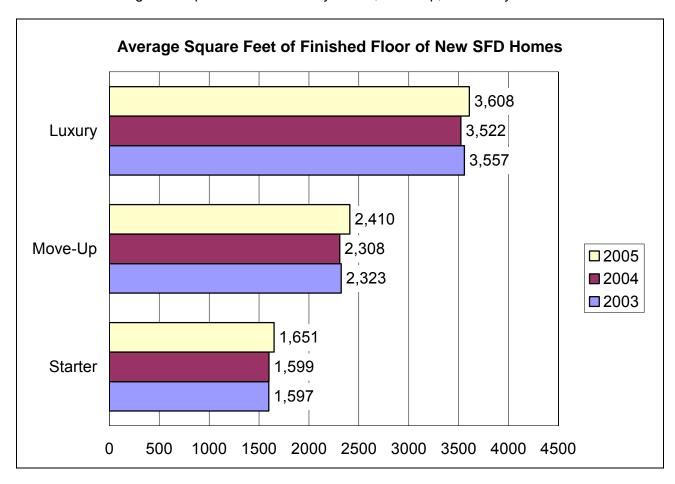


Figure 5: Average Square Feet of Finished Floor of New SFD Homes

APPENDICES: THE BUILDER PRACTICES REPORTS

Data for the *Builder Practices Reports* are presented in the following appendices:

APPENDIX A - PRODUCT USAGE

This section contains product usage data, an estimate of the total volume or amount of material used in a geographic area. To calculate this data, the coefficients from Appendices B and C are multiplied by the estimated housing starts data provided by McGraw Hill Construction Analytics.

APPENDIX B - SINGLE FAMILY DETACHED COEFFICIENTS

This section contains per-house averages of materials usage (coefficients) for single-family detached homes.

APPENDIX C - MULTIFAMILY COEFFICIENTS

This section contains per-dwelling-unit averages of materials usage (coefficients) for multifamily dwellings (duplexes, townhouses and row houses, as well as low-rise Apartments-up to and including four stories).

APPENDIX D – GENERAL CHARACTERISTICS

This section contains data on the general characteristics of new homes within the sample built by builders nationwide, separately for single-family detached and multifamily dwellings. The general characteristics tables for single-family detached homes also provide data for starter, move-up, and luxury homes. These terms are understood by builders who market their homes at price points coinciding with these three terms. And, since houses can vary widely in price and size across the United States, the NAHB Research Center does not establish price, size, or price-per-square-foot criteria for homes in these categories, but allows individual builders to categorize their homes based on individual housing market criteria.

Distinctions are made when referring to structures generally categorized as "multifamily dwellings". One set of general characteristics is included for single-family attached homes (townhouses and duplexes), while another set describes units in apartment or condominium buildings. Single-family attached dwellings are generally defined as sharing one or more common walls, with each unit resting on a separate foundation. On the other hand, units located in apartment or condominium buildings are defined as sharing a common foundation with another unit. Typically, both types of units require fire-rated walls between units.

APPENDIX E - ANNUAL BUILDER PRACTICES QUESTIONNAIRE

This section contains a copy of the 2005 Annual Builder Practices Questionnaire.

APPENDIX A

PRODUCT USAGE TABLES

	2005	2006 (forecast)	2007 (forecast)	2008 (forecast)	2009 (forecast)	2010 (forecast)
UNITED STATES			All Data in T	"housands		
HOUSING STARTS			All Data III I	Housarius		
Single-Family Detached	1.626.5	1.545.0	1,400.0	1,350.0	1.390.0	1.420.0
Multifamily (SFA & MF)	508.7	494.8	469.7	444.9	450.0	465.0
TOTAL	2,135.2	2,039.8	1,869.7	1,794.9	1,840.0	1,885.0
STRUCTURED WIRING & HOME ELECTRONICS						
SECURITY AND HOME AUTOMATION SYSTEMS						
Systems Installed						
Intercom / Entrance Phone	170.3	162.2	149.4	143.1	146.1	150.3
Video Entrance Phone	36.5	34.3	32.3	31.2	31.6	32.5
Whole home control or automation system	54.1	51.1	46.5	44.7	45.8	46.9
Security system - not monitored by protection service	510.5	485.6	444.9	427.2	437.9	448.5
Security system - monitored by protection service	385.4	369.3	337.8	322.4	329.9	338.0
Lighting control system	76.3	73.1	66.2	62.9	64.2	65.7
Programmable Thermostat	1,162.6	1,110.6	1,019.2	979.0	1,005.1	1,031.5
Communicating Thermostat	19.6	18.8	17.5	16.7	16.9	17.3
Monitored fire / toxic gas alarm system	280.1	265.5	244.7	234.4	239.4	245.7
Whole-house Audio System	184.0	176.0	161.3	155.0	158.9	162.8
Whole-house Video Access	74.8	71.9	66.3	63.3	64.8	66.4
Built-in Home Theater	172.1	164.4	148.5	141.9	145.9	149.5
Electrical Load-monitoring / control System	18.4	17.5	16.0	15.4	15.7	16.1
Multi-line phone system	632.0	605.7	556.9	535.1	549.0	563.4
HOMES WITH STRUCTURED WIRING						
Builders installing structured wiring	1,311.6	1,253.6	1,147.4	1,101.3	1,129.0	1,156.9
All homes	892.3	850.1	778.7	746.7	765.8	786.3
CENTRAL VACUUMS Systems Installed						
Central vacuum - full system	179.0	169.7	154.3	149.0	153.4	156.7
Central vacuum - pre-pipe only	68.0	64.0	57.8	56.2	58.1	59.5

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	2005	2006 (forecast)	2007 (forecast)	2008 (forecast)	2009 (forecast)	2010 (forecast)
NEW ENGLAND			All Data in T	Thousands		
HOUSING STARTS						
Single-Family Detached	37.2	35.9	34.5	33.0	34.1	35.7
Multifamily (SFA & MF) TOTAL	22.0 59.2	19.8 55.7	16.7 51.2	15.9 48.9	15.3 49.4	15.8 51.5
TOTAL	37.2	55.7	31.2	40.7	47.4	31.3
STRUCTURED WIRING & HOME ELECTRONICS						
SECURITY AND HOME AUTOMATION SYSTEMS Systems Installed						
Intercom / Entrance Phone	2.5	2.4	2.3	2.3	2.3	2.4
Video Entrance Phone	0.8	0.8	0.8	0.7	0.8	0.8
Whole home control or automation system	2.6	2.5	2.4	2.4	2.4	2.6
Security system - not monitored by protection service		7.9	7.4	7.1	7.2	7.6
Security system - monitored by protection service	14.4	13.7	12.7	12.2	12.4	12.9
Lighting control system	1.9	1.9	1.8	1.8	1.8	1.9
Programmable Thermostat	24.7	23.5	22.1	21.2	21.6	22.6
Communicating Thermostat	0.8	0.8	0.8	0.7	0.8	0.8
Monitored fire / toxic gas alarm system	11.3	10.7	9.9	9.4	9.6	10.0
Whole-house Audio System	7.8	7.4	6.9	6.7	6.8	7.1
Whole-house Video Access	3.0	3.0	2.9	2.8	2.9	3.1
Built-in Home Theater	2.4	2.3	2.2	2.1	2.1	2.2
Electrical Load-monitoring / control System	0.5	0.5	0.5	0.5	0.5	0.5
Multi-line phone system	22.4	21.1	19.4	18.6	18.8	19.6
HOMES WITH STRUCTURED WIRING						
Builders installing structured wiring	35.1	33.1	30.4	29.0	29.4	30.6
All homes	29.1	27.3	24.9	23.8	23.9	24.9
CENTRAL VACUUMS Systems Installed						
Central vacuum - full system	10.4	10.1	9.7	9.4	9.7	10.2
Central vacuum - pre-pipe only	8.0	7.5	6.8	6.5	6.5	6.8

	2005	2006 (forecast)	2007 (forecast)	2008 (forecast)	2009 (forecast)	2010 (forecast)
MID-ATLANTIC			All Data in 1	housands -		
HOUSING STARTS			7 Data	asaas		
Single-Family Detached	74.5	72.7	69.6	66.0	67.5	69.4
Multifamily (SFA & MF)	58.0	52.6	48.6	43.5	43.5	44.0
TOTAL	132.6	125.3	118.2	109.5	110.9	113.5
STRUCTURED WIRING & HOME ELECTRONICS						
SECURITY AND HOME AUTOMATION SYSTEMS						
Systems Installed						
Intercom / Entrance Phone	5.8	5.5	5.2	4.9	5.0	5.1
Video Entrance Phone	1.2	1.2	1.1	1.0	1.1	1.1
Whole home control or automation system	3.8	3.6	3.4	3.3	3.3	3.4
Security system - not monitored by protection service	10.2	9.6	9.1	8.4	8.5	8.6
Security system - monitored by protection service	23.6	22.4	21.1	19.7	20.0	20.5
Lighting control system	6.6	6.3	6.0	5.7	5.8	5.9
Programmable Thermostat	72.8	68.8	65.1	60.7	61.5	63.0
Communicating Thermostat	1.0	1.0	0.9	0.9	0.9	0.9
Monitored fire / toxic gas alarm system	23.6	22.3	21.1	19.6	19.9	20.4
Whole-house Audio System	12.2	11.8	11.2	10.4	10.6	10.9
Whole-house Video Access	9.3	9.0	8.5	7.9	8.0	8.2
Built-in Home Theater	4.1	4.0	3.8	3.6	3.7	3.8
Electrical Load-monitoring / control System	0.2	0.2	0.2	0.2	0.2	0.2
Multi-line phone system	32.2	31.1	29.7	27.9	28.4	29.2
HOMES WITH STRUCTURED WIRING						
Builders installing structured wiring	69.6	66.0	62.3	58.1	58.9	60.4
All homes	58.9	55.6	52.5	48.4	49.0	50.1
CENTRAL VACUUMS Systems Installed						
Central vacuum - full system	16.3	15.8	15.2	14.5	14.8	15.3
Central vacuum - pre-pipe only	3.6	3.5	3.3	3.1	3.1	3.2

	2005	2006	2007	2008	2009	2010
FACT NODELL CENTRAL		(forecast)	(forecast)	(forecast)	(forecast)	(forecast)
EAST NORTH CENTRAL			All Data in T	bousands		
HOUSING STARTS			All Data III I	Tiousarius		
Single-Family Detached	170.0	167.9	153.0	152.6	158.2	160.8
Multifamily (SFA & MF)	55.9	51.1	44.6	43.0	45.7	47.8
TOTAL	225.9	218.9	197.7	195.7	203.9	208.6
STRUCTURED WIRING & HOME ELECTRONICS						
SECURITY AND HOME AUTOMATION SYSTEMS						
Systems Installed						
Intercom / Entrance Phone	11.5	10.8	9.6	9.4	9.8	10.1
Video Entrance Phone	1.6	1.5	1.3	1.3	1.4	1.4
Whole home control or automation system	7.0	6.6	5.9	5.8	6.0	6.2
Security system - not monitored by protection service	19.9	19.5	17.7	17.6	18.4	18.8
Security system - monitored by protection service	21.9	21.4	19.4	19.4	20.1	20.6
Lighting control system	5.5	5.4	4.8	4.7	4.9	5.0
Programmable Thermostat	112.3	109.5	99.2	98.4	102.4	104.7
Communicating Thermostat	0.8	0.8	0.7	0.7	0.8	0.8
Monitored fire / toxic gas alarm system	24.7	23.6	21.0	20.7	21.7	22.3
Whole-house Audio System	16.7	16.4	14.7	14.6	15.1	15.4
Whole-house Video Access	6.7	6.6	5.9	5.8	6.1	6.2
Built-in Home Theater	7.8	7.6	6.8	6.8	7.0	7.2
Electrical Load-monitoring / control System	2.9	2.7	2.4	2.4	2.4	2.5
Multi-line phone system	40.6	39.6	35.8	35.5	36.9	37.6
HOMES WITH STRUCTURED WIRING						
Builders installing structured wiring	133.3	129.4	116.7	115.5	120.1	122.8
All homes	79.0	76.9	69.4	68.8	71.7	73.4
CENTRAL VACUUMS Systems Installed						
Central vacuum - full system	11.2	11.0	10.0	10.0	10.3	10.5
Central vacuum - pre-pipe only	4.7	4.6	4.3	4.3	4.4	4.5

	2005	2006 (forecast)	2007 (forecast)	2008 (forecast)	2009 (forecast)	2010 (forecast)
WEST NORTH CENTRAL			All Data in T	housands		
HOUSING STARTS			All Data III I	Tiousarius		
Single-Family Detached	94.4	91.1	80.5	78.2	79.1	79.8
Multifamily (SFA & MF)	23.8	25.6	25.9	23.9	23.2	24.0
TOTAL	118.3	116.7	106.3	102.1	102.3	103.8
STRUCTURED WIRING & HOME ELECTRONICS						
SECURITY AND HOME AUTOMATION SYSTEMS						
Systems Installed						
Intercom / Entrance Phone	8.1	8.1	7.5	7.2	7.2	7.3
Video Entrance Phone	1.0	1.0	0.9	0.9	0.9	0.9
Whole home control or automation system	2.2	2.1	1.9	1.8	1.9	1.9
Security system - not monitored by protection service	12.6	12.6	11.7	11.2	11.2	11.4
Security system - monitored by protection service	12.8	12.4	11.3	11.0	11.2	11.3
Lighting control system	2.2	2.2	2.0	1.9	1.9	2.0
Programmable Thermostat	57.3	55.8	49.7	48.1	48.4	48.9
Communicating Thermostat	1.4	1.4	1.3	1.2	1.2	1.2
Monitored fire / toxic gas alarm system	11.7	11.5	10.5	10.2	10.3	10.5
Whole-house Audio System	14.0	13.5	12.1	11.8	12.0	12.1
Whole-house Video Access	4.4	4.2	3.8	3.7	3.7	3.8
Built-in Home Theater	8.1	7.7	7.0	6.9	7.0	7.0
Electrical Load-monitoring / control System	0.7	0.7	0.6	0.6	0.6	0.6
Multi-line phone system	46.0	45.6	42.2	40.4	40.4	41.1
HOMES WITH STRUCTURED WIRING						
Builders installing structured wiring	71.7	70.6	64.3	61.8	62.0	62.9
All homes	38.2	37.3	33.8	32.7	33.0	33.4
CENTRAL VACUUMS Systems Installed						
Central vacuum - full system	8.8	8.5	7.6	7.4	7.5	7.6
Central vacuum - pre-pipe only	2.3	2.2	2.0	2.0	2.0	2.0

	2005	2006 (forecast)	2007 (forecast)	2008 (forecast)	2009 (forecast)	2010 (forecast)
SOUTH ATLANTIC		(Horceast)			(Torceast)	(Torecast)
			All Data in T	housands		
HOUSING STARTS						
Single-Family Detached	480.8	455.1	416.3	401.6	412.1	420.2
Multifamily (SFA & MF)	163.3	150.8	147.2	143.2	143.3	148.3
TOTAL	644.1	605.9	563.5	544.8	555.4	568.5
STRUCTURED WIRING & HOME ELECTRONICS						
SECURITY AND HOME AUTOMATION SYSTEMS						
Systems Installed						
Intercom / Entrance Phone	69.0	64.4	60.7	58.8	59.5	61.1
Video Entrance Phone	25.0	23.2	22.3	21.6	21.8	22.5
Whole home control or automation system	17.7	16.7	15.6	15.1	15.3	15.7
Security system - not monitored by protection service	204.1	191.0	178.6	173.1	176.3	180.4
Security system - monitored by protection service	132.1	124.4	115.9	112.1	114.4	117.3
Lighting control system	24.2	22.6	21.1	20.4	20.7	21.3
Programmable Thermostat	282.5	265.8	247.2	239.3	244.3	250.0
Communicating Thermostat	6.3	5.9	5.6	5.4	5.5	5.7
Monitored fire / toxic gas alarm system	109.1	101.9	95.2	92.0	93.4	95.7
Whole-house Audio System	56.7	53.8	49.7	48.0	49.2	50.3
Whole-house Video Access	20.3	19.3	17.9	17.4	17.8	18.2
Built-in Home Theater	33.0	31.3	28.9	27.9	28.6	29.3
Electrical Load-monitoring / control System	9.8	9.2	8.6	8.3	8.5	8.7
Multi-line phone system	168.9	159.5	149.1	144.4	147.4	151.1
HOMES WITH STRUCTURED WIRING						
	391.7	368.6	342.3	330.8	337.4	345.2
Builders installing structured wiring All homes	391.7 231.1	308.0 218.0	342.3 203.8	330.8 197.1	200.8	345.2 205.9
All nomes	231.1	218.0	203.8	197.1	200.8	205.9
CENTRAL VACUUMS Systems Installed						
Central vacuum - full system	49.6	47.0	42.9	41.3	42.3	43.2
Central vacuum - pre-pipe only	15.8	15.2	14.0	13.5	14.0	14.3

	2005	2006 (forecast)	2007 (forecast)	2008 (forecast)	2009 (forecast)	2010 (forecast)
EAST SOUTH CENTRAL			All Data in T	[housands		
HOUSING STARTS			All Data III I	mousanus		
Single-Family Detached	106.3	105.6	98.4	90.2	90.9	90.7
Multifamily (SFA & MF)	18.2	18.6	16.9	16.7	16.9	17.0
TOTAL	124.6	124.2	115.3	106.9	107.9	107.7
STRUCTURED WIRING & HOME ELECTRONICS						
SECURITY AND HOME AUTOMATION SYSTEMS						
Systems Installed						
Intercom / Entrance Phone	5.0	5.0	4.7	4.4	4.4	4.4
Video Entrance Phone	0.8	0.8	0.8	0.7	0.7	0.7
Whole home control or automation system	2.7	2.7	2.5	2.4	2.4	2.4
Security system - not monitored by protection service	32.0	31.8	29.1	26.6	26.8	26.7
Security system - monitored by protection service	32.3	32.3	30.3	28.1	28.4	28.4
Lighting control system	1.4	1.4	1.3	1.2	1.3	1.3
Programmable Thermostat	41.2	41.0	37.7	34.6	34.9	34.8
Communicating Thermostat	3.3	3.3	3.0	2.7	2.7	2.7
Monitored fire / toxic gas alarm system	13.0	13.0	12.0	11.2	11.3	11.3
Whole-house Audio System	7.8	7.8	7.3	6.7	6.8	6.8
Whole-house Video Access	3.5	3.5	3.2	3.0	3.0	3.0
Built-in Home Theater	5.9	5.8	5.5	5.1	5.2	5.2
Electrical Load-monitoring / control System	0.9	0.9	0.9	0.8	0.8	0.8
Multi-line phone system	28.1	27.9	25.9	23.8	24.0	23.9
HOMES WITH STRUCTURED WIRING						
Builders installing structured wiring	68.4	68.2	63.3	58.7	59.2	59.1
All homes	39.6	39.3	36.3	33.5	33.7	33.6
CENTRAL VACUUMS Systems Installed						
Central vacuum - full system	13.4	13.3	12.5	11.6	11.7	11.7
Central vacuum - pre-pipe only	2.9	2.9	2.7	2.5	2.5	2.5

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	2005	2006 (forecast)	2007 (forecast)	2008 (forecast)	2009 (forecast)	2010 (forecast)
WEST SOUTH CENTRAL			All Data in T	housands		
HOUSING STARTS			All Data III I	nousunus		
Single-Family Detached	230.9	224.1	192.4	175.6	178.7	183.5
Multifamily (SFA & MF) TOTAL	50.9	53.7 277.9	48.9	48.0	50.8	51.8
TOTAL	281.8	211.9	241.3	223.6	229.5	235.3
STRUCTURED WIRING & HOME ELECTRONICS						
SECURITY AND HOME AUTOMATION SYSTEMS Systems Installed						
Intercom / Entrance Phone	30.4	29.7	25.6	23.3	23.6	24.2
Video Entrance Phone	3.1	3.0	2.6	2.4	2.4	2.5
Whole home control or automation system	6.1	6.0	5.1	4.7	4.8	4.9
Security system - not monitored by protection service	111.7	110.2	95.9	89.4	92.2	94.6
Security system - monitored by protection service	88.8	87.1	75.4	69.4	71.0	72.7
Lighting control system	22.1	21.7	18.6	16.9	17.2	17.6
Programmable Thermostat	157.7	154.9	134.3	123.9	126.7	129.8
Communicating Thermostat	1.3	1.3	1.1	1.0	1.0	1.1
Monitored fire / toxic gas alarm system	32.6	31.8	27.2	24.8	25.2	25.9
Whole-house Audio System	20.5	19.9	17.2	15.8	16.1	16.6
Whole-house Video Access	10.3	10.0	8.5	7.8	8.0	8.3
Built-in Home Theater	56.2	54.9	47.7	43.9	44.6	45.5
Electrical Load-monitoring / control System	2.0	1.9	1.7	1.5	1.5	1.6
Multi-line phone system	92.1	91.4	79.5	73.9	76.2	78.2
HOMES WITH STRUCTURED WIRING						
Builders installing structured wiring	189.9	186.7	162.1	149.8	153.3	157.0
All homes	136.8	133.5	115.2	105.8	108.2	111.0
CENTRAL VACUUMS Systems Installed						
Central vacuum - full system	12.2	11.7	10.0	9.1	9.3	9.6
Central vacuum - pre-pipe only	0.7	0.7	0.6	0.6	0.6	0.6

		200/	2007	2008	2009	2010
	2005	2006 (forecast)	2007 (forecast)	2008 (forecast)	2009 (forecast)	2010 (forecast)
MOUNTAIN			All Data in 1	[housands		
HOUSING STARTS			7.11 Data 111 1	ousunus		
Single-Family Detached	212.9	194.3	172.6	171.6	180.8	186.5
Multifamily (SFA & MF)	42.1	44.5	41.4	37.7	39.3	42.4
TOTAL	255.1	238.7	214.1	209.3	220.1	228.9
STRUCTURED WIRING & HOME ELECTRONICS						
SECURITY AND HOME AUTOMATION SYSTEMS						
Systems Installed						
Intercom / Entrance Phone	21.5	20.2	18.3	18.1	19.1	20.1
Video Entrance Phone	1.3	1.2	1.0	1.0	1.1	1.1
Whole home control or automation system	7.9	7.2	6.1	5.9	6.1	6.2
Security system - not monitored by protection service	42.0	38.5	34.5	34.2	36.0	37.2
Security system - monitored by protection service	27.2	25.5	23.0	22.6	23.8	24.8
Lighting control system	4.3	4.0	3.5	3.4	3.6	3.7
Programmable Thermostat	179.2	169.2	152.1	148.2	156.0	162.7
Communicating Thermostat	1.5	1.4	1.3	1.3	1.3	1.4
Monitored fire / toxic gas alarm system	18.4	17.3	15.6	15.3	16.1	16.8
Whole-house Audio System	16.4	15.1	13.4	13.1	13.8	14.2
Whole-house Video Access	4.5	4.1	3.6	3.6	3.7	3.9
Built-in Home Theater	33.6	31.1	27.8	27.5	29.0	30.0
Electrical Load-monitoring / control System	0.7	0.7	0.6	0.6	0.6	0.7
Multi-line phone system	89.2	83.9	75.2	73.3	77.1	80.2
HOMES WITH STRUCTURED WIRING						
Builders installing structured wiring	174.9	164.0	147.3	143.9	151.4	157.6
All homes	137.4	128.5	115.3	112.9	118.8	123.5
CENTRAL VACUUMS Systems Installed						
Central vacuum - full system	36.6	33.2	29.0	28.7	30.1	30.8
Central vacuum - pre-pipe only	22.4	20.6	18.0	17.9	18.8	19.4

	2005	2006 (forecast)	2007 (forecast)	2008 (forecast)	2009 (forecast)	2010 (forecast)
PACIFIC			All Data in T	housands		
HOUSING STARTS			7 iii Data iii 1	Tiousurius		
Single-Family Detached	219.4	198.3	182.7	181.2	188.6	193.3
Multifamily (SFA & MF)	74.4	78.2	79.5	73.1	71.8	74.0
TOTAL	293.8	276.4	262.2	254.2	260.5	267.3
STRUCTURED WIRING & HOME ELECTRONICS						
SECURITY AND HOME AUTOMATION SYSTEMS						
Systems Installed						
Intercom / Entrance Phone	16.6	16.0	15.5	14.8	15.1	15.5
Video Entrance Phone	1.7	1.5	1.4	1.4	1.5	1.5
Whole home control or automation system	4.1	3.8	3.5	3.5	3.6	3.7
Security system - not monitored by protection service	69.5	64.4	60.9	59.6	61.4	63.2
Security system - monitored by protection service	32.3	30.3	28.7	28.0	28.7	29.5
Lighting control system	8.1	7.6	7.1	6.9	7.0	7.2
Programmable Thermostat	234.9	222.0	211.7	204.7	209.3	215.0
Communicating Thermostat	3.0	2.9	2.8	2.7	2.7	2.8
Monitored fire / toxic gas alarm system	35.6	33.6	32.2	31.2	31.9	32.9
Whole-house Audio System	32.0	30.3	28.9	28.0	28.6	29.4
Whole-house Video Access	12.7	12.4	11.9	11.4	11.5	11.8
Built-in Home Theater	21.1	19.7	18.7	18.3	18.7	19.3
Electrical Load-monitoring / control System	0.7	0.6	0.6	0.6	0.6	0.6
Multi-line phone system	112.5	105.7	100.2	97.3	99.7	102.4
HOMES WITH STRUCTURED WIRING						
Builders installing structured wiring	177.0	167.2	158.7	153.6	157.2	161.2
All homes	142.2	133.8	127.6	123.8	126.7	130.4
CENTRAL VACUUMS Systems Installed						
Central vacuum - full system	20.5	18.9	17.3	17.0	17.6	17.9
Central vacuum - pre-pipe only	7.4	6.8	6.1	6.0	6.2	6.2

APPENDIX B

SINGLE-FAMILY DETACHED USAGE COEFFICIENT TABLES

	NEW ENG	MID ATL	E N CEN	W N CEN	S ATL	E S CEN	W S CEN	MTN	PAC	US TOTAL
STRUCTURED WIRING & HOME ELECTRON	ics									
SECURITY AND HOME AUTOMATION SYSTEMS										
Systems Installed										
Intercom / Entrance Phone Video Entrance Phone	0.062 0.021	0.053 0.015	0.030 0.008	0.062 0.010	0.072 0.012	0.043 0.008	0.131 0.013	0.088 0.006	0.044 0.008	0.071 0.010
video Entrance Phone	0.021	0.015	0.008	0.010	0.012	0.008	0.013	0.006	0.008	0.010
Whole home control or automation system	0.067	0.039	0.024	0.023	0.022	0.021	0.026	0.036	0.016	0.026
Security system - not monitored by protection	0.152	0.073	0.091	0.091	0.299	0.291	0.363	0.191	0.263	0.241
Security system - monitored by protection serv	0.255	0.192	0.107	0.126	0.193	0.273	0.345	0.109	0.113	0.187
Lighting control system	0.050	0.071	0.028	0.019	0.029	0.009	0.096	0.017	0.030	0.037
Programmable Thermostat	0.530	0.559	0.532	0.561	0.452	0.365	0.604	0.668	0.763	0.560
Communicating Thermostat	0.021	0.012	0.005	0.012	0.006	0.031	0.006	0.007	0.007	0.009
Manitoned fire / toyle man along avotors	0.197	0.172	0.073	0.106	0.137	0.098	0.141	0.074	0.114	0.118
Monitored fire / toxic gas alarm system Whole-house Audio System	0.155	0.172	0.073	0.106	0.137	0.098	0.141	0.074	0.114	0.118
Whole-house Video Access	0.133	0.132	0.032	0.143	0.102	0.031	0.042	0.020	0.032	0.036
Whole-house video Access	0.062	0.096	0.032	0.041	0.032	0.031	0.042	0.020	0.032	0.030
Built-in Home Theater	0.054	0.050	0.039	0.082	0.060	0.048	0.237	0.146	0.076	0.096
Electrical Load-monitoring / control System	0.011	0.003	0.010	0.007	0.013	0.009	0.009	0.003	0.003	0.008
Multi-line phone system	0.388	0.366	0.210	0.358	0.258	0.248	0.297	0.340	0.387	0.300
HOMES WITH STRUCTURED WIRING										
Builders installing structured wiring	0.601	0.557	0.615	0.616	0.625	0.558	0.712	0.679	0.585	0.629
All homes	0.454	0.419	0.355	0.353	0.329	0.337	0.548	0.546	0.478	0.420
Starter builders installing structured wiring	0.363	0.451	0.593	0.536	0.417	0.511	0.605	0.523	0.490	0.499
Starter homes	0.238	0.378	0.282	0.229	0.204	0.209	0.557	0.371	0.289	0.306
	0.540	0.540	0.405	0.504	0.440	0.407	0.455	0.440	0.547	0.400
Moveup builders installing structured wiring	0.548	0.548	0.605	0.581	0.619	0.497	0.655	0.660	0.546	0.603
Moveup homes	0.442	0.363	0.339	0.370	0.380	0.352	0.518	0.675	0.563	0.457
Luxury builders installing structured wiring	0.701	0.678	0.733	0.796	0.764	0.680	0.777	0.829	0.691	0.752
Luxury homes	0.551	0.590	0.555	0.665	0.613	0.500	0.623	0.623	0.646	0.607
CENTRAL VACUUMS										
Systems Installed										
Central vacuum - full system	0.267	0.206	0.064	0.091	0.100	0.107	0.053	0.170	0.085	0.105
Central vacuum - pre-pipe only	0.115	0.043	0.027	0.021	0.033	0.023	0.003	0.105	0.034	0.039

APPENDIX C

MULTIFAMILY
USAGE COEFFICIENT TABLES

	NEW ENG	MID ATL	E N CEN	W N CEN	S ATL	E S CEN	W S CEN	MTN	PAC	US TOTAL
STRUCTURED WIRING & HOME ELECTRON	ICS									
SECURITY AND HOME AUTOMATION SYSTEMS										
Systems Installed										
Intercom / Entrance Phone	0.008	0.032	0.114	0.095	0.209	0.027	0.001	0.068	0.094	0.108
Video Entrance Phone	0.000	0.001	0.005	0.005	0.117	0.000	0.000	0.002	0.000	0.039
Whole home control or automation system	0.004	0.016	0.052	0.000	0.043	0.027	0.001	0.004	0.009	0.024
Security system - not monitored by protection	0.123	0.083	0.079	0.168	0.369	0.059	0.549	0.034	0.159	0.233
Security system - monitored by protection serv	0.225	0.161	0.064	0.038	0.240	0.181	0.178	0.097	0.100	0.161
Lighting control system	0.004	0.023	0.014	0.018	0.062	0.027	0.000	0.013	0.021	0.030
Programmable Thermostat	0.227	0.536	0.391	0.181	0.398	0.135	0.358	0.879	0.906	0.496
Communicating Thermostat	0.002	0.002	0.000	0.011	0.020	0.000	0.000	0.000	0.019	0.010
Monitored fire / toxic gas alarm system	0.181	0.185	0.221	0.072	0.266	0.141	0.000	0.063	0.141	0.173
Whole-house Audio System	0.092	0.041	0.035	0.022	0.048	0.070	0.031	0.039	0.128	0.056
Whole-house Video Access	0.000	0.035	0.024	0.023	0.030	0.010	0.014	0.007	0.077	0.031
Built-in Home Theater	0.018	0.007	0.020	0.013	0.025	0.043	0.028	0.061	0.058	0.030
Electrical Load-monitoring / control System	0.007	0.000	0.021	0.003	0.023	0.000	0.000	0.003	0.000	0.010
Multi-line phone system	0.362	0.085	0.088	0.514	0.274	0.091	0.461	0.401	0.370	0.284
HOMES WITH STRUCTURED WIRING										
Builders installing structured wiring	0.579	0.484	0.516	0.565	0.558	0.500	0.500	0.722	0.654	0.566
All homes	0.556	0.476	0.332	0.204	0.446	0.202	0.204	0.501	0.503	0.410
Starter builders installing structured wiring	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Starter homes	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Moveup builders installing structured wiring	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Moveup homes	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Luxury builders installing structured wiring	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Luxury homes	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
OFFITTAL MACHINA										
CENTRAL VACUUMS Systems Installed										
Central vacuum - full system	0.022	0.017	0.007	0.010	0.010	0.107	0.000	0.007	0.024	0.015
Central vacuum - pre-pipe only	0.170	0.006	0.000	0.012	0.000	0.025	0.000	0.003	0.000	0.010

APPENDIX D

GENERAL CHARACTERISTICS

GENERAL CHARACTERISTICS

of

SINGLE-FAMILY DETACHED DWELLINGS

	NEW ENG	MID ATL	E N CEN	W N CEN	S ATL	E S CEN	W S CEN	MTN	PAC	US TOTAL
GENERAL CHARACTERISTICS ALL SINGLE FAMILY DETACHED HOMES										
ALL SINGLE FAMILY DETACHED HOMES										
Builders in Sample	168	190	353	233	330	144	126	134	237	1,915
Units in Sample Average Square Feet of Finished Floor	777 2,712	1,750 2,578	4,656 2,286	2,752 2,045	5,111 2,395	1,370 2,386	2,721 2,662	2,064 2,209	4,400 2,322	25,601 2,382
Average Sales Price Including Land	\$480,542	\$388,380	\$282,925	\$294,316	\$320,332	\$254,898	\$266,220	\$336,200	\$386,894	\$320,787
Average Lot Size in Square Feet	60,133	32,909	24,109	21,584	24,590	28,690	13,227	14,731	15,467	21,693
Average SF of Finished Basement	107	207	201	391	74	121	2	53	87	104
Percent Homes w/Finished Basement	16.2%	21.2%	21.7%	41.1%	5.6%	12.1%	0.2%	3.4%	8.7%	10.1%
STARTER HOMES										
Builders in Sample	44	57	122	91	101	56	37	36	76	620
Units in Sample	180	517	1,332	1,093	1,870	392	602	709	1,501	8,196
Average Square Feet of Finished Floor	1,730	1,771	1,567	1,619	1,684	1,557	1,674	1,680	1,598	1,651
Average Sales Price Including Land	\$210,511	\$186,146	\$167,035	\$195,124	\$162,852	\$134,179	\$143,236	\$204,670	\$193,567	\$172,278
Average Lot Size in Square Feet	46,649	19,607	18,616	15,586	23,266	24,000	9,262	7,870	15,043	17,636
Average SF of Finished Basement	122	90	78	314	25	92	2	20	2	50
Percent Homes w/Finished Basement	25.5%	11.0%	13.5%	41.0%	2.1%	11.5%	0.2%	2.2%	0.2%	6.6%
MOVE-UP HOMES										
Builders in Sample	83	111	221	142	164	79	62	65	114	1,041
Units in Sample	292	853	2,518	1,366	2,259	755	1,534	1,015	2,015	12,607
Average Square Feet of Finished Floor	2,389	2,582	2,325	2,010	2,505	2,508	2,686	2,070	2,379	2,410
Average Sales Price Including Land	\$387,280	\$344,332	\$265,299	\$278,995	\$306,418	\$244,087	\$239,614	\$297,603	\$377,754	\$299,024
Average Lot Size in Square Feet	57,041	27,808	22,613	20,737	22,777	22,565	10,427	10,931	9,965	18,609
Average SF of Finished Basement	151	373	286	463	135	102	1	32	161	150
Percent Homes w/Finished Basement	21.6%	36.9%	30.1%	50.6%	9.9%	10.7%	0.0%	2.6%	16.1%	14.4%
LUXURY HOMES										
Builders in Sample	89	90	170	96	182	63	80	74	126	970
Units in Sample	305	380	806	293	982	223	585	340	884	4,798
Average Square Feet of Finished Floor	3,651	3,719	3,457	3,481	3,775	3,478	3,619	3,657	3,374	3,608
Average Sales Price Including Land	\$738,821	\$744,808	\$558,211	\$666,484	\$677,090	\$508,174	\$489,831	\$775,303	\$760,781	\$655,081
Average Lot Size in Square Feet	72,307	61,178	35,943	48,067	32,180	56,146	27,251	42,356	35,617	38,404
Average SF of Finished Basement	54	11	182	653	39	235	4	160	26	110
Percent Homes w/Finished Basement	4.2%	0.8%	13.7%	31.9%	2.5%	17.1%	0.7%	8.2%	2.1%	6.7%
AGGREGATION BY TYPE										
By Units										
Starter	23.5%	30.4%	29.7%	38.3%	41.2%	28.9%	22.4%	38.6%	32.8%	34.0%
Move-up	38.6%	48.3%	52.8%	51.2%	40.2%	54.7%	57.9%	46.2%	47.1%	47.7%
Luxury	37.9%	21.4%	17.4%	10.5%	18.6%	16.4%	19.7%	15.2%	20.1%	18.3%
TOTAL	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

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	NEW ENG	MID ATL	E N CEN	W N CEN	S ATL	E S CEN	W S CEN	MTN	PAC	US TOTAL
ALL HOMES										
TYPE OF FOUNDATION										
Percent of new homes										
Full basement	95.5%	84.3%	69.4%	91.0%	22.4%	21.9%	0.2%	23.7%	1.6%	30.0%
Partial basement & crawl space	2.1% 1.0%	6.9% 2.9%	16.7%	3.4% 0.6%	2.1% 1.4%	4.6% 1.1%	0.2%	3.6% 0.9%	12.5%	5.4%
Partial basement & slab Crawl space, continuous wall	0.0%	2.9%	1.3% 6.0%	2.4%	1.4%	1.1%	1.6% 0.3%	0.9% 14.4%	1.3% 29.6%	1.3% 13.0%
Slab	0.9%	3.1%	6.4%	2.6%	56.7%	52.3%	96.8%	57.3%	54.6%	49.8%
Piers	0.4%	0.2%	0.2%	0.0%	1.0%	0.3%	0.9%	0.0%	0.4%	0.5%
TOTAL	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
NUMBER OF STORIES										
Percent of new homes										
One	19.7%	21.6%	44.3%	62.5%	58.6%	67.1%	56.2%	61.4%	48.3%	53.9%
Two	74.6%	78.2%	55.2%	37.1%	40.1%	31.7%	43.7%	37.5%	51.1%	45.2%
Three	5.7%	0.2%	0.5%	0.3%	1.3%	1.2%	0.1%	1.1%	0.7%	0.9%
TOTAL	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
GARAGES										
Percent of new homes	8.4%	6.1%	0.9%	2.8%	7.9%	3.2%	2.8%	1.9%	3.4%	4.4%
One car garages Two car garages	63.3%	67.8%	62.3%	41.8%	68.9%	72.4%	61.7%	59.1%	5.4% 64.7%	63.8%
Three or more car garages	21.1%	20.4%	35.5%	54.5%	16.7%	15.8%	26.8%	38.5%	31.0%	27.3%
One car carport	0.3%	0.1%	0.1%	0.1%	0.3%	0.7%	3.8%	0.0%	0.2%	0.7%
Two car carport	0.0%	0.1%	0.2%	0.1%	0.8%	0.8%	2.8%	0.0%	0.0%	0.7%
No garage	6.9%	5.4%	1.0%	0.6%	5.4%	7.1%	2.0%	0.4%	0.6%	3.0%
TOTAL	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
AVERAGE NUMBER OF ROOMS										
Per Home	0.40	0.70	0.50	0.07	0.40	0.55	0.44	0.44	0.44	0.54
Bedrooms Full or 3/4 Bathrooms	3.69 2.39	3.72 2.17	3.52 2.08	3.37 2.12	3.48 2.48	3.55 2.15	3.44 2.36	3.44 2.05	3.66 2.27	3.51 2.28
Half Bathrooms	1.08	0.96	0.80	0.78	0.59	0.69	0.57	0.78	0.70	0.70
Total Rooms	8.19	8.40	7.82	7.91	7.56	7.95	7.66	7.96	8.17	7.83
Closets	7.60	6.91	6.38	6.02	6.43	6.00	6.06	6.15	5.85	6.25
PURPOSE OF BUILDING Percent of New Homes										
For speculation on builder's land	31.4%	23.9%	26.0%	27.4%	27.4%	49.9%	42.5%	32.8%	51.2%	34.7%
Presold on builder's land	28.5%	47.2%	40.3%	45.2%	45.7%	21.3%	47.9%	55.7%	31.1%	42.9%
For the owner on the owner's land	37.3%	23.8%	29.8%	20.5%	24.6%	25.9%	9.0%	10.5%	13.4%	19.7%
For builder's personal occupancy	0.4%	0.3%	0.2%	6.4%	0.1%	0.4%	0.1%	0.3%	0.2%	0.6%
For rent	0.3%	0.4%	0.3%	0.3%	0.8%	2.5%	0.3%	0.0%	1.7%	0.7%
Not reported	2.2%	4.4%	3.4%	0.2%	1.3%	0.0%	0.2%	0.6%	2.4%	1.5%
TOTAL	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
HOMES FOR OLDER BUYERS										
Percent of New Homes	4.004	2 22/	0.50/	2 221	E 504		F 00/	10 101	2 22/	, 50,
Built in "active adult" / age-restricted commun	4.3%	2.9%	2.5%	8.8%	5.5%	4.8%	5.2%	19.4%	2.3%	6.5%
Sold to occupants over the age of 55	21.5%	18.6%	26.9%	25.2%	39.6%	21.6%	33.8%	32.4%	28.4%	31.6%
AVERAGE UNITS PER BUILDER										
All Single-Family Detached Homes	5.0	9.9	15.0	14.7	17.5	10.3	28.4	22.2	22.9	18.9
- •										

STARTER HOMES TYPE OF FOUNDATION Present of new homes Full basement & 92.5% Full basement & 92.5% Full basement & 92.5% Partial basement & 92.		NEW ENG	MID ATL	E N CEN	W N CEN	S ATL	E S CEN	W S CEN	MTN	PAC	US TOTAL
Percent of new homes	STARTER HOMES										
Full basement & crawi space 1.8% 14.8% 18.2% 19.7% 9.9% 11.6% 0.2% 19.3% 0.3% 22.7% Partial basement & crawi space 1.8% 14.8% 18.2% 0.15% 0.15% 0.2% 0.0% 2.5% 0.0% 2.0% 0.6% 0.8% 0.4% 0.6% 0.0% 2.5% 0.0% 0.0% 0.6% 0.8% 0.0%	TYPE OF FOUNDATION										
Partial basement & crawl space Partial basement & stable Partial basem	Percent of new homes										
Partial basement & Salab 2.6% 2.8% 0.4% 0.0% 0.0% 2.5% 0.0% 0.0% 0.0% 0.08% 0.0% 0.08% 0.0%	Full basement	92.5%	73.4%	62.5%				0.2%	19.3%	0.3%	22.7%
Craw Space, continuous wall 0.0%	•										
Sibb 1,5											
Piers											
NUMBER OF STORIES Percent of new homes One 42.7% 40.2% 56.6% 77.0% 71.3% 88.4% 74.3% 56.1% 57.2% 65.7% Two 56.6% 59.8% 43.4% 23.0% 27.9% 10.1% 25.7% 43.9% 42.8% 34.0% Three 0.1% 0.00% 100.0%											
NUMBER OF STORIES Percent of new homes One 42.7% 40.2% 56.6% 77.0% 71.3% 88.4% 74.3% 56.1% 57.2% 65.7% Two 56.6% 59.8% 43.4% 23.0% 27.9% 10.1% 25.7% 43.0% 42.8% 34.0% Three 0.0.7% 0.0% 0.0% 0.0% 10											
Percent of new homes	TOTAL	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
One 42.7% 40.2% 56.6% 77.0% 71.3% 88.4% 74.3% 56.1% 57.2% 65.7% 72.9% 43.9% 42.8% 34.0% 71.7% 10.1% 25.7% 43.9% 42.8% 34.0% 71.7% 10.1% 25.7% 43.9% 42.8% 34.0% 71.7% 71.3% 88.4% 71.5% 0.0%	NUMBER OF STORIES										
Two 156.6% 59.8% 43.4% 23.0% 27.9% 10.1% 25.7% 43.9% 42.8% 34.0% 17hree 10.0%	Percent of new homes										
Three TOTAL 10.0% 10.0% 10.0% 100.0%	One	42.7%	40.2%	56.6%	77.0%	71.3%	88.4%	74.3%	56.1%	57.2%	65.7%
TOTAL 100.0% 100	Two	56.6%	59.8%	43.4%	23.0%	27.9%	10.1%	25.7%	43.9%	42.8%	34.0%
GARAGES Percent of new homes One car garages	Three	0.7%	0.0%	0.0%	0.0%	0.8%	1.5%	0.0%	0.0%	0.0%	0.4%
Percent of new homes One car garages 25.9% 15.4% 2.8% 5.4% 5.4% 13.8% 4.7% 7.9% 8.5% 75.4% 77.5% 81.9% 73.8% 73.8% 75.4% 77.5% 81.9% 73.8% 75.4% 77.5% 81.9% 73.8% 75.4% 77.5% 81.9% 73.8% 75.4% 77.5% 81.9% 73.8% 75.4% 77.5% 81.9% 73.8% 75.4% 77.5% 81.9% 73.8% 75.4% 77.5% 81.9% 73.8% 75.4% 77.5% 81.9% 73.8% 75.4% 77.5% 81.9% 73.8% 75.4% 77.5% 81.9% 73.8% 75.4% 77.5% 81.9% 73.8% 75.4% 13.6% 6.9% 6.7% 6.7% 6.8% 6.7% 6.8% 6.9% 6.7% 6.8% 6.9% 6.8% 6.9% 6.7% 6.8% 6.9% 6.7% 6.8% 6.9% 6.7% 6.8% 6.9% 6.8% 75.4% 13.6% 6.9% 6.7% 6.9% 6.7% 6.9% 6.7% 6.9% 6.9% 6.7% 6.9% 6.9% 6.7% 6.9% 6.9% 6.9% 6.9% 6.9% 6.9% 6.9% 6.9	TOTAL	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
One car garages 25,9% 15.4% 2.8% 5.4% 13.8% 4.7% 7.9% 8.5% 9.5% 9.8% Two car garages 52.8% 67.6% 87.3% 62.6% 69.4% 66.8% 75.4% 77.5% 81.9% 73.8% Three or more car garages 0.8% 2.2% 7.2% 30.4% 2.8% 2.1% 2.4% 13.6% 6.9% 6.7% One car carport 0.5% 0.0% 0.0% 0.2% 0.4% 2.1% 0.2% 0.0% 0.3% 0.4% Two car carport 0.1% 0.1% 0.2% 0.1% 0.3% 0.7% 8.7% 0.0% 0.0% 1.4% No garage 20.0% 14.7% 2.4% 1.4% 13.3% 23.5% 5.3% 0.4% 1.3% 7.9% For Home 1.60 10.0% 10.0% 10.0% 10.0% 3.18 3.08 3.00 3.23 3.23 3.13 Full or 3/4 Bathrooms 1.60 1.71 1.70											
Two car garages 52.8% 67.6% 87.3% 62.6% 69.4% 66.8% 75.4% 77.5% 81.9% 73.8% Three or more car garages 0.8% 2.2% 7.2% 30.4% 2.8% 2.1% 2.4% 13.6% 6.9% 6.7% 0.0c car carport 0.5% 0.0% 0.0% 0.0% 0.2% 0.4% 2.1% 2.4% 13.6% 6.9% 0.3% 0.4% 1.0c car carport 0.1% 0.1% 0.1% 0.2% 0.1% 0.3% 0.7% 8.7% 0.0% 0.0% 0.0% 1.4% No garage 20.0% 14.7% 2.4% 1.4% 13.3% 23.5% 5.3% 0.4% 1.3% 7.9% TOTAL 100.0% 1											
Three or more car garages 0.8% 2.2% 7.2% 30.4% 2.8% 2.1% 2.4% 13.6% 6.9% 6.7% One car carport 0.5% 0.0% 0.0% 0.2% 0.4% 2.1% 0.2% 0.0% 0.0% 0.3% 0.4% No garage 10.1% 0.1% 0.1% 0.2% 0.1% 13.3% 23.5% 5.3% 0.4% 1.36% 6.9% 1.4% No garage 20.0% 14.7% 2.4% 1.4% 13.3% 23.5% 5.3% 0.4% 100.0	0 0										
One car carport 0.5% 0.0% 0.0% 0.2% 0.4% 2.1% 0.2% 0.0% 0.3% 0.4% Two car carport 0.1% 0.1% 0.2% 0.1% 0.3% 0.7% 8.7% 0.0% 0.0% 1.4% No garage 20.0% 14.7% 2.4% 1.4% 13.3% 23.5% 5.3% 0.4% 1.3% 7.9% TOTAL 100.0% <td>0 0</td> <td></td>	0 0										
Two car carport 0.1% 0.1% 0.2% 0.2% 0.1% 0.3% 0.7% 8.7% 0.0% 0.0% 1.4% No garage 20.0% 14.7% 2.4% 1.4% 13.3% 23.5% 5.3% 0.4% 1.3% 7.9% TOTAL 100.0% 1	5 5										
No garage 20.0% 14.7% 2.4% 1.4% 13.3% 23.5% 5.3% 0.4% 1.3% 7.9% TOTAL 100.0% 10	•										
TOTAL AVERAGE NUMBER OF ROOMS Per Home Bedrooms	•										
AVERAGE NUMBER OF ROOMS Per Home Bedrooms 3.15 3.17 3.00 2.96 3.18 3.08 3.00 3.23 3.23 3.13 Full or 3/4 Bathrooms 1.60 1.71 1.70 1.88 2.09 1.79 1.97 1.77 2.00 1.92 Half Bathrooms 0.78 0.85 0.53 0.44 0.34 0.28 0.19 0.68 0.42 0.43 Total Rooms 6.33 6.44 6.28 7.34 6.29 6.31 6.54 7.02 6.37 6.50 Closets 6.45 5.35 5.44 5.31 5.59 5.19 4.68 5.18 5.06 5.29 PURPOSE OF BUILDING Percent of New Homes For speculation on builder's land 42.4% 24.6% 28.7% 26.5% 28.4% 51.3% 50.9% 29.5% 59.3% 37.5% Presold on builder's land 27.8% 36.3% 33.5% 54.4% 52.3% 20.3% 40.1% 63.1% 21.3% 42.6%											
Per Home Bedrooms 3.15 3.17 3.00 2.96 3.18 3.08 3.00 3.23 3.23 3.13 Full or 3/4 Bathrooms 1.60 1.71 1.70 1.88 2.09 1.79 1.97 1.77 2.00 1.92 Half Bathrooms 0.78 0.85 0.53 0.44 0.34 0.28 0.19 0.68 0.42 0.43 Total Rooms 6.33 6.44 6.28 7.34 6.29 6.31 6.54 7.02 6.37 6.50 Closets 6.45 5.35 5.44 5.31 5.59 5.19 4.68 5.18 5.06 5.29 PURPOSE OF BUILDING Percent of New Homes For speculation on builder's land 42.4% 24.6% 28.7% 26.5% 28.4% 51.3% 50.9% 29.5% 59.3% 37.5% Presold on builder's land 27.8% 36.3% 33.5% 54.4% 52.3% 20.3% 40.1% <td>TOTAL</td> <td>100.0%</td>	TOTAL	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Bedrooms 3.15 3.17 3.00 2.96 3.18 3.08 3.00 3.23 3.23 3.13 Full or 3/4 Bathrooms 1.60 1.71 1.70 1.88 2.09 1.79 1.97 1.77 2.00 1.92 Half Bathrooms 0.78 0.85 0.53 0.44 0.34 0.28 0.19 0.68 0.42 0.43 Total Rooms 6.33 6.44 6.28 7.34 6.29 6.31 6.54 7.02 6.37 6.50 Closets 6.45 5.35 5.44 5.31 5.59 5.19 4.68 5.18 5.06 5.29 PURPOSE OF BUILDING Percent of New Homes For speculation on builder's land 42.4% 24.6% 28.7% 26.5% 28.4% 51.3% 50.9% 29.5% 59.3% 37.5% Presold on builder's land 27.8% 36.3% 33.5% 54.4% 52.3% 20.3% 40.1% 63.1%											
Full or 3/4 Bathrooms 1.60 1.71 1.70 1.88 2.09 1.79 1.97 1.77 2.00 1.92 Half Bathrooms 0.78 0.85 0.53 0.44 0.34 0.28 0.19 0.68 0.42 0.43 Total Rooms 6.33 6.44 6.28 7.34 6.29 6.31 6.54 7.02 6.37 6.50 Closets 6.45 5.35 5.44 5.31 5.59 5.19 4.68 5.18 5.06 5.29 PURPOSE OF BUILDING Percent of New Homes For speculation on builder's land 42.4% 24.6% 28.7% 26.5% 28.4% 51.3% 50.9% 29.5% 59.3% 37.5% Presold on builder's land 27.8% 36.3% 33.5% 54.4% 52.3% 20.3% 40.1% 63.1% 21.3% 42.6%		2.15	2 17	2.00	2.04	2.10	2.00	2.00	າກາ	2 22	2.12
Half Bathrooms 0.78 0.85 0.53 0.44 0.34 0.28 0.19 0.68 0.42 0.43 Total Rooms 6.33 6.44 6.28 7.34 6.29 6.31 6.54 7.02 6.37 6.50 Closets 6.45 5.35 5.44 5.31 5.59 5.19 4.68 5.18 5.06 5.29 PURPOSE OF BUILDING Percent of New Homes For speculation on builder's land 42.4% 24.6% 28.7% 26.5% 28.4% 51.3% 50.9% 29.5% 59.3% 37.5% Presold on builder's land 27.8% 36.3% 33.5% 54.4% 52.3% 20.3% 40.1% 63.1% 21.3% 42.6%											
Total Rooms 6.33 6.44 6.28 7.34 6.29 6.31 6.54 7.02 6.37 6.50 Closets 6.45 5.35 5.44 5.31 5.59 5.19 4.68 5.18 5.06 5.29 PURPOSE OF BUILDING Percent of New Homes For speculation on builder's land 42.4% 24.6% 28.7% 26.5% 28.4% 51.3% 50.9% 29.5% 59.3% 37.5% Presold on builder's land 27.8% 36.3% 33.5% 54.4% 52.3% 20.3% 40.1% 63.1% 21.3% 42.6%											
Closets 6.45 5.35 5.44 5.31 5.59 5.19 4.68 5.18 5.06 5.29 PURPOSE OF BUILDING Percent of New Homes For speculation on builder's land 42.4% 24.6% 28.7% 26.5% 28.4% 51.3% 50.9% 29.5% 59.3% 37.5% Presold on builder's land 27.8% 36.3% 33.5% 54.4% 52.3% 20.3% 40.1% 63.1% 21.3% 42.6%											
Percent of New Homes For speculation on builder's land 42.4% 24.6% 28.7% 26.5% 28.4% 51.3% 50.9% 29.5% 59.3% 37.5% Presold on builder's land 27.8% 36.3% 33.5% 54.4% 52.3% 20.3% 40.1% 63.1% 21.3% 42.6%											
Percent of New Homes For speculation on builder's land 42.4% 24.6% 28.7% 26.5% 28.4% 51.3% 50.9% 29.5% 59.3% 37.5% Presold on builder's land 27.8% 36.3% 33.5% 54.4% 52.3% 20.3% 40.1% 63.1% 21.3% 42.6%	PURPOSE OF BUILDING										
For speculation on builder's land 42.4% 24.6% 28.7% 26.5% 28.4% 51.3% 50.9% 29.5% 59.3% 37.5% Presold on builder's land 27.8% 36.3% 33.5% 54.4% 52.3% 20.3% 40.1% 63.1% 21.3% 42.6%											
Presold on builder's land 27.8% 36.3% 33.5% 54.4% 52.3% 20.3% 40.1% 63.1% 21.3% 42.6%		42.4%	24.6%	28.7%	26.5%	28.4%	51.3%	50.9%	29.5%	59.3%	37.5%
	•										
For builder's personal occupancy 0.0% 0.4% 0.2% 0.4% 0.0% 0.8% 0.1% 0.4% 0.0% 0.2%											
For rent 0.3% 0.8% 0.2% 0.1% 0.8% 8.0% 0.2% 0.0% 1.6% 1.1%											
Not reported 4.0% 12.9% 4.9% 0.0% 0.2% 0.0% 0.0% 0.0% 3.8% 1.8%											
TOTAL 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0%	•										

	NEW ENG	MID ATL	E N CEN	W N CEN	S ATL	E S CEN	W S CEN	MTN	PAC	US TOTAL
MOVE-UP HOMES										
TYPE OF FOUNDATION										
Percent of new homes										
Full basement	97.1%	91.6%	68.3%	96.2%	26.1%	20.5%	0.2%	24.8%	1.0%	31.6%
Partial basement & crawl space	2.5%	3.6%	18.6%	1.9%	2.4%	2.1%	0.1%	3.1%	16.2%	5.7%
Partial basement & slab	0.4%	2.6%	1.7%	0.1%	2.2%	0.5%	0.0%	0.1%	2.0%	1.3%
Crawl space, continuous wall	0.0%	1.6%	6.5%	1.0%	14.9%	11.5%	0.1%	11.6%	26.6%	11.1%
Slab	0.0%	0.5%	4.7%	0.8%	54.1%	65.2%	99.4%	60.4%	54.0%	50.1%
Piers	0.0%	0.1%	0.3%	0.0%	0.3%	0.2%	0.2%	0.0%	0.2%	0.2%
TOTAL	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
NUMBER OF STORIES										
Percent of new homes										
One	14.3%	12.9%	38.1%	56.3%	61.2%	61.5%	54.5%	70.9%	39.8%	52.7%
Two	85.3%	87.1%	61.8%	43.6%	38.4%	38.5%	45.4%	29.1%	59.9%	47.1%
Three	0.4%	0.0%	0.1%	0.2%	0.4%	0.0%	0.1%	0.0%	0.3%	0.2%
TOTAL	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
GARAGES										
Percent of new homes										
One car garages	4.5%	0.9%	0.1%	0.2%	4.4%	3.2%	0.9%	0.0%	0.9%	1.9%
Two car garages	86.3%	82.6%	59.9%	33.9%	76.3%	82.3%	67.2%	52.5%	63.0%	66.8%
Three or more car garages	4.8%	15.8%	39.4%	65.4%	17.1%	13.9%	23.9%	47.2%	35.6%	29.1%
One car carport	0.0%	0.2%	0.1%	0.0%	0.0%	0.1%	6.0%	0.0%	0.0%	0.9%
Two car carport	0.0%	0.2%	0.1%	0.2%	1.2%	0.5%	0.7%	0.0%	0.0%	0.5%
No garage	4.3%	0.3%	0.5%	0.4%	1.0%	0.1%	1.4%	0.3%	0.5%	0.8%
TOTAL	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
AVERAGE NUMBER OF ROOMS										
Per Home	2.55	2.04	2.47	2 /1	2.51	2.75	2.24	2.24	2.75	2.52
Bedrooms	3.55	3.84	3.67	3.61	3.51	3.65	3.34	3.26	3.75	3.53
Full or 3/4 Bathrooms	2.14	2.06	2.07	2.16	2.47	2.06	2.27	1.96	2.24	2.23
Half Bathrooms	1.02	1.03	0.84	0.86	0.67	0.79	0.54	0.63	0.82	0.73
Total Rooms Closets	7.81 7.75	8.60 7.10	8.23 6.43	7.85 6.26	7.78 6.41	8.43 5.89	7.40 5.92	7.90 6.21	8.73 5.85	8.00 6.26
	7.75	7.10	0.43	0.20	0.41	3.09	5.92	0.21	3.03	0.20
PURPOSE OF BUILDING										
Percent of New Homes										
For speculation on builder's land	31.7%	19.6%	24.8%	29.8%	28.5%	52.1%	40.9%	32.1%	46.5%	34.0%
Presold on builder's land	34.9%	58.1%	46.3%	41.1%	39.2%	22.7%	53.4%	63.0%	41.3%	45.2%
For the owner on the owner's land	32.6%	19.5%	25.1%	19.7%	29.5%	24.8%	5.4%	4.4%	10.7%	18.5%
For builder's personal occupancy	0.0%	0.1%	0.2%	9.1%	0.2%	0.2%	0.1%	0.1%	0.1%	0.7%
For rent	0.3%	0.3%	0.4%	0.4%	1.7%	0.2%	0.2%	0.0%	0.3%	0.7%
Not reported	0.6%	2.4%	3.1%	0.0%	0.9%	0.0%	0.0%	0.3%	1.1%	0.9%
TOTAL	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

	NEW ENG	MID ATL	E N CEN	W N CEN	S ATL	E S CEN	W S CEN	MTN	PAC	US TOTAL
LUXURY HOMES			_							
TYPE OF FOUNDATION										
Percent of new homes										
Full basement	95.9%	86.4%	82.6%	92.8%	34.4%	43.8%	0.1%	26.6%	9.4%	38.0%
Partial basement & crawl space	1.6%	0.5%	4.4%	1.1%	3.0%	7.0%	0.5%	6.0%	6.7%	3.7%
Partial basement & slab	0.6%	4.8%	1.7%	1.8%	0.8%	1.1%	7.0%	3.0%	1.3%	2.4%
Crawl space, continuous wall	0.1%	7.6%	2.3%	2.1%	13.9%	23.7%	0.4%	36.7%	24.0%	14.5%
Slab	1.1%	0.6%	8.6%	2.2%	43.3%	23.6%	89.4%	27.7%	57.0%	39.4%
Piers	0.8%	0.2%	0.4%	0.0%	4.6%	0.8%	2.6%	0.0%	1.6%	2.1%
TOTAL	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
NUMBER OF STORIES										
Percent of new homes										
One	11.0%	11.1%	42.4%	59.3%	37.3%	45.9%	47.8%	60.1%	55.3%	44.8%
Two	76.2%	88.3%	54.7%	39.0%	59.0%	49.4%	52.0%	35.0%	41.9%	52.1%
Three	12.8%	0.6%	2.9%	1.7%	3.6%	4.7%	0.2%	4.9%	2.8%	3.2%
TOTAL	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
GARAGES										
Percent of new homes										
One car garages	1.9%	2.2%	0.0%	0.5%	2.7%	0.4%	2.8%	0.0%	0.2%	1.4%
Two car garages	47.4%	41.0%	25.3%	16.8%	42.8%	50.0%	33.7%	24.1%	39.3%	35.8%
Three or more car garages	49.0%	56.7%	73.4%	82.7%	51.5%	47.1%	61.3%	74.7%	59.4%	61.0%
One car carport	0.4%	0.0%	0.3%	0.0%	0.6%	0.1%	0.1%	0.0%	0.3%	0.3%
Two car carport	0.0%	0.0%	0.3%	0.0%	0.5%	2.3%	2.0%	0.2%	0.2%	0.7%
No garage	1.3%	0.0%	0.7%	0.0%	2.0%	0.0%	0.1%	1.0%	0.6%	0.9%
TOTAL	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
AVERAGE NUMBER OF ROOMS										
Per Home										
Bedrooms	4.17	4.20	3.91	3.96	4.11	4.05	4.18	4.05	4.26	4.10
Full or 3/4 Bathrooms	3.15	2.92	2.80	2.87	3.35	3.11	3.03	2.91	2.80	3.05
Half Bathrooms	1.33	1.13	1.16	1.43	1.05	1.10	1.10	1.11	0.81	1.08
Total Rooms	9.74	10.77	9.26	10.02	9.72	9.34	9.32	9.42	9.72	9.62
Closets	8.11	8.71	7.85	7.51	8.12	7.77	7.94	7.32	7.28	7.82
PURPOSE OF BUILDING										
Percent of New Homes	00.00:	24.00/	0.4.50/	01.001	04.40:	44.007	20.00/	07.00:	E4 E0:	00.00/
For speculation on builder's land	23.0%	31.3%	24.5%	26.0%	24.6%	41.8%	39.0%	27.8%	51.5%	32.2%
Presold on builder's land	22.3%	35.9%	34.5%	23.3%	27.6%	19.3%	38.2%	18.5%	17.7%	26.8%
For the owner on the owner's land	51.2%	30.3%	38.6%	46.6%	41.8%	38.7%	20.8%	51.0%	23.0%	36.9%
For builder's personal occupancy	1.0%	0.4%	0.3%	2.1%	0.4%	0.1%	0.3%	0.7%	0.5%	0.5%
For rent	0.3%	0.0%	0.1%	0.4%	0.0%	0.0%	0.9%	0.1%	3.7%	0.7%
Not reported	2.3%	2.1%	2.1%	1.7%	5.5%	0.0%	0.7%	2.1%	3.6%	2.9%
TOTAL	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

SINGLE FAMILY DETACHED HOUSES -- 2005 DATA

BUILDER PRACTICES REPORT: Copyright 2006, NAHB Research Center, Inc.

	NEW ENG	MID ATL	E N CEN	W N CEN	S ATL	E S CEN	W S CEN	MTN	PAC	US TOTAL
ALL HOMES										
DISTRIBUTION BY SIZE OF BUILDER Percentage of Builders in Sample										
1 to 10 homes	91.6%	76.3%	77.6%	77.4%	73.6%	77.8%	64.6%	78.7%	79.7%	77.5%
11 to 25 homes	6.2%	14.3%	13.3%	12.6%	13.0%	18.1%	18.9%	9.2%	7.4%	12.5%
26 to 100 homes	2.2%	9.4%	6.5%	8.3%	10.4%	3.5%	9.0%	5.5%	7.0%	6.9%
Over 100 homes	0.0%	0.0%	2.6%	1.7%	3.0%	0.7%	7.5%	6.6%	6.0%	3.1%
TOTAL	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
DISTRIBUTION BY SIZE OF BUILDER										
Percentage of Homes in Sample										
1 to 10 homes	61.5%	22.3%	26.0%	24.4%	19.4%	33.6%	15.1%	18.1%	18.7%	26.6%
11 to 25 homes	23.2%	25.9%	18.4%	18.9%	14.9%	33.4%	16.5%	8.8%	11.1%	19.0%
26 to 100 homes	15.3%	51.7%	27.1%	30.8%	36.6%	23.0%	17.5%	27.7%	22.8%	28.1%
Over 100 homes	0.0%	0.0%	28.6%	25.9%	29.2%	10.0%	50.9%	45.3%	47.3%	26.4%
TOTAL	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

GENERAL CHARACTERISTICS

of

MULTIFAMILY **D**WELLINGS

	NEW ENG	MID ATL	E N CEN	W N CEN	S ATL	E S CEN	W S CEN	MTN	PAC	US TOTAL
GENERAL CHARACTERISTICS ALL MULTIFAMILY HOMES										
ALL MULTIFAMILY HOMES										
Builders in Sample	19	31	65	46	52	10	12	18	26	279
Units in Sample Average Square Feet of Finished Floor	329 1,501	956 1.491	1,997 1,321	832 1,341	3,670 1,447	204 1,196	202 1.403	921 1.358	965 1,358	10,075 1,402
Average Sales Price Including Land	\$352,576	\$279,390	\$194,782	\$179,459	\$255,869	\$157,283	\$151,663	\$187,343	\$195,431	\$223,972
TOWNHOUSES (SINGLE-FAMILY ATTACHED)										
Builders in Sample	11	22	44	40	28	7	8	10	16	186
Units in Sample	180	705	623	377	809	72	116	229	338	3,449
Average Square Feet of Finished Floor	1,801	1,574	1,543	1,563	1,682	1,452	1,502	1,548	1,792	1,633
Average Sales Price Including Land	\$422,161	\$304,149	\$205,788	\$220,874	\$258,840	\$118,470	\$152,112	\$213,342	\$251,870	\$242,969
Average Lot Size in Square Feet	3,015	5,526	4,318	4,789	3,110	5,028	4,144	3,367	2,889	3,754
Average SF of Finished Basement	57	47	359	266	0	0	4	37 4.37%	421	125
Percent Homes w/Finished Basement	8.89%	8.23%	45.39%	30.64%	0.00%	0.00%	0.86%	4.37%	59.77%	16.93%
APARTMENTS										
Builders in Sample	10	13	39	13	32	4	7	15	12	145
Units in Sample	149	251	1,373	455	2,861	132	86	692	627	6,625
Average Square Feet of Finished Floor	1,140	1,260	1,220	1,157	1,380	1,056	1,269	1,295	1,125	1,261
Average Sales Price Including Land	\$268,570	\$209,739	\$189,785	\$145,143	\$255,029	\$178,518	\$151,057	\$178,735	\$165,022	\$205,508
AGGREGATION BY TYPE										
By Units Townhouses	54.7%	73.8%	31.2%	45.3%	22.0%	35.4%	57.4%	24.9%	35.0%	37.6%
Apartments	54.7% 45.3%	73.8% 26.2%	31.2% 68.8%	45.3% 54.7%	78.0%	35.4% 64.6%	57.4% 42.6%	24.9% 75.1%	35.0% 65.0%	37.6% 62.4%
TOTAL	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
DISTRIBUTION BY SIZE OF BUILDER										
Percentage of Builders in Sample										
1 to 10 homes	57.9%	48.4%	60.0%	60.9%	38.5%	60.0%	50.0%	38.9%	57.7%	52.5%
11 to 25 homes	31.6%	29.0%	15.4%	21.7%	15.4%	10.0%	25.0%	11.1%	15.4%	19.4%
26 to 100 homes	5.3%	16.1%	15.4%	13.0%	23.1%	30.0%	25.0%	33.3%	19.2%	20.1%
Over 100 homes	5.3%	6.5%	9.2%	4.4%	23.1%	0.0%	0.0%	16.7%	7.7%	8.1%
TOTAL	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
DISTRIBUTION BY SIZE OF BUILDER										
Percentage of Homes in Sample 1 to 10 homes	14.4%	8.4%	8.7%	14.9%	3.0%	13.7%	12.4%	5.5%	4.8%	9.5%
1 to 10 nomes 11 to 25 homes	14.4% 29.1%	8.4% 19.3%	8.7% 8.4%	14.9% 15.8%	3.0% 4.0%	5.5%	12.4% 26.0%	5.5% 3.3%	4.8% 7.2%	9.5% 13.2%
26 to 100 homes	17.0%	24.6%	28.2%	34.8%	17.4%	80.8%	61.6%	26.0%	28.5%	35.4%
Over 100 homes	39.5%	47.7%	54.8%	34.5%	75.6%	0.0%	0.0%	65.2%	59.4%	41.9%
TOTAL	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

	NEW ENG	MID ATL	E N CEN	W N CEN	S ATL	E S CEN	W S CEN	MTN	PAC	US TOTAL
ALL HOMES										
TYPE OF FOUNDATION ALL MULTIFAMILY Percent of new homes										
Full basement	90.2%	53.0%	44.9%	32.7%	3.2%	0.0%	0.0%	3.3%	0.2%	17.8%
Partial basement & crawl space	7.1%	8.1%	0.1%	11.9%	0.0%	0.0%	0.0%	9.0%	23.0%	5.9%
Partial basement & slab	0.0%	6.5%	1.0%	6.3%	6.2%	0.0%	0.5%	0.9%	5.7%	4.1%
Crawl space, continuous wall	2.0%	2.2%	4.2%	2.9%	3.0%	0.5%	1.6%	13.2%	23.0%	6.5%
Slab	0.7%	30.2%	49.7%	46.2%	82.3%	99.5%	97.8%	69.5%	48.2%	63.7%
Piers TOTAL	0.0% 100.0%	0.0% 100.0%	0.0% 100.0%	0.0% 100.0%	5.3% 100.0%	0.0% 100.0%	0.0% 100.0%	4.3% 100.0%	0.0% 100.0%	2.0% 100.0%
NUMBER OF STORIES AND MULTIFAMULY										
NUMBER OF STORIES ALL MULTIFAMILY										
Percent of new homes One	32.5%	7.9%	28.4%	51.4%	9.4%	21.7%	73.6%	18.4%	14.0%	22.6%
Two	57.2%	33.7%	38.0%	20.0%	40.3%	44.0%	73.5%	29.7%	68.5%	39.2%
Three	5.6%	47.9%	24.2%	27.9%	33.3%	34.3%	16.2%	24.9%	13.9%	27.3%
Four	4.7%	10.6%	9.4%	0.7%	17.0%	0.0%	2.8%	27.1%	3.6%	11.0%
TOTAL	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
GARAGES										
Percent of new homes										
One car garage	21.3%	54.1%	12.0%	28.0%	27.2%	24.1%	27.5%	32.3%	19.7%	27.6%
Two car garage	52.6%	23.2%	56.1%	40.3%	16.8%	9.7%	50.9%	29.8%	60.2%	35.1%
Three or more car garages	0.0%	0.0%	1.5%	2.2%	0.0%	0.0%	1.5%	3.3%	0.1%	0.7%
One car carport	0.0%	0.0%	0.0%	0.0%	0.0%	9.1%	3.5%	0.0%	11.3%	2.3%
Two car carport	0.0%	0.0%	0.0%	0.0%	2.3%	0.0%	0.0%	0.0%	1.5%	1.0%
No garage or carport TOTAL	26.2% 100.0%	22.7% 100.0%	30.3% 100.0%	29.6% 100.0%	53.7% 100.0%	57.1% 100.0%	16.6% 100.0%	34.6% 100.0%	7.2% 100.0%	33.3% 100.0%
TOTAL	100.070	100.070	100.070	100.070	100.070	100.070	100.070	100.070	100.070	100.070
AVERAGE NUMBER OF ROOMS Per Home										
Bedrooms	2.31	2.55	2.17	2.24	2.37	2.32	2.40	2.40	2.61	2.40
Full or 3/4 Bathrooms	1.80	1.94	1.76	1.73	1.77	1.87	2.02	1.90	1.82	1.84
Half Bathrooms	0.66	0.74	0.45	0.30	0.27	0.34	0.29	0.49	0.19	0.37
Total Rooms	6.43	5.84	5.10	5.70	5.03	5.35	6.11	5.52	5.61	5.47
Closets	5.07	5.20	4.37	4.29	4.54	5.03	4.92	4.84	3.94	4.60
PURPOSE OF BUILDING Percent of New Homes										
For speculation on builder's land	20.0%	48.1%	29.5%	31.1%	15.6%	21.1%	48.1%	30.7%	16.8%	26.6%
Presold on builder's land	56.5%	20.5%	23.9%	14.1%	31.3%	18.2%	23.0%	38.7%	16.9%	26.7%
For the owner on the owner's land	5.9%	11.0%	10.5%	18.9%	38.3%	1.0%	9.9%	6.1%	40.1%	23.2%
For builder's personal occupancy	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
For rent	8.0%	14.7%	19.4%	25.7%	12.2%	51.5%	15.3%	0.5%	23.9%	16.2%
Not reported	9.7%	5.8%	16.8%	10.3%	2.7%	8.3%	3.8%	24.0%	2.3%	7.3%
TOTAL	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
HOMES FOR OLDER BUYERS Percent of New Homes										
Built in "active adult" / age-restricted commur	11.0%	4.3%	8.5%	3.1%	15.1%	0.0%	56.6%	5.9%	8.4%	14.2%
Sold to occupants over the age of 55	39.1%	36.7%	54.5%	42.2%	55.3%	24.3%	64.0%	22.5%	25.7%	44.5%
AVERAGE UNITS PER BUILDER	47.5	00.5	aa -	40.5	70 (44.5	F4.4	07.5	00.
All Multifamily Homes This report is provided solely for the internal u	17.3.	. 30.8	. 30 7	18.1	70.6	20.4	16.8	51.1	37.1	32.6

	NEW ENG	MID ATL	E N CEN	W N CEN	S ATL	E S CEN	W S CEN	MTN	PAC	US TOTAL
TOWNHOUSES										
TYPE OF FOUNDATION										
Percent of Townhouses	00.004	FF F0/	74.404		7.50/	2 201	0.004	5.00/	2 (0)	04.704
Full basement	98.9% 0.0%	55.5% 10.5%	74.4% 0.3%	64.4% 1.0%	7.5% 0.1%	0.0% 0.0%	0.0% 0.0%	5.2% 0.0%	0.6% 62.0%	24.7% 10.4%
Partial basement & crawl space Partial basement & slab	0.0%	4.5%	1.9%	0.0%	15.5%	0.0%	1.0%	2.6%	62.0% 15.2%	8.2%
Crawl space, continuous wall	0.0%	2.8%	0.3%	6.1%	7.7%	1.4%	2.9%	7.4%	17.7%	6.6%
Slab	1.1%	26.7%	23.0%	28.6%	69.2%	98.6%	96.2%	71.6%	4.5%	48.9%
Piers	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	13.1%	0.0%	1.1%
TOTAL	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
NUMBER OF STORIES										
Percent of Townhouses										
One	29.7%	9.5%	47.3%	77.5%	10.7%	26.4%	89.0%	32.8%	26.5%	31.1%
Two	70.3%	28.1%	49.7%	21.2%	54.6%	73.6%	10.6%	48.4%	68.1%	47.9%
Three	0.0%	56.7%	0.6%	1.2%	32.8%	0.0%	0.4%	18.8%	5.4%	19.5%
Four	0.0%	5.7%	2.4%	0.0%	2.0%	0.0%	0.0%	0.0%	0.0%	1.5%
TOTAL	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
GARAGES										
Percent of Townhouses										
One car garage	7.8%	64.1%	8.8%	6.1%	42.9%	31.3%	43.1%	29.3%	5.0%	31.3%
Two car garage	80.6%	28.8%	83.6%	66.6%	17.2%	23.6%	54.3%	44.5%	93.9%	48.3%
Three or more car garages	0.0%	0.0%	2.3%	4.8%	0.0%	0.0%	2.6%	13.1%	0.3%	1.9%
One car carport	0.0% 0.0%	0.0% 0.0%	0.0% 0.0%	0.0% 0.0%	0.0% 6.7%	25.7% 0.0%	0.0% 0.0%	0.0% 0.0%	0.0% 0.0%	0.9% 2.1%
Two car carport No garage or carport	11.7%	7.1%	5.3%	22.6%	33.3%	19.4%	0.0%	13.1%	0.0%	15.5%
TOTAL	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
AVERAGE NUMBER OF ROOMS										
Per Townhouse	0.47	0.70	2.24	0.40	2.00	2.01	2.22	2.44	2.00	2.75
Bedrooms Full or 3/4 Bathrooms	2.17 1.93	2.72 1.99	2.21 1.67	2.43 1.97	2.88 1.85	2.81 1.83	2.22 2.05	2.44 1.99	2.98 1.96	2.65 1.90
Half Bathrooms	0.89	0.88	0.65	0.39	0.72	0.82	0.50	0.52	0.27	0.62
Total Rooms	6.77	6.17	5.75	6.20	5.62	6.07	6.27	5.76	7.66	6.17
Closets	5.16	5.34	4.81	4.48	4.94	6.64	4.84	4.63	4.52	4.92
PURPOSE OF BUILDING										
Percent of Townhouses	20.4%	57.6%	55.9%	38.5%	47 40/	40.20/	62.0%	26.8%	34.2%	45.5%
For speculation on builder's land Presold on builder's land	20.4% 72.1%	57.6% 26.7%	55.9% 31.9%	38.5% 30.3%	47.6% 32.5%	40.3% 51.4%	62.0% 16.5%	26.8% 55.8%	34.2% 47.9%	45.5% 36.6%
For the owner on the owner's land	6.7%	14.4%	5.4%	4.9%	32.5% 17.8%	2.8%	17.2%	16.6%	13.2%	13.6%
For builder's personal occupancy	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
For rent	0.3%	1.3%	6.8%	9.6%	1.1%	5.6%	2.6%	0.8%	1.2%	2.4%
	0.370	1.370	0.070	9.070	1,170	3.070	2.070		1.270	2.470
Not reported	0.6%	0.0%	0.0%	16.7%	1.0%	0.0%	1.7%	0.0%	3.6%	1.8%

	NEW ENG	MID ATL	E N CEN	W N CEN	S ATL	E S CEN	W S CEN	MTN	PAC	US TOTAL
APARTMENTS										
TYPE OF FOUNDATION										
Percent of New Apartments	75.00/	44.007	07.00/	44.007	1.00/	2 201	2 20/	0.407	2 20/	10 70/
Full basement	75.2% 19.5%	44.3% 0.0%	27.9% 0.0%	11.0% 19.4%	1.8% 0.0%	0.0% 0.0%	0.0% 0.0%	2.4% 13.3%	0.0% 0.0%	12.7% 2.9%
Partial basement & crawl space Partial basement & slab	0.0%	13.1%	0.5%	10.7%	3.2%	0.0%	0.0%	0.0%	0.0%	3.1%
Crawl space, continuous wall	5.4%	0.0%	6.5%	0.7%	1.4%	0.0%	0.0%	15.9%	26.1%	6.6%
Slab	0.0%	42.6%	65.1%	58.3%	86.6%	100.0%	100.0%	68.4%	73.9%	72.6%
Piers	0.0%	0.0%	0.0%	0.0%	7.0%	0.0%	0.0%	0.0%	0.0%	2.2%
TOTAL	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
NUMBER OF STORIES										
Percent of New Apartments										
One	36.0%	3.5%	19.8%	29.7%	9.0%	19.2%	52.9%	13.6%	7.2%	16.6%
Two	41.4%	49.3%	32.6%	19.1%	36.3%	27.8%	3.3%	23.5%	68.7%	36.8%
Three	12.4%	22.8%	35.0%	49.9%	33.4%	53.0%	37.4%	27.0%	18.5%	30.6%
Four	10.3%	24.4%	12.6%	1.3%	21.3%	0.0%	6.5%	36.0%	5.6%	15.9%
TOTAL	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
GARAGES										
Percent of New Apartments										
One car garage	37.6%	26.0%	13.5%	46.1%	22.8%	20.2%	6.5%	33.4%	27.7%	23.7%
Two car garage	18.8%	7.3%	43.6%	18.5%	16.6%	2.1%	46.3%	24.9%	42.1%	25.6%
Three or more car garages	0.0%	0.0%	1.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
One car carport	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	8.1%	0.0%	17.4%	3.4%
Two car carport	0.0%	0.0%	0.0%	0.0%	1.1%	0.0%	0.0%	0.0%	2.2%	0.7%
No garage or carport TOTAL	43.7% 100.0%	66.8% 100.0%	41.7% 100.0%	35.4% 100.0%	59.5% 100.0%	77.7% 100.0%	39.0% 100.0%	41.7% 100.0%	10.6% 100.0%	46.5% 100.0%
	100.076	100.078	100.078	100.078	100.078	100.076	100.078	100.076	100.078	100.078
AVERAGE NUMBER OF ROOMS Per Apartment										
Bedrooms	2.48	2.07	2.15	2.09	2.23	2.05	2.63	2.38	2.41	2.28
Full or 3/4 Bathrooms	1.64	1.79	1.80	1.54	1.75	1.89	1.99	1.87	1.75	1.78
Half Bathrooms	0.38	0.36	0.35	0.22	0.14	0.09	0.00	0.48	0.14	0.22
Total Rooms	6.02	4.89	4.80	5.28	4.86	4.95	5.89	5.44	4.51	5.03
Closets	4.97	4.80	4.17	4.14	4.42	4.15	5.04	4.90	3.62	4.42
PURPOSE OF BUILDING										
Percent of New Apartments	10 50/	21 207	17.50/	24.007	/ F0/	10 /0/	20.207	22.007	7.40/	15 507
For speculation on builder's land Presold on builder's land	19.5% 37.6%	21.2% 3.1%	17.5% 20.3%	24.9% 0.6%	6.5% 30.9%	10.6% 0.0%	29.3% 31.7%	32.0% 33.1%	7.4% 0.2%	15.5% 20.1%
For the owner on the owner's land	37.6% 4.9%	3.1% 1.1%	20.3% 12.8%	0.6% 30.5%	30.9% 44.0%	0.0%	31.7% 0.0%	33.1% 2.6%	0.2% 54.6%	20.1% 25.5%
For the owner on the owner's land For builder's personal occupancy	4.9% 0.0%	0.0%	0.0%	30.5% 0.0%	44.0% 0.0%	0.0%	0.0%	0.0%	0.0%	25.5% 0.0%
For rent	17.4%	52.6%	25.1%	39.1%	15.4%	76.6%	32.5%	0.0%	36.2%	27.6%
Not reported	20.7%	22.1%	24.4%	4.9%	3.1%	12.8%	6.5%	31.9%	1.7%	11.3%
TOTAL	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
	100.070	100.070	100.070	100.070	100.070	100.070	100.070	100.070	100.070	100.070

APPENDIX E

ANNUAL BUILDER
PRACTICES QUESTIONNAIRE



January 16, 2006

Dear Home Builder,

We need your input! For more than 20 years, the NAHB Research Center has relied upon your support for getting the information needed to improve America's housing industry. Past participation in our survey efforts has been vital to our continued progress. Please complete and return this questionnaire as soon as possible.

We understand there are many demands on your time and at first glance this questionnaire may appear long and complicated, but it uses checkmarks and percentages to make it easy to describe your typical construction practices – not an exact accounting of building materials.

Once we receive your completed survey, we will send your free pouchable wind & rain jacket embroidered with the NAHB Research Center logo.

Please be assured that all information about your firm will remain confidential. If you have any questions or would like an additional copy of this questionnaire for a fellow builder, please contact Joanne McAlpin at 1-800-638-8556, ext. 6306, or send an e-mail to jmcalpin@nahbrc.org.

Thank you in advance for your assistance!

Sincerely,

Michael Luzier

President

NAHB Research Center, Inc.

Once we receive your completed survey, we will ship your FREE Pouchable Wind & Rain Shirt

Please indicate shirt size

Medium Large
XX-Large XX-Large

NAHB Research Center, Inc. 400 Prince George's Boulevard • Upper Marlboro, Maryland • 20774-8731 301-249-4000 • fax 301-430-6180 • http://www.nahbrc.org

Did you build any new homes in 2005?

Your firm is eligible to participate if it completed any single-family homes or multifamily units in 2005.

How to complete this survey:

Fill in the numbers or percentages, or check the appropriate boxes, to indicate the materials and specifications of the houses you **completed in 2005**. If you don't know the exact answer, use thoughtful estimates. Please call Joanne McAlpin at (800) 638-8556, extension 6306 if you need assistance in filling out this survey.

Remember – you only need to answer for the types of houses you built in 2005. Be assured that information about your firm will remain confidential. Thank you for your support!

SFD – Single-Family Detached: Houses built for one family that do not share any common walls or structural systems with other houses.

SFA – Single-Family Attached: Townhouses or duplexes that share at least one common wall with another house, but each house rests on its own foundation. MF – Multifamily:

Dwellings in buildings that share a common foundation and usually some common walls.

GENERAL CHARACTERISTICS

In which Country, State, and County of Country: State: Country:	•	u vana mosi oj	•	•		2a
	SFD ¹ STARTER	SFD ¹ MOVE-UP	SFD¹ LUXURY	SFA ¹ TOWNHO DUPLE	USE /	MF ¹ (LIVING UNITS)
Number of houses (or living units)	3	26		_ 49	72	92
Average square feet (s.f.) above grade.	s.f. ₄	s.f.	27	s.f. ₅₀	s.f. ₇₃	
Finished s.f. typical basement	s.f. ₅	s.f.	28	s.f. ₅₁	s.f. ₇₄	(S.F. Per UNIT)
Average selling price \$	6	\$29	\$	_ 52 \$	75 \$	94
Typical lot size (s.f. or acres)	7	30		_ 53	76	(\$ Per UNIT)
Number of Multifamily Buildings your f	irm constructed ((not living units)	→ → Multi	family Building	şs → →	95
One or 1½ (include split levels)	15			•	•	# BUILDINGS
Two or 2½				62	85	102
Three or $3\frac{1}{2}$	17	40				103
Four or more stories \Rightarrow \Rightarrow \Rightarrow	- - - -	, , , ,	- - - -	→	87	104
PURPOSE OF BUILDING What percent of your homes were built	dt: singi	SFD LE-FAMILY DETA	CHED TOW	SFA NHOUSE, DUPLEX	X	MF MULTIFAMILY
For speculation on your land		n152		n152a		n152b
Presold on your land		n153		n153a		n153
For the owner on the owner's land		n154	<u> </u>	n154a		n154
For your personal occupancy		n15		n155a		n1550
For rent		n150	_	n156a		n156

1

¹ See definitions above

		SFD Starter	SFD Move-		SFD Luxury	SFA Townhouse, Duplex	MF Multifamily
NUMBER OF ROOMS PER HOUSE OR UNIT		# ROOMS	# ROO.	MS	# ROOMS	# ROOMS	# ROOMS PER LIVING UNIT ↓
Bedroom(s)		22		45	68	88	105
Half Bathroom(s)	·····	23	a	46a	69a	89a	106a
Full or ¾ Bathroom(s)		23		46	69	89	106
Total Rooms (Exclude Bathroom	ns)	24		47	70	90	107
Closets (Include Coat / Linen / I	Pantry)	25		48	71	91	108
GARAGES AND CARPO				_	_		_
1.0		# HOUSES $lacktriangle$	# HOUS	SES 🕶	# HOUSES ♥	# UNITS ♥	# UNITS ♥
1 Car Garage				41	64	766	773
2 Car Garage				42	65	767	774
3 or more Car Garage		20		43	66	767a	774a
1 Car Carport	·····	20	a	43a	66a	768	775
2 or more Car Carport	·····	20	b	43b	66b	769	776
No Garage or Carport		21		44	67	769a	776a
			FOUNDA	ATION	S		
FOUNDATION TYPE:	Uow man	v homas d				wing foundation two	as 2
TOUNDATION TITE.	110w man	SFD	sfD		SFD	SFA	MF
		Starter -	Move-		Luxury -	Townhouse, Duplex	Multifamily
		HOUSES $lacktriangle$	# HOUSI	ES ♥	# HOUSES $lacktriangle$	# UNITS ♥	# BUILDINGS ♥
Full basement				32	55	78	96
Partial basement & crawl space				33	56	79	97
Partial basement & slab		11		34	57	80	98
Crawl space, continuous wall	·····	12		35	58	81	99
Concrete slab on grade or pilings	S	13		36	59	82	100
Piers or raised pilings		14		37	60	83	101
BASEMENT / CRAWL SPAC	E WALL	MATERIA	AL	SUB	SLAB PREPAR	RATION	
What percent of your homes or r basement or crawlspace walls m		-	had			nder your concrete sla the soil, indicate "No	othing under slab."
materials?				(√a	ll you use)		LAB- BASEMENT GRADE SLAB
Do not include brick veneer.	SFD	SFA	MF			stone or gravel [
]	HOUSES	UNITS	BUILDINGS			stone or gravel [
Poured concrete, reusable forms	109	109a	109b		•	[
Concrete block (CMU)	110	110a	110b	Strips	s or layers of geo	otextile drainage mat [
Precast concrete (e.g., Superior Walls®)				Rigid	l foam insulation	[124_1 [] 124_2
Insulated concrete forms (ICFs)						e[] 125_1 [] 125_2
Pressure treated wood				Plasti	ic sheet (vapor b	arrier, 6 mil poly) [] 125c_1 [] 125c_2
0.1				Other	r(PLEA	SE SPECIFY)] 126_1 [] 126_2
Other	114	114a	114b	3.7 (3		, -	

100% 114 —

100% 114b

100%

(PLEASE SPECIFY)

Nothing under slab [] 127_1 [] 127_2

STRUCTURAL SYSTEMS: WALL, FLOOR, AND ROOF STRUCTURES

MATERIAL OF EXTERIOR ABOVE GRADE WALLS What percent of your homes' above-grade exterior walls had the

What **percent** of your homes' **above-grade** exterior walls had the following as a **primary** structural material?

Do not include for	undation	walls or	brick	veneer	finish
--------------------	----------	----------	-------	--------	--------

	FIRST STORY	UPPER STORIES
Concrete or masonry	128	131
Wood (all types)	129	132
Steel (all types)	100% 130	100% 133
CONCRETE AND MACONDA	ADOVE OD	ADEWALLC

CONCRETE AND MASONRY ABOVE GRADE WALLS

If any of your homes had concrete or masonry **above-grade** walls, what **percent** were each of the following types? **Do not include** basement walls or brick veneer finish.

Poured concrete, reusable forms	146
Concrete block (CMU)	147
Precast concrete (e.g., Superior Walls®)	148
Insulated concrete forms (ICFs)	149
Autoclaved aerated concrete (AAC)	150
Structural brick (brick wall supports roof)	151
Other concrete or masonry(PLEASE SPECIFY)	152

TYPES OF EXTERIOR WOOD AND STEEL WALLS

What **percent** of your homes with wood and steel walls used the following types of construction?

2050	100%
Logs	120
Post and beam or "timber frame"	138
Structural insulated panels (SIPs)	137
Modular (factory-built structure)	136
Panelized light-frame (factory-built wall panels)	135
Site-built light-frame (2x4s, 2x6s, etc.)	134
jouowing types of construction.	

LIGHT-FRAME EXTERIOR WALL SIZE AND SPACING

What percent of all your exterior light-frame walls were:

	WOOD	STEEL
2x4s at 16" o.c.	140	140a
2x4s at 24" o.c.	141	141a
2x6s at 16" o.c.	142	142a
2x6s at 24" o.c.	143	143a
Other(PLEASE SPECIFY)	144 100%	144a

PRE-FABRICATED SHEAR WALLS

What **percent** of your homes or living units had pre-fabricated shear walls or panels (e.g.,, Hardy Frame, TJ®-Shear Panel, Simpson Strong-Wall)?

201

In homes where you used pre-fabricated shear walls or panels, what was the **average** number of panels you used?

TYPE OF EXTERIOR WOOD WALL STUDS

What is the most common type or species of wood for y	vour
exterior wall studs?	(✓one)
Timberstrand® or laminated strand lumber (LSL)	[]1
Wooden I-joists	$[\]_2$
Southern yellow pine (SYP)	[]3
Douglas fir	[]4
Hem-fir or other western woods	[]5
Spruce / Pine / Fir (SPF) or eastern spruce	[]6
LVL (laminated veneer lumber)	[]7
Other(PLEASE SPECIFY)	[]8
Don't know	[] ₉

WALL HEADERS: WINDOWS, DOORS, AND FIREPLACES

What **percent** of the (1) single window, door, and fireplace openings, (2) multiple window and door openings, and (3) garage door openings were spanned by headers of the following materials?

following materials?	SINGLE Window / Door / Fireplace Headers	/ Door	Garage Door Headers
Built-up dimensional lumber	er ₁₅₃	153a	167
Solid wood (4xs, etc.)	· 154	154a	168
Glulam	155	155a	169
Wooden I-joists used singly	y 156	156a	170
Wooden I-joists doubled	157	157a	171
LVL single	158	158a	172
LVL doubled	159	159a	173
Parallam [®]	160	160a	174
Concrete	· 161	161a	175
Steel (all types)	· 162	162a	176
Glued & nailed box header	S 163	163a	177
Wood truss	· 164	164a	178
Timberstrand® (LSL)	165	165a	179
Flitch plate beams (lumber			
with steel plate, bolted)		166a 100%	
WALL HELOHO			

WALL HEIGHT

What **percent** of your interior walls had the following heights? **Exclude** two-story foyers from your estimates.

		UPPER STORIES
7' or less	501	508
7-1/2'	502	509
8'	503	510
8½'	504	511
9'	505	512
10'	506	513
12' or more	507	100% 514

EXTERIOR WALL SHEATHING

Please consider "sheathing" to be the panel product that is fastened directly to wall studs. What **percent** of your total exterior wall area was sheathed with:

None (SIP's, masonry or log walls, etc.)		182
Plywood, 3/8"		183
Plywood, 1/2"		184
Plywood, 5/8"		185
Plywood, 3/4"		186
OSB, 3/8"		187
OSB, 7/16" or 1/2"		188
OSB, 5/8"		189
OSB, 3/4"		190
Fiberboard (including Homosote & Built-Rite®)		191
Cement board (glass mesh reinforced, Durock®)		192
Fiber Cement (Hardipanel®, etc.)		192a
$Gypsumboard~(including~Dens\text{-}Glass^{@},~FibeRock^{@})_$		193
1/8" foil faced 3-ply kraft paper (Thermoply [®])		194
Lumber board sheathing		195
Extruded polystyrene – XPS (blue Dow Styrofoam®, pink Owens Corning)		196
Expanded polystyrene – EPS, or "bead board"		197
Polyisocyanurate / urethane with foil / other facing (Celotex Tuff- R^{\otimes} , Thermax $^{\otimes}$, R-Max $^{\otimes}$, etc.)		198
Other (PLEASE SPECIFY)		199
(FLEASE SPECIF1)	100%	

TWO LAYERS OF EXTERIOR WALL SHEATHING

What **percent** of your homes had a layer of foam sheathing placed over a layer of structural sheathing material?

Do not include layer of foam for EIFS finish. _____%

THICKNESS OF FOAM

What was the **typical thickness** of the foam you used? (**\sqrt{one}**)

1 [] 1/2"	4 [] 1-1/2"
₂ [] 5/8 or 3/4"	₅ [] 2" or greater
₃ []1"	200

INTERIOR WALLS

What percent of all your interior walls were:

	100%
Lumber: Other dimensions / spacing	520a
Lumber: 2x6s at 24" o.c.	520
Lumber: 2x6s at 16" o.c.	519
Lumber: 2x4s at 24" o.c.	518
Lumber: 2x4s at 16" o.c.	517
Lumber: 2x3s at 24" o.c.	516
Lumber: 2x3s at 16" o.c.	515
Steel (all spacing)	521a
Masonry or concrete	522

INTERIOR WALL & CEILING FINISH

What **percent** of your typical home's total wall and ceiling area had the following interior finishes?

WALLS	CEILINGS	
	523	532
	524	533
	. 525	- 534
	. 526	- 535
	. 527	- 536
	530a	- 539a
	. 528	- 537
	. 529	538
	530	- 539
	. 540	
		WALLS CEILINGS 523

MATERIAL OF STRUCTURAL FLOOR SYSTEM

What **percent** of your above-grade (first and upper stories) floor structures were:

Do not include basement floor.	GROUND FLOOR	UPPER FLOORS
Cast-in-place concrete	212	216
Precast concrete	213	217
Wood, lumber, or beams	214	218
Steel (all types)	215	

DEPTH OF STRUCTURAL FLOOR

For each material you used, \checkmark the **most common depth** of your floor framing:

	LUMBER JOISTS	WOODEN I-JOISTS	OPEN-WEB JOISTS	STEEL JOISTS
8"	[]	[]	[]	[]1
10" (or 9-7/8")	[]	[]	[]	[]2
12" (or 11-7/8")	[]	[]	[]	[]3
14" or greater	[] 1033	[] 1034	[] 1035	[] ₄ 1035a

TYPES OF WOOD FLOOR FRAMING

What **percent** of your structural wood floors on ground and upper floors were:

Do not include support beams.	GROUND FLOOR	UPPER FLOORS
Lumber joists	220	225
Wooden I-joists	221	226
Open web joists (wood floor truss).	222	227
Structural insulated panels (SIPS)	223	228
Other	224 100%	229

SPACING OF FLOOR FRAMING

What **percent** of your framed floor area had joists spaced at:

With Percent	White Percent of your frameways or an earliest forms spaced and					
	-		OPEN-WEB JOISTS			
12 "o.c	1036	1042	1048	1048a		
16" o.c	1037	1043	1049	1049a		
19.2 " o.c	1038	1044	1050	1050a		
24 " o.c	1039	1045	1051	1051a		
32 " o.c	1040	1046	1052	1052a		
Other spacing	1041 100%	100% 1047	100% 1053	1053a		

SPECIES OF WOOD FLOOR FRAMING

What species of dimensional lumber joist (**not** I-joists) did you **most commonly** use for your floor framing?

	(\square only)
Southern yellow pine (SYP)	[]1
Douglas fir or hem-fir	[] ₂
Spruce / Pine / Fir (SPF), or eastern spruce	[] ₃
Other(PLEASE SPECIFY)	[]4
(PLEASE SPECIFY)	
Don't know	[] 5

FLOOR SHEATHING (SUBFLOORING)

What **percent** of your total floor area used each of the following sheathing (sub-flooring) materials?

sneuning (sub-jiooring) materials:	GROUND FLOOR	UPPER FLOORS
Concrete slab or SIPS	231	246
1/2" plywood	232	247
5/8" plywood	233	248
3/4" plywood	234	249
1-1/8" plywood	235	250
7/16" or 1/2" OSB	236	251
5/8" OSB (including Advantech) .	237	252
3/4" OSB (including Advantech)	238	253
7/8" OSB	239	254
1" OSB	240	255
1-1/8" or thicker OSB	241	256
1x boards (3/4"actual, including T&G)	243	258
2x boards (1-1/2" actual, including T&G)	244	259
Other(PLEASE SPECIFY)	245 	260 260

RIMBOARD FOR WOODEN I-JOISTS

What **percent** of your I-joist floor systems used each of the following **rimboard** materials?

-	100%
Re-sawn glulam	1117g
LVL (laminated veneer lumber)	1117f
Dimension lumber (2x10's, etc.)	1117e
Plywood	1117d
Wooden I-joists with blocking	1117c
OSB (G-P Fiberstrong®, L-P Solid Start®, etc.)	1117b
Timberstrand® (Trus-Joist)	1117a
NO rimboard used (sheathing only)	1117h

FLOOR BEAMS: SUPPORT, FLUSH, AND FLOOR-EDGE BEAMS

Floor beams may include 1) support beams, which provide a bearing point for floor joists, 2) flush beams, which provide support and are recessed into the floor, and 3) floor-edge beams that typically support the edge of a loft or stairway.

About how many linear feet (LF) of floor beams did you use in a **typical** house or multifamily living unit?

Do not include rimboard as a floor beam				
	GROUND FLOOR	UPPER FLOORS		
Single-family detached (SFD)				
floor beams: LF per house .	LF ₁₀₆₁	LF ₁₀₆₄		
Single-family attached (SFA) floor beams: LF per UNIT	LF _{1061a}	LF _{1064a}		
Multifamily floor beams: LF per UNIT	LF ₁₀₆₂	LF ₁₀₆₅		

FLOOR BEAM MATERIAL

What percent of your floor beams were

What percent of your floor beams were:			
	GROUND FLOOR	UPPER FLOORS	
Built-up dimension lumber	1099	1108	
Solid wood beams (4xs or greater)	1100	1109	
Glulam	1101	1110	
LVL	1102	1111	
Parallam [®]	1103	1112	
Timberstrand®	1103a	1112a	
Open Web Joist	1104	1113	
Steel (all types)	1105	1114	
I-Joist (multiple)	1106	1115	
Other	1107 1107	1116 100%	

ROOF BEAMS AND CEILING SUPPORT BEAMS SPECIES OF ROOF FRAMING LUMBER What **percent** of your trusses or rafters / ceiling joists were: For a typical house or multifamily building, how many linear TRUSSES RAFTERS feet (LF) of roof beams (ridge, hip, and valley) and beams located on the ceiling assembly did you use? Southern yellow pine (SYP) ____ 285 **Do not include** wall headers that support roofs. Douglas fir or hem-fir....._______281 Single-family detached (SFD) roof beams.... LF ₁₀₈₀ Spruce / Pine / Fir (SPF)..... _______282 Single-family attached (SFA) roof beams LF _{1080a} Don't know 283 Multifamily **building** roof beams LF _{1080b} Other (PLEASE SPECIFY) What **percent** of your roof and ceiling assembly beams were: 100% 100% Built-up dimension lumber _______ 1081 **COMBINATION TRUSS & RAFTER ROOFS** Solid wood beams (4xs or greater) For all roofs framed with both trusses and rafters, what percent of the roof was typically framed with each? Glulam LVL ______ 1084 Trusses Parallam[®] ______ 1085 Rafters 100% Timberstrand[®] ______ 1085a RAFTER ROOFS Girder truss If you built with rafters, what **percent** of your rafters were: Steel (all types) Lumber ______ 276 I-Joist (multiple) I-joists (PLEASE SPECIFY) 100% Steel 100% **ROOF FRAMING** What **percent** of the total roof area on your homes were the TRUSS ROOFS following shapes? If you built with roof trusses, what **percent** of your trusses were: Gable ______ 261 Lumber ______ 276a Hip ______ 262 I-joists ______ Gambrel Steel 100% Other ____ **CEILING TYPE** (PLEASE SPECIFY) 100% What percent of the ceiling area directly under the roof was: TURNED GABLES AND DORMERS Sloped (i.e., cathedral or vaulted) How many turned gables (gables perpendicular to the Flat main ridge of the roof) and dormers did your 100% typical house or multifamily building have? MF SFD BUILDINGS **OVERHANG / EAVES** Turned gables . _____ 265 _____ 265a How deep was the eave or overhang of your typical house? _____ 265b Dormers 266 Inches ______ 267 _____ 266a TYPE OF ROOF FRAMING **ROOF PITCH** What **percent** of your houses had roofs framed with: What **percent** of your roofs had pitches of: Combination of trusses and rafters 270 Trusses only 5/12" or 6/12" _____ Structural insulated panels (SIPs) 271 7/12" or 8/12" 9/12" or 10/12"

Other _

(PLEASE SPECIFY)

100%

__ 295

100%

11/12" or greater

ROOFING MATERIAL

What percent of your typical home's total roof area was roofed with:

Asphalt shingle, three tab, standard weight		- 310
Asphalt shingle, "Architectural" or laminated		- 311
Cedar shingles (sawn)		312
Cedar shakes (split)		- 313
Clay or ceramic roof tiles		315
Concrete roof tiles		- 316
Fiber-cement shingles		317
Slate (natural)		318
Steel		319
Aluminum		320
Copper		- 314
Built-up roof (e.g., hot-mopped asphalt)		321
Single ply (e.g., EPDM, vinyl)		322
Composite shingles (plastic or recycled rubber) .		322b
Other(PLEASE SPECIFY)	100%	- 322a

ROOF VENTILATION

What percent of your homes and multifamily buildings had:

	SFD	SFA	MF BUILDINGS
Ridge vents	329	3	329a 329b
$Roof\ vents-not\ powered$	330	3	330a 330b
Wind turbine roof vents.	331	3	331a 331b
Roof mounted attic fans	332	3	332a 332b
Gable wall louvers	333	3	333a 333b
Gable mounted attic fans	334	3	334a 334b
Whole house fans	335	3	335a 335b
Soffit vents			
	Totals r	need not a	ıdd to 100%

ROOF SHEATHING

What **percent** of your total roof area was sheathed with:

what percent of your total roof area was sheathed	villi.
\boldsymbol{NONE} (roofing attached directly to framing, or SIPs) \dots	298
3/8" plywood	299
1/2" plywood	300
5/8" plywood	301
3/4" plywood	302
7/16" or 1/2" OSB (including Advantech)	303
5/8" OSB (including Advantech)	304
3/4" OSB (including Advantech)	305
1"x boards (3/4" actual) – no spacing	306
1"x boards (3/4" actual) – spaced	307
2"x lumber (1-1/2" actual – including T&G)	308
Other(PLEASE SPECIFY)	309
(PLEASE SPECIFY)	100%

SOFFIT & FASCIA MATERIAL – EAVES & RAKES

What percent of your soffit and fascia material was made of:

what percent of your soffice and fas	SOFFIT	FASCIA
NO soffit or fascia installed	358	366
Solid wood / Lumber	359	367
Plywood / LVL	360a	368a
Hardboard or MDF (e.g., Miratec [®] , PrimeTrim [®] , engineered wood trim)	361	369
OSB (LP SmartSide®)	362	370
Stucco on foam board (EIFS, or synthetic stucco)	363	371
Vinyl (wrap for fascia)	364	372
Aluminum (wrap for fascia)	365	373
Steel	365b	373b
Fiber Cement	365c	373c
Urethane / Polyurethane plastic.	365d	373d
Cellular PVC or solid vinyl	365e	373e
Wood / Plastic composite	365f	373f
Other	365a	373a

EXTERIOR FINISH MATERIAL (SIDING)

What percent of the total exterior wall area for all the homes you built, including garages and dormers, was finished (sided) with the following materials?

Wood-based Siding

Plywood panels (e.g., T-111)	3	841
Hardboard (e.g., Masonite®, ABTCO)	3	342
Lumber boards (cedar or pine clapboards, etc.)	3	343
Cedar shingles (sawn) or shakes (split)	3	344
OSB (e.g., LP SmartLap®, LP SmartPanel®)	3	845
Other type of wood siding(PLEASE SPECIFY)	3	46
Masonry and Cement Materials		

$OSB~(e.g., LP~SmartLap^{@}, LP~SmartPanel^{@})~$	 345
Other type of wood siding(PLEASE SPECIFY)	 346
Masonry and Cement Materials	
Brick	 347
Natural stone	 348
Manufactured stone ("synthetic stone")	 349
Cement stucco	 350
Synthetic stucco or EIFS (e.g., Dryvit®, STO®)	 351
Architectural concrete block (split-face, etc.)	 352
Fiber-cement siding	
(e.g., Hardiplank®, CertainTeed)	 353
Plastic & Metal Siding	
Vinyl	 - 354
Aluminum	 355
041	

Other ____ (PLEASE SPECIFY)

100%

EXTERIOR TRIM TYPE

Considering your typical house, what style of exterior trim/molding do you most commonly apply?

	EAVES	FRONT DOOR	FRONT WINDOWS	OTHER DOORS OR WINDOWS
Board only, no crown .	[]	[]	[]	[]1
Board and crown	[]	[]	[]	[]2
Crown only	[]	[]	[]	[]3
Dentil molding	[]	[]	[]	[]4
Pediments	[]	[]	[]	[]5
Pilasters	[]	[]	[]	[]6
Arches	[]	[]	[]	[]7
Other special moldings	[]	[]	[]	[]8
None (part of door / window	/) . [] N76	[] N77	[] N78	[] 9 N79

EXTERIOR TRIM MATERIAL

What **percent** of the total exterior ornamental trim you installed was made of:

Exclude soffit & fascia.

NO exterior ornamental trim installed		719
Solid wood / Lumber		720
Plywood / LVL		721
Hardboard or MDF (e.g., Miratec [®] , PrimeTrim [®] , engineered wood trim)		722
OSB (LP SmartSide®)		723
Stucco on foam board (EIFS, or synthetic stucco)		723a
Vinyl (wrap)		723b
Aluminum (wrap)		723c
Steel		725
Fiber Cement		725a
Urethane / Polyurethane plastic		725b
Cellular PVC or solid vinyl		725c
Wood / Plastic composite		725d
Other		724
(PLEASE SPECIFY)	100%	124

WINDOWS

AVERAGE WINDOW OPENINGS PER HOUSE

What was the **average number** of window **openings** (in the wall framing) in your typical house?

Exclude openings for doors and non-prime windows.

SFD	SFD	SFD	SFA	MF
Starter	Move-up	Luxury	Per UNIT	Per UNIT
374a	374b	374c	375	376

AVERAGE WINDOW UNITS PER HOUSE

Considering that some window **openings** have more than one window **unit** per opening: how many window **units** were in your typical home?

Include both operable (venting) and fixed units.

Average number of window units per new home:

SFD	SFD	SFD	SFA	MF
Starter	Move-up	Luxury	Per UNIT	Per UNIT
377a	377b	377c	378	379

MATERIAL OF WINDOW FRAMES

What percent of all the window units you installed had the				
following frame material	? SFD	SFA	MF UNITS	
Wood (no cladding)	380	387	394	
Wood, aluminum clad.	381	388	395	
Wood, vinyl clad	382	389	396	
Aluminum	383	390	397	
Vinyl	384	391	398	
Composite (fiberglass).	385	392	399	
Other	386 100%	393 100%	400 100%	

WINDOW TYPE

What percent of all the window units you installed were of the			
following types:	SFD	SFA	MF UNITS
Casement	401	408	415
Awning	402	409	416
Double hung	403	410	417
Single hung	404	411	418
Sliding (side-by-side)	405	412	419
Fixed (rectangular)	406	413	420
Fixed (curved / round top)	407	414	421
Other	407a	414	421a
(I LL/ISL SI LCII 1)	100%	100%	100%

GLAZING

Heat-Mirror[®] ______425

GLASS TYPE

What type of glass did your windows most commonly have?

	100%	
Tinted		428
Argon filled Low-E		427
Low-E		427
Clear		426

SKYLIGHTS AND ROOF WINDOWS

SKYLIGHTS AND RO				ENTRY DOORS	
How many skylights and have?	roof window	s did your ty	-	How many exterior entry door OPENINGS were in your	•
nave:	SFD	SFA P	MF Per BUILDING	typical house?	
Skylights	323	325	327	Exclude patio doors. SFD SFD SFD SFA MF Starter Mare To Leave Ben LINET Ben LINET	
Tubular Skylights	323a	325a	327a	Starter Move-up Luxury Per UNIT Per U	NII
Roof windows	324	326	328	454a 454b 454c 455	450
SHUTTERS				MATERIAL OF ENTRY DOOR	
How many shutters did y			MF	What percent of all your exterior doors were made of the following?	
	SFD	SFA	Per UNIT	Exclude patio doors. FRONT OTH	ER
What percent of the shutt		731a de of:	731b	Solid wood – raised panel 457	46
Wood (any type)	732	732a	732b	Wood – flush 458	46
Plastic (including				Steel – raised panel 459	
polyurethane and PVC)	733	733a	733b	Steel – flush	
Other	734 100%	734a		Fiberglass	
What percent of the shutt			100% styles?		
•	v	v	•	Other	
Raised panel				CIDEL VEEC	
Louvered				SIDELITES What paraent of your front doors had sidelites?	
Board and Batten		737a	737b	What percent of your front doors had sidelites?	
Other	738 100%	738a	738b	Sidelites on one side	
	100 /0	100 /0	100 /0	Sidelites on both sides	469
PATIO DOORS				NO sidelites	
How many patio door ope Please include both slidin				100	70
SFD SFD	SFD	SFA	MF	DOUBLE FRONT DOORS	
Starter Move-up	Luxury	Per UNIT		What percent of your front doors were double doors?	46
429a 429b	429c	430	431	MULTIFAMILY COMMON ENTRY DOORS	
PATIO DOOR TYPE				In some multifamily buildings, the individual living units	
What percent of all your p	patio doors v	vere:		entry doors opening directly to the outside. Other building	_
	SFD	SFA	MF	common entry doors opening to hallways leading to entry for the individual living units.	u00
Swinging (hinged)	432	434	436	What percent of your multifamily buildings used	
Sliding	433	435	437	common entry doors?	
	100%	100%	100%	Of the new multifamily buildings with common entry door	·s,
PATIO DOOR MATER	RIAL			how many common entry doors, including double doors, did a typical building have?	/71L
What percent of all your p		were made oj HINGED	f: SLIDING		- 4/Ib
Wood (no cladding)				INTERIOR DOORS	1 041.
Wood (no cladding) Wood, aluminum clad			446 447	Interior doors include bedroom, bathroom, closet, and all interior doors. What percent of your interior doors were.	
Wood, vinyl clad			447	Single interior hinged door(s)	_ 477a
Steel				Double interior hinged door(s)	- 477t
Aluminum			449	Single bi-fold door(s)	
			450	Double bi-fold door(s)	
Vinyl			451		
Composite (fiberglass, etc	c.)	444	452	Sliding / Pocket door(s)	_ 477e

_ 445

100%

_ 453

100%

Other door(s) __

_ 477f

100%

(PLEASE SPECIFY)

(PLEASE SPECIFY)

MATERIAL OF INTERIOR DOORS

MATERIAL OF INTERIOR DOOR	S	
What percent of all your interior doors	were made	of: CLOSET
Solid wood panel door	478	487
Solid wood with louvers	479	488
Solid wood, glass unit(s)	479a	488a
Hardboard panel, hollow core	480	489
Hardboard panel, solid core	480a	489a
Hardboard flush, hollow core	481	490
Plywood flush, hollow core	482	491
Particleboard / MDF, solid core	482a	491a
Mirror on steel frame	483	492
Steel (no mirror)	484	493
Hardboard panel on steel frame	485	494
Other	486	495
(PLEASE SPECIFY)	100%	100%
CABINETS & COUNTERTO	PS	
Indicate the number of cabinets and the		of kitchen
countertop you installed in a typical ho	me. SFD & SFA	MF
Number of Kitchen cabinets	542	558
Number of Vanity cabinets	543	559
Number of Other cabinets	544	560
Linear feet of Kitchen countertops	545	561
What percent of your kitchen and bath were made of:	room vanity o	
Solid Surface (e.g., Corian [®] , Surell [®])	584	590
Laminate (e.g., Formica®)	585	591
Ceramic tile	586	592
Cultured marble	587	593
Engineered stone (Zodiak®, Avon®)	587a	593a
Solid wood (butcher block)	588	594
Granite	589	594a
Marble, slate, or other natural stone.	589a	595a
Other	589b	
(PLEASE SPECIFY)	100%	100%
MATERIAL OF CABINET BOX What percent of the cabinets you instalt made of:	lled had side: SFD & SFA	s and shelves MF
Wood veneer on particleboard or MDF	576	580
Solid Wood	576a	
Plastic or paper overlay, or laminate	370a	3o0a
on particleboard or MDF	577	581
Plywood (all types)	578	582
Other	579	583

(PLEASE SPECIFY)

100%

100%

CABINET DOOR TYPE

What **percent** of the cabinets you installed had the following types of doors?

	SFD & SFA	MF
Wood finish, raised panel in frame	563	570
Wood finish, flat panel in frame	564	571
Glass panel in wood frame	564a	571a
Laminate with raised panel look	567	574
Wood finish, flat panel, no frame	565	570
Laminate finish, flat panel, no frame	566	573
Other	568	575
(PLEASE SPECIFY)	100%	
CARTER ED ALER EVEN		

CABINET FRAME TYPE

What percent of the cabinets you ins	talled had the	following
types of face frames?	SFD & SFA	MF
Frameless (European style)	562a	569a
Face-framed (Traditional)	562b	569b
Other:	562c	

DRIVEWAYS AND PARKING SPACES

What percent of your typical units had the following individual			
driveways and parking sp	paces?		MF
	SFD	SFA	UNITS
Individual Driveways	777	777a	777b
Parking Spaces Only			
Parking for one car	770	770a	770b
Parking for two cars	771	771a	771b
NO parking spaces	772 100%	772 a	

DRIVEWAY MATERIAL

What percent of your driveway materials?	ys were made of INDIVIDUAL DRIVEWAYS	the following SHARED DRIVES & PARKING LOTS
Asphalt	780	780s
Poured concrete (including		
stamped or stenciled)	781	781s
Brick	763	763s
Concrete paver	782	782s
Gravel (crushed stone) with concrete parking pad	702	702
Gravel (crushed stone) no		783s
concrete parking pad	784	784s
No driveway	785	785s
Other	786	786s
(PLEASE SPECIFY)	100%	100%

DRIVEWAY SIZE

What was the most common size of your individual driveways?

	LENGTH	WIDTH
SFD driveways:	FT _{787_L}	X FT _{787_w}
Individual SFA		
driveways:	FT _{787_al}	X FT _{787_aw}
Shared MF driveways,		
(per BUILDING)	FT _{787 bl}	X FT _{787 bw}

GARAGE DOORS What percent of your garages had	the foll	owing ty	pes of doors?	На		ghting fixtur			in, or withii	n the
One double door		• • • • • • • • •	750	_	-	s of, your typ				
Two single doors		• • • • • • • • • • • • • • • • • • • •	751			LIGHTING				MF
One double door, one single door			752			th Light				
Three single doors			753			thout Light				
Other configuration										
			100%							
GARAGE DOOR OPTIONS		- C 41 C-1	1			nt				
What percent of your garage door										
Sectional										
One-piece						ns (standard)				
Side hinged						ns (Energy S				
Other	• • • • • • • • • • • • • • • • • • • •	• • • • • • • •	742 100%							
TVII.		1				er				
What percent of your garage door materials?	s were n	nade of i	the following							
Steel			754							
Wood			755			LIGHTIN				MF
Fiberglass or Plastic										
Other						alkway				
outer			100%			d Electric				
What percent of your garage door	s were t	he follov	ving styles?			d Gas				
Raised panel		-								
Flat panel										
				Sp	otlights				1180	118
Other		• • • • • • • •	761 100%	LI	GHTING	SPECIFIC	ATIONS			
What percent of your garage doors v				ho	mes, were	t of the lighti specified by:	:	FIXT	URES B	ULBS
What percent of your garage doors h										
What percent of your garage doors h	iad oper	iers?	745	Но	omeowner	• • • • • • • • • • • • • • • • • • • •		*	1184	1185
		FI	NISHED F	LOOF	RING TY	PE				
What type of flooring do you most		nly insta	ıll in the follow	ing roc	oms?	T				
	Wall- to-Wall	Hardwo	od Hardwood	Vinyl	Vinyl		Ceramic			
(✓only one box per row)	Carpet	(solid	(engineered)	Sheet	Tile	Wilsonart®)	Tile	Slate	Marble	Other
Entry foyer (/one)	. \Box	2	3	4	5	6	7	8	9	$ \begin{array}{c} 10 \\ 642 \end{array} $
Living room (vone)	_									□ ₆₄₃
Dining room (Vone)	_			П	_					□ ₆₄₄
Family room, den, rec room (\sigma one)	_		П							□ ₆₄₄
•	_									
Kitchen (Vone)	_	_	_	_				_		
Bedrooms (✓one)	_									☐ ₆₄₇
Half bathrooms (✓one)	_									☐ ₆₄₈
Full bathrooms (Yone)	. 🗆				Ш	Ш				☐ ₆₄₉
Hallway (✓one)										☐ ₆₅₁
Finished basement (Vone)	. П									G 651

LIGHTING WITH ENERGY-SAVING FEATURES

What **percent** of lighting fixtures and bulbs had energy-saving features in your **typical** homes?

	FIXTURES	BULBS
Interior	1186 _	1187
Exterior	1188 _	1189
ROOMS WITH FLOORING UNDI	ERLAYMENT	Γ
Underlayment is a second layer of she structural floor sheathing or concrete did you typically use underlayment?	slab. In which (√all th	a rooms at apply)
None All Rooms		L 3 001a
		[] 661b
Entry foyer Living room		[] 652 [] 653
Dining room		[] 653
Family room, den, rec room		[] 656
Kitchen		[] 657
Bedrooms		[] 658
Half bathrooms		[] 659
Full bathrooms		[] 661
Hallway		[] _{661c}
Other rooms(PLEASE SPECIFY)		[] 662
What percent of all the flooring under Lauan plywood	······	668
		669
3/8" OSB		670
7/16" or 1/2" OSB		671
5/8" OSB		672
3/4" OSB		673
1/4" plywood (other than lauan)		674
3/8" plywood	·····	675
1/2" plywood	·····	676
5/8" plywood		677
3/4" plywood		678
1/4" particleboard	·····	679
3/8" particleboard		680
1/2" particleboard	<u> </u>	681
5/8" particleboard	·····	682
3/4" particleboard	·····	683
1/4" hardboard	<u> </u>	684
Fiber-cement (e.g., Hardibacker®)		685a
Cement board (glass fiber reinforced,	®	685
Gypsum panel (FibeRock® or Dens-Sl		686
Poured lightweight concrete (Gypcrete		686a
Other		687
(PLEASE SPECIFY)		687 1 00%

INSULATION

FLAT CEILINGS / ATTIC INSULATION MATERIAL

What **percent** of your total **flat** ceiling areas (e.g., attics) were insulated with the following materials, and what was the typical R-value? % FLAT

typicai k-value?	% FLAT CEILINGS INSULATED	R-VALUE
NOT insulated	820	
Fiberglass batt and blown	812	812r
Fiberglass batt	813	813r
Fiberglass blown	814	814r
Rockwool batt	815	815r
Rockwool blown	816	816r
Cellulose blown	817	817r
Foam plastic (e.g., Icynene)	818	818r
Other(PLEASE SPECIFY)	100% 819	819r

CATHEDRAL CEILING INSULATION MATERIAL

What **percent** of your **cathedral** / **sloped** ceilings were insulated with the following materials, and what was the typical R-value? % CATHEDRAL

	CEILINGS INSULATED	R-VALUE
NOT insulated	831	
Fiberglass batt	827	827r
Rockwool batt	828	828r
Foam plastic (spray or board)	829	829r
Other	830 100%	830r

SLAB-ON-GRADE FOUNDATION INSULATION

What type of insulation did you **typically** use with slab-ongrade foundations, beneath the slab and / or around the perimeter?

One

ver column:

	- · · · · · · · · · · · · · · · · · · ·			
B	BENEATH SLAB	PERIMETER		
Extruded polystyrene				
(e.g., Dow-Styrofoam [®] , etc.)	[]	[]1		
Expanded polystyrene (bead board)	[]	[]2		
Polyisocyanurate (e.g., Thermax [®])	[]	[] ₃		
Fiberglass	[]	[]4		
No insulation used for slab	[]	[35		

THICKNESS OF SLAB INSULATION MATERIAL

What was the **typical thickness** of the insulation you used with slab-on-grade foundations, beneath the slab and / or around the perimeter?

	One ✓ per column:		
	BENEATH SLAB	PERIMETER	
3/4"	[]	[]1	
1"	[]	[]2	
1-1/2"	[]	[] ₃	
2" or more	[]	$\begin{bmatrix} \\ 846 \end{bmatrix}$ 4	

BASEMENT AND CRAWL SPACE INSULATION What method did you typically use to insulate the foundations of homes with basements or crawl spaces? (One ✓per column) BASE- CRAWL MENTS SPACES Between floor joists of the ground floor $\begin{bmatrix} 1 \end{bmatrix}_1$ Entire **interior** and **exterior** surfaces Entire **interior** surface of foundation wall...... []3 Only above-grade **interior** []4 Entire **exterior** surface of foundation wall [] []5 Only below-grade portion of foundation wall **exterior** [] []6 Only above-grade portion of foundation wall **exterior** [] []7 Foundation wall cavity [] []8 NO foundation insulation used [9 FOUNDATION WALL INSULATION TYPE What material did you typically use to insulate your basement or crawl space walls, and what was the R-value? If you insulated both the interior and exterior surfaces, you may \(\struct \two \) materials; otherwise \(\screen \) only one. MATERIAL **R-VALUE** Fiberglass batt or blanket [] 851 1 _____ 851 1r Rockwool batt [] 851 2 Fiberglass / rockwool board [] 851 3 Extruded polystyrene (XPS) [] 851 4 Expanded polystyrene (EPS) [] 851.5 Polyisocyanurate [] 851 6 (PLEASE SPECIFY) [] 851_7 ___ 851_7r HOUSES INSULATED BETWEEN FLOOR JOISTS What material did you typically use to insulate between ground floor joists and what was the typical R-value?

	MATERIAL	R-VALUE
Fiberglass batt or blanket	[]1	
Rockwool batt	[]2	
Fiberglass blown	[] ₃	
Cellulose blown	[]4	
Foam plastic (e.g., Icynene)	[] 5	850

GARAGE INSULATION

What percent of your garages had insulation installed in the:
Ceilings
All walls854
Only walls shared with living space855
Total need not add to 100%

WALL CAVITY INSULATION MATERIAL

What **percent** of your homes had the following wall cavity insulation materials, and what were their R-values? **Do not include** foam exterior wall sheathing.

	% HOMES	R-VALUE
NO wall cavity insulation	840	
Fiberglass batt	832	832r
Rockwool batt	833	833r
Fiberglass blown behind mesh	834	834r
Fiberglass blown-in, no mesh	835	835r
Cellulose blown behind mesh	836	836r
Cellulose blown-in, no mesh	837	837r
Foam plastic (spray or board)	838	838r
Other(PLEASE SPECIFY)	839 100%	839r

SOUND INSULATION

What **percent** of your homes had some insulation in their interior partition walls and / or floors-between-stories to dampen sound?

dampen sound?			MF
	SFD	SFA	BUILDINGS
Homes with wall sound insulation	806	807	808
Homes with floor sound insulation	806a	807a	808a

Of your homes with **wall sound insulation**, how many linear feet (LF) of interior partition wall did you insulate in your **typical** house or unit?

LF of wall with sound insulation			
	809	810	811

Of your homes with **floor sound insulation**, how many square feet (SF) of floor area did you insulate in your **typical** house or unit?

Sq.Ft . of floor with sound insulation			
•	900a	9100	9110

AIR INFILTRATION BARRIERS / HOUSE WRAP

What **percent** of your homes and multifamily buildings were wrapped with **air infiltration barrier** material?

Exclude roofing felt.			MF
	SFD	SFA	BUILDINGS
Percent wrapped:			
11	856	856a	856b

RADIANT BARRIERS

Radiant barriers are materials that are installed in buildings to reduce summer heat gain and winter heat loss, and hence to reduce building heating and cooling energy usage.

What percent of your houses had radiant barriers in the wall, roof, or ceiling assembly?

Roof or ceiling _______857

Wall Total need not add to 100%

AIR (HVAC) DUCTS		FIREPLACES
What percent of your houses with ducted HVAC s the main duct and run-outs located in the:	systems had	What percent of your homes had fireple wood stoves)?
Basement, crawl space or in framed floors only	1008	SFD
Attic only	1009	NO fireplaces / chimneys 712
Both attic and basement or crawlspace	1010	One fireplace / chimney
In or under concrete floor slab	1011	Two fireplaces / chimneys
Both in attic and concrete floor slab	1011a	Three or more 100%
AIR DUCT MATERIAL	100%	What percent of your fireplaces and sta
What percent of your houses with ducted HVAC s	systems had	Site-built brick or stone
the following types of duct material?		Site-built concrete masonry units
MAIN DUCTS Metal	012	Factory-built steel – open-front
Flexible		Factory-built steel – closed front
Fiberglass, rigid (foil-faced fiberglass board)		Stoves – wood or pellet burning
		Chimney only – ready for stove
Other(PLEASE SPECIFY)	914a 100%	Other
RUN-OUT DUCTS		Other
Metal	915	What percent of your fireplaces and sta
Flexible	916	Gas
Fiberglass, rigid (foil-faced fiberglass board)	917	Wood, pellet, or corn
Other(PLEASE SPECIFY)	917a	Electric
(PLEASE SPECIFY) WALL STACKS	100%	Jel / Gel
Metal	019	Other or not operational
Fiberglass, rigid (foil-faced fiberglass board)		
NONE (wall cavity)		DECKS, PATIOS, PORCHES
		What percent of your homes had the fo
Other(PLEASE SPECIFY)	920a 100%	what was their typical size in square fe P E
DUCT WRAP THICKNESS		Deck (outside)
If you used any duct insulation wrap, what was the thickness?	ne typical (√one)	Patio
1 inch	[]1	Breezeway
2 inches		Front porch
More than 2 inches	[₉₂₅] ₃	Front stoop
RIGID FIBERGLASS DUCTS		Side porch
If you used any rigid fiberglass ducts, what was to thickness of the fiberglass board used.	(Vone)	Screened-in porch
1 inch		
2 inch	[]2	TYPE OF PATIO What percent of your patios had surface
Other(PLEASE SPECIFY)	926 3	Poured concrete (include stamped or st
METAL DUCT INSULATION		
If you used any metal duct, what percent of all the		Concrete pavers
ducting was insulated by the following methods, it		Brick pavers
Lined with insulation (insulation inside the duct)		Tiles – brick or clay
Wrapped with insulation		Natural stone
NOT insulated	924	Treated wood block
Other(PLEASE SPECIFY)	923 100%	Other(PLEASE SPECIFY)

FIREPLACES			
What percent of your home. wood stoves)?	s had fire SFD	places (or chi SFA	mneys for MF UNITS
NO fireplaces / chimneys.	71	2 712a	712b
One fireplace / chimney			
Two fireplaces / chimneys			
Three or more			
	100%	100%	100%
What percent of your firepla	aces and	stoves were:	
Site-built brick or stone			705
Site-built concrete masonry	units		706
Factory-built steel – open-fi	ront	• • • • • • • • • • • • • • • • • • • •	708
Factory-built steel – closed	front		709
Stoves – wood or pellet bur	ning		710
Chimney only – ready for s	tove		711
Other			711a
What managet of your finant	a a	a4 a 1 a a 1 a a a a a	100%
What percent of your fireple			
Gas			
Wood, pellet, or corn			
Electric			716
Jel / Gel			
Other or not operational	• • • • • • • • • • • • • • • • • • • •		716
DECKS, PATIOS, PO	RCHE	ES. & FLAT	ГWORK
What percent of your home.		*	
what was their typical size i	_	-	
Daala (ataida)		PERCENT	SQ. FT.
Deck (outside)			928
Patio			930
Breezeway			932
Front porch	·····	933	934
Front stoop	·····	935	936
Side porch	····· <u>-</u>	937	938
Screened-in porch		939	940
	ls need n	ot add to 100°	%
TYPE OF PATIO What percent of your patios	s had surj	facing materio	ıl made of:
Poured concrete (include sta	amped or	stenciled)	955
Concrete pavers			956
Brick pavers			957
Tiles – brick or clay			
Natural stone			
Treated wood block			
11-aica wood block			959

100%

DECK AND PORCH MATERIAL

What percent of the decks and porches you built had decking

or surface material made of:	•	
Treated wood	DECKS 961	PORCHES 968
Cedar	961	
Redwood		
Other untreated wood		
Wood / Plastic composite (Trex, etc.)		
PVC, vinyl, or fiberglass		
Brick		
Tiles – brick or clay		
•		
Concrete (include stamped and stencile		
Natural stone	100%	··· 975c
DECK AND PORCH RAILINGS	3	
What percent of your porches and		railings?
Porches % 11	Deck	s % ₁₁₂₁
What percent of your porch and de		consisted
primarily of the following materials	s? PORCHES	DECKS
Treated wood	112:	
Cedar	112	
Redwood	1124	
Other untreated wood		
Wood / plastic composite (Trex)	112	
PVC, vinyl, or fiberglass	1130	
	1133	
Aluminum	113	
Wrought iron or steel	1130	61137
Masonry or concrete (all types)	113	
Other (PLEASE SPECIFY)	100%	1141 100%
WALKWAYS & SIDEWALKS		
How many linear feet of walkways sidewalk did your typical home haw		LF
What percent of all your sidewalks		ays were:
Poured concrete		977
Concrete paver		978
Asphalt		
Brick paver		
Brick or clay tiles		
Natural stone		
Treated wood block		
Trailed Wood Diock		981
Other		982

FENCING AND LANDSCAPE WALLS

What **percent** of your homes or living units had fencing / privacy walls or landscape / retaining walls installed on the lot as part of their sales contract?

	Fence / Privacy Wall	Landscape / Retaining Wall
SF Detached Houses	% 987	% 998
SF Attached Houses	% _{987a}	% _{988a}
Multifamily Buildings	% 987b need not add to 1	

For houses with fencing or walls, what was the typical length of fence or wall? (per building if multifamily)

	Fence / Privacy Wall	Landscape / Retaining Wall
SF Detached Houses	LF 988	LF 999
SF Attached Houses	LF 988a	LF 999a
Multifamily Buildings	LF _{988b}	

What was the typical or average fence / wall height?

	Fence / Privacy Wall	Landscape / Retaining Wall	
SF Detached Houses	FT ₉₈₉	FT ₁₀₀₀	
SF Attached Houses	FT 989a	FT _{1000a}	
Multifamily Buildings			
Totals need not add to 100%			

FENCING AND LANDSCAPE WALL MATERIAL

What percent of the fences or walls were:					
	Fence / Privacy Wall				
Wood – vertical boards on alternating sides	-	C			
Wood – vertical boards on one side	991				
Wood with horizontal rails / boards	992				
Metal (chain link, wire w/ steel pos	ts)993				
Wrought iron	993b				
Aluminum	993c				
Wood / Plastic composite (Trex, etc.	c.)993a				
Vinyl, PVC, or other plastic	994				
Stone (natural or synthetic)	995	1001			
Brick	996	1002			
Pre-cast concrete	997	1005			
Poured concrete	997a	1004			
Mortared concrete block	997b	1003			
Stacked concrete block (NO mortar	997c	1003a			
Stucco on wood frame	997d	1006a			
Wood timbers (for landscape walls)	100%				

INDIVIDUAL SWIMMING POOLS

What **percent** of your homes included their own swimming pool **as part of the sales contract**?

	SFD	SFA			BUILDINGS
	% 983		_ % 98	33a	% _{983b}
Average size of S	F Detached pool:	984	_FT.	X	FT.
Average size of S	F Attached pool:	984a	_FT.	X	FT.
Average size of M	Iultifamily pool:	984b	_FT.	X	FT.

POOL CONSTRUCTION METHOD

What was the **primary method** used for constructing swimming pools?

	(V	one)
Cast-in-place concrete	[]1
Shotcrete (gunnite)	[]2
Other	ſ	3
(PLEASE SPECIFY)	-9	86

PRACTICES REGARDING RADON GAS

Please answer even if you used NO radon-reducing practices.

SUB-SLAB OR SUB-MEMBRANE VENTILATION

What **percent** of the houses you built had the following types of ventilation systems to reduce radon:

BASEMENTS CRAWL

	OR SLABS	
NO venting installed to reduce radon	791	795
A rough-in for ventilation (not a complete system, e.g., capped pipe riser in basement)	788	
Passive stack ventilation	789	792
Fan-driven (active) depressurization	790	793
Foundation wall vents		794

SEALING METHODS OF HOUSES WITH SLAB OR BASEMENT FOUNDATIONS

How do you seal your slabs?
If you don't seal, ✓"NO slab sealing method used."

(√all tha	t apply)
NO slab sealing method used	[] 803
Polyethylene or other membrane under slab	[] 796
Membrane on foundation walls below grade	[] 797
Caulk around slab, wall openings and slab joints	[] 798
Seal interior of foundation walls	[] 799
Locate sump access outside of basement	[] 800
Install air tight sump pit covers	[] 801
Other(PLEASE SPECIFY)	[] 802
(TEELIDE DI ECH T)	

PASSIVE vs. ACTIVE SUBSLAB VENTILATION

If you installed PASSIVE sub-slab or sub-membrase ventilation (without a fan), what was the typical add	
cost for you to include these features per home?	(√one)
Less than \$200	[]1
\$200 to \$299	[]2
\$300 to \$399	[]3
\$400 to \$499	[]4
\$500 to \$599	[]5
\$600 to \$799	2 30
\$800 or more	[]7

RADON TESTING

What **percent** of your homes were tested for radon?______%

Of the houses tested for radon, what **percent** needed further work to reduce radon to less than 4 pCi/L? %

PLUMBING FIXTURES

What was the typical **number** of plumbing fixtures installed in each home your firm built?

each nome your jirm t					
	SFD Starter ♣	SFD Move-up ♣	SFD Luxury	SFA Per UNIT	MF Per UNIT ↓
Lavatory sinks					
Bathtubs (both standard and whirlpool)	d v1	v10	v19	v28	v37
Ι ,	v2	v11	v20	v29	v38
Separate shower Stalls					
	v3	v12	v21	v30	v39
Toilets	v4	v13	v22	v31	v40
Bidets	v5		v23		
Kitchen sinks	VS	V14	V23	V32	V41
Kitchen shiks	v6	v15	v24	v33	v42
Bar sinks	v7	v16	v25	v34	
	V /	V10	V23	V34	V43
Laundry tubs / sinks.	v8	v17	v26	v35	v44
Other				·	
(PLEASE SPECIFY)	v9	v18	v27	v36	v45

KITCHEN SINK TYPE What percent of your kitchen sinks were: Drop-in _______v95 Under-counter Other (PLEASE SPECIFY) 100% KITCHEN SINK MATERIAL What **percent** of your kitchen sinks installed were: Stainless steel Enameled cast iron Enameled steel _____ Cultured marble ______v61 Solid-surface (e.g., Corian®, etc.) _______v62 Granite / Stone (e.g., Moenstone®, Silgranit®, Kindred Granite[®], etc.) Acrylic Other __ v62b (PLEASE SPECIFY) 100% KITCHEN SINK BASINS What **percent** of your kitchen sinks had the following number of basins? Single basin Double basin _____ (PLEASE SPECIFY) 100% KITCHEN SINK FAUCETS What percent of your kitchen sink faucets had the following control types: Single control (handle or lever) ______v201 Two controls (one for hot and one for cold) What percent of your kitchen sink faucets had the following finishes: Chrome ____ Polished brass Hand-rubbed bronze

(PLEASE SPECIFY)

100%

LAVATORY SINK TYPE	
What percent of the lavatory sinks you installed were:	
One-piece sink and countertopv46	
Drop-in (self-rimming)v47	
Wall-hungv48	
Pedestalv50	
Undermount	
LAVATORY SINK MATERIAL What percent of all the lavatory sinks you installed were:	
Vitreous china (ceramic)v51	
Enameled cast ironv52	
Enameled steel (include Americast®)v53	
Cultured marblev54	
Coated fiberglassv55	
Acrylicv56	
Solid-surface (e.g., Corian [®] , Swanstone [®] , etc.) _{v57}	
Other	
(PLEASE SPECIFY) 100%	
LAVATORY SINK FAUCETS	
What percent of your lavatory sink faucets had the following control types: Single control (handle or lever)	
Two controls (one for hot and one for cold) v212	
100%	
What percent of your lavatory sink faucets had the following finishes: Chrome	
Dolished bross	
Hand-rubbed bronze v215	
Solid color (almond, white, black, biscuit, etc.) v216	
Nickel v217	
Stainless steelv218	
Other	
BATHTUB AND WHIRLPOOL SURROUNDS	
What percent of the separate bathtubs and whirlpool baths you installed had site-constructed surrounds of the following materials?	
NO separate bathtub surrounds were constructed% $_{\rm v76}$	
Ceramic tile% _{v71}	
Marble, slate, or other natural stone	a
Solid surface (e.g., Corian®, Avonite®, etc.)% _{v72}	
High-pressure laminate (e.g., Formica, Wilsonart) $_\{v73}$	
Fiberglass / Plastic% _{v73}	a
Cultured marble% _{v74}	
Other	

(PLEASE SPECIFY)

100%

Other _

BATHTUBS (NON-WHIRLPOOL) SEPARATE SHOWER STALLS What percent of all the non-whirlpool bathtubs you installed were: What percent of all the shower stalls you installed were: **Tub / Shower Combination** Fabricated on-site from: Coated fiberglass, one-piecev63 Ceramic tile Coated fiberglass, multi-piece____ Marble, slate, or other natural stone Acrylic, one-piece ______ Solid surface (e.g., Corian[®], Avonite[®], etc.)... Acrylic, multi-piece High pressure laminate (e.g., Formica[®], Wilsonart[®]) Other Cultured marble _______v80 (PLEASE SPECIFY) Tub only Other (PLEASE SPECIFY) Enameled cast iron _______v65 Enameled steel Manufactured units of: Cultured marble Coated fiberglass _______v68 Acrylic, one-piece Acrylic_____ Solid-surface (e.g., Swanstone[®], Avonite[®], etc.) Acrylic, multi-piece ______ (PLEASE SPECIFY) (PLEASE SPECIFY) 100% 100% WHIRLPOOL BATHTUBS SHOWER BASES What **percent** of your homes had whirlpool baths? SFD MF What percent of the fabricated on-site showers you installed SFD SFD SFA Starter Move-up Luxury Units Units had manufactured bases or pans? v256 Whirlpool bathtubs **BATHTUB / SHOWER FAUCETS** v20w v29w v38w What percent of your bathtub / shower faucets used the What **percent** of all the whirlpool baths you installed were: following control types: **Tub / Shower Combination** Single control, pulled or lifted to turn on water. Coated fiberglass, one-piece _______v63w Single control, twisted to turn on water Coated fiberglass, multi-piece ______v63wm Two controls (one for hot and one for cold)...... Acrylic, one-piece 100% Acrylic, multi-piece What **percent** of your bathtub / shower sink faucets had the Other *following finishes:* (PLEASE SPECIFY) Chrome _____ Tub only Enameled cast iron ______v65w Polished brass.... Enameled steel Hand-rubbed bronze Solid color (almond, white, black, biscuit, etc.) Coated fiberglass Nickel ______ Acrylic Stainless steel _______ Solid-surface (e.g., Swanstone[®], Avonite[®], etc.) _______{v70w} Other (PLEASE SPECIFY) Other 100% _ v70aw (PLEASE SPECIFY) 100% STEAM GENERATORS TUB / SHOWER DOORS What percent of all the tubs, showers, and whirlpool baths you What **percent** of the tubs, showers, and whirlpool baths you installed had Steam Generators? installed had shower doors? Bathtubs _____ Bathtubs (non-whirlpool) Showers Showers ______ Whirlpools Whirlpool baths v236

Total need not add to 100%

100%

SHOWERHEADS

What **percent** of the bathtubs and showers you installed had showerheads of the following types:

Standard / Fixed showerheadv	249
Hand-held showerhead	250
Massaging showerheadv	251
Thermostatic valvesv	252
Body spraysv	253
Steam headv	254
Other (PLEASE SPECIFY)	255
What percent of the bathtubs and showers you installed had the following:	
More than 1 Standard showerhead	257
More than 1 Hand-held showerhead	258

WATER PIPES

What percent of your homes had water or sewage pipes that were:

WATER SERVICE DISTRIBUTION WASTE

WA	TER SERVICE	DISTRIBUTION	WASIE
Copper	v210s	v210d _	v210w
PVC or CPVC	v211s	v211d _	v211w
Polyethylene (PE)	v212s	v212d	v212w
PEX (Cross linked PE)	v213s	v213d	v213w
PEX-AL-PEX (Kitec®) v214s	v214d -	v214w
Steel / Cast iron	v215s	v215d	v215w
ABS	v216s	v216d -	v216w
Handa and DEV ninin	a who was the	maina am manuf	actures of

If you used **PEX** piping, who was the **primary** manufacturer of the piping?

CPI	$\begin{bmatrix} \ \end{bmatrix}_1$
Vanguard	$\begin{bmatrix} \ \end{bmatrix}_2$
Wirsbo	[]3
Quest PEX	[]4
RTI	[]5
Rehau	[]6
Other(PLEASE SPECIFY)	[]7
(PLEASE SPECIFY)	v240

TOILETS

TOILETS	
What percent of the toilets installed in your new hor	mes were:
One piece (bowl and tank one casting)	v85_1
Two piece	100% v85_2
What percent of the toilets had the following bowl s	tyles?
Elongated	v85_3
Standard	100% v85_4
What percent of your toilets were dual flush?	
Percent of toilets with Dual Flush	v85_5

TOILET BRANDS

Of all the toilets you installed last year, what **percent** were the following brands?

	Percent
American Standard	v85
Briggs	v85a
Crane	v85b
Eljer	v85c
Gerber	v86
Kohler	v86a
Mansfield	v86b
Sterling	v86c
Toto	v87
Universal-Rundle	v87a
St. Thomas Creations	v87b
Other(PLEASE SPECIFY)	v87c
, , , , , , , , , , , , , , , , , , , ,	100%

MOUNTED BATH ACCESSORIES

How many of the following are installed in your typical bathroom?

Towel Bar	v241
Towel Ring	v242
Robe Hook	v243
TP Holder	v244
Toothbrush/Tumbler holder	v245
Shelf	v246
Soapdish	v247
Grab bars	v248

HOMES FOR OLDER BUYERS

What percent of your homes were:	
Constructed in "active adult" or age-restricted	
communities	746
Sold to occupants over the age of 55	747

APPLIANCES

RANGES, COOKTOPS & OVENS

What percent of your homes cooktops and ovens that were		pped with	n ranges or MF
, , , , , , , , , , , , , , , , , , ,	SFD	SFA	UNITS
Freestanding	a1	a	6 a11
Slide-in	a2	a	7 a12
Drop-in	a3	a	8 a13
Cooktop & wall oven(s)	a4	a	9 a14
NO range / cooktop / oven	a5	a	10 a15

WALL OVEN CONFI	GUKA	TION				
What percent of your ne	w home	es with b	uilt-in w	all o	vens h	ad:
A single wall oven						a34
Two separate wall oven	ıs					a35
Stacked double ovens in	n a sing	le unit				a36
BURNER TYPE					100%	
What percent of the cool	king ap	pliances	you inst	alle	d had tl	he
following types of burne	rs?	RA	NGES	C	оокто	PS
Electric	.1 .					
Halogen burner / smoo	-			a22		_ a28
Smoothtop, not haloger				a23		_ a29
Conventional heat coils				a24		_ a30
Modular units for grill				a25		_ a3
Gas Sealed gas burners				۰26		027
Conventional gas						
Conventional gas				a27		
What percent of the equi	ipment	you insta				ving
fuel types?		you insta	alled use	d the	e follow WATE	ving R
What percent of the equation fuel types? RANGE Gasa	CS COO	OKTOPS a18	alled use	d the	e follow WATE HEATE	ving R RS
What percent of the equation fuel types? RANGE Gasa	CS COO	OKTOPS a18	ulled used WALL OVENS	d the	e follow WATE HEATE	ving R RS a20
What percent of the equation fuel types? RANGE Gasa Electrica Oil	2S COO	DKTOPS a18 a19	wall ovens	d the	e follow WATE HEATE	ving R RS a20 a21
What percent of the equation fuel types? RANGE Gasa Electrica Oil	2S COO	a18 a19	wall ovens	d the	e follow WATE HEATE	ving R RS a20 a21
What percent of the equation fuel types? RANGE Gas	2S COO 116 ———————————————————————————————————	DKTOPS — a18 — a19 — 0% COOKI	WALL OVENS all all all 100%	d the	e follow WATE HEATE 100%	ving R RS a20 a21 a21a
What percent of the equation full types? RANGE Gasa Electrica Oil100% VENTING METHODS What percent of your ne	2S COO 116 ———————————————————————————————————	DKTOPS — a18 — a19 — 0% COOKI	WALL OVENS all all all 100%	d the	e follow WATE HEATE 100%	ving R RS a20 a21 a21a
What percent of the equation o	100 S FOR w home	DKTOPS — a18 — a19 — 0% COOKI	WALL OVENS all all all 100%	d the	e follow WATE HEATE 100%	ving R RS a20 a21 a21a
What percent of the equation o	100 S FOR w home	DKTOPS — a18 — a19 D% COOKI es used the	WALL OVENS al al 100% NG the follow SFA	d the	e follow WATE HEATE 100% method	ving R RS a20 a21 a21a
What percent of the equation fuel types? RANGE Gasa Electrica Oil100% VENTING METHODS What percent of your neto vent cooking odors? Over-the-range microwal with venting	100 S FOR SI	DKTOPS a18 a19 D% COOKI es used the	WALL OVENS al al al al al SFA	d the	e follow WATEI HEATE 100% method	ving R RS a20 a21 a21a
What percent of the equation o	100 S FOR w home Sinve	DKTOPS a18 a19 D% COOKI es used the	WALL OVENS al al al al al SFA	d the	e follow WATE HEATE 100% method MF UN	ving R RS a20 a21 a21a LS LS ASS ASS ASS ASS ASS ASS ASS ASS
What percent of the equation fuel types? RANGE Gasa Electrica Oil100% VENTING METHODS What percent of your neto vent cooking odors? Over-the-range microwa with venting Downdraft venting in randouctless range hood	100 S FOR www homes	DKTOPS a18 a19 D% COOKI es used th FD a37 a38 a39	WALL OVENS al al 100% NG the follow SFA	d the	e follow WATE HEATE 100% method	ving R RS a20 a21 a21a ITS a51 a52 a53
What percent of the equative types? RANGE Gasa Electrica Oil100% VENTING METHODS What percent of your neto vent cooking odors? Over-the-range microwa with venting Downdraft venting in randouctless range hood Ducted range hood	100 S FOR w home Sinve	DKTOPS a18 a19 D% COOKI es used the ses used	ulled used WALL OVENS ———————————————————————————————————	a44 a45 a46 a47	e follow WATE HEATE 100% method MF UN	ving R R RS a20 a21 a21a 1s 1s 1s 1s 1s 1s 1s 1s 1s
What percent of the equative types? RANGE Gasa Electrica Oil100% VENTING METHODS What percent of your neto vent cooking odors? Over-the-range microwa with venting Downdraft venting in rand puctless range hood Ducted range hood Through-the-wall fan	100 S FOR w home Since	DKTOPS a18 a19 20% COOKI es used the ses used the se	alled used WALL OVENS all all 100% NG the follow SFA	d the 18a 19a 19a 19a 19a 19a 19a 19a 19a 19a 19	e follow WATE HEATE 100% method MF UN	ving R RS a20 a21 a21a a21a
What percent of the equation o	100 S FOR www homes Single	DKTOPS a18 a19 20% COOKI es used the ses used the se	alled used WALL OVENS all all 100% NG ne follow SFA	ing a44 a45 a46 a47 a48 a49	e follow WATE HEATE 100% method MF UN	ving R RS a20 a21 a21a 1s ITS a52 a53 a54 a55

What percent of your homes were equipped with microwave ovens that were:

o rend man rever	SFD	SFA	MF UNITS
Built-in with range	a58	a62	a66
Built into cabinet	a58a	a62a	a66a
Over-the-range	a59	a63	a67
Countertop or hung under cabinets	a60	a64	a68
Top unit of double wall			
oven	a60a	a64a	a68a
NO microwave oven	a61	100% a65	100% a69

REFRIGERATORS

What **percent** of your homes were equipped with refrigerators that were:

	SFD	SFA	MF UNITS
Freezer on top,			
refrigerator below	a70	a74	a78
Refrigerator on top,			
freezer below	a71	a75	a79
Side-by-side			
refrigerator / freezer	a72	a76	a80
Refrigerator with no			
freezer	a72a	a76a	a a80a
NO refrigerator	a73	a77	a81
C	100%	100%	
DISHWASHERS			

DISHTORDILLING			
What percent of your hom	ies were equip	pped with:	
	SFD	SFA	MF UNITS
Dishwashers with			
timing cycles	a82	a85	a88
Dishwashers with			
cleaning sensors	a83	a86	a89
NO dishwasher	a84	a87	a90
	100%	100%	100%

CLOTHES WASHERS

What percent of your homes were equipped with clothes washers that were:

	SFD	SFA	MF UNITS
Top loading washing machine	a91	a94	a97
Front loading washing machine	a92	a95	a98
NO washing machine	100% a93	100% a96	100% a99

CLOTHES DRYERS

What percent of your homes were equipped with clothes dryers that were:

	SFD	SFA	MF UNITS
Electric dryer	a100	a102	a106
Gas powered dryer	a101	a10-	4 a107
NO clothes dryer	a102	a10:	

OTHER APPLIANCES

Chair lift

What **percent** of your homes were equipped with the following appliances? MF SFD **SFA** UNITS Garbage disposal..... a113 _____ a121 Trash compactor a114 _____ a118 ____ a122 Hot water dispenser a115 _____a119 _____a123 Central vacuum -

Central vacuum pre-pipe only___ ____ a141 ____ a142 ____ Elevator___ ___ a144 ___ ___ a145 ___

full system a116 _____ a120 ____ a124

__ a147 _____ a148 ___ Totals need not add to 100%

TILE OF STAIRS			STRUCTURED WIRING AND HOME NET WORKS	
Which of the following description: Prefabricated	TO BASEMENT	TO UPPER	Structured wiring, or "home networks," consist typically of central distribution panel that connects cable for audio / vic signals (coaxial cable, or RG6) and wiring for data / voice outlets throughout the house.	
Fabricated on-site		[] 2 501b	What percent of the homes you built in 2005 had structured wiring, or "home networks" with outlets in 3 rooms or more	
MATERIAL OF STAIRS	S		a140	_%
What materials did you use				
TREAD MATERIAL	TO BASEMENT	TO UPPER	HOME ELECTRONICS	
Softwood lumber			What percent of your homes were equipped with the follow home electronics systems?	nng
Hardwood lumber		[]2	Percent of HOM	MES
Plywood		[]3	Intercom / Entrance phone	a124
OSB		[]4	Video entrance phone	
Particleboard		[]5		
Metal or other	[₅₀₂] 6	[503b	Whole home control or automation system	- a127
	303a	3030	Security system – not monitored by protection service	- a128
RISER MATERIAL			Security system – monitored by protection service.	_ a129
Softwood lumber		[]1	Lighting control system	-120
Hardwood lumber		[]2		
Plywood		[]3	Programmable thermostat	
OSB Particleboard		[]4	Communicating thermostat	- a132
		[]5	Monitored fire / toxic gas alarm system	_ a133
Metal or other	L] 6 504a	[] 6 504b	Whole-house audio system	_ a134
STRINGER MATERIAL	ı		Whole-house video access	a134
Softwood lumber	[]1	[]1	Built-in home theater	
Hardwood lumber	[]2	[]2		
Plywood		[]3	Electrical load-monitoring / control system	
Metal or other	[] 4 502a	[] 4 502b	Multi-line phone system	- a138
UPDATES				
Would you like to receive p	periodic updates or	ı NAHB		
Research Center testing res			(PLEASE SPECIFY E-MAIL ADDRESS)	_
No [] 1 Yes	[]2	a160	(I LEASE SI ECH I E-MAIL ADDRESS)	

STRUCTURED WIDING AND HOME NETWORKS

Thank You for Your Time and Cooperation!

Completing and returning this questionnaire entitles you to a free report summarizing the results from this survey nationally with a special tabulation of respondents from your area. Reports will be available in the late summer of this year. Please call Joanne McAlpin at 1-800-638-8556 ext. 6306 to request your copy.

Returning the Questionnaire

TYPE OF STAIRS

- 1. Fold back cover over to expose the **Business Reply Mail** label.
- 2. **Tape closed** at top and bottom where indicated.
- 3. If your name and address differ from the mailing label, please **fill in correct name and address.**
- 4. **Place in return mail** postage paid by NAHB Research Center, Inc.