

Massachusetts: 2002

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2002 Economic Census

Construction

Geographic Area Series



U S C E N S U S B U R E A U

Helping You Make Informed Decisions

U.S. Department of Commerce
Economics and Statistics Administration
U.S. CENSUS BUREAU



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Table 1. Employment Statistics for Establishments by State: 2002

[Detail may not add to total because of rounding. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, nonsampling error, and geographical definitions, see note at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

NAICS code	Industry	Number of establishments	Number of employees		Number of construction workers in				Payroll (thousand dollars)		Relative standard error of estimate (percent) for column—
			Total	Construction workers	March	May	August	November	Total	Construction workers	
			A	B	C	D	E	F	G	H	
MASSACHUSETTS											
23	Construction	17 107	165 596	120 538	114 170	121 497	125 229	121 255	6 772 400	4 590 378	2
236	Construction of buildings	4 406	35 954	22 566	21 665	22 547	23 801	22 251	1 457 380	767 947	5
2361	Residential building construction ..	3 529	15 893	10 123	9 836	10 315	10 459	9 882	581 323	313 075	4
23611	Residential building construction ..	3 529	15 893	10 123	9 836	10 315	10 459	9 882	581 323	313 075	4
236115	New single-family housing construction (except operative builders)	963	5 227	3 424	3 326	3 458	3 589	3 322	192 993	104 444	8
236116	New multifamily housing construction (except operative builders)	85	799	438	539	389	413	411	39 026	19 213	11
236117	New housing operative builders	396	2 077	1 180	1 117	1 248	1 188	1 168	94 495	43 419	9
236118	Residential remodelers	2 085	7 789	5 081	4 855	5 221	5 269	4 981	254 808	145 999	6
2362	Nonresidential building construction	877	20 061	12 443	11 828	12 232	13 342	12 369	876 057	454 873	8
23621	Industrial building construction ..	90	1 636	804	708	840	900	768	68 831	24 535	39
236210	Industrial building construction	90	1 636	804	708	840	900	768	68 831	24 535	39
23622	Commercial and institutional building construction	786	18 425	11 639	11 120	11 392	12 442	11 601	807 227	430 337	8
236220	Commercial and institutional building construction	786	18 425	11 639	11 120	11 392	12 442	11 601	807 227	430 337	8
237	Heavy and civil engineering construction	1 149	24 623	18 268	17 403	19 581	18 292	17 795	1 156 718	788 159	3
2371	Utility system construction	338	6 732	4 694	4 421	5 060	4 735	4 559	341 140	225 409	6
23711	Water and sewer line and related structures construction	239	3 167	2 370	2 151	2 448	2 514	2 366	148 524	104 769	7
237110	Water and sewer line and related structures construction	239	3 167	2 370	2 151	2 448	2 514	2 366	148 524	104 769	7
23712	Oil and gas pipeline and related structures construction	11	855	728	641	920	622	729	44 697	33 692	1
237120	Oil and gas pipeline and related structures construction	11	855	728	641	920	622	729	44 697	33 692	1
23713	Power and communication line and related structures construction	88	2 711	1 596	1 629	1 692	1 598	1 464	147 919	86 948	11
237130	Power and communication line and related structures construction	88	2 711	1 596	1 629	1 692	1 598	1 464	147 919	86 948	11
2372	Land subdivision	301	1 386	485	561	486	451	442	53 962	15 807	19
23721	Land subdivision	301	1 386	485	561	486	451	442	53 962	15 807	19
237210	Land subdivision	301	1 386	485	561	486	451	442	53 962	15 807	19
2373	Highway, street, and bridge construction	253	11 307	9 035	8 427	9 937	8 988	8 789	508 735	379 436	4
23731	Highway, street, and bridge construction	253	11 307	9 035	8 427	9 937	8 988	8 789	508 735	379 436	4
237310	Highway, street, and bridge construction	253	11 307	9 035	8 427	9 937	8 988	8 789	508 735	379 436	4
2379	Other heavy and civil engineering construction	257	5 198	4 054	3 995	4 097	4 119	4 005	252 882	167 507	5
23799	Other heavy and civil engineering construction	257	5 198	4 054	3 995	4 097	4 119	4 005	252 882	167 507	5
237990	Other heavy and civil engineering construction	257	5 198	4 054	3 995	4 097	4 119	4 005	252 882	167 507	5
238	Specialty trade contractors	11 552	105 018	79 704	75 102	79 370	83 136	81 209	4 158 301	3 034 272	2
2381	Foundation, structure, and building exterior contractors	1 930	17 096	13 265	12 044	13 161	14 106	13 751	602 780	446 027	6
23811	Poured concrete foundation and structure contractors	383	4 505	3 626	3 010	3 478	3 995	4 020	140 879	107 816	17
238110	Poured concrete foundation and structure contractors	383	4 505	3 626	3 010	3 478	3 995	4 020	140 879	107 816	17
23812	Structural steel and precast concrete contractors	38	1 093	901	1 123	928	750	803	57 923	43 321	6
238120	Structural steel and precast concrete contractors	38	1 093	901	1 123	928	750	803	57 923	43 321	6
23813	Framing contractors	280	1 528	1 272	1 273	1 259	1 295	1 260	45 469	36 410	14
238130	Framing contractors	280	1 528	1 272	1 273	1 259	1 295	1 260	45 469	36 410	14
23814	Masonry contractors	508	4 576	3 508	3 026	3 521	3 724	3 760	173 047	134 500	10
238140	Masonry contractors	508	4 576	3 508	3 026	3 521	3 724	3 760	173 047	134 500	10
23815	Glass and glazing contractors ..	149	1 241	809	811	834	804	788	47 418	31 963	18
238150	Glass and glazing contractors	149	1 241	809	811	834	804	788	47 418	31 963	18
23816	Roofing contractors	337	2 699	2 088	1 832	2 067	2 415	2 040	92 599	60 419	11
238160	Roofing contractors	337	2 699	2 088	1 832	2 067	2 415	2 040	92 599	60 419	11
23817	Siding contractors	164	733	481	478	474	513	458	23 754	16 542	18
238170	Siding contractors	164	733	481	478	474	513	458	23 754	16 542	18

See footnotes at end of table.

Table 1. Employment Statistics for Establishments by State: 2002—Con.

[Detail may not add to total because of rounding. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, nonsampling error, and geographical definitions, see note at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

NAICS code	Industry	Number of establishments	Number of employees		Number of construction workers in				Payroll (thousand dollars)		Relative standard error of estimate (percent) for column—
			Total	Construction workers	March	May	August	November	Total	Construction workers	
			A	B	C	D	E	F	G	H	
MASSACHUSETTS—Con.											
23	Construction—Con.										
238	Specialty trade contractors—Con.										
2381	Foundation, structure, and building exterior contractors—Con.										
23819	Other foundation, structure, and building exterior contractors...	571	721	580	489	600	609	622	21 691	15 057	13
238190	Other foundation, structure, and building exterior contractors	571	721	580	489	600	609	622	21 691	15 057	13
2382	Building equipment contractors ...	4 552	49 310	37 016	35 605	36 728	38 026	37 705	2 171 351	1 597 394	2
23821	Electrical Contractors	1 888	22 442	17 299	16 414	17 260	17 866	17 656	993 967	754 205	3
238210	Electrical Contractors	1 888	22 442	17 299	16 414	17 260	17 866	17 656	993 967	754 205	3
23822	Plumbing, heating, and air-conditioning contractors	2 520	23 276	16 970	16 821	17 091	17 287	16 684	1 007 916	713 798	3
238220	Plumbing, heating, and air-conditioning contractors	2 520	23 276	16 970	16 821	17 091	17 287	16 684	1 007 916	713 798	3
23829	Other building equipment contractors	145	3 591	2 747	2 370	2 377	2 874	3 366	169 467	129 390	7
238290	Other building equipment contractors	145	3 591	2 747	2 370	2 377	2 874	3 366	169 467	129 390	7
2383	Building finishing contractors	3 118	21 498	16 300	15 500	16 056	17 071	16 575	746 075	536 013	6
23831	Drywall and insulation contractors	352	4 843	4 005	4 392	3 873	3 956	3 800	188 911	148 754	14
238310	Drywall and insulation contractors	352	4 843	4 005	4 392	3 873	3 956	3 800	188 911	148 754	14
23832	Painting and wall covering contractors	1 022	5 074	4 011	3 487	3 967	4 276	4 316	158 910	119 325	12
238320	Painting and wall covering contractors	1 022	5 074	4 011	3 487	3 967	4 276	4 316	158 910	119 325	12
23833	Flooring contractors	387	2 169	1 502	1 618	1 454	1 534	1 402	77 426	46 957	14
238330	Flooring contractors	387	2 169	1 502	1 618	1 454	1 534	1 402	77 426	46 957	14
23834	Tile and terrazzo contractors	106	564	366	331	395	393	343	24 337	18 163	18
238340	Tile and terrazzo contractors	106	564	366	331	395	393	343	24 337	18 163	18
23835	Finish carpentry contractors	1 053	6 197	4 480	3 930	4 491	4 839	4 660	204 881	143 657	10
238350	Finish carpentry contractors	1 053	6 197	4 480	3 930	4 491	4 839	4 660	204 881	143 657	10
23839	Other building finishing contractors	196	2 650	1 936	1 742	1 876	2 072	2 055	91 611	59 156	20
238390	Other building finishing contractors	196	2 650	1 936	1 742	1 876	2 072	2 055	91 611	59 156	20
2389	Other specialty trade contractors	1 952	17 114	13 122	11 953	13 425	13 933	13 178	638 095	454 838	7
23891	Site preparation contractors	917	8 595	6 811	6 092	6 924	7 269	6 961	344 173	250 370	6
238910	Site preparation contractors	917	8 595	6 811	6 092	6 924	7 269	6 961	344 173	250 370	6
23899	All other specialty trade contractors	1 035	8 519	6 311	5 861	6 502	6 664	6 218	293 923	204 468	13
238990	All other specialty trade contractors	1 035	8 519	6 311	5 861	6 502	6 664	6 218	293 923	204 468	13

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 2. General Statistics for Establishments by State: 2002

[Thousand dollars unless otherwise noted. Detail may not add to total because of rounding. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, nonsampling error, and geographical definitions, see note at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

NAICS code	Industry	E ¹	Value of business done ²	Value of construction work ²	Net value of construction work	Value added	Cost of materials, components, supplies, and fuels	Cost of construction work subcontracted out to others	Total rental costs	Capital expenditures, except land	Gross book value of depreciable assets, end-of-year
MASSACHUSETTS											
23	Construction	1	31 547 604	31 325 634	21 441 423	13 973 097	7 690 297	9 884 210	546 993	443 866	3 460 659
236	Construction of buildings	1	13 195 291	13 125 419	5 860 523	3 274 877	2 655 518	7 264 896	91 897	82 439	533 390
2361	Residential building construction	3	4 360 148	4 338 533	2 708 503	1 500 093	1 230 025	1 630 030	32 191	42 248	272 033
23611	Residential building construction	3	4 360 148	4 338 533	2 708 503	1 500 093	1 230 025	1 630 030	32 191	42 248	272 033
236115	New single-family housing construction (except operative builders)	4	1 358 347	1 350 052	847 944	459 405	396 834	502 107	11 693	13 465	99 751
236116	New multifamily housing construction (except operative builders)	6	442 254	442 254	171 308	71 245	100 063	270 945	3 581	3 304	16 396
236117	New housing operative builders	1	1 102 424	1 097 877	736 444	429 777	311 214	361 433	4 094	9 458	60 586
236118	Residential remodelers	3	1 457 123	1 448 350	952 807	539 665	421 914	495 544	12 824	16 022	95 301
2362	Nonresidential building construction	-	8 835 143	8 786 886	3 152 020	1 774 784	1 425 492	5 634 866	59 705	40 191	261 357
23621	Industrial building construction	2	712 246	711 678	*309 815	-790	*311 173	401 864	4 091	*2 604	*25 360
236210	Industrial building construction	2	712 246	711 678	*309 815	-790	*311 173	401 864	4 091	*2 604	*25 360
23622	Commercial and institutional building construction	-	8 122 897	8 075 207	2 842 205	1 775 574	1 114 320	5 233 003	55 614	37 587	235 997
236220	Commercial and institutional building construction	-	8 122 897	8 075 207	2 842 205	1 775 574	1 114 320	5 233 003	55 614	37 587	235 997
237	Heavy and civil engineering construction	1	4 919 789	4 874 680	3 664 421	2 664 850	1 044 679	1 210 260	181 848	95 169	957 230
2371	Utility system construction	1	1 120 039	D	900 248	638 487	D	D	37 651	27 063	268 312
23711	Water and sewer line and related structures construction	1	652 934	D	517 844	333 637	D	D	24 467	16 105	159 088
237110	Water and sewer line and related structures construction	1	652 934	D	517 844	333 637	D	D	24 467	16 105	159 088
23712	Oil and gas pipeline and related structures construction	-	143 665	D	D	78 790	D	D	6 745	3 370	32 624
237120	Oil and gas pipeline and related structures construction	-	143 665	D	D	78 790	D	D	6 745	3 370	32 624
23713	Power and communication line and related structures construction	-	323 440	D	D	226 060	D	D	6 439	7 588	76 600
237130	Power and communication line and related structures construction	-	323 440	D	D	226 060	D	D	6 439	7 588	76 600
2372	Land subdivision	6	386 928	D	288 694	226 269	D	D	2 025	6 632	72 614
23721	Land subdivision	6	386 928	D	288 694	226 269	D	D	2 025	6 632	72 614
237210	Land subdivision	6	386 928	D	288 694	226 269	D	D	2 025	6 632	72 614
2373	Highway, street, and bridge construction	1	2 261 143	2 250 219	1 541 528	1 051 169	501 283	708 691	116 912	34 654	381 273
23731	Highway, street, and bridge construction	1	2 261 143	2 250 219	1 541 528	1 051 169	501 283	708 691	116 912	34 654	381 273
237310	Highway, street, and bridge construction	1	2 261 143	2 250 219	1 541 528	1 051 169	501 283	708 691	116 912	34 654	381 273
2379	Other heavy and civil engineering construction	2	1 151 679	1 144 854	933 950	748 924	191 851	210 904	25 260	26 820	235 031
23799	Other heavy and civil engineering construction	2	1 151 679	1 144 854	933 950	748 924	191 851	210 904	25 260	26 820	235 031
237990	Other heavy and civil engineering construction	2	1 151 679	1 144 854	933 950	748 924	191 851	210 904	25 260	26 820	235 031
238	Specialty trade contractors	2	13 432 524	13 325 535	11 916 480	8 033 369	3 990 100	1 409 055	273 248	266 257	1 970 038
2381	Foundation, structure, and building exterior contractors	2	1 991 165	1 986 301	1 796 988	1 190 406	611 446	189 313	50 834	32 740	247 559
23811	Poured concrete foundation and structure contractors	3	495 809	495 648	430 067	272 680	157 549	65 580	15 810	14 255	82 369
238110	Poured concrete foundation and structure contractors	3	495 809	495 648	430 067	272 680	157 549	65 580	15 810	14 255	82 369
23812	Structural steel and precast concrete contractors	2	147 718	D	D	109 314	D	D	6 004	1 497	15 562
238120	Structural steel and precast concrete contractors	2	147 718	D	D	109 314	D	D	6 004	1 497	15 562
23813	Framing contractors	1	D	D	D	86 003	D	D	3 186	*2 036	12 984
238130	Framing contractors	1	D	D	D	86 003	D	D	3 186	*2 036	12 984
23814	Masonry contractors	1	509 978	509 925	472 629	323 394	149 288	37 296	12 406	6 087	56 111
238140	Masonry contractors	1	509 978	509 925	472 629	323 394	149 288	37 296	12 406	6 087	56 111
23815	Glass and glazing contractors	3	192 248	188 285	175 218	100 527	78 653	13 068	5 074	2 216	19 142
238150	Glass and glazing contractors	3	192 248	188 285	175 218	100 527	78 653	13 068	5 074	2 216	19 142
23816	Roofing contractors	2	336 978	D	D	199 961	D	D	5 333	4 956	41 332
238160	Roofing contractors	2	336 978	D	D	199 961	D	D	5 333	4 956	41 332
23817	Siding contractors	2	D	85 579	D	45 935	30 395	D	953	971	7 515
238170	Siding contractors	2	D	85 579	D	45 935	30 395	D	953	971	7 515
23819	Other foundation, structure, and building exterior contractors	-	D	D	D	52 593	D	D	2 069	724	12 545
238190	Other foundation, structure, and building exterior contractors	-	D	D	D	52 593	D	D	2 069	724	12 545

See footnotes at end of table.

Table 2. General Statistics for Establishments by State: 2002—Con.

[Thousand dollars unless otherwise noted. Detail may not add to total because of rounding. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, nonsampling error, and geographical definitions, see note at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

NAICS code	Industry	E ¹	Value of business done ²	Value of construction work ²	Net value of construction work	Value added	Cost of materials, components, supplies, and fuels	Cost of construction work subcontracted out to others	Total rental costs	Capital expenditures, except land	Gross book value of depreciable assets, end-of-year
MASSACHUSETTS—Con.											
23	Construction—Con.										
238	Specialty trade contractors—Con.										
2382	Building equipment contractors . . .	2	6 616 208	6 588 031	5 956 099	4 016 534	1 967 742	631 932	103 997	92 533	653 169
23821	Electrical Contractors	1	2 609 742	2 601 672	2 485 040	1 646 211	846 900	116 631	39 959	32 017	232 856
238210	Electrical Contractors	1	2 609 742	2 601 672	2 485 040	1 646 211	846 900	116 631	39 959	32 017	232 856
23822	Plumbing, heating, and air-conditioning contractors	2	3 545 394	3 531 662	3 028 507	2 004 088	1 038 151	503 155	48 899	53 726	374 150
238220	Plumbing, heating, and air-conditioning contractors	2	3 545 394	3 531 662	3 028 507	2 004 088	1 038 151	503 155	48 899	53 726	374 150
23829	Other building equipment contractors	1	461 073	454 698	442 551	366 235	82 692	12 147	15 139	6 790	46 163
238290	Other building equipment contractors	1	461 073	454 698	442 551	366 235	82 692	12 147	15 139	6 790	46 163
2383	Building finishing contractors	2	2 466 303	2 445 431	2 186 410	1 495 297	711 985	259 021	40 900	35 279	248 797
23831	Drywall and insulation contractors	1	569 934	569 281	524 394	341 171	183 876	44 887	8 137	5 149	34 359
238310	Drywall and insulation contractors	1	569 934	569 281	524 394	341 171	183 876	44 887	8 137	5 149	34 359
23832	Painting and wall covering contractors	3	422 173	421 273	382 657	287 700	95 857	38 616	7 759	8 110	62 459
238320	Painting and wall covering contractors	3	422 173	421 273	382 657	287 700	95 857	38 616	7 759	8 110	62 459
23833	Flooring contractors	2	301 332	290 578	258 319	159 117	109 957	32 259	3 301	7 157	62 213
238330	Flooring contractors	2	301 332	290 578	258 319	159 117	109 957	32 259	3 301	7 157	62 213
23834	Tile and terrazzo contractors	1	82 716	82 107	79 122	52 404	27 327	*2 985	988	904	7 448
238340	Tile and terrazzo contractors	1	82 716	82 107	79 122	52 404	27 327	*2 985	988	904	7 448
23835	Finish carpentry contractors	3	778 947	773 952	644 817	418 399	231 414	129 134	11 139	9 854	56 367
238350	Finish carpentry contractors	3	778 947	773 952	644 817	418 399	231 414	129 134	11 139	9 854	56 367
23839	Other building finishing contractors	1	311 201	308 242	297 102	236 505	63 555	11 140	9 576	4 106	25 952
238390	Other building finishing contractors	1	311 201	308 242	297 102	236 505	63 555	11 140	9 576	4 106	25 952
2389	Other specialty trade contractors	2	2 358 847	2 305 771	1 976 983	1 331 133	698 927	328 788	77 518	105 705	820 513
23891	Site preparation contractors	1	1 324 374	1 307 502	1 095 587	823 868	288 592	211 914	54 483	78 135	562 447
238910	Site preparation contractors	1	1 324 374	1 307 502	1 095 587	823 868	288 592	211 914	54 483	78 135	562 447
23899	All other specialty trade contractors	4	1 034 473	998 270	881 396	507 265	410 334	116 874	23 035	27 570	258 066
238990	All other specialty trade contractors	4	1 034 473	998 270	881 396	507 265	410 334	116 874	23 035	27 570	258 066

¹Construction receipts were obtained from census respondent forms. Data for establishments whose respondent forms were not received at the time data were tabulated were calculated using industry averages and imputation for nonresponse. The following symbols are shown where estimated imputation-based data on construction receipts account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

²For the 2002 Economic Census, the definitions of value of business done and value of construction work have been modified from the 1997 Economic Census definitions. See Appendix A for the modified definitions.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 3. Detailed Statistics for Establishments: 2002

[Detail may not add to total because of rounding. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, nonsampling error, and geographical definitions, see note at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

Item	Value	Relative standard error of estimate (percent)
MASSACHUSETTS		
All establishments number..	17 107	3
All employees number..	165 596	2
Construction workers in March number..	114 170	2
Construction workers in May number..	121 497	2
Construction workers in August number..	125 229	2
Construction workers in November number..	121 255	2
Average number of construction workers number..	120 538	2
Other employees in March number..	46 074	2
Other employees in May number..	43 747	2
Other employees in August number..	44 978	2
Other employees in November number..	45 432	2
Average number of other employees number..	45 058	2
Total payroll \$1,000..	6 772 400	1
Construction workers \$1,000..	4 590 378	1
Other employees \$1,000..	2 182 022	2
First-quarter payroll, all employees \$1,000..	1 546 269	1
Fringe benefits, all employees \$1,000..	1 746 603	1
Legally required expenditures \$1,000..	986 463	1
Voluntary expenditures \$1,000..	760 140	1
Value of business done ¹ \$1,000..	31 547 604	1
Value of construction work ¹ \$1,000..	31 325 634	1
Value of construction work on government owned projects \$1,000..	9 333 445	2
Value of construction work on federally owned projects \$1,000..	1 449 438	3
Value of construction work on state and locally owned projects \$1,000..	7 884 006	2
Value of construction work on privately owned projects \$1,000..	21 992 189	2
Other business receipts \$1,000..	221 970	6
Value of construction work subcontracted in from others \$1,000..	11 050 704	2
Net value of construction work \$1,000..	21 441 423	1
Value added \$1,000..	13 973 097	1
Selected costs \$1,000..	17 574 507	2
Materials, parts, and supplies \$1,000..	7 329 736	3
Construction work subcontracted out to others \$1,000..	9 884 210	2
Selected power, fuels, and lubricants \$1,000..	360 561	4
Purchased electricity \$1,000..	57 697	3
Natural gas and manufactured gas \$1,000..	24 081	5
Gasoline and diesel fuel \$1,000..	257 101	4
On-highway use of gasoline and diesel fuel \$1,000..	193 813	5
Off-highway use of gasoline and diesel fuel \$1,000..	63 289	4
All other fuels and lubricants \$1,000..	21 682	4
Total rental costs \$1,000..	546 993	2
Machinery and equipment \$1,000..	378 977	2
Buildings \$1,000..	168 016	3
Selected purchased services \$1,000..	843 132	3
Communication services \$1,000..	246 257	2
Repairs to buildings and other structures \$1,000..	129 574	4
Repairs to machinery and equipment \$1,000..	220 695	3
Legal services \$1,000..	60 994	8
Accounting, auditing, and bookkeeping services \$1,000..	100 107	11
Advertising and promotional services \$1,000..	85 505	9
Beginning-of-year gross book value of depreciable assets \$1,000..	3 158 693	3
Capital expenditures, other than land \$1,000..	443 866	4
Retirements and disposition of depreciable assets \$1,000..	141 900	8
End-of-year gross book value of depreciable assets \$1,000..	3 460 659	3
Depreciation charges during year \$1,000..	393 169	2
Establishments with inventories number..	2 489	—
Value of construction work for establishments with inventories \$1,000..	6 714 683	—
End-of-2002, inventories of materials and supplies \$1,000..	215 627	9
End-of-2001, inventories of materials and supplies \$1,000..	203 315	10
Establishments with no inventories number..	13 060	—
Value of construction work for establishments with no inventories \$1,000..	23 169 235	—
Establishments not reporting inventories number..	1 558	—
Value of construction work for establishments not reporting inventores \$1,000..	1 441 716	—

¹For the 2002 Economic Census, the definitions of value of business done and value of construction work have been modified from the 1997 Economic Census definitions. See Appendix A for the modified definitions.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 4. Selected Statistics for Establishments by Employment Size Class: 2002

[Thousand dollars unless otherwise noted. Detail may not add to total because of rounding. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, nonsampling error, and geographical definitions, see note at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

Employment size class	E ¹	Number of establishments	Total number of employees	Total payroll	Value of business done ²	Value of construction work ²	Net value of construction work	Value added	Cost of materials, components, supplies, and fuels	Cost of construction work subcontracted out to others	Relative standard error of estimate (percent) for column—
	A	B	C	D	E	F	G	H	I	J	C
MASSACHUSETTS											
All establishments	1	17 107	165 596	6 772 400	31 547 604	31 325 634	21 441 423	13 973 097	7 690 297	9 884 210	2
Establishments with—											
1 to 4 employees	3	10 604	21 725	573 995	3 336 819	3 321 064	2 603 248	1 550 834	1 068 170	717 816	4
5 to 9 employees	4	3 230	20 546	678 364	2 898 269	2 872 950	2 288 653	1 443 420	870 553	584 296	6
10 to 19 employees	2	1 711	22 150	861 927	3 461 131	3 439 653	2 670 045	1 670 261	1 021 262	769 608	6
20 to 49 employees	2	1 039	30 420	1 348 574	5 326 765	5 257 912	3 843 412	2 485 704	1 426 561	1 414 500	4
50 to 99 employees	1	312	21 364	968 620	3 900 445	3 872 771	2 742 439	1 776 066	994 047	1 130 332	8
100 to 249 employees	—	166	24 184	1 231 812	5 507 206	5 454 985	3 693 152	2 730 924	1 014 449	1 761 833	2
250 to 499 employees	1	29	10 265	447 825	3 008 199	2 997 552	1 234 814	765 680	479 782	1 762 738	2
500 to 999 employees	—	10	6 538	276 385	2 464 963	2 464 940	1 237 404	725 874	511 553	1 227 536	—
1,000 employees or more	—	5	8 404	384 897	1 643 806	1 643 806	1 128 256	824 335	303 921	515 550	—

¹Construction receipts were obtained from census respondent forms. Data for establishments whose respondent forms were not received at the time data were tabulated were calculated using industry averages and imputation for nonresponse. The following symbols are shown where estimated imputation-based data on construction receipts account for 10 percent or more of the figures shown: 1—10 to 19 percent; 2—20 to 29 percent; 3—30 to 39 percent; 4—40 to 49 percent; 5—50 to 59 percent; 6—60 to 69 percent; 7—70 to 79 percent; 8—80 to 89 percent; 9—90 percent or more.

²For the 2002 Economic Census, the definitions of value of business done and value of construction work have been modified from the 1997 Economic Census definitions. See Appendix A for the modified definitions.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 5. Selected Statistics for Establishments by Dollar Value of Business Done Size Class: 2002

[Thousand dollars unless otherwise noted. Detail may not add to total because of rounding. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, nonsampling error, and geographical definitions, see note at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

Dollar value size class	E ¹	Number of establishments	Total number of employees	Total payroll	Value of business done ²	Value of construction work ²	Net value of construction work	Value added	Cost of materials, components, supplies, and fuels	Cost of construction work subcontracted out to others	Relative standard error of estimate (percent) for column—
	A	B	C	D	E	F	G	H	I	J	G
MASSACHUSETTS											
All establishments	1	17 107	165 596	6 772 400	31 547 604	31 325 634	21 441 423	13 973 097	7 690 297	9 884 210	1
Establishments with value of business done—											
Less than \$25,000	5	^s 57	^s 57	^s 401	^s 1 172	^s 1 168	^s 1 056	^s 709	^s 350	^s 113	^s 50
\$25,000 to \$49,999	7	603	669	8 294	22 386	22 378	20 292	14 522	5 778	2 086	18
\$50,000 to \$99,999	6	1 517	2 198	30 588	109 455	109 346	95 663	66 211	29 562	13 682	11
\$100,000 to \$249,999	4	4 315	9 021	186 800	741 597	738 347	656 121	430 572	228 799	82 226	7
\$250,000 to \$499,999	4	3 725	13 081	342 966	1 301 747	1 292 646	1 127 762	714 460	422 403	164 884	7
\$500,000 to \$999,999	4	2 853	17 071	522 755	1 954 990	1 944 136	1 626 650	1 009 050	628 454	317 487	6
\$1,000,000 to \$2,499,999	3	2 080	22 189	877 577	3 191 431	3 164 854	2 592 329	1 666 956	951 950	572 524	5
\$2,500,000 to \$4,999,999	2	1 001	21 190	891 460	3 434 466	3 398 948	2 764 233	1 807 741	992 010	634 715	6
\$5,000,000 to \$9,999,999	2	504	19 423	886 503	3 497 453	3 462 519	2 680 799	1 630 956	1 084 778	781 720	6
\$10,000,000 or more	—	452	60 697	3 025 056	17 292 906	17 191 291	9 876 517	6 631 920	3 346 212	7 314 774	1

¹Construction receipts were obtained from census respondent forms. Data for establishments whose respondent forms were not received at the time data were tabulated were calculated using industry averages and imputation for nonresponse. The following symbols are shown where estimated imputation-based data on construction receipts account for 10 percent or more of the figures shown: 1—10 to 19 percent; 2—20 to 29 percent; 3—30 to 39 percent; 4—40 to 49 percent; 5—50 to 59 percent; 6—60 to 69 percent; 7—70 to 79 percent; 8—80 to 89 percent; 9—90 percent or more.

²For the 2002 Economic Census, the definitions of value of business done and value of construction work have been modified from the 1997 Economic Census definitions. See Appendix A for the modified definitions.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 6. **Value of Construction Work for Establishments by Geographic Location of Construction Work: 2002**

[Thousand dollars unless otherwise noted. This table presents selected statistics for establishments according to the geographic location of construction work. Data are not shown for those geographic locations in which construction work is relatively insignificant. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, nonsampling error, and geographical definitions, see note at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

Geographic location of construction work	Value of construction work ¹	Relative standard error of estimate (percent)
MASSACHUSETTS		
Total	31 325 634	1
Construction work done in Connecticut	642 993	4
Construction work done in Massachusetts	27 830 904	2
Construction work done in New Hampshire	461 929	29
Construction work done in New Jersey	74 980	—
Construction work done in New York	449 031	1
Construction work done in Rhode Island	410 853	7

¹For the 2002 Economic Census, the definition of value of construction work has been modified from the 1997 Economic Census definition. See Appendix A for the modified definition.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 7. Value of Construction Work for Establishments by Type of Construction: 2002

[Thousand dollars unless otherwise noted. Detail may not add to total because of rounding. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, nonsampling error, and geographical definitions, see note at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

Type of construction	Value of construction work ¹				Relative standard error of estimate (percent) for column—			
	Total	New construction	Additions, alterations, or reconstruction	Maintenance and repair	A	B	C	D
	A	B	C	D	A	B	C	D
MASSACHUSETTS								
Total	31 325 634	19 480 424	8 311 980	3 533 230	1	2	2	2
Building construction, total	23 706 019	14 310 803	6 849 229	2 545 987	1	2	2	2
Single-family houses, detached and attached	5 710 449	3 340 541	1 655 352	714 556	3	5	5	4
Single-family houses, detached	4 958 758	3 033 950	1 356 246	568 562	4	5	6	5
Single-family houses, attached	751 691	306 591	299 106	145 994	7	8	12	9
Apartment buildings (2 or more units), such as rentals, apartment type condominiums and cooperatives	1 542 037	1 052 786	299 816	189 435	3	4	6	6
Dormitories and barracks	619 726	457 511	143 253	18 962	1	—	2	5
Manufacturing and industrial warehouses	694 001	415 772	181 703	96 526	5	5	7	10
Other manufacturing and light industrial buildings, such as factories, assembly plants, and industrial research laboratories	1 577 450	1 011 578	351 255	214 617	9	14	8	6
Hotels, motels, and tourist cabins	1 151 710	928 484	170 524	52 702	6	5	31	11
Office buildings	3 389 677	1 898 340	1 126 286	365 051	2	2	3	4
Stores, restaurants, and automobile service stations, and other commercial buildings	2 254 952	1 049 569	799 089	406 294	4	4	11	4
Commercial warehouses such as distribution buildings and mini-storage	460 890	349 347	73 047	38 496	8	10	8	9
Religious buildings	296 409	94 475	128 367	73 566	9	14	7	23
Educational buildings	3 534 947	2 172 009	1 197 611	165 327	3	4	3	5
Health care and institutional buildings	1 349 562	752 040	464 082	133 441	3	4	3	8
Public safety buildings such as prisons, police, and fire stations	320 086	187 271	114 259	18 556	3	3	4	11
Amusement, social, and recreational buildings	594 221	428 788	119 718	45 715	3	2	12	7
Other building construction	209 901	172 291	24 867	12 743	5	6	3	12
Nonbuilding construction, total	6 521 731	4 071 736	1 462 751	987 243	2	2	3	7
Highways, streets, and related work, such as installation of guardrails and signs	1 073 544	477 694	417 887	177 962	5	5	4	22
Private driveways and parking areas	356 106	188 891	108 951	58 263	20	18	30	⁵ 40
Bridges and elevated highways	1 205 938	698 514	326 328	181 096	1	1	1	1
Tunnels	552 216	518 571	24 573	9 071	1	1	—	—
Sewers, water mains, and related facilities	866 501	586 158	100 059	180 284	7	8	7	16
Sewers, sewer lines, septic systems, and related facilities	474 213	293 156	57 993	123 064	8	6	11	21
Water mains, storage, and related facilities	392 288	293 002	42 066	57 221	12	14	9	25
Power and communication transmission lines, cables, towers, and related facilities	386 557	200 097	105 919	80 541	9	4	7	⁵ 40
Power plants	351 700	226 573	48 784	76 343	6	4	26	6
Sewage and water treatment plants	371 248	267 372	80 259	23 616	3	4	3	10
Other nonbuilding construction	1 357 921	907 864	249 992	200 065	7	9	12	9
Construction work, nsk	1 097 884	1 097 884	—	—	—	—	—	—

¹For the 2002 Economic Census, the definition of value of construction work has been modified from the 1997 Economic Census definition. See Appendix A for the modified definition.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 8. Value of Business Done for Establishments by Kind-of-Business Activity: 2002

[Thousand dollars unless otherwise noted. Detail may not add to total because of rounding. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, nonsampling error, and geographical definitions, see note at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

Primary and other kind of business activities	Value of business done ¹	Relative standard error of estimate (percent)
MASSACHUSETTS		
Total	31 547 604	1
Building construction, total	11 881 879	3
Building construction on land owned by you, for sale	930 847	10
Building construction on land owned by others	6 115 960	4
Remodeling contractor	1 597 002	4
Construction management, at risk (for building construction)	2 775 498	5
Construction management, agency or fee only (for building construction)	462 573	3
Heavy construction and civil engineering construction, total	4 497 606	3
Subdividing and servicing of raw land into lots, for sale by you	409 624	18
Highway and street general contractor	631 772	5
Heavy construction contractor, such as bridges, tunnels, pipelines, and utility lines	3 038 420	2
Excavation work, earthmoving or land clearing contractor, not connected with buildings	417 790	11
Special trade contractors, total	7 199 921	3
Heating, ventilation and air-conditioning contractor (HVAC)	1 396 908	3
Mechanical contractor	781 197	2
Plumbing contractor	904 479	5
Painting contractor	407 922	15
Electric power installation and service contractor, including lighting	1 690 602	3
Masonry contractor, brick, block, or stone (except brick paving)	354 899	9
Finish carpentry contractor	704 522	9
Concrete Contractor (except paving or foundation)	347 789	6
Excavation work: earthmoving or land clearing contractor, connected with buildings	611 601	7
All other construction activities	6 651 163	3
Other business activities secondary to construction activities, total	219 151	6
All other business activities secondary to construction activities	219 151	6
Kind of business activity, nsk	1 097 884	15

¹For the 2002 Economic Census, the definition of value of construction work has been modified from the 1997 Economic Census definition. See Appendix A for the modified definition.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.