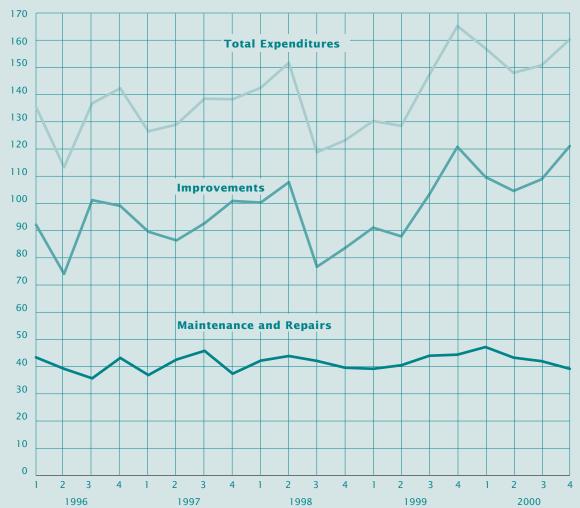
Expenditures for Residential Improvements and Repairs

4th Quarter 2000

C50/00-Q4

Quarterly Expenditures for Residential Improvements and Repairs

Seasonally adjusted annual rate in billions of dollars



Current Construction Reports

 $Source: \ U.S. \ Census \ Bureau, \ Expenditures \ for \ Residential \ Improvements \ and \ Repairs.$

Questions regarding these data may be directed to **Joe Huesman**, Manufacturing and Construction Division. Telephone: 301-457-4822.

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INTRODUCTION

This report provides estimates of expenditures by property owners for construction improvements (additions, alterations, and major replacements) and maintenance and repairs to residential properties.

Table 1 presents quarterly expenditures for all properties at a seasonally adjusted annual rate in current dollars for 1992 to 2000. Table 2 shows actual (not seasonally adjusted) quarterly estimates separately by type of property (all owner-occupied, owner-occupied one-unit, and rental) for 1997 to 2000. Tables 3, 4, and 5 present actual quarterly expenditures for owner-occupied one-unit properties by region (Table 3), year structure was built (Table 4), and for payment to contractors or for materials purchased (Table 5) for 1999 and 2000. Please note that all dollar values shown in this report are in current dollars.

Data for this report were collected by direct interview and by mail from a sample of owners of residential properties. General information about the survey

including definitions, survey methodology, and reliability of the data appears in Appendixes A and B. Appendix C includes a description of the adjustments for seasonal variation.

SUMMARY

Expenditures made by residential property owners for construction improvements and repairs during the fourth-quarter 2000 were estimated at a seasonally adjusted annual rate of \$160.3 billion. Spending on improvements was at a seasonally adjusted rate of \$121.1 billion during the fourth quarter and expenditures for repairs amounted to \$39.2 billion.

Actual expenditures for improvements and repairs to all properties amounted to an estimated \$40.2 billion during the fourth-quarter 2000. Of this amount, owners of all owner-occupied properties spent \$27.8 billion and owners of rental, vacant, and seasonal properties spent \$12.4 billion.

Table 1. Expenditures for Residential Properties: Quarterly 1992 to 2000

Seasonally Adjusted Annual Rate

[Millions of dollars. Components may not add to totals because of rounding]

			Improvements					
Year and quarter	Total expenditures	Maintenance and repairs	Total	Additions and alterations	Major replacements			
1992								
1st quarter	107,700 128,200 106,000 120,000	47,800 60,200 47,600 47,400	59,900 68,000 58,400 72,600	41,100 43,900 40,700 50,700	18,800 24,200 17,700 21,900			
1993								
1st quarter	120,000 118,700 120,700 129,500	49,300 43,400 44,000 47,000	70,700 75,300 76,700 82,500	48,200 46,700 57,500 61,300	22,500 28,600 19,200 21,200			
1994								
1st quarter	126,300 138,700 123,300 130,400	45,100 49,600 43,800 49,800	81,300 89,100 79,500 80,600	61,100 65,300 51,800 49,000	20,100 23,900 27,700 31,600			
1995								
1st quarter	131,200 133,200 127,900 107,200	49,100 48,700 48,800 41,600	82,100 84,500 79,100 65,600	55,300 56,200 48,300 44,300	26,800 28,300 30,900 21,200			
1996								
1st quarter	135,500 113,300 136,800 142,300	43,400 39,200 35,700 43,200	92,200 74,100 101,200 99,100	60,900 52,400 70,400 75,100	31,200 21,700 30,700 24,100			
1997								
1st quarter	126,500 129,000 138,500 138,300	36,900 42,600 45,800 37,400	89,600 86,400 92,700 100,900	62,500 62,000 66,000 70,300	27,200 24,400 26,700 30,600			
1998								
1st quarter	142,500 151,700 118,800 123,200	42,200 43,900 42,100 39,600	100,300 107,800 76,700 83,600	72,300 77,400 49,700 53,500	28,000 30,300 27,000 30,100			
1999								
1st quarter	130,300 128,500 147,300 165,200	39,200 40,500 44,000 44,400	91,100 87,900 103,300 120,800	60,300 59,400 80,200 86,900	30,700 28,600 23,000 33,900			
2000								
1st quarter	157,000 148,000 150,800 160,300	47,200 43,300 42,000 39,200	109,700 104,600 108,900 121,100	74,500 67,800 83,800 84,800	35,200 36,800 25,100 36,300			

Table 2. Expenditures for Residential Properties by Property Type: Quarterly 1997 to 2000

Not Seasonally Adjusted

[Millions of dollars. Components may not add to totals because of rounding]

					Impro	vements		
					Additions a	nd alterations	;	
Property type, year, and quarter	Total expendi-	Mainte- nance and			To stru	uctures	To prop- erty out- side of	Major replace-
	tures	repairs	Total	Total	Additions	Alterations	structures	ments
ALL PROPERTIES								
Annual								
1997	133,577	41,145	92,432	65,222	14,575	37,126	13,523	27,210
1998	133,693	41,980	91,712	62,971	11,897	38,787	12,287	28,741
1999	142,900 152,975	42,352 42,236	100,549 110,739	72,056 77,979	16,164 18,189	42,058 40,384	13,833 19,407	28,493 32,760
Relative standard error of annual estimates (percent)	4	4	5	7	11	10	9	7
Quarterly								
1997: 1st quarter	23,218	6,627	16,592	12,045	2,063	8,654	1,328	4,547
2nd quarter	35,246	11,378	23,868	17,903	5,084	7,882	4,938	5,964
3rd quarter	40,361	13,297	27,064	18,346	4,890	9,438	4,018	8,718
4th quarter	34,752	9,843	24,909	16,928	2,538	11,152	3,238	7,981
1998: 1st quarter	26,163	7,462	18,701	13,914	2,392	9,225	2,296	4,787
2nd quarter	41,397	11,773	29,623	22,329	4,480	14,461	3,389	7,294
3rd quarter	35,066	12,353	22,713	13,848	2,078	7,209	4,560	8,865
4th quarter	31,067	10,392	20,675	12,880	2,947	7,892	2,042	7,794
1999: 1st quarter	23,780	6,848	16,932	11,591	1,622	8,081	1,887	5,341
2nd quarter	34,798 42,934	10,896 12,990	23,902 29,944	17,081 22,400	3,961 5,813	9,558 11,420	3,562 5,167	6,821 7,544
4th quarter	41,388	11,618	29,770	20,984	4,768	12,998	3,217	8,786
2000: 1st quarter	29,055	8,530	20,525	14,160	3,639	7156	3,366	6,365
2nd quarter	39,693	11,543	28,150	19,219	4,612	10,369	4,238	8,931
3rd quarter	44,027	12,243	31,784	23,827	5,523	12,881	5,423	7,957
4th quarter	40,199	9,919	30,280	20,773	4,416	9,978	6,379	9,507
Relative standard error of current quarter estimates(percent)	7	8	9	11	23	16	17	13
ALL OWNER-OCCUPIED PROPERTIES								
Annual								
1997	93,962	27,328	66,634	48,428	12,057	26,566	9,805	18,206
1998	99,400	27,040	72,360	50,096	10,175	29,868	10,053	22,264
1999	99,281	24,250	75,031	55,802	10,773	33,678	11,351	19,229
2000	104,584	23,493	81,091	59,251	14,782	29,559	14,910	21,839
Relative standard error of annual estimates (percent)	6	6	8	10	17	12	13	7
Quarterly	10.570	0.050	10.710	0.504	0.007	0.500	4 005	0.405
1997: 1st quarter	16,570 25,194	3,852 7,590	12,719 17,604	9,584 13,092	2,027 3,779	6,522 5,420	1,035 3,893	3,135 4,511
3rd quarter	29,493	9,708	19,785	13,492	4,462	6,696	2,333	6,293
4th quarter	22,705	6,178	16,527	12,260	1,789	7,928	2,543	4,267
1998: 1st quarter	18,324	4,606	13,718	10,680	2,200	6,426	2,054	3,038
2nd quarter	31,241	7,646	23,595	17,843	3,797	11,386	2,660	5,752
3rd quarter	26,716	8,437	18,279	11,252	1,661	5,756	3,834	7,027
4th quarter	23,119	6,351	16,768	10,321	2,517	6,300	1,505	6,446
1999: 1st quarter	17,363	4,478	12,884	8,982	1,177	6,234	1,570	3,902
2nd quarter	26,251	6,790	19,461	14,064	2,586	8,204	3,274	5,397
3rd quarter	28,565	7,059	21,506	16,798	3,635	9,050	4,113	4,708
4th quarter	27,102	5,923	21,179	15,958	3,375	10,189	2,394	5,221
2000: 1st quarter	19,622	5,106	14,515	11,098	3,183	5,278	2,638	3,417
2nd quarter	27,216 29,955	5,645 7,516	21,571 22,439	14,830 17,011	4,149 4,167	7,064 9,015	3,617 3,829	6,740 5,428
4th quarter	27,791	5,225	22,565	16,312	3,283	8,203	4,826	6,254
·			·					
Relative standard error of current quarter estimates(percent)	8	10	11	13	26	18	20	13 .

See footnotes at end of table.

Table 2. Expenditures for Residential Properties by Property Type: Quarterly 1997 to 2000—Con.

Not Seasonally Adjusted

[Millions of dollars. Components may not add to totals because of rounding]

					Impro	vements		
					Additions a	nd alterations	;	
Property type, year, and quarter	Total expendi-	Mainte- nance and			To stru	ıctures	To prop- erty out- side of	Major
	tures	repairs	Total	Total	Additions	Alterations	structures	replace- ments
OWNER-OCCUPIED ONE-UNIT PROPERTIES								
Annual								
1997	90,677	26,210	64,467	46,659	11,467	25,517	9,674	17,808
1998	96,159 95,778	26,110 23,137	70,049 72,641	48,515 54,441	10,154 10,738	28,427 32,489	9,934 11,214	21,535 18,200
2000	100,161	22,411	77,750	57,410	14,597	28,224	14,589	20,340
Relative standard error of annual estimates (percent)	6	6	8	10	17	16	13	7
Quarterly								
1997: 1st quarter	15,881	3,640	12,241	9,163	2,027	6,136	1,000	3,078
2nd quarter	24,269 28,559	7,263 9,448	17,007 19,111	12,514 12,927	3,612 4,040	5,032 6,597	3,870 2,289	4,493 6,185
4th quarter	21,967	5,859	16,108	12,054	1,789	7,752	2,514	4,053
1998: 1st quarter	17,875	4,437	13,438	10,525	2,200	6,298	2,027	2,913
2nd quarter	30,153	7,444	22,710	17,052	3,797	10,640	2,616	5,657
3rd quarter	25,949 22,182	8,196 6,034	17,753 16,149	10,980 9,957	1,661 2,495	5,487 6,002	3,832 1,460	6,773 6,192
1999: 1st quarter	16,607	4,272	12,334	8,601	1,157	5,873	1,570	3,734
2nd quarter	25,127	6,518	18,608	13,637	2,586	7,900	3,151	4,972
3rd quarter	27,554	6,610	20,945	16,523	3,628	8,795	4,100	4,421
4th quarter	26,491	5,737	20,753	15,680	3,367	9,921	2,392	5,073
2000: 1st quarter	18,329 26,160	4,917 5,378	13,412 20,782	10,296 14,288	3,051 4,140	4,821 6,601	2,425 3,546	3,116 6,494
3rd quarter	28,975	7,131	21,844	16,663	4,155	8,696	3,811	5,181
4th quarter	26,697	4,985	21,712	16,162	3,251	8,105	4,806	5,549
Relative standard error of current quarter estimates(percent)	9	11	11	13	26	18	20	14
RENTAL PROPERTIES ¹								
Annual								
1997	39,615 34,293	13,817 14,940	25,798 19,352	16,794 12,875	2,518 1,722	10,560 8,919	3,718 2,234	9,004 6,477
1999	43,619	18,102	25,518	16,254	5,391	8,380	2,482	9,264
2000	48,391	18,742	29,649	18,728	3,407	10,825	4,497	10,921
Relative standard error of annual estimates $\dots\dots\dots$.(percent).	7	7	11	13	30	17	25	18
Quarterly								
1997: 1st quarter	6,648	2,775	3,873	2,461	*36	*2,132	*293	1,412
2nd quarter	10,052 10,868	3,788 3,589	6,264 7,279	4,811 4,854	*1,305 *428	*2,462 *2,742	*1,045 *1,685	1,453 2,425
4th quarter	12,047	3,665	8,382	4,668	*749	*3,224	*695	3,714
1998: 1st quarter	7,839	2,856	4,983	3,234	*192	*2,799	*242	1,749
2nd quarter	10,156	4,127	6,028	4,486	*683	*3,075	*729	1,542
3rd quarter	8,350 7,948	3,916 4,041	4,434 3,907	2,596 2,559	*417 *430	*1,453 *1,592	*726 *537	1,838 1,348
1999: 1st quarter	6,417	2,370	4,048	2,609	*445	*1,847	*317	1,439
2nd quarter	8,547	4,106	4,441	3,017	*1,375	*1,354	*288	1,424
3rd quarter	14,369	5,931	8,438	5,602	*2,178	*2,370	*1,054	2,836
4th quarter	14,286	5,695	8,591	5,026	*1,393	*2,809	*823	3,565
2000: 1st quarter	9,434 12,477	3,424 5,898	6,010 6,579	3,062 4,389	*456 *462	*1,878 *3,305	*728 *621	2,948 2,190
2nd quarter	14,072	4,727	9,345	6,816	*1,356	*3,866	*1,594	2,190
4th quarter	12,409	4,694	7,715	4,461	*1,132	*1,775	*1,554	3,254
Relative standard error of current quarter estimates(percent)	15	13	21	22	42	34	35	31
	<u> </u>			l	l .			

^{*}These estimates are subject to high sampling errors. Caution should be used in estimating quarterly differences. 'Revised.

¹Includes rental, vacant, and seasonal properties.

Note: Quarterly relative standard errors are derived from an average of the most recent 4 quarters. Annual standard errors are derived from an average of the most recent 3 years.

Table 3. Expenditures for Owner-Occupied One-Unit Properties by Region: Quarterly 1999 to 2000

Not Seasonally Adjusted

[Millions of dollars. Components may not add to totals because of rounding]

Versional residen			Re	gion	
Year and quarter	United States	Northeast	Midwest	South	West
TOTAL EXPENDITURES					
1999: Total 1st quarter 2nd quarter 3rd quarter 4th quarter	95,778 16,607 25,127 27,554 26,491	17,725 2,711 4,611 5,619 4,784	23,696 3,966 6,630 6,707 6,393	24,755 4,789 7,006 6,483 6,477	29,600 5,139 6,879 8,745 8,837
2000: Total	100,161 18,329 26,160 28,975 26,697	19,561 2,568 6,240 5,937 4,816	27,461 4,299 7,213 8,573 7,376	29,873 6,469 7,094 9,053 7,257	23,265 4,993 5,612 5,412 7,247
Relative standard error estimates (percent): Annual	6 9	13 19	9 14	9 15	16 25
MAINTENANCE AND REPAIRS					
1999: Total 1st quarter 2nd quarter 3rd quarter 4th quarter	23,137 4,272 6,518 6,610 5,737	3,788 808 897 1,149 934	5,286 850 1,722 1,614 1,100	5,987 938 1,860 1,414 1,775	8,073 1,673 2,039 2,432 1,929
2000: Total 1st quarter 2nd quarter 3rd quarter 4th quarter	22,411 4,917 5,378 7,131 4,985	4,897 772 1,247 1,996 883	5,554 1,610 1,173 1,604 1,167	6,893 1,447 1,575 1,929 1,942	5,066 1,088 1,383 1,602 993
Relative standard error estimates (percent): Annual	6 10	10 17	12 18	10 23	12 20
TOTAL IMPROVEMENTS					
1999: Total 1st quarter 2nd quarter 3rd quarter 4th quarter	72,641 12,334 18,608 20,945 20,753	13,935 1,902 3,713 4,470 3,850	18,410 3,115 4,908 5,093 5,294	18,767 3,850 5,146 5,069 4,702	21,526 3,465 4,841 6,312 6,908
2000: Total 1st quarter 2nd quarter 3rd quarter 4th quarter	77,750 13,412 20,782 21,844 21,712	14,664 1,796 4,994 3,941 3,934	21,908 2,689 6,041 6,969 6,209	22,979 5,022 5,519 7,123 5,315	18,199 3,096 4,229 3,810 6,254
Relative standard error estimates (percent): Annual	8 11	16 23	11 16	10 17	20 28

Note: Quarterly relative standard errors are derived from an average of the most recent 4 quarters. Annual standard errors are derived from an average of the most recent 3 years.

Table 4. Expenditures for Owner-Occupied One-Unit Properties by Year Built: Quarterly 1999 to 2000

Not Seasonally Adjusted

[Millions of dollars. Components may not add to totals because of rounding]

				Year	r built		
Year and quarter	All	1990 to	1980 to	1970 to	1960 to	Before	Not
	years	2000	1989	1979	1969	1960	reported
TOTAL EXPENDITURES							
1999: Total 1st quarter 2nd quarter 3rd quarter 4th quarter	95,778 16,607 25,127 27,554 26,491	11,376 1,809 2,787 2,943 3,837	12,778 1,911 4,706 3,577 2,584	12,731 2,359 3,295 4,058 3,019	10,290 1,820 2,390 3,304 2,776	36,754 7,257 9,929 9,592 9,976	11,848 1,450 2,019 4,080 4,299
2000: Total	100,161 18,329 26,160 28,975 26,697	16,998 3,009 3,325 4,322 6,341	15,719 3,425 4,822 4,698 2,774	14,315 3,076 4,551 4,110 2,578	13,557 1,862 3,584 4,262 3,850	30,491 5,455 8,302 9,135 7,599	9,120 1,501 1,575 2,449 3,595
Relative standard error estimates (percent): Annual	6 9	14 23	12 21	11 19	13 21	11 17	23 25
MAINTENANCE AND REPAIRS							
1999: Total	23,137 4,272 6,518 6,610 5,737	2,284 565 496 581 642	3,391 661 1,000 879 851	3,293 628 609 1,412 644	2,464 433 717 611 703	9,756 1,752 2,726 2,861 2,417	1,948 234 970 265 479
2000: Total	22,411 4,917 5,378 7,131 4,985	3,176 706 557 899 1,014	3,612 900 947 1,126 639	3,160 477 1,085 1,233 365	2,066 288 616 660 502	8,074 1,729 1,813 2,593 1,939	2,322 817 359 620 526
Relative standard error estimates (percent): Annual	6 10	14 28	14 29	13 25	14 23	11 16	21 37
TOTAL IMPROVEMENTS							
1999: Total	72,641 12,334 18,608 20,945 20,753	9,092 1,244 2,291 2,362 3,195	9,387 1,250 3,706 2,698 1,733	9,439 1,732 2,686 2,646 2,375	7,827 1,387 1,674 2,693 2,073	26,998 5,506 7,203 6,731 7,558	9,899 1,216 1,048 3,815 3,820
2000: Total	77,750 13,412 20,782 21,844 21,712	13,822 2,304 2,768 3,423 5,327	12,107 2,525 3,875 3,572 2,134	11,155 2,599 3,466 2,877 2,213	11,491 1,574 2,967 3,602 3,348	22,377 3,726 6,489 6,542 5,620	6,798 684 1,216 1,829 3,069
Relative standard error estimates (percent): Annual	8 11	16 26	16 27	14 23	15 24	12 20	28 26

Note: Quarterly relative standard errors are derived from an average of the most recent 4 quarters. Annual standard errors are derived from an average of the most recent 3 years.

Table 5. Expenditures for Owner-Occupied One-Unit Properties by Payments to Contractors or Materials Purchased by Owner: Quarterly 1999 to 2000

Not Seasonally Adjusted

[Millions of dollars. Components may not add to totals because of rounding]

		Total payments to		ents for building murchased by owne	
Year and quarter	All payments	contractors or hired labor ¹	Total	For jobs done by owner ²	For jobs done under contract
TOTAL EXPENDITURES					
1999: Total	95,778 16,607 25,127 27,554 26,491	79,941 13,119 20,427 23,192 23,203	15,838 3,489 4,699 4,362 3,288	12,539 3,026 3,519 3,526 2,468	3,299 463 1,180 836 820
2000: Total 1st quarter 2nd quarter 3rd quarter 4th quarter	100,161 18,329 26,160 28,975 26,697	84,778 15,043 22,289 24,379 23,067	15,382 3,286 3,870 4,596 3,630	11,682 2,731 2,868 3,159 2,924	3,700 555 1,002 1,437 706
Relative standard error estimates (percent): Annual Quarter	6 10	7 11	7 12	8 13	15 28
MAINTENANCE AND REPAIRS					
1999: Total 1st quarter 2nd quarter 3rd quarter 4th quarter	23,137 4,272 6,518 6,610 5,737	19,269 3,180 5,635 5,584 4,870	3,868 1,091 883 1,027 867	3,161 1,015 699 798 649	707 76 184 229 218
2000: Total 1st quarter 2nd quarter 3rd quarter 4th quarter	22,411 4,917 5,378 7,131 4,985	18,260 3,962 4,154 6,059 4,085	4,151 955 1,223 1,073 900	3,384 799 1,065 794 726	767 155 158 279 175
Relative standard error estimates (percent): Annual Quarter	6 11	7 14	10 15	11 16	18 30
TOTAL IMPROVEMENTS					
1999: Total 1st quarter 2nd quarter 3rd quarter 4th quarter	72,641 12,334 18,608 20,945 20,753	60,673 9,938 14,792 17,609 18,334	11,969 2,397 3,817 3,336 2,419	9,377 2,010 2,821 2,728 1,818	2,592 387 996 608 601
2000: Total 1st quarter 2nd quarter 3rd quarter 4th quarter	77,750 13,412 20,782 21,844 21,712	66,517 11,080 18,135 18,320 18,982	11,232 2,332 2,647 3,523 2,730	8,298 1,932 1,803 2,365 2,198	2,933 400 844 1,158 531
Relative standard error estimates (percent): Annual	8 12	9 12	8 15	9 17	16 33

¹Includes building materials supplied by the contractor or hired labor.

Note: Quarterly relative standard errors are derived from an average of the most recent 4 quarters. Annual standard errors are derived from an average of the most recent 3 years.

²Includes building materials purchased to have on hand.

Appendix A. Explanations

PROPERTIES INCLUDED IN THIS REPORT

This report presents improvement and repair expenditures by property owners for residential properties in the 50 states and the District of Columbia, with the exceptions noted below. These data cover single and multiunit structures, publicly and privately owned structures, nonfarm and farm properties, and residential properties that are occupied by owners or renters or are vacant.

Information on properties classified as primarily nonresidential is excluded, even though such properties may contain some residential space. Residential properties are defined as those having half or more of the enclosed space devoted to nontransient residential use. Also excluded are residential structures on the grounds of institutions, schools, convents, Armed Forces installations, etc.; hotels, motels, tourist cabins, manufactured homes, and boarding houses; and unusual living quarters, such as tents, boats, etc.

Expenditures made by renters are not included in this report. A study of renters' expenditures in 1989 showed that they accounted for less than 1 percent of all expenditures for improvements and repairs.

EXPENDITURES INCLUDED IN THIS REPORT

The expenditures covered in this report are those connected with construction activity intended to maintain or improve the property. The expenditures involve expenses for maintenance and repairs, additions, alterations, and major replacements that are made on the property by the owners. Included are all costs, for both the inside and outside of the house, whether on the main dwelling, on other structures on the property incidental to the residential use of the main dwellings, or for the grounds on which the structures are erected.

As a general principle, expenses connected with items not permanently attached or firmly affixed to some part of the house or property are not included in the report. Thus, expenses connected with the repair or replacement of household appliances, such as stoves, refrigerators, television sets, room air-conditioners, etc., are excluded, as are costs connected with house furnishings such as furniture, rugs, and draperies. While the cost of appliances is excluded, the construction cost of building-in such appliances (e.g., the cost of building-in a wall oven) is included in the scope of this report. Everyday household and housekeeping expenses, such as waxing floors and furniture, cleaning

walls and windows, etc., are not within the scope of this report. Expenditures for grading, draining, fencing, and paving are included, but costs of landscaping (i.e., planting of flowers, trees, shrubs, etc.) are not included in this report.

Kinds of Expenditures

Expenditures included in this report cover work done under contract or by hired labor, materials purchased by owners, and the cost of purchasing or renting tools and equipment for purposes of carrying on jobs that fall within the scope of the report. However, no attempt is made to estimate or include the value of labor in do-it-yourself jobs.

Timing of Expenditures

For one-to-four-housing-unit properties with one unit owner-occupied and owner-occupied condominiums, expenditures are reported in the month of payment for labor and materials regardless of when the work was done.

For one-to-four-housing-unit properties with no unit owner occupied and all properties with five housing units or more, expenditures appear in the quarter in which they are found in the owners' or managers' records.

PROPERTY CHARACTERISTICS

Residential Property

A property consists of the land in one ownership unit, all residential structures on this land, and any facilities attached to the land. It includes the house and additional residential structures on the land, and auxiliary nonresidential structures, such as a garage or a workshop. For the nonresident owners and owners of properties with five housing units or more, property identification is generally determined by bookkeeping practices. Groups of buildings owned by one person or organization can be classified as one or more properties, depending on whether separate expenditure data are kept by the owner.

Housing Unit

In general, a housing unit is a group of rooms or a single room occupied as separate living quarters by a family, a group of unrelated persons living together, or by a person living alone. Vacant living quarters that are intended for occupancy as separate quarters are also housing units. Separate living quarters are defined as

having either (1) direct access from the outside or through a common hall, or (2) a kitchen or cooking equipment for the exclusive use of the occupants.

REGIONS

The standard census geographic regions are used in the tables of this report. States contained in each region are as follows: **Northeast**—Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New York, Pennsylvania, and New Jersey; **Midwest**—Ohio, Indiana, Illinois, Michigan, Wisconsin, Minnesota, Iowa, Missouri, Kansas, Nebraska, North Dakota, and South Dakota; **South**—Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Florida, Alabama, Mississippi, Tennessee, Kentucky, Arkansas, Louisiana, Oklahoma, and Texas; **West**—Montana, Wyoming, Colorado, New Mexico, Arizona, Utah, Idaho, Alaska, Washington, Oregon, Nevada, California, and Hawaii.

TYPES OF EXPENDITURES

Expenditures are classified broadly as either maintenance and repairs or construction improvements. Improvements are further classified as additions to residential structures, alterations within residential structures, additions and alterations on property outside residential structures, and major replacements.

In general, when a maintenance or repair job is undertaken as part of a more extensive alteration or construction improvement, the cost of it is reported with the alteration or improvement of which it is a part. For example, repair of a floor as part of remodeling a room is reported with the alteration.

Maintenance and Repairs

Expenditures represent current costs for incidental maintenance and repairs that keep a property in ordinary working condition, rather than additional investment in the property.

Maintenance includes expenses for painting, papering, floor sanding, furnace cleaning or adjustment, etc. Repairs include many kinds of expenditures for plumbing, heating, electrical work, and other kinds of activity involved in the upkeep of residential properties. Repairs also include replacements of parts and of whole units, except for a select list specified below as major replacement expenditures. For example, roof repairs (including replacement of shingles, gutters, etc.) are classified under maintenance and repairs, but a complete reroofing is classified as a major replacement. Plumbing repairs may include extensive replacement of water pipes, but if the entire piping system is removed and a new one put in, the expenditures for the work are classified as major replacements.

Maintenance and repairs do not include expenses for trash and snow removal, lawn maintenance and land-scaping, or cleaning and janitorial services.

Construction Improvements

Expenditures for construction improvements are capital expenditures that add to the value or useful life of a property. Since the classification is based on the concept of additions, alterations, and major replacements rather than dollar value, some very small expenditures that may not be considered capital investments are included among the improvements, such as installing a new electrical socket or garbage disposal. Construction improvements, as noted above, cover additions to residential structures, alterations within residential structures, additions and alterations on properties outside residential structures, and major replacements.

Additions to residential structures. These refer to the actual enlargement of the structure, either by adding a wing, room, porch, attached garage, shed, or a carport, or by raising the roof, or digging a basement.

Alterations within residential structures. These include changes or improvements made within or on the structure. The changes or improvements range from a complete restructuring, which involves removal of the entire interior of the structure and remodeling it, to the installation of a new electric service outlet, wall switch, or new shelves.

Additions and alterations on property outside residential structures. These include laying or improving walks or driveways; building walls or fences; creating or improving recreational facilities such as swimming pools, tennis courts, barbecue fireplaces; constructing detached garages, sheds, patios, green houses, or the improvement of these by the installation of electricity, drains or new storage facilities. Grading and filling are included, but not landscaping.

Major replacements. The following is a list of relatively expensive items that, when replaced, are considered to be construction improvements as opposed to repairs:

Complete furnace or Plumbing fixtures boiler All water pipes Entire roof Windows Central air-conditioner Septic tank or cesspool All siding Sink or laundry tub Water heater Complete walks or Entire electrical wiring drive ways Doors Garbage disposal unit

In general, the distinction between major replacements and additions and alterations is that major replacements are not innovations. Installation of a bathtub, where there had not been one before, is an alteration, but the substitution of a new bathtub for an old one is a major replacement.

Appendix B. Survey Methods and Reliability of Data

INTRODUCTION

This appendix describes the data sources, sample design, and estimation procedures used to develop quarterly estimates of expenditures for the improvement and repairs to residential properties. This description refers to the revised survey methods effective with fourth-quarter 1984 data. A description of the earlier methods appears in Construction Reports C50-84-A, issued April 1985.

SOURCES OF DATA

The data presented in this report are compiled from two sources:

- Household survey of a sample of consumer units, and
- 2. Mail survey of owners of a sample of rental or vacant properties.

Household Survey

Description of survey. Data based on personal interviews are obtained from household members as part of the Consumer Expenditure (CE) Surveys conducted by the U.S. Census Bureau for the Bureau of Labor Statistics (BLS). The CE surveys are designed to collect data on major items of consumer expense, household characteristics, and income. The expenditures covered by the survey are those that respondents can be expected to recall fairly accurately for 3 months or longer, including expenditures for maintenance and repairs and improvement of properties. Each sample household is interviewed once per quarter for five consecutive quarters.

For the initial interview, information is collected on demographic and family characteristics and on the inventory of major durable goods of each consumer unit. Construction expenditure information is also collected in this interview, using a 1-month recall, and is used solely for bounding purposes: that is, to prevent the reporting of expenditures outside the reference period in subsequent interviews.

The second through fifth interviews use uniform questionnaires to collect expenditures for the previous months and the current month to date. Six months of data collection are required to account for all the expenditures for a quarter.

Households that move from their sample address between interviews are dropped from the survey. New households that move into the sample address are screened for eligibility and included in the survey, if found qualified.

Sample design. The sample for the CE survey is a national probability sample of households designed to be representative of the urban U.S. civilian population. The eligible population is composed of all civilian noninstitutional persons.

The second step in sampling was the selection of primary sampling units (PSUs) that consist of counties (or parts thereof), groups of counties, or independent cities. The set of sample PSUs used for the survey is composed of 105 areas. The PSUs in this part of the design are classified according to the following four categories: "A" PSUs, which comprise 31 self-representing areas, and are large metropolitan statistical areas with nonfarm population greater than 1.2 million, plus the Anchorage and Honolulu MSAs; 46 "B" PSUs defined as nonself-representing metropolitan areas; 10 "C" PSUs defined as urban nonmetropolitan areas; and 18 "D" PSUs defined as rural nonmetropolitan areas. The "B," "C," and "D" PSUs were selected using a controlled selection procedure to ensure a distribution across states and other stratifying characteristics.

The sampling frame (the list from which housing units were chosen) for this survey was generated from the 1990 census 100-percent detail file, augmented by a new construction permits frame, and an area sample frame to represent all areas that do not have good 1990 census addresses, which are in nonpermit areas, or which have permit office problems.

The sample design is a rotating panel survey. Each rotation comprises one-fourth of a sample and is interviewed for five consecutive quarters. In each quarter, the housing units in five rotations are interviewed, but the rotation that is being interviewed for the second time is used solely to bound the data to be collected in the four subsequent quarters. Allowing for the bounding interviews and for nonresponse (including vacancies), the number of interviews per quarter is targeted at 5,000.

Estimation and data adjustment procedures. Estimates of expenditures for improvements and repairs are tabulated from responses to the CE questionnaire (CE- 302), Section 5, "Construction Repairs, Alterations,

and Maintenance of Property," and Section 7, "Household Equipment Repairs, Service Contracts and Furniture Repair and Reupholstering" by owner occupants of one- to four-unit properties and condominiums. Each sample household included in the survey represents a given number of households in the United States. The sum of the weighted sample households is the estimate of total households in the United States or the universe. The translation of sample households into the universe of households is known as weighting.

There are five basic steps in determining the weight for each interviewed household:

- The basic weight assigned to a household is the PSU weight multiplied by the within PSU sampling interval. The PSU weight is the inverse of the PSU's probability of selection.
- 2. A subsampling factor adjusts for sampling that is done in the field.
- 3. A new permit factor is an adjustment made to the new permit sample that is introduced in that month for the other panels.
- 4. A noninterview adjustment factor adjusts for interviews that could not be collected from occupied housing units because of refusals or because no one was home. The adjustment is performed as a function of region, tenure, family size, and race.
- 5. A second stage adjustment factor adjusts the sample estimates of the population to independently derive census population estimates.

Mail Survey

Description of the survey. Nonresident owners of rental or vacant properties with one to four housing units and owners of rental or vacant properties containing five housing units or more, as identified in the CE household survey, are mailed a questionnaire to report detailed maintenance and repairs and improvement expenditures for their entire property. Approximately 3,000 owners are queried each quarter.

All mail questionnaires, including those from the initial mailing, are used in the tabulation of data for this report. This is based on an assumption that owners of rental properties keep detailed records of their expenditures for improvements and repairs and that the reports would be based on such records rather than on memory alone.

Sample design. The mail survey consists of owners of the properties identified in the household survey as being one to four unit properties with no resident owner and all properties (excluding owner occupied

condominiums) with five housing units or more. The probability of selection of a property is proportional to the number of housing units in the property.

Estimation and data adjustment procedures. The data collected on form SORAR-705 are adjusted for unreturned or unusable forms by region and MSA status. The weights are adjusted so that sample counts of renter occupied and vacant housing units agree with independently derived controls from the Current Population Survey.

RELIABILITY OF DATA

The statistics in this report are based on sample surveys and may differ from statistics that would have been obtained from a complete census using the same forms and procedures. An estimate based on a sample survey is subject to both sampling error and nonsampling error. The accuracy of a survey result is determined by the joint effect of these errors.

Measures of sampling errors. Sampling error reflects the fact that only a particular sample was surveyed rather than the entire population. The sample selected for the CE survey is one of a large number of similar probability samples that, by chance, might have been selected under the same specifications. Estimates derived from the different samples would differ from each other. The standard error, or sampling error, of a survey estimate is a measure of the variation among the estimates from all possible samples and, thus, is a measure of the precision with which an estimate from a particular sample approximates the average from all possible samples.

Estimates of standard errors have been computed from the sample data for statistics in this report. They are presented in the tables in the form of relative standard errors. The relative standard error equals the standard error divided by the estimated value to which it refers.

The sample estimate and an estimate of its standard error allow us to construct interval estimates with prescribed confidence that the interval includes the average result of all possible samples with the same size and design. A 90-percent confidence interval is defined to be from 1.6 standard errors below the estimate to 1.6 standard errors above the estimate. If all possible samples were selected and surveyed under essentially the same conditions and all the respective 90-percent confidence intervals were generated, then approximately 90-percent of the intervals would include the average value of all sample estimates and approximately 10-percent would not include this estimate. For example, this report shows that residential property owners spent \$40.2 billion for improvements and repairs in the fourth-quarter 2000 and that the average relative standard error of this estimate is 7 percent. Multiplying \$40.2 billion by .07, we obtain \$2.8 billion as the standard error. To obtain a 90-percent confidence interval, multiply \$2.8 billion by 1.6, yielding limits of \$35.7 billion and \$44.7 billion (\$40.2 billion plus or minus \$4.5 billion). The average estimate for the specified quarter may or may not be contained in this computed interval, but one can say that the average estimate from all possible samples is included in the constructed interval with a specified confidence of 90 percent.

The sampling errors of some estimates are too great to allow meaningful comparisons among these estimates. The sampling errors should be regarded as orders of magnitude rather than absolute measurements.

Nonsampling errors and other limitations. As calculated for this report, the estimated relative standard errors measure certain nonsampling errors, but do not measure any systematic biases in the data. Bias is the difference, averaged over all possible samples with the same size and design, between the estimates and the true value being estimated. Nonsampling errors can be attributed to many sources: inability to obtain information about all cases in the sample; definitional difficulties; differences in interpretation of questions; inability or unwillingness of respondents to provide correct information; and errors made in processing the data.

These nonsampling errors also occur in complete censuses. Although no direct measurements of the biases have been obtained, it is believed that most of the important response and operational errors were detected in the course of reviewing the data for reasonableness and consistency.

Six potential sources of bias are:

- Nonresponse to the survey as a result of selecting housing units from the permit frame for which addresses are no longer available at the permit office.
- 2. Nonresponse resulting from interview refusal or because no one was home.
- 3. Undercoverage in the sampling frame with respect to demographic and family characteristics of sample consumer units.
- Memory failure, including failure to remember exact values, and the reporting of information for an earlier or later time period than when it actually occurred (telescoping).
- Problems in classifying the types of jobs performed.
- 6. Adjustment for extreme values ("outliers") where an unusually large weighted value or more is contributed by a single job.

Appendix C. Adjustments for Seasonal Variations

ADJUSTMENTS FOR SEASONAL VARIATIONS

Quarterly estimates of expenditures for improvements and repairs are adjusted to eliminate the effect of changes that normally occur about the same time and in about the same magnitude each year. The seasonally adjusted estimates are converted to annual rates by multiplying by 4. Estimates for expenditures at seasonally adjusted annual rates are shown in Table 1.

The factors used for making the adjustment were developed using the X-12-ARIMA, an enhanced version of the X-11 variant of the Census Method II seasonal adjustment program. A description of the X-12-ARIMA program appears in "New Capabilities and Methods of the X-12-ARIMA Seasonal Adjustment Program," by David F. Findley et al. of the U.S. Census Bureau.

Table C. Factors Used to Seasonally Adjust Expenditures for Residential Properties

				Improvements	
Year and quarter	Total expenditures	Maintenance and repairs	Total	Additions and alterations	Major replacements
1995					
1st quarter	73.7 108.5 117.2 101.5	76.5 105.0 113.9 105.5	72.1 110.5 119.2 99.0	77.5 115.7 111.0 96.0	60.8 100.2 131.9 105.4
1996					
1st quarter 2nd quarter 3rd quarter 4th quarter	73.4 109.0 116.6 100.4	74.3 105.9 115.2 105.6	72.9 110.7 117.1 98.2	77.4 115.5 111.2 96.2	64.2 99.2 130.8 104.5
1997					
1st quarter 2nd quarter 3rd quarter 4th quarter	73.4 109.3 116.6 100.5	71.9 106.9 116.3 105.4	74.1 110.5 116.8 98.7	77.1 115.6 111.1 96.4	67.0 97.7 130.6 104.2
1998					
1st quarter	73.4 109.2 118.1 100.9	70.7 107.2 117.4 105.0	74.6 109.9 118.5 98.9	77.0 115.3 111.5 96.3	68.4 96.2 131.3 103.6
1999					
1st quarter 2nd quarter 3rd quarter 4th quarter	73.0 108.3 116.6 100.2	69.8 107.5 118.0 104.6	74.3 108.8 115.9 98.6	76.9 115.1 111.7 96.6	69.5 95.6 131.0 103.7
2000					
1st quarter	74.0 107.3 116.8 110.3	72.3 106.6 116.6 101.2	74.8 107.6 116.7 100.0	76.0 113.4 113.7 98.0	72.3 97.1 126.8 104.8

Supplement. Expenditures by Job Category, Region, and Selected Property and Household Characteristics

INTRODUCTION

This supplement presents detailed annual statistics on expenditures made by property owners for improvements and repairs of residential properties in the United States.

Table S1 shows annual expenditures by specific type of job for owner-occupied and rental housing. Please note that many of the type of job expenditures shown are subject to high sampling errors, and should not be considered as precise estimates.

Comparisons of the data presented in Table S1 with previous years can be made for the major category totals — additions, alterations, outside additions, and alterations, major replacements, and maintenance, and repairs. However, those specific job types within major categories that existed in years prior to 1993 are no longer comparable with data for recent years.

Table S2 presents annual expenditures by region, property type, and size for 1998 to 2000.

Table S3 presents annual expenditures for owner-occupied one-unit properties by selected property and household characteristics (value of property, year householder acquired unit, income of household, and age of householder) for 1998 to 2000.

Data for this report were collected by personal interview and by mail from a sample of owners of residential properties. General information about the survey including definitions, methodology, and reliability of the data appears in Appendixes A and B of this report. Detailed 2000 statistics will be presented in a supplement to the fourth-quarter 2000 report.

ADDITIONAL TYPE OF JOB DEFINITIONS

Please refer to the "Types of Expenditures" section of Appendix A for definitions of major categories. The following are additional definitions for categories specific to Table S1 only:

- 1. "HVAC" includes heating, ventilation, and central air-conditioning systems.
- 2. "Flooring" does not include carpeting.
- 3. "Attached garages" also includes attached carports, greenhouses, sheds, and breezeways.
- 4. "Detached buildings" includes detached garages, carports, sheds, greenhouses, and storm cellars.
- 5. "Rooms" includes any and all rooms in the residence such as kitchens, bathrooms, family rooms, bedrooms, or sunrooms that are added to increase the floor space of an existing building.
- 6. If both the kitchen and bathroom were remodeled and the costs could not be separated, the expenditures are reported in the "Kitchen and bathroom remodeling" category, else they are reported separately under the "Kitchen remodeling" and "Bathroom remodeling" categories.
- 7. "Interior restructuring" includes the creation of a new room or kinds of space within the confines of the original house.
- 8. "Materials to have on hand" includes expenditures for materials and supplies that are to be used in a future home improvement or repair job.

Table S1. Expenditures by Type of Job and Property Type: 1998 to 2000

			Propert	y type			Average relative standard error		
Type of job ¹	Ov	vner-occupied	b		Rental ²		_		
	1998	1999	2000	1998	1999	2000	Owner occupied	Rental ²	
Total	99,400	99,281	104,584	34,293	43,619	48,391	6	8	
Additions	10,175	10,773	14,782	1,722	5,391	3,407	17	33	
Decks and porches	1,704	2,407	2,708	410	1,688	394	20	62	
Attached garages	1,775	544	2,512	53	253	486	31	59	
Rooms	6,697	7,822	9,562	1,258	3,450	2,527	22	29	
Alterations	29,868	33,678	29,559	8,919	8,380	10,825	13	20	
Plumbing	667	1,297	628	853	1,433	1,558	22	22	
HVAC	1,730	2,127	1,784	763	688	952	20	40	
Electrical	487	628	556	729	1,380	856	20	48	
Flooring Kitchen remodeling	3,303 7,720	2,999 4,823	3,789 3,636	1,726 #	899 #	1,214 #	14 30	30 (NA)	
Bathroom remodeling	2,708	2,498	3,744	#	#	#	22	(NA)	
Kitchen and bathroom remodeling	953	180	1,422	1,982	1,165	2,139	56	29	
Finishing space	1,066	1,284	1,956	\$	\$	\$	33	\$	
Interior restructuring	4,428	3,151	2,120	200	196	328	30	51	
Siding	692	1,328	833	\$	\$	\$	39	(NA)	
Windows and doors	486	756	300	417	733	1,394	30	42	
Other alterations	5,629	12,606	8,792	2,250	1,887	2,384	25	25	
Outside additions and alterations	10,053	11,351	14,910	2,234	2,482	4,497	13	28	
Detached buildings	2,843	1,464	3,270	661	89	421	30	53	
Patios and terraces	687	794	1,606	\$	\$	\$	29	(NA)	
Driveways and walkways	1,350	1,292	1,336	\$	\$	\$	27	(NA)	
Fences	1,629	2,079	1,723	183	819	708	15	38	
Other outside additions	0.544		0.075	4 000	4 570		0.4	00	
and alterations	3,544	5,723	6,975	1,390	1,573	3,368	21	36	
Major replacements	22,264	19,229	21,839	6,477	9,264	10,921	8	20	
Plumbing	1,159	1,334	1,793	1,406	1,774	1,242	15	30	
HVAC	4,140	3,120	4,414	936	1,057	1,231	14	28	
Siding	1,599	1,972	1,436	\$	\$	\$	30	(NA)	
Roofing	6,664	5,375	6,365	1,879	2,760	4,878	15	34	
Driveways and walkways	1,170	990	1,272	1 110	\$ 827	\$	28 19	(NA)	
Windows Doors	4,117 1,097	3,291 1,188	3,108 1,507	1,119 116	77	613 178	18	50 36	
Other major replacements	2,318	1,958	1,944	1,022	2,770	2,778	19	26	
Maintenance and repairs	27,040	24,250	23,493	14,940	18,102	18,743	6	8	
Painting and papering	9,094	6,788	7,967	4,459	5,002	5,863	9	9	
Plumbing	2,302	2,548	2,860	1,233	2,219	2,263	11	21	
HVAC	1,897	1,400	1,556	633	1,247	930	13	22	
Electrical	508	524	696	395	600	809	18	25	
Siding	307	1,003	170	824	619	286	42	51	
Roofing	2,361	2,650	2,489	1,396	1,695	2,102	17	31	
Flooring	849	1,520	962	2,094	1,327	1,801	21	24	
Windows and doors	820	537	409	625	588	1,139	23	20	
Materials to have on hand	3,324	362	27	592	569	415	38	32	
Other maintenance and repairs	5,578	6,918	6,357	2,689	4,236	3,134	14	15	

NA Not applicable. # Expenditures included in the "Kitchen and bathroom remodeling" category. \$ Expenditures included in the "Other" category.

¹The expenditures given for each specified type of job consist of those outlays that have been identified as being primarily of the specified type. Thus, expenditures for one type of job done incidental to another type are included under the latter classification. For example, the relatively minor cost of painting done in conjunction with a roofing job is included in the roofing category.

²Includes rental, vacant, and seasonal properties.

Table S2. Expenditures by Region and Property Type: 1998 to 2000

Structural purpose year		Owner-c	occupied	Rental				
Structural purpose, year, and region	All residential properties	1 unit	2 units or more ¹	1 unit	2 to 4 units	5 units or more		
TOTAL EXPENDITURES								
1998								
All regions Northeast. Midwest. South West.	133,693 32,301 33,419 33,841 34,132	96,159 23,902 25,017 25,062 22,178	3,241 964 572 485 1,220	17,109 2,268 3,911 5,155 5,775	5,188 1,935 1,043 803 1,407	11,994 3,232 2,875 2,335 3,552		
1999								
All regions	142,900 31,847 30,416 41,798 38,840	95,778 17,725 23,696 24,755 29,600	3,503 1,212 996 536 759	21,991 5,992 2,647 9,152 4,200	5,616 4,198 393 473 552	16,013 2,720 2,682 6,882 3,729		
2000								
All regions Northeast. Midwest. South West.	152,975 31,233 36,938 50,061 34,743	100,161 19,561 27,461 29,873 23,265	4,423 1,524 1,327 722 850	22,880 3,325 3,229 11,869 4,457	7,352 3,079 1,201 1,690 1,383	18,159 3,744 3,720 5,907 4,788		
Relative standard error of annual								
estimates (percent) Northeast (percent) Midwest (percent) South (percent) West (percent)	4 9 7 8 14	6 14 10 9 15	23 34 44 38 33	13 32 34 26 34	20 29 37 45 40	10 21 13 18 29		
MAINTENANCE AND REPAIRS								
1998								
All regions	41,980 8,941 9,773 11,874 11,392	26,110 5,698 6,459 7,707 6,245	930 321 280 145 183	6,781 279 1,600 2,393 2,509	1,908 833 323 296 456	6,250 1,809 1,110 1,332 1,999		
1999								
All regions	42,352 7,770 8,806 13,778 11,997	23,137 3,788 5,286 5,987 8,073	1,113 508 277 155 172	8,264 1,467 1,639 3,846 1,312	1,535 691 202 301 341	8,303 1,314 1,402 3,488 2,099		
2000								
All regions	42,236 9,494 8,928 13,450 10,363	22,411 4,897 5,554 6,893 5,066	1,082 358 325 192 207	6,220 1,144 710 2,338 2,027	3,161 1,229 585 765 582	9,362 1,866 1,754 3,262 2,481		
Relative standard error of annual estimates	4 7 9 8 12	6 10 13 11 14	22 38 33 42 38	17 30 30 36 37	19 28 31 39 52	10 23 23 15 18		

Table S2. Expenditures by Region and Property Type: 1998 to 2000—Con.

Christian Diameter Vices		Owner-o	occupied	Rental				
Structural purpose, year, and region	All residential properties	1 unit	2 units or more ¹	1 unit	2 to 4 units	5 units or more		
TOTAL IMPROVEMENTS								
1998								
All regions Northeast. Midwest South West	91,712 23,360 23,645 21,967 22,740	70,049 18,204 18,558 17,356 15,932	2,311 643 292 340 1,037	10,327 1,989 2,311 2,761 3,266	3,281 1,102 720 507 952	5,744 1,423 1,765 1,003 1,553		
1999								
All regions Northeast. Midwest South West	100,549 24,076 21,610 28,019 26,843	72,641 13,935 18,410 18,767 21,526	2,390 704 719 381 587	13,726 4,524 1,008 5,306 2,888	4,081 3,507 191 172 211	7,710 1,405 1,281 3,393 1,631		
2000								
All regions Northeast. Midwest South West	110,739 21,737 28,011 36,610 24,379	77,750 14,664 21,908 22,979 18,199	3,341 1,165 1,002 530 643	16,660 2,181 2,519 9,531 2,429	4,191 1,849 616 925 801	8,797 1,878 1,966 2,646 2,307		
Relative standard error of annual estimates (percent). Northeast (percent). Midwest (percent). South (percent). West (percent).	5 10 8 11 17	8 18 12 11 18	27 39 54 45 45	21 34 39 31 48	28 39 43 57 51	15 32 28 27 17		

¹Includes 2- to 4-unit properties with 1 unit owner-occupied and owner-occupied condominiums on properties with 5 units or more.

Table S3. Expenditures for Owner-Occupied One-Unit Properties by Selected Characteristics: 1998 to 2000

		Total exp	enditures	i	Mai	intenance	and rep	airs		Improvements		
Characteristics	1998	1999	2000	Aver- age RSE	1998	1999	2000	Aver- age RSE	1998	1999	2000	Aver- age RSE
Total	96,159	95,778	100,161	6	26,110	23,137	22,411	7	70,049	72,641	77,750	8
VALUE OF PROPERTY												
Less than \$50,000. \$50,000 to 99,999. \$100,000 to 149,999. \$150,000 to 199,999. \$200,000 to 249,999. \$250,000 or more. Not reported.	8,145 18,674 19,446 17,730 5,845 17,629 8,691	4,482 15,608 16,746 13,052 8,767 23,025 14,098	4,588 15,889 16,737 13,483 9,872 26,346 13,246	17 10 11 12 18 16 18	2,298 5,198 4,820 4,534 1,527 5,242 2,492	1,080 4,273 3,265 2,799 2,564 6,475 2,683	865 3,570 3,475 3,344 2,126 6,100 2,930	21 13 12 12 21 15 16	5,847 13,476 14,626 13,196 4,318 12,387 6,200	3,402 11,334 13,481 10,254 6,204 16,550 11,416	3,724 12,318 13,262 10,139 7,746 20,246 10,316	19 11 14 15 20 20 22
YEAR HOUSEHOLD ACQUIRED UNIT												
1990 to 2000	45,525 21,354 13,785 7,882 4,761 2,852	47,350 19,575 11,208 6,139 3,536 7,970	48,189 18,825 9,604 6,303 3,043 14,197	10 10 11 16 17 31	11,796 5,129 4,241 2,411 1,615 919	11,136 4,759 2,776 1,898 1,530 1,039	10,486 4,284 2,594 1,532 1,262 2,254	10 12 14 18 25 26	33,730 16,225 9,544 5,470 3,146 1,934	36,214 14,816 8,433 4,241 2,006 6,931	37,704 14,540 7,010 4,772 1,781 11,943	10 12 14 20 20 37
INCOME OF HOUSEHOLD												
Less than \$20,000. \$20,000 to 34,999. \$35,000 to 49,999. \$50,000 to 74,999. \$75,000 or more. Not reported.	4,464 11,220 11,789 24,819 33,606 10,262	4,624 9,463 11,034 14,166 40,494 15,997	5,407 10,114 10,186 19,747 39,130 15,576	12 11 11 10 12 19	1,582 3,750 2,929 5,875 8,957 3,017	1,467 3,066 2,463 3,231 9,640 3,271	1,479 2,533 2,262 4,856 7,777 3,504	17 16 14 12 12	2,881 7,470 8,860 18,944 24,649 7,244	3,157 6,398 8,571 10,935 30,854 12,726	3,929 7,581 7,924 14,891 31,353 12,072	15 13 13 12 15 24
AGE OF HOUSEHOLDER												
Under 30 years 30 to 34. 35 to 44. 45 to 54. 55 to 64. 65 to 74. 75 years and over	3,610 6,746 30,350 23,510 11,701 13,350 6,892	3,121 6,426 25,310 28,163 16,977 9,639 6,142	4,696 8,764 25,402 25,019 18,570 11,651 6,058	20 16 12 12 14 11	807 1,437 6,621 6,340 3,528 4,571 2,805	1,048 1,589 6,388 5,850 3,221 3,312 1,730	776 1,864 5,835 4,454 4,791 2,934 1,757	29 22 15 11 14 12 16	2,803 5,309 23,728 17,170 8,173 8,779 4,087	2,073 4,837 18,922 22,314 13,757 6,327 4,412	3,921 6,899 19,567 20,565 13,780 8,717 4,301	23 18 13 15 18 14

RSE Relative Standard Error.