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## APPENDIX TABLES



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The following Web tables provide historical data on improvement spending and additional homeowner detail such as income quintiles, nativity, metro status, and recent mover status. Visit the Joint Center’s website at [www.jchs.harvard.edu](http://www.jchs.harvard.edu).

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Table A-1

## Homeowner Improvement Expenditures: 2013

	Homeowners Reporting Projects (000s)	Average Expenditure (\$)	Total Expenditures (Millions of \$)
<b>DISCRETIONARY</b>	<b>5,138</b>	<b>11,318</b>	<b>58,147</b>
<b>Kitchen Remodels</b>	<b>1,826</b>	<b>9,459</b>	<b>17,273</b>
Minor	1,059	3,207	3,398
Major	767	18,097	13,876
<b>Bath Remodels</b>	<b>2,459</b>	<b>4,844</b>	<b>11,910</b>
Minor	1,348	1,558	2,101
Major	1,111	8,829	9,809
<b>Room Additions and Alterations</b>	<b>1,765</b>	<b>13,314</b>	<b>23,496</b>
Kitchen Addition	28	34,699	976
Bath	342	8,294	2,834
Created finished bathroom from unfinished space	111	7,325	812
Added bathroom onto home	90	12,822	1,151
Bathroom created through structural changes	141	6,173	871
Bedroom	550	14,506	7,984
Created finished bedroom from unfinished space	192	6,758	1,296
Added bedroom onto home	132	39,536	5,233
Bedroom created through structural changes	226	6,429	1,455
Other	1,210	9,673	11,702
Created finished recreation room from unfinished space	199	9,661	1,921
Created other finished inside room from unfinished space	380	7,146	2,713
Added other inside room onto home	175	23,306	4,083
Other room created through structural changes	456	6,544	2,985
<b>Outside Attachments</b>	<b>730</b>	<b>7,489</b>	<b>5,468</b>
Porch/Deck	633	5,867	3,714
Added porch onto home	290	5,594	1,625
Added deck onto home	343	6,099	2,089
Garage/Carport	121	14,439	1,754
Added attached garage onto home	61	23,606	1,450
Added carport onto home	60	5,069	305
<b>REPLACEMENT</b>	<b>18,751</b>	<b>4,889</b>	<b>91,681</b>
<b>Systems and Equipment Additions &amp; Replacements</b>	<b>12,671</b>	<b>2,375</b>	<b>30,097</b>
Internal water pipes	1,461	1,148	1,677
Plumbing fixtures	4,038	933	3,769
Electrical wiring, fuse boxes or breaker switches	2,220	1,228	2,726
HVAC	4,445	3,782	16,808
Central air conditioning	2,215	4,187	9,275
Built-in heating equipment	2,230	3,378	7,533
Appliances/Major Equipment	8,597	595	5,117
Water heater	3,245	794	2,577
Built-in dishwasher	2,360	611	1,443
Garbage disposal	1,636	183	299
Security system	1,356	589	799
<b>Exterior Additions &amp; Replacements</b>	<b>7,127</b>	<b>5,467</b>	<b>38,962</b>
Roofing	3,628	6,485	23,525
Siding	1,055	4,594	4,846
Windows or doors	3,894	2,720	10,591
<b>Interior Additions &amp; Replacements</b>	<b>7,705</b>	<b>2,936</b>	<b>22,622</b>
Insulation	1,625	1,187	1,929
Flooring/Paneling/Ceiling	8,433	2,021	17,046
Wall-to-wall carpeting	2,215	2,086	4,620
Other flooring such as wood, tile, marble, or vinyl	4,346	2,297	9,980
Paneling or ceiling tiles	1,872	1,306	2,445
Other major improvements inside home	832	4,386	3,647
<b>OTHER</b>	<b>6,510</b>	<b>6,475</b>	<b>42,156</b>
<b>Disaster Repairs</b>	<b>1,138</b>	<b>13,896</b>	<b>15,819</b>
<b>Other Property Additions &amp; Replacements</b>	<b>7,125</b>	<b>3,697</b>	<b>26,336</b>
Other outside structure	217	6,071	1,315
Septic tank	176	3,328	585
Driveways or walkways	1,840	2,976	5,475
Fencing or walls	1,880	1,915	3,600
Patio, terrace, or detached deck	1,293	3,928	5,081
Swimming pool, tennis court, or other recreational structure	372	8,289	3,087
Shed, detached garage, or other building	909	5,892	5,356
Other major improvements or repairs to lot or yard	438	4,197	1,838
<b>Total</b>	<b>21,736</b>	<b>8,833</b>	<b>191,984</b>

Notes: Homeowner numbers do not add to total because respondents may report projects in more than one category. Major remodels are defined as professional home improvements of more than \$10,000 for kitchen projects and more than \$5,000 for bath projects, and DIY improvements of more than \$4,000 for kitchen projects and \$2,000 for bath projects. Tabulations use JCHS-adjusted weights. For more information about the re-weighting methodology, see [www.jchs.harvard.edu/research/improving-americas-housing](http://www.jchs.harvard.edu/research/improving-americas-housing).

Source: JCHS tabulations of HUD, American Housing Survey.

## Professional and Do-It-Yourself Home Improvement Expenditures: 2013

	Professional			Do-It-Yourself		
	Homeowners Reporting Projects (000s)	Average Expenditure (\$)	Total Expenditures (Millions of \$)	Homeowners Reporting Projects (000s)	Average Expenditure (\$)	Total Expenditures (Millions of \$)
<b>DISCRETIONARY</b>	<b>3,210</b>	<b>13,816</b>	<b>44,353</b>	<b>2,836</b>	<b>4,864</b>	<b>13,794</b>
<b>Kitchen Remodels</b>	<b>1,068</b>	<b>28,401</b>	<b>12,432</b>	<b>758</b>	<b>13,051</b>	<b>4,841</b>
Minor	670	4,109	2,752	390	1,656	645
Major	398	24,292	9,680	368	11,394	4,196
<b>Bath Remodels</b>	<b>1,343</b>	<b>6,650</b>	<b>8,933</b>	<b>1,116</b>	<b>2,668</b>	<b>2,977</b>
Minor	715	2,217	1,584	633	815	516
Major	629	11,690	7,349	482	5,101	2,460
<b>Room Additions and Alterations</b>	<b>908</b>	<b>20,231</b>	<b>18,379</b>	<b>886</b>	<b>5,775</b>	<b>5,118</b>
Kitchen	21	41,269	881	7	14,070	96
Bath	168	13,254	2,229	153	3,941	605
Bedroom	246	25,981	6,398	252	6,300	1,586
Other	548	16,183	8,871	556	5,092	2,831
<b>Outside Attachments</b>	<b>428</b>	<b>10,773</b>	<b>4,609</b>	<b>302</b>	<b>2,841</b>	<b>859</b>
Porch/Deck	353	8,332	2,945	272	2,830	769
Garage/Carport	86	19,427	1,664	35	2,595	90
<b>REPLACEMENT</b>	<b>14,026</b>	<b>5,601</b>	<b>78,557</b>	<b>7,764</b>	<b>1,690</b>	<b>13,124</b>
<b>Systems and Equipment Additions &amp; Replacements</b>	<b>8,853</b>	<b>2,903</b>	<b>25,702</b>	<b>5,116</b>	<b>859</b>	<b>4,395</b>
Internal Water Pipes	889	1,598	1,421	572	448	256
Plumbing Fixtures	2,074	1,292	2,681	1,964	554	1,088
Electrical System	1,464	1,540	2,256	756	622	470
HVAC	3,033	5,131	15,560	459	2,722	1,248
Appliances/Major Equipment	4,579	827	3,785	2,884	462	1,332
<b>Exterior Additions &amp; Replacements</b>	<b>5,386</b>	<b>6,454</b>	<b>34,760</b>	<b>1,987</b>	<b>2,115</b>	<b>4,202</b>
Roofing	3,059	7,099	21,713	569	3,183	1,812
Siding	779	5,665	4,412	276	1,571	433
Windows/Doors	2,505	3,448	8,635	1,390	1,408	1,957
<b>Interior Additions &amp; Replacements</b>	<b>5,074</b>	<b>3,566</b>	<b>18,095</b>	<b>3,200</b>	<b>1,415</b>	<b>4,527</b>
Insulation	997	1,587	1,582	628	552	347
Flooring/Paneling/Ceiling	4,061	3,330	13,524	2,722	1,294	3,522
Other Interior	602	4,962	2,989	252	2,609	658
<b>OTHER</b>	<b>4,322</b>	<b>8,237</b>	<b>35,596</b>	<b>2,531</b>	<b>2,592</b>	<b>6,559</b>
<b>Disaster Repairs</b>	<b>950</b>	<b>14,259</b>	<b>13,549</b>	<b>188</b>	<b>12,061</b>	<b>2,271</b>
<b>Other Property Additions &amp; Replacements</b>	<b>3,508</b>	<b>6,285</b>	<b>22,048</b>	<b>2,378</b>	<b>1,804</b>	<b>4,289</b>
<b>Total</b>	<b>16,319</b>	<b>9,713</b>	<b>158,506</b>	<b>9,783</b>	<b>3,422</b>	<b>33,478</b>

Notes: Homeowner numbers do not add to total because respondents may report projects in more than one category. Major remodels are defined as professional home improvements of more than \$10,000 for kitchen projects and more than \$5,000 for bath projects, and DIY improvements of more than \$4,000 for kitchen projects and \$2,000 for bath projects. Job categories are aggregations of the detailed projects reported in the AHS (see Table A-1). Tabulations use JCHS-adjusted weights. For more information about the re-weighting methodology, see [www.jchs.harvard.edu/research/improving-americas-housing](http://www.jchs.harvard.edu/research/improving-americas-housing).

Source: JCHS tabulations of HUD, American Housing Survey.

Table A-3

## Improvement Expenditures by Homeowner Characteristics: 2013

	Number of Homeowners (000s)	Homeowners Reporting Projects (000s)	Average Expenditure (\$)	Total Expenditures (Millions of \$)
<b>Income</b>				
Under \$40,000	24,095	5,967	5,590	33,356
\$40,000–79,999	22,360	6,410	6,966	44,654
\$80,000–119,999	13,811	4,320	9,314	40,232
\$120,000 and Over	14,312	4,818	15,017	72,358
<b>Home Value</b>				
Under \$100,000	19,627	5,047	4,814	24,297
\$100,000–149,999	12,894	3,786	6,022	22,802
\$150,000–199,999	11,358	3,414	7,191	24,551
\$200,000–249,999	7,621	2,292	8,063	18,475
\$250,000–399,999	13,231	3,903	11,511	44,925
\$400,000 and Over	10,944	3,294	17,283	56,933
<b>Age of Householder</b>				
Under 35	8,907	2,510	6,962	17,473
35–44	12,161	3,578	10,131	36,243
45–54	16,327	4,829	9,933	47,962
55–64	16,635	4,959	9,162	45,441
65 and Over	21,646	5,861	7,655	44,865
<b>Generation</b>				
Millennial (Born 1985–2004)	2,877	772	6,355	4,905
Trailing Gen-X (Born 1975–84)	10,237	2,990	8,600	25,709
Leading Gen-X (Born 1965–74)	13,852	4,078	9,849	40,167
Trailing Baby Boom (Born 1955–64)	17,298	5,141	9,949	51,148
Leading Baby Boom (Born 1945–54)	15,446	4,575	8,877	40,614
Pre-Baby Boom (Born before 1945)	15,965	4,180	7,043	29,440
<b>Race/Ethnicity</b>				
White	58,826	17,191	9,188	157,948
Black	6,355	1,758	6,375	11,208
Hispanic	6,738	1,787	7,781	13,903
Asian	2,593	655	9,734	6,379
Multirace	1,163	345	7,392	2,547
<b>Spending Level</b>				
Under \$2,500	9,309	9,309	838	7,797
\$2,500–4,999	3,345	3,345	3,538	11,835
\$5,000–9,999	3,979	3,979	6,866	27,319
\$10,000–19,999	2,853	2,853	13,537	38,618
\$20,000–34,999	1,240	1,240	26,006	32,248
\$35,000–49,999	445	445	41,070	18,270
\$50,000 and Over	565	565	98,961	55,897
No Projects	53,940			
<b>Total</b>	<b>75,676</b>	<b>21,736</b>	<b>8,833</b>	<b>191,984</b>

Notes: Income data exclude households that did not respond to the question. White, black, Asian, and multirace householders are non-Hispanic. Hispanic householders may be of any race. Tabulations use JCHS-adjusted weights. For more information about the re-weighting methodology, see [www.jchs.harvard.edu/research/improving-americas-housing](http://www.jchs.harvard.edu/research/improving-americas-housing).

Source: JCHS tabulations of HUD, American Housing Survey.

Table A-4

## Professional and Do-It-Yourself Improvement Expenditures by Homeowner Characteristics: 2013

	Number of Homeowners (000s)	Professional			Do-It-Yourself		
		Homeowners Reporting Projects (000s)	Average Expenditure (\$)	Total Expenditures (Millions of \$)	Homeowners Reporting Projects (000s)	Average Expenditure (\$)	Total Expenditures (Millions of \$)
<b>Income</b>							
Under \$40,000	24,095	4,356	6,346	27,642	2,494	2,291	5,714
\$40,000–79,999	22,360	4,594	7,683	35,294	3,119	3,001	9,360
\$80,000–119,999	13,811	3,205	10,020	32,115	2,095	3,874	8,117
\$120,000 and Over	14,312	4,008	15,599	62,519	1,957	5,028	9,360
<b>Home Value</b>							
Under \$100,000	19,627	3,375	5,338	18,017	2,602	2,414	6,280
\$100,000–149,999	12,894	2,742	6,448	17,684	1,846	2,772	5,118
\$150,000–199,999	11,358	2,556	7,771	19,859	1,629	2,881	4,693
\$200,000–249,999	7,621	1,777	8,170	14,521	1,018	3,884	3,954
\$250,000–399,999	13,231	3,063	12,437	38,096	1,625	4,203	6,830
\$400,000 and Over	10,944	2,805	17,942	50,330	1,063	6,214	6,603
<b>Age of Householder</b>							
Under 35	8,907	1,658	6,998	11,604	1,518	3,867	5,868
35–44	12,161	2,526	11,361	28,696	1,882	4,010	7,547
45–54	16,327	3,541	11,080	39,233	2,462	3,546	8,730
55–64	16,635	3,773	10,335	38,999	2,122	3,036	6,442
65 and Over	21,646	4,820	8,293	39,974	1,800	2,718	4,891
<b>Generation</b>							
Millennial (Born 1985–2004)	2,877	492	6,390	3,145	457	3,852	1,760
Trailing Gen-X (Born 1975–84)	10,237	2,036	9,085	18,492	1,752	4,120	7,217
Leading Gen-X (Born 1965–74)	13,852	2,910	11,200	32,588	2,148	3,529	7,579
Trailing Baby Boom (Born 1955–64)	17,298	3,813	11,125	42,421	2,450	3,562	8,727
Leading Baby Boom (Born 1945–54)	15,446	3,603	9,810	35,342	1,759	2,998	5,272
Pre-Baby Boom (Born before 1945)	15,965	3,466	7,652	26,517	1,218	2,400	2,105
<b>Race/Ethnicity</b>							
White	58,826	12,892	10,170	131,105	7,782	3,449	26,843
Black	6,355	1,457	6,482	9,444	631	2,797	1,763
Hispanic	6,738	1,182	9,026	10,668	982	3,293	3,235
Asian	2,593	534	9,935	5,304	220	4,888	1,075
Multirace	1,163	254	7,810	1,985	168	3,345	562
<b>Spending Level</b>							
Under \$2,500	9,309	5,360	869	4,658	4,939	635	3,138
\$2,500–4,999	3,345	2,734	3,215	8,791	1,339	2,274	3,044
\$5,000–9,999	3,979	3,481	6,280	21,857	1,525	3,581	5,462
\$10,000–19,999	2,853	2,633	12,058	31,751	1,166	5,889	6,867
\$20,000–34,999	1,240	1,151	23,539	27,089	441	11,692	5,159
\$35,000–49,999	445	416	36,511	15,192	159	19,371	3,079
\$50,000 and Over	565	544	90,397	49,168	214	31,441	6,729
No Projects	53,940						
<b>Total</b>	<b>75,676</b>	<b>16,319</b>	<b>9,713</b>	<b>158,506</b>	<b>9,783</b>	<b>3,422</b>	<b>33,478</b>

Notes: Income data exclude households that did not respond to the question. White, black, Asian, and multirace householders are non-Hispanic. Hispanic householders may be of any race. Tabulations use JCHS-adjusted weights. For more information about the re-weighting methodology, see [www.jchs.harvard.edu/research/improving-americas-housing](http://www.jchs.harvard.edu/research/improving-americas-housing).

Source: JCHS tabulations of HUD, American Housing Survey.

Table A-5

## Metropolitan Trends in Home Improvement and Repair Spending: 2013

Metropolitan Area	Owner-Occupied Homes								Garden-Style Rental Apartment Properties	
	Share of Homeowners Reporting Projects (Percent)	Share of Spending on Improvements Costing \$50,000 or More (Percent)	Average Annual Per-Owner Improvement Spending (\$)						Average Annual Capital Expenditures per Unit (\$)	Average Annual Repair and Maintenance Expenditures per Unit (\$)
			Total	Professional	Do-It-Yourself	Discretionary	Replacements	Energy-Sensitive		
Atlanta, GA*	31	24	3,050	2,660	390	1,050	1,380	1,100	800	460
Austin, TX	32	38	3,480	2,970	510	1,420	1,250	980	1,060	440
Baltimore, MD	31	28	3,420	2,940	490	1,250	1,530	1,160	850	560
Birmingham, AL*	28	22	2,410	2,110	310	730	1,040	850	480	400
Boston, MA	30	50	4,890	4,350	540	2,160	2,030	1,320	930	660
Buffalo, NY*	35	19	3,240	2,620	620	1,170	1,630	1,340	-	-
Charlotte, NC*	33	18	3,110	2,720	390	950	1,500	1,220	910	390
Chicago, IL	27	26	2,520	2,160	360	980	1,100	910	910	530
Cincinnati, OH*	33	16	2,670	2,100	570	940	1,210	960	900	420
Cleveland, OH*	32	15	2,660	2,160	490	1,060	1,090	920	-	-
Columbus, OH*	32	34	3,120	2,620	500	1,460	1,170	940	1,110	400
Dallas, TX*	33	23	2,960	2,540	420	950	1,290	1,050	1,020	470
Denver, CO*	35	24	4,000	3,320	680	1,430	1,590	1,250	1,210	380
Detroit, MI	27	16	1,920	1,570	350	690	870	720	1,060	410
Hartford, CT	29	30	3,260	2,790	470	1,320	1,340	1,070	-	-
Houston, TX	27	26	2,310	1,800	510	950	880	630	780	420
Indianapolis, IN*	34	17	2,870	2,290	570	1,090	1,220	990	1,020	440
Jacksonville, FL	22	14	1,840	1,450	380	610	840	680	980	450
Kansas City, MO*	34	15	3,160	2,760	410	1,020	1,390	1,190	840	440
Las Vegas, NV	27	23	1,700	1,330	370	650	640	400	640	400
Los Angeles, CA*	27	37	3,140	2,620	520	1,700	960	630	1,270	500
Louisville, KY	35	21	3,460	2,870	590	1,060	1,540	1,310	-	-
Memphis, TN*	33	18	2,340	2,100	250	740	930	730	660	490
Miami, FL	23	27	2,010	1,660	340	820	870	700	-	-
Milwaukee, WI*	35	20	3,370	2,850	530	1,160	1,640	1,390	-	-
Minneapolis, MN	32	28	3,530	2,930	600	1,420	1,440	1,180	1,520	680
Nashville, TN	31	19	2,990	2,570	430	880	1,460	1,230	870	430
New Orleans, LA*	24	26	2,220	1,830	390	810	910	680	-	-
New York, NY	25	44	3,670	3,110	560	1,180	1,130	920	-	-
Oklahoma City, OK	34	27	3,970	3,470	490	810	1,730	1,490	-	-
Orlando, FL	22	24	1,770	1,420	350	650	770	620	800	460
Philadelphia, PA	32	26	3,210	2,810	410	1,290	1,300	990	960	640
Phoenix, AZ*	35	32	3,840	3,380	460	1,190	1,410	1,130	960	370
Pittsburgh, PA*	34	14	2,750	2,250	500	1,040	1,120	870	-	-
Portland, OR*	33	25	3,130	2,550	580	1,360	1,170	850	1,070	270
Providence, RI*	32	42	4,020	3,310	710	1,480	1,930	1,600	-	-
Richmond, VA	27	25	2,420	2,030	390	850	1,010	800	840	400
Riverside, CA*	28	34	2,630	2,140	490	1,170	790	550	790	540
Rochester, NY	34	21	2,770	2,190	580	1,160	1,200	910	-	-
Sacramento, CA*	31	16	2,760	2,260	510	1,050	1,030	800	500	800
St. Louis, MO*	31	13	2,380	1,910	470	780	1,000	800	660	320
San Antonio, TX	30	18	2,130	1,700	430	700	970	750	550	400
San Diego, CA*	28	32	3,390	2,950	450	1,770	1,010	720	970	430
San Francisco, CA*	29	39	3,760	3,200	560	1,970	1,200	840	1,450	430
San Jose, CA*	27	42	3,890	3,470	430	1,900	1,360	980	-	-
Seattle, WA	32	35	3,390	2,700	690	1,540	1,240	990	1,020	330
Tampa, FL	28	26	2,440	2,060	390	920	1,070	900	1,170	510
Tucson, AZ	32	21	2,420	1,990	430	950	1,080	760	820	310
Virginia Beach, VA*	33	34	3,180	2,750	440	1,240	1,370	1,120	650	300
Washington, DC	32	45	4,960	4,530	440	2,110	1,910	1,430	1,260	680
<b>50 Metro Average</b>	<b>30</b>	<b>26</b>	<b>3,010</b>	<b>2,540</b>	<b>470</b>	<b>1,150</b>	<b>1,230</b>	<b>970</b>	<b>930</b>	<b>460</b>
<b>United States</b>	<b>29</b>	<b>29</b>	<b>2,540</b>	<b>2,090</b>	<b>440</b>	<b>1,000</b>	<b>980</b>	<b>760</b>	<b>880</b>	<b>440</b>

Notes: Homeowner improvement spending for the 50 metro areas is pooled from the 2011 and 2013 American Housing Surveys. Spending levels in 2011 for 26 metros (indicated by asterisk) are adjusted by the CPI-U for All Items, as well as by the national change in average spending from 2011 to 2013. See Table A-1 for definitions of discretionary and replacement projects. Energy-sensitive projects include roofing, siding, windows/doors, insulation, and HVAC.

Survey data from the National Apartment Association cover rental apartment properties with 50 or more units under professional management with stabilized operations. Average annual apartment expenditures were calculated over 2012–13 for metro areas with a minimum of 2,000 apartment units and 10 properties sampled. See NAA survey for definitions of capital expenditures and repairs and maintenance.

Sources: JCHS tabulations of HUD, American Housing Surveys; National Apartment Association, Surveys of Operating Income and Expenses.