

## Type of Heating System Used in New Single-Family Houses Completed<sup>1</sup>

(Components may not add to totals because of rounding. Percents computed from unrounded figures.)

Year	Number of houses (in thousands)					Percent distribution				
	Total	Warm-air furnace	Heat pump <sup>2</sup>	Hot water or steam	Other types or none <sup>3</sup>	Total	Warm-air furnace	Heat pump	Hot water or steam	Other types or none <sup>3</sup>
<b>United States</b>										
1973	1,197	890	(NA)	70	238	100	74	(NA)	6	20
1974	940	686	(NA)	54	200	100	73	(NA)	6	21
1975	875	633	(NA)	55	188	100	72	(NA)	6	21
1976	1,034	788	(NA)	59	187	100	76	(NA)	6	18
1977	1,258	977	(NA)	67	214	100	78	(NA)	5	17
1978	1,369	781	336	65	188	100	57	25	5	14
1979	1,301	727	333	62	179	100	56	26	5	14
1980	957	541	233	36	147	100	57	24	4	15
1981	819	458	202	26	132	100	56	25	3	16
1982	632	334	166	24	108	100	53	26	4	17
1983	924	513	265	35	110	100	56	29	4	12
1984	1,025	565	309	42	109	100	55	30	4	11
1985	1,072	582	324	53	114	100	54	30	5	11
1986	1,120	607	321	76	116	100	54	29	7	10
1987	1,123	640	303	78	101	100	57	27	7	9
1988	1,085	648	280	75	82	100	60	26	7	8
1989	1,026	648	242	66	70	100	63	24	6	7
1990	966	623	221	60	62	100	65	23	6	6
1991	838	542	188	50	59	100	65	23	6	7
1992	964	633	228	55	47	100	66	24	6	5
1993	1,039	691	246	55	48	100	67	24	5	5
1994	1,160	778	281	60	41	100	67	24	5	4
1995	1,066	706	264	55	39	100	66	25	5	4
1996	1,129	789	258	54	28	100	70	23	5	2
1997	1,116	781	257	52	26	100	70	23	5	2
1998	1,160	835	248	46	30	100	72	21	4	3
1999	1,270	914	282	51	24	100	72	22	4	2
2000	1,242	880	289	53	20	100	71	23	4	2
2001	1,256	888	295	54	18	100	71	23	4	1
2002	1,325	942	310	51	22	100	71	23	4	2
2003	1,386	990	328	46	23	100	71	24	3	2
2004	1,532	1,069	397	46	19	100	70	26	3	1
2005	1,636	1,092	474	48	22	100	67	29	3	1
2006	1,654	1,040	546	42	26	100	63	33	3	2
2007	1,218	752	412	30	24	100	62	34	2	2
2008	819	494	279	22	24	100	60	34	3	3
2009	520	289	194	16	21	100	56	37	3	4
2010	496	279	189	12	16	100	56	38	2	3
RSE	2	6	8	24	17	(NA)	(NA)	(NA)	(NA)	(NA)

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	Total	Warm-air furnace	Heat pump <sup>2</sup>	Hot water or steam	Other types or none <sup>3</sup>	Total	Warm-air furnace	Heat pump	Hot water or steam	Other types or none <sup>3</sup>
<b>Inside Metropolitan Statistical Areas</b>										
1973	752	613	(NA)	47	93	100	81	(NA)	6	13
1974	581	471	(NA)	38	72	100	81	(NA)	7	12
1975	550	445	(NA)	41	64	100	81	(NA)	7	12
1976	672	566	(NA)	44	62	100	84	(NA)	7	9
1977	838	716	(NA)	49	72	100	86	(NA)	6	9
1978	907	600	202	45	61	100	66	22	5	7
1979	858	551	210	44	54	100	64	24	5	6
1980	633	410	148	25	50	100	65	23	4	8
1981	530	345	122	19	44	100	65	23	4	8
1982	409	254	103	18	33	100	62	25	5	8
1983	674	417	188	26	43	100	62	28	4	6
1984	771	467	226	34	42	100	61	29	4	6
1985	853	496	257	40	58	100	58	30	5	7
1986	918	540	261	58	59	100	59	28	6	6
1987	917	568	241	56	52	100	62	26	6	6
1988	876	573	215	52	36	100	65	25	6	4
1989	823	563	185	44	30	100	69	23	5	4
1990	759	531	165	36	25	100	70	22	5	3
1991	642	462	132	30	18	100	72	21	5	3
1992	752	533	169	31	17	100	71	22	4	2
1993	818	587	183	30	17	100	72	22	4	2
1994	929	671	208	29	19	100	72	22	3	2
1995	848	611	188	28	20	100	72	22	3	2
1996	913	685	187	28	12	100	75	20	3	1
1997	904	683	183	26	12	100	76	20	3	1
1998	951	739	175	22	14	100	78	18	2	2
1999	1,040	802	197	27	14	100	77	19	3	1
2000	1,013	776	203	23	10	100	77	20	2	1
2001	1,022	783	203	26	10	100	77	20	3	1
2002	1,077	835	209	21	11	100	78	19	2	1
2003	1,124	872	225	18	9	100	78	20	2	1
2004	1,243	923	291	19	11	100	74	23	2	1
2005	1,422	996	385	31	11	100	70	27	2	1
2006	1,446	956	451	27	13	100	66	31	2	1
2007	1,056	692	334	19	11	100	65	32	2	1
2008	684	442	213	15	13	100	65	31	2	2
2009	442	266	154	11	11	100	60	35	2	2
2010	426	261	149	7	10	100	61	35	2	2
RSE	4	6	10	25	22	(NA)	(NA)	(NA)	(NA)	(NA)

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Year	Number of houses (in thousands)					Percent distribution				
	Total	Warm-air furnace	Heat pump <sup>2</sup>	Hot water or steam	Other types or none <sup>3</sup>	Total	Warm-air furnace	Heat pump	Hot water or steam	Other types or none <sup>3</sup>
<b>Outside Metropolitan Statistical Areas</b>										
1973	445	276	(NA)	24	146	100	62	(NA)	5	33
1974	359	215	(NA)	16	128	100	60	(NA)	4	36
1975	325	187	(NA)	14	124	100	57	(NA)	4	39
1976	363	221	(NA)	16	125	100	61	(NA)	4	34
1977	421	261	(NA)	18	141	100	62	(NA)	4	33
1978	462	181	134	20	127	100	39	29	4	28
1979	443	176	123	19	125	100	40	28	4	28
1980	324	131	84	11	98	100	41	26	3	30
1981	289	113	80	7	89	100	39	28	3	31
1982	223	80	63	6	75	100	36	28	2	33
1983	249	97	77	9	66	100	39	31	4	27
1984	255	98	82	8	67	100	38	32	3	26
1985	220	86	66	12	56	100	39	30	6	25
1986	202	67	60	18	57	100	33	30	9	28
1987	206	72	61	22	49	100	35	30	11	24
1988	208	75	65	23	46	100	36	31	11	22
1989	203	85	57	21	40	100	42	28	10	20
1990	207	91	56	23	37	100	44	27	11	18
1991	196	80	56	20	41	100	41	28	10	21
1992	212	100	59	24	30	100	47	28	11	14
1993	222	104	63	25	31	100	47	28	11	14
1994	232	107	73	30	22	100	46	31	13	10
1995	217	96	75	26	20	100	44	35	12	9
1996	215	104	71	26	16	100	48	33	12	7
1997	212	98	74	26	14	100	46	35	12	6
1998	208	96	73	24	16	100	46	35	11	8
1999	230	112	84	24	10	100	49	37	10	4
2000	229	104	85	31	9	100	45	37	13	4
2001	234	105	92	28	8	100	45	39	12	4
2002	249	107	101	30	10	100	43	41	12	4
2003	263	119	103	28	13	100	45	39	11	5
2004	289	147	106	27	9	100	51	37	9	3
2005	214	97	89	17	11	100	45	42	8	5
2006	208	83	96	16	13	100	40	46	8	6
2007	162	60	78	11	13	100	37	48	7	8
2008	135	52	65	7	11	100	38	48	5	8
2009	78	23	40	5	10	100	30	52	6	12
2010	70	19	40	6	6	100	27	57	8	8
RSE	22	25	32	45	31	(NA)	(NA)	(NA)	(NA)	(NA)

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	Total	Warm-air furnace	Heat pump <sup>2</sup>	Hot water or steam	Other types or none <sup>3</sup>	Total	Warm-air furnace	Heat pump	Hot water or steam	Other types or none <sup>3</sup>
<b>Northeast</b>										
1973	156	58	(NA)	52	46	100	37	(NA)	33	30
1974	132	46	(NA)	39	47	100	35	(NA)	29	35
1975	114	36	(NA)	41	37	100	32	(NA)	36	33
1976	121	41	(NA)	46	34	100	32	(NA)	38	28
1977	135	47	(NA)	50	38	100	34	(NA)	37	28
1978	141	39	12	46	44	100	35	8	33	31
1979	135	40	14	43	38	100	29	11	32	28
1980	100	34	11	23	32	100	34	11	23	32
1981	87	27	12	19	30	100	31	13	22	34
1982	79	25	10	20	24	100	32	13	26	30
1983	106	34	15	28	28	100	32	15	26	27
1984	129	42	21	36	30	100	32	16	28	24
1985	168	58	30	45	35	100	35	18	27	21
1986	193	61	28	69	35	100	32	15	36	18
1987	196	70	28	71	27	100	36	14	36	14
1988	188	80	25	65	18	100	43	13	35	9
1989	159	73	19	58	10	100	46	12	36	6
1990	127	55	15	49	8	100	43	12	38	6
1991	100	46	9	39	5	100	46	9	39	5
1992	114	57	11	41	5	100	50	9	36	4
1993	105	54	11	37	4	100	51	10	35	4
1994	113	58	14	38	3	100	52	12	34	3
1995	108	59	11	36	3	100	55	10	33	2
1996	108	59	11	36	(Z)	100	55	10	33	(Z)
1997	115	70	11	33	3	100	60	9	28	2
1998	116	77	9	30	(Z)	100	66	7	25	(Z)
1999	115	76	7	30	1	100	67	6	26	1
2000	120	81	8	30	1	100	67	7	25	1
2001	114	76	5	32	1	100	67	4	28	1
2002	113	77	5	30	1	100	68	5	26	1
2003	114	75	9	29	1	100	66	8	25	1
2004	119	79	13	26	1	100	67	11	22	1
2005	132	90	10	30	2	100	68	8	23	1
2006	128	93	10	22	3	100	73	8	17	2
2007	105	76	6	19	4	100	73	6	18	4
2008	73	53	6	12	2	100	73	8	16	3
2009	54	36	6	8	4	100	67	11	15	7
2010	54	41	4	6	3	100	75	8	11	5
RSE	4	9	32	29	25	(NA)	(NA)	(NA)	(NA)	(NA)

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	Total	Warm-air furnace	Heat pump <sup>2</sup>	Hot water or steam	Other types or none <sup>3</sup>	Total	Warm-air furnace	Heat pump	Hot water or steam	Other types or none <sup>3</sup>
	<b>Midwest</b>									
1973	262	197	(NA)	14	51	100	75	(NA)	5	19
1974	220	156	(NA)	13	51	100	71	(NA)	6	24
1975	218	158	(NA)	11	48	100	72	(NA)	5	22
1976	271	203	(NA)	11	58	100	75	(NA)	4	21
1977	300	224	(NA)	12	64	100	75	(NA)	4	21
1978	300	198	53	14	36	100	65	18	5	12
1979	294	202	45	14	32	100	69	15	5	11
1980	170	117	21	9	23	100	69	12	5	14
1981	140	98	16	5	21	100	70	11	4	15
1982	92	61	7	3	22	100	66	7	3	23
1983	142	102	16	4	19	100	72	11	3	14
1984	156	122	12	4	17	100	78	8	3	11
1985	151	121	15	4	12	100	80	10	3	8
1986	170	140	15	4	11	100	83	9	2	6
1987	201	175	13	4	10	100	87	6	2	5
1988	191	168	11	5	7	100	88	6	2	4
1989	191	169	9	3	9	100	89	5	2	5
1990	195	173	10	4	8	100	89	5	2	4
1991	185	161	11	4	10	100	87	6	2	5
1992	218	185	20	5	8	100	85	9	2	4
1993	232	199	18	5	9	100	86	8	2	4
1994	255	218	23	6	8	100	85	9	2	3
1995	232	201	19	5	8	100	86	8	2	3
1996	245	217	17	4	6	100	89	7	2	2
1997	236	212	15	5	5	100	89	6	2	2
1998	244	220	14	5	5	100	90	6	2	2
1999	276	251	13	5	7	100	91	5	2	2
2000	269	243	15	6	5	100	90	5	2	2
2001	261	233	18	7	4	100	89	7	3	2
2002	272	244	17	6	5	100	90	6	2	2
2003	274	248	16	4	5	100	91	6	2	2
2004	304	272	23	5	4	100	90	7	2	1
2005	307	270	29	5	4	100	88	9	2	1
2006	285	237	32	10	6	100	83	11	4	2
2007	189	153	23	6	7	100	81	12	3	4
2008	139	108	20	5	5	100	78	14	4	4
2009	89	62	18	4	4	100	70	20	5	5
2010	82	58	17	4	4	100	70	21	5	5
RSE	2	7	24	57	26	(NA)	(NA)	(NA)	(NA)	(NA)

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	<b>South</b>									
1973	526	416	(NA)	3	107	100	79	(NA)	1	21
1974	397	326	(NA)	(Z)	68	100	82	(NA)	(Z)	17
1975	362	296	(NA)	(Z)	65	100	82	(NA)	(Z)	18
1976	410	353	(NA)	(Z)	55	100	86	(NA)	(Z)	13
1977	512	447	(NA)	(Z)	62	100	87	(NA)	(Z)	12
1978	571	302	209	3	58	100	53	37	(Z)	10
1979	535	275	206	(Z)	52	100	51	38	(Z)	10
1980	455	244	154	(Z)	55	100	54	34	(Z)	12
1981	408	220	133	(Z)	54	100	54	33	(Z)	13
1982	340	183	116	(Z)	40	100	54	34	(Z)	12
1983	476	259	179	(Z)	36	100	55	38	(Z)	8
1984	508	260	214	(Z)	33	100	51	42	(Z)	7
1985	514	249	230	(Z)	33	100	49	45	(Z)	6
1986	505	233	231	(Z)	39	100	46	46	(Z)	8
1987	467	212	224	(Z)	30	100	45	48	(Z)	6
1988	457	215	214	(Z)	26	100	47	47	(Z)	6
1989	420	206	187	(Z)	25	100	49	45	(Z)	6
1990	389	199	168	(Z)	20	100	51	43	(Z)	5
1991	348	187	144	(Z)	16	100	54	41	(Z)	5
1992	400	216	167	3	14	100	54	42	1	3
1993	456	251	188	3	13	100	55	41	1	3
1994	507	281	214	3	11	100	55	42	1	2
1995	472	249	211	(Z)	10	100	53	45	(Z)	2
1996	507	291	208	(Z)	6	100	57	41	(Z)	1
1997	506	286	211	3	6	100	57	42	1	1
1998	517	303	205	(Z)	6	100	59	40	(Z)	1
1999	570	323	239	2	5	100	57	42	(Z)	1
2000	566	316	244	2	4	100	56	43	(Z)	1
2001	578	325	249	2	3	100	56	43	(Z)	1
2002	615	347	260	2	5	100	57	42	(Z)	1
2003	635	355	275	2	4	100	56	43	(Z)	1
2004	700	358	335	2	4	100	51	48	(Z)	1
2005	760	354	401	1	5	100	47	53	(Z)	1
2006	826	353	466	2	5	100	43	56	(Z)	1
2007	631	279	348	1	3	100	44	55	(Z)	(Z)
2008	417	184	230	1	2	100	44	55	(Z)	1
2009	259	102	154	(Z)	3	100	39	59	(Z)	1
2010	258	100	154	1	3	100	39	60	(Z)	1
RSE	3	14	8	43	24	(NA)	(NA)	(NA)	(NA)	(NA)

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	Total	Warm-air furnace	Heat pump <sup>2</sup>	Hot water or steam	Other types or none <sup>3</sup>	Total	Warm-air furnace	Heat pump	Hot water or steam	Other types or none <sup>3</sup>
	<b>West</b>									
1973	253	218	(NA)	(Z)	35	100	86	(NA)	(Z)	14
1974	191	157	(NA)	(Z)	34	100	82	(NA)	(Z)	17
1975	182	142	(NA)	(Z)	38	100	78	(NA)	(Z)	21
1976	232	190	(NA)	3	40	100	82	(NA)	1	17
1977	311	258	(NA)	3	50	100	83	(NA)	1	16
1978	357	242	62	3	51	100	68	17	1	14
1979	337	211	67	3	57	100	62	20	1	17
1980	233	147	46	(Z)	38	100	63	20	(Z)	16
1981	183	112	42	(Z)	28	100	61	23	(Z)	15
1982	121	65	32	(Z)	23	100	54	27	(Z)	19
1983	200	117	55	(Z)	26	100	58	27	(Z)	13
1984	233	141	62	(Z)	29	100	60	26	(Z)	12
1985	239	153	49	(Z)	35	100	64	21	(Z)	15
1986	253	172	47	(Z)	32	100	68	18	(Z)	13
1987	259	184	38	(Z)	34	100	71	15	(Z)	13
1988	248	185	30	3	30	100	74	12	1	12
1989	257	200	27	3	27	100	78	10	1	10
1990	255	195	28	5	26	100	76	11	2	10
1991	205	148	24	5	27	100	73	12	2	13
1992	232	174	31	7	20	100	75	13	3	9
1993	247	187	29	9	22	100	76	12	4	9
1994	285	222	31	13	19	100	78	11	5	7
1995	253	198	24	13	19	100	78	9	5	8
1996	269	221	23	12	13	100	82	8	4	5
1997	259	214	21	12	12	100	83	8	5	5
1998	283	235	20	10	18	100	83	7	3	6
1999	310	264	22	14	11	100	85	7	4	3
2000	286	240	21	16	9	100	84	7	5	3
2001	303	255	24	14	11	100	84	8	5	4
2002	325	274	27	14	11	100	84	8	4	3
2003	363	313	28	10	12	100	86	8	3	3
2004	409	359	27	13	10	100	88	7	3	2
2005	437	379	34	11	12	100	87	8	3	3
2006	415	357	37	8	13	100	86	9	2	3
2007	294	244	35	4	11	100	83	12	2	4
2008	190	149	23	4	14	100	78	12	2	7
2009	118	89	16	4	9	100	75	14	3	8
2010	103	82	13	2	6	100	79	13	2	6
RSE	2	6	32	53	30	(NA)	(NA)	(NA)	(NA)	(NA)

- Represents zero. A Represents an RSE that is greater than or equal to 100 or could not be computed.

NA Not available. RSE Relative Standard Error.

S Withheld because estimate did not meet publication standards on the basis of response rate, associated standard error, or a consistency review.

Z Less than 500 units or less than 0.5 percent.

<sup>1</sup>Includes houses built for rent (not shown separately).

<sup>2</sup>Includes both air source and geothermal (ground source) versions.

<sup>3</sup>Includes electric baseboard, panel, radiant heat, space heater, floor or wall furnace, solar, and other types.

Note: Single-family estimates prior to 1999 include an upward adjustment of 3.3 percent made to account for structures built in permit-issuing areas without permit authorization.

Note: Estimates of the type of heating system for 2008 have been revised.