

Michigan: 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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-- Not applicable for this report.

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	
MICHIGAN											
23	Construction	26 014	219 032	161 667	151 529	165 263	171 042	158 834	8 108 488	5 677 748	1
236	Construction of buildings	8 512	54 259	36 080	34 296	37 177	37 468	35 379	1 880 613	1 078 570	3
2361	Residential building construction ..	7 134	30 819	19 962	19 104	20 838	20 512	19 394	948 527	501 934	4
23611	Residential building construction ..	7 134	30 819	19 962	19 104	20 838	20 512	19 394	948 527	501 934	4
236115	New single-family housing construction (except operative builders)	2 580	11 165	7 868	7 204	8 165	8 258	7 847	320 792	184 591	7
236116	New multifamily housing construction (except operative builders)	195	1 061	664	727	667	654	606	33 724	19 873	17
236117	New housing operative builders	1 096	5 756	3 072	3 072	3 232	3 065	2 917	214 579	92 590	8
236118	Residential remodelers	3 264	12 837	8 359	8 101	8 774	8 535	8 024	379 433	204 880	6
2362	Nonresidential building construction	1 378	23 440	16 118	15 192	16 339	16 956	15 985	932 086	576 636	3
23621	Industrial building construction ..	141	4 705	3 796	3 682	3 938	3 939	3 624	206 911	140 437	4
236210	Industrial building construction ..	141	4 705	3 796	3 682	3 938	3 939	3 624	206 911	140 437	4
23622	Commercial and institutional building construction	1 237	18 735	12 322	11 510	12 401	13 017	12 361	725 175	436 199	3
236220	Commercial and institutional building construction	1 237	18 735	12 322	11 510	12 401	13 017	12 361	725 175	436 199	3
237	Heavy and civil engineering construction	1 472	28 074	20 642	18 383	21 546	22 360	20 281	1 197 547	861 466	4
2371	Utility system construction	720	13 876	10 203	9 566	10 618	10 660	9 968	602 264	438 347	6
23711	Water and sewer line and related structures construction	487	5 704	4 159	3 769	4 308	4 429	4 133	239 753	171 144	7
237110	Water and sewer line and related structures construction	487	5 704	4 159	3 769	4 308	4 429	4 133	239 753	171 144	7
23712	Oil and gas pipeline and related structures construction	^s 47	1 959	1 743	^s 1 474	1 764	1 857	1 877	86 540	71 698	36
237120	Oil and gas pipeline and related structures construction	^s 47	1 959	1 743	^s 1 474	1 764	1 857	1 877	86 540	71 698	36
23713	Power and communication line and related structures construction	186	6 213	4 301	4 323	4 546	4 374	3 959	275 972	195 505	6
237130	Power and communication line and related structures construction	186	6 213	4 301	4 323	4 546	4 374	3 959	275 972	195 505	6
2372	Land subdivision	185	854	333	362	356	322	295	39 956	13 605	12
23721	Land subdivision	185	854	333	362	356	322	295	39 956	13 605	12
237210	Land subdivision	185	854	333	362	356	322	295	39 956	13 605	12
2373	Highway, street, and bridge construction	373	10 459	8 038	6 650	8 418	9 168	7 915	428 905	323 460	4
23731	Highway, street, and bridge construction	373	10 459	8 038	6 650	8 418	9 168	7 915	428 905	323 460	4
237310	Highway, street, and bridge construction	373	10 459	8 038	6 650	8 418	9 168	7 915	428 905	323 460	4
2379	Other heavy and civil engineering construction	194	2 885	2 068	1 805	2 154	2 209	2 103	126 421	86 055	11
23799	Other heavy and civil engineering construction	194	2 885	2 068	1 805	2 154	2 209	2 103	126 421	86 055	11
237990	Other heavy and civil engineering construction ..	194	2 885	2 068	1 805	2 154	2 209	2 103	126 421	86 055	11
238	Specialty trade contractors	16 030	136 700	104 945	98 851	106 540	111 214	103 173	5 030 329	3 737 712	2
2381	Foundation, structure, and building exterior contractors	4 487	38 469	31 255	28 402	32 203	33 899	30 518	1 216 426	924 618	4
23811	Poured concrete foundation and structure contractors	1 318	10 761	8 940	7 524	9 365	10 032	8 839	361 241	273 708	7
238110	Poured concrete foundation and structure contractors ..	1 318	10 761	8 940	7 524	9 365	10 032	8 839	361 241	273 708	7
23812	Structural steel and precast concrete contractors	95	2 004	1 700	1 791	1 811	1 771	1 425	80 073	64 033	15
238120	Structural steel and precast concrete contractors	95	2 004	1 700	1 791	1 811	1 771	1 425	80 073	64 033	15
23813	Framing contractors	710	5 862	4 933	5 121	5 057	4 970	4 586	168 119	132 344	9
238130	Framing contractors	710	5 862	4 933	5 121	5 057	4 970	4 586	168 119	132 344	9
23814	Masonry contractors	1 048	8 283	6 859	5 903	6 896	7 624	7 011	273 195	223 298	9
238140	Masonry contractors	1 048	8 283	6 859	5 903	6 896	7 624	7 011	273 195	223 298	9
23815	Glass and glazing contractors ..	174	1 632	1 104	1 102	1 063	1 116	1 135	60 431	38 528	16
238150	Glass and glazing contractors	174	1 632	1 104	1 102	1 063	1 116	1 135	60 431	38 528	16
23816	Roofing contractors	820	7 624	5 997	5 351	6 176	6 511	5 951	203 387	144 652	11
238160	Roofing contractors	820	7 624	5 997	5 351	6 176	6 511	5 951	203 387	144 652	11
23817	Siding contractors	242	1 861	1 385	1 324	1 437	1 520	1 258	55 417	37 651	21
238170	Siding contractors	242	1 861	1 385	1 324	1 437	1 520	1 258	55 417	37 651	21

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	
MICHIGAN—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...	79	441	338	286	397	356	314	14 563	10 405	22
238190	Other foundation, structure, and building exterior contractors	79	441	338	286	397	356	314	14 563	10 405	22
2382	Building equipment contractors ...	5 234	58 488	43 569	42 694	43 296	45 364	42 923	2 498 613	1 848 774	2
23821	Electrical Contractors	1 987	22 113	16 727	16 094	16 356	17 944	16 514	961 854	728 662	4
238210	Electrical Contractors	1 987	22 113	16 727	16 094	16 356	17 944	16 514	961 854	728 662	4
23822	Plumbing, heating, and air-conditioning contractors	3 051	31 884	23 472	23 328	23 508	24 008	23 044	1 319 863	957 980	3
238220	Plumbing, heating, and air-conditioning contractors	3 051	31 884	23 472	23 328	23 508	24 008	23 044	1 319 863	957 980	3
23829	Other building equipment contractors	197	4 491	3 370	3 272	3 432	3 412	3 366	216 896	162 133	4
238290	Other building equipment contractors	197	4 491	3 370	3 272	3 432	3 412	3 366	216 896	162 133	4
2383	Building finishing contractors	3 859	23 567	17 853	17 091	18 161	18 801	17 359	756 776	557 640	5
23831	Drywall and insulation contractors	601	7 407	6 062	6 016	6 202	6 200	5 832	257 982	205 092	8
238310	Drywall and insulation contractors	601	7 407	6 062	6 016	6 202	6 200	5 832	257 982	205 092	8
23832	Painting and wall covering contractors	1 247	6 302	4 709	4 096	4 829	5 358	4 552	181 888	129 793	10
238320	Painting and wall covering contractors	1 247	6 302	4 709	4 096	4 829	5 358	4 552	181 888	129 793	10
23833	Flooring contractors	366	2 031	1 317	1 241	1 373	1 358	1 296	68 016	43 129	15
238330	Flooring contractors	366	2 031	1 317	1 241	1 373	1 358	1 296	68 016	43 129	15
23834	Tile and terrazzo contractors	217	1 091	808	819	760	857	796	40 887	27 361	10
238340	Tile and terrazzo contractors	217	1 091	808	819	760	857	796	40 887	27 361	10
23835	Finish carpentry contractors ...	1 319	5 629	4 225	4 089	4 344	4 319	4 147	168 349	124 817	9
238350	Finish carpentry contractors ..	1 319	5 629	4 225	4 089	4 344	4 319	4 147	168 349	124 817	9
23839	Other building finishing contractors	108	1 107	732	830	653	709	735	39 656	27 447	18
238390	Other building finishing contractors	108	1 107	732	830	653	709	735	39 656	27 447	18
2389	Other specialty trade contractors .	2 450	16 175	12 267	10 664	12 881	13 151	12 373	558 513	406 679	5
23891	Site preparation contractors	1 328	9 040	6 963	5 943	7 383	7 538	6 990	325 127	247 101	6
238910	Site preparation contractors ..	1 328	9 040	6 963	5 943	7 383	7 538	6 990	325 127	247 101	6
23899	All other specialty trade contractors	1 122	7 135	5 304	4 721	5 498	5 612	5 383	233 386	159 578	10
238990	All other specialty trade contractors	1 122	7 135	5 304	4 721	5 498	5 612	5 383	233 386	159 578	10

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 sub-contracted out to others	Total rental costs	Capital expenditures, except land	Gross book value of depreciable assets, end-of-year
MICHIGAN											
23	Construction	1	36 536 275	36 094 747	26 800 774	17 388 942	9 853 360	9 293 972	585 816	694 276	5 681 477
236	Construction of buildings	1	15 075 447	14 947 116	8 426 898	4 919 388	3 635 841	6 520 218	92 491	122 020	858 231
2361	Residential building construction ..	2	7 255 819	7 210 856	4 721 893	2 434 499	2 332 357	2 488 963	39 673	70 309	447 947
23611	Residential building construction	2	7 255 819	7 210 856	4 721 893	2 434 499	2 332 357	2 488 963	39 673	70 309	447 947
236115	New single-family housing construction (except operative builders)	2	2 018 698	2 008 409	1 336 295	608 636	737 948	672 114	12 007	25 389	149 541
236116	New multifamily housing construction (except operative builders)	2	277 332	275 150	135 809	78 291	59 701	139 341	\$2 376	2 241	18 157
236117	New housing operative builders	1	3 150 439	3 125 634	1 999 914	981 874	1 042 845	1 125 720	9 276	16 013	115 518
236118	Residential remodelers	3	1 809 350	1 801 663	1 249 876	765 699	491 863	551 788	16 015	26 666	164 732
2362	Nonresidential building construction	1	7 819 629	7 736 261	3 705 006	2 484 889	1 303 485	4 031 255	52 818	51 711	410 284
23621	Industrial building construction ..	2	1 248 725	1 234 823	575 787	295 396	294 293	659 036	12 252	10 574	86 708
236210	Industrial building construction	2	1 248 725	1 234 823	575 787	295 396	294 293	659 036	12 252	10 574	86 708
23622	Commercial and institutional building construction	-	6 570 904	6 501 437	3 129 218	2 189 493	1 009 192	3 372 219	40 566	41 137	323 575
236220	Commercial and institutional building construction	-	6 570 904	6 501 437	3 129 218	2 189 493	1 009 192	3 372 219	40 566	41 137	323 575
237	Heavy and civil engineering construction	1	5 216 069	5 093 008	4 004 812	2 732 739	1 395 134	1 088 196	160 392	234 648	1 838 525
2371	Utility system construction	-	2 048 821	1 990 306	1 667 139	1 275 453	450 201	323 167	72 271	74 473	716 146
23711	Water and sewer line and related structures construction	1	1 060 391	1 056 834	841 788	528 765	316 580	215 046	37 175	35 816	428 723
237110	Water and sewer line and related structures construction	1	1 060 391	1 056 834	841 788	528 765	316 580	215 046	37 175	35 816	428 723
23712	Oil and gas pipeline and related structures construction	-	218 523	D	200 355	170 437	D	D	8 691	7 267	86 578
237120	Oil and gas pipeline and related structures construction	-	218 523	D	200 355	170 437	D	D	8 691	7 267	86 578
23713	Power and communication line and related structures construction	-	769 908	D	624 996	576 252	D	D	26 405	31 391	200 845
237130	Power and communication line and related structures construction	-	769 908	D	624 996	576 252	D	D	26 405	31 391	200 845
2372	Land subdivision	4	302 427	285 077	210 394	170 649	57 094	74 684	1 992	6 737	123 470
23721	Land subdivision	4	302 427	285 077	210 394	170 649	57 094	74 684	1 992	6 737	123 470
237210	Land subdivision	4	302 427	285 077	210 394	170 649	57 094	74 684	1 992	6 737	123 470
2373	Highway, street, and bridge construction	1	2 291 342	2 248 390	1 660 038	944 464	758 526	588 351	72 204	68 350	706 434
23731	Highway, street, and bridge construction	1	2 291 342	2 248 390	1 660 038	944 464	758 526	588 351	72 204	68 350	706 434
237310	Highway, street, and bridge construction	1	2 291 342	2 248 390	1 660 038	944 464	758 526	588 351	72 204	68 350	706 434
2379	Other heavy and civil engineering construction	4	573 479	569 235	467 241	342 172	129 313	101 994	13 925	85 087	292 476
23799	Other heavy and civil engineering construction	4	573 479	569 235	467 241	342 172	129 313	101 994	13 925	85 087	292 476
237990	Other heavy and civil engineering construction	4	573 479	569 235	467 241	342 172	129 313	101 994	13 925	85 087	292 476
238	Specialty trade contractors	1	16 244 758	16 054 622	14 369 064	9 736 816	4 822 385	1 685 558	332 934	337 608	2 984 722
2381	Foundation, structure, and building exterior contractors	1	4 026 000	3 996 138	3 621 252	2 372 915	1 278 199	374 886	77 867	83 089	723 232
23811	Poured concrete foundation and structure contractors	1	1 372 837	1 354 062	1 169 752	708 952	479 574	184 310	27 318	34 504	312 870
238110	Poured concrete foundation and structure contractors	1	1 372 837	1 354 062	1 169 752	708 952	479 574	184 310	27 318	34 504	312 870
23812	Structural steel and precast concrete contractors	1	204 683	D	190 938	140 964	D	D	6 154	4 847	45 699
238120	Structural steel and precast concrete contractors	1	204 683	D	190 938	140 964	D	D	6 154	4 847	45 699
23813	Framing contractors	-	503 817	502 916	442 889	339 093	104 697	60 026	6 391	8 988	49 243
238130	Framing contractors	-	503 817	502 916	442 889	339 093	104 697	60 026	6 391	8 988	49 243
23814	Masonry contractors	1	734 187	731 885	699 739	497 712	204 329	32 146	14 113	16 703	145 645
238140	Masonry contractors	1	734 187	731 885	699 739	497 712	204 329	32 146	14 113	16 703	145 645
23815	Glass and glazing contractors ..	1	218 977	214 482	203 469	117 197	90 767	11 013	4 916	1 773	19 041
238150	Glass and glazing contractors	1	218 977	214 482	203 469	117 197	90 767	11 013	4 916	1 773	19 041
23816	Roofing contractors	1	778 257	775 148	718 776	445 992	275 892	56 372	14 399	11 700	120 045
238160	Roofing contractors	1	778 257	775 148	718 776	445 992	275 892	56 372	14 399	11 700	120 045
23817	Siding contractors	-	160 119	D	147 651	93 653	D	D	3 006	\$3 523	19 789
238170	Siding contractors	-	160 119	D	147 651	93 653	D	D	3 006	\$3 523	19 789
23819	Other foundation, structure, and building exterior contractors	-	53 125	52 875	48 039	29 351	18 938	4 836	1 572	1 050	\$10 900
238190	Other foundation, structure, and building exterior contractors	-	53 125	52 875	48 039	29 351	18 938	4 836	1 572	1 050	\$10 900

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
MICHIGAN—Con.											
23	Construction—Con.										
238	Specialty trade contractors—Con.										
2382	Building equipment contractors . . .	1	7 774 148	7 697 528	6 942 747	4 740 388	2 278 979	754 781	138 746	121 801	951 703
23821	Electrical Contractors	1	2 716 698	2 690 248	2 526 699	1 755 477	797 671	163 549	49 190	50 116	349 953
238210	Electrical Contractors	1	2 716 698	2 690 248	2 526 699	1 755 477	797 671	163 549	49 190	50 116	349 953
23822	Plumbing, heating, and air-conditioning contractors	1	4 369 139	4 334 221	3 841 264	2 537 953	1 338 229	492 957	72 150	61 295	517 421
238220	Plumbing, heating, and air-conditioning contractors	1	4 369 139	4 334 221	3 841 264	2 537 953	1 338 229	492 957	72 150	61 295	517 421
23829	Other building equipment contractors	1	688 311	673 059	574 784	446 957	143 079	98 275	17 406	10 390	84 329
238290	Other building equipment contractors	1	688 311	673 059	574 784	446 957	143 079	98 275	17 406	10 390	84 329
2383	Building finishing contractors	1	2 336 299	2 309 119	1 975 798	1 353 400	649 579	333 321	38 828	32 005	262 997
23831	Drywall and insulation contractors	—	849 422	846 474	661 427	449 375	215 000	185 047	11 650	6 758	65 794
238310	Drywall and insulation contractors	—	849 422	846 474	661 427	449 375	215 000	185 047	11 650	6 758	65 794
23832	Painting and wall covering contractors	2	496 576	486 504	454 303	343 152	121 223	32 201	10 815	11 194	89 748
238320	Painting and wall covering contractors	2	496 576	486 504	454 303	343 152	121 223	32 201	10 815	11 194	89 748
23833	Flooring contractors	3	240 764	238 718	210 161	126 825	85 381	28 558	3 644	2 421	19 078
238330	Flooring contractors	3	240 764	238 718	210 161	126 825	85 381	28 558	3 644	2 421	19 078
23834	Tile and terrazzo contractors	1	120 492	D	113 948	75 900	D	D	1 808	942	13 745
238340	Tile and terrazzo contractors	1	120 492	D	113 948	75 900	D	D	1 808	942	13 745
23835	Finish carpentry contractors	2	535 223	524 483	447 615	292 981	165 373	76 868	9 013	8 774	63 852
238350	Finish carpentry contractors	2	535 223	524 483	447 615	292 981	165 373	76 868	9 013	8 774	63 852
23839	Other building finishing contractors	—	93 823	D	88 345	65 166	D	D	1 899	1 916	10 780
238390	Other building finishing contractors	—	93 823	D	88 345	65 166	D	D	1 899	1 916	10 780
2389	Other specialty trade contractors	1	2 108 311	2 051 837	1 829 267	1 270 113	615 628	222 570	77 493	100 714	1 046 790
23891	Site preparation contractors	1	1 200 895	1 171 530	1 055 805	784 710	300 460	115 725	48 182	66 281	744 857
238910	Site preparation contractors	1	1 200 895	1 171 530	1 055 805	784 710	300 460	115 725	48 182	66 281	744 857
23899	All other specialty trade contractors	1	907 416	880 307	773 462	485 403	315 167	106 846	29 310	34 433	301 932
238990	All other specialty trade contractors	1	907 416	880 307	773 462	485 403	315 167	106 846	29 310	34 433	301 932

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)
MICHIGAN		
All establishments	number.. 26 014	2
All employees	number.. 219 032	1
Construction workers in March	number.. 151 529	1
Construction workers in May	number.. 165 263	1
Construction workers in August	number.. 171 042	1
Construction workers in November	number.. 158 834	2
Average number of construction workers	number.. 161 667	1
Other employees in March	number.. 59 117	2
Other employees in May	number.. 55 452	2
Other employees in August	number.. 57 424	2
Other employees in November	number.. 57 468	2
Average number of other employees	number.. 57 365	2
Total payroll	\$1,000.. 8 108 488	1
Construction workers	\$1,000.. 5 677 748	1
Other employees	\$1,000.. 2 430 740	1
First-quarter payroll, all employees	\$1,000.. 1 840 259	1
Fringe benefits, all employees	\$1,000.. 2 194 332	1
Legally required expenditures	\$1,000.. 1 171 589	1
Voluntary expenditures	\$1,000.. 1 022 743	1
Value of business done ¹	\$1,000.. 36 536 275	1
Value of construction work ¹	\$1,000.. 36 094 747	1
Value of construction work on government owned projects	\$1,000.. 8 079 790	2
Value of construction work on federally owned projects	\$1,000.. 1 331 288	3
Value of construction work on state and locally owned projects	\$1,000.. 6 748 501	2
Value of construction work on privately owned projects	\$1,000.. 28 014 957	1
Other business receipts	\$1,000.. 441 528	4
Value of construction work subcontracted in from others	\$1,000.. 12 894 262	1
Net value of construction work	\$1,000.. 26 800 774	1
Value added	\$1,000.. 17 388 942	1
Selected costs	\$1,000.. 19 147 332	2
Materials, parts, and supplies	\$1,000.. 9 332 305	2
Construction work subcontracted out to others	\$1,000.. 9 293 972	2
Selected power, fuels, and lubricants	\$1,000.. 521 055	2
Purchased electricity	\$1,000.. 81 866	3
Natural gas and manufactured gas	\$1,000.. 40 273	3
Gasoline and diesel fuel	\$1,000.. 373 727	2
On-highway use of gasoline and diesel fuel	\$1,000.. 276 419	2
Off-highway use of gasoline and diesel fuel	\$1,000.. 97 308	3
All other fuels and lubricants	\$1,000.. 25 190	2
Total rental costs	\$1,000.. 585 816	2
Machinery and equipment	\$1,000.. 374 864	2
Buildings	\$1,000.. 210 952	2
Selected purchased services	\$1,000.. 1 069 786	2
Communication services	\$1,000.. 290 143	2
Repairs to buildings and other structures	\$1,000.. 158 202	3
Repairs to machinery and equipment	\$1,000.. 311 635	3
Legal services	\$1,000.. 55 230	5
Accounting, auditing, and bookkeeping services	\$1,000.. 115 480	9
Advertising and promotional services	\$1,000.. 139 097	6
Beginning-of-year gross book value of depreciable assets	\$1,000.. 5 196 396	2
Capital expenditures, other than land	\$1,000.. 694 276	3
Retirements and disposition of depreciable assets	\$1,000.. 209 194	4
End-of-year gross book value of depreciable assets	\$1,000.. 5 681 477	2
Depreciation charges during year	\$1,000.. 615 519	3
Establishments with inventories	number.. 4 874	—
Value of construction work for establishments with inventories	\$1,000.. 10 866 762	—
End-of-2002, inventories of materials and supplies	\$1,000.. 479 424	8
End-of-2001, inventories of materials and supplies	\$1,000.. 481 644	8
Establishments with no inventories	number.. 19 482	—
Value of construction work for establishments with no inventories	\$1,000.. 23 547 793	—
Establishments not reporting inventories	number.. 1 658	—
Value of construction work for establishments not reporting inventores	\$1,000.. 1 680 192	—

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
MICHIGAN											
All establishments	1	26 014	219 032	8 108 488	36 536 275	36 094 747	26 800 774	17 388 942	9 853 360	9 293 972	1
Establishments with—											
1 to 4 employees	2	15 639	32 856	787 963	4 671 730	4 628 518	3 523 008	2 060 364	1 505 856	1 105 510	4
5 to 9 employees	2	5 580	34 718	1 049 490	4 523 760	4 482 788	3 568 141	2 245 833	1 363 281	914 646	4
10 to 19 employees	2	2 693	35 420	1 196 288	4 744 935	4 676 864	3 701 140	2 414 568	1 354 643	975 724	5
20 to 49 employees	1	1 502	44 373	1 872 714	7 389 945	7 250 609	5 520 011	3 545 040	2 114 307	1 730 598	3
50 to 99 employees	—	382	25 702	1 138 980	5 310 106	5 255 419	3 674 138	2 469 334	1 259 491	1 581 281	2
100 to 249 employees	—	176	24 442	1 131 563	4 942 801	4 910 319	3 628 083	2 555 801	1 104 765	1 282 235	2
250 to 499 employees	1	30	10 091	441 620	2 865 110	2 844 416	2 030 171	1 311 229	739 636	814 245	—
500 to 999 employees	1	9	5 608	315 499	1 398 922	1 398 566	812 520	533 651	279 225	586 046	—
1,000 employees or more	—	4	5 823	174 372	688 965	647 248	343 561	253 122	132 156	303 687	—

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
MICHIGAN											
All establishments	1	26 014	219 032	8 108 488	36 536 275	36 094 747	26 800 774	17 388 942	9 853 360	9 293 972	1
Establishments with value of business done—											
Less than \$25,000	3	231	262	1 690	4 569	4 569	4 389	3 610	779	\$181	28
\$25,000 to \$49,999	4	984	1 199	12 494	37 442	36 670	32 016	23 635	9 153	4 654	14
\$50,000 to \$99,999	5	2 875	4 412	57 772	214 594	214 266	185 944	119 419	66 853	28 322	9
\$100,000 to \$249,999	3	6 642	16 725	337 373	1 108 897	1 098 583	974 047	630 574	353 786	124 536	5
\$250,000 to \$499,999	2	5 769	22 466	553 554	2 035 706	2 020 150	1 747 784	1 115 204	648 136	272 366	5
\$500,000 to \$999,999	3	3 968	26 027	771 735	2 829 388	2 809 481	2 402 052	1 540 787	881 172	407 429	5
\$1,000,000 to \$2,499,999	2	3 135	36 233	1 267 185	4 869 784	4 807 091	3 943 837	2 483 372	1 523 157	863 254	5
\$2,500,000 to \$4,999,999	1	1 166	25 803	1 071 899	4 075 328	4 015 886	3 220 942	2 095 667	1 184 717	794 944	5
\$5,000,000 to \$9,999,999	1	710	24 923	1 144 049	4 818 247	4 760 475	3 650 396	2 311 553	1 396 615	1 110 080	4
\$10,000,000 or more	—	534	60 983	2 890 736	16 542 321	16 327 574	10 639 369	7 065 123	3 788 993	5 688 206	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)
MICHIGAN		
Total	36 094 747	1
Construction work done in Illinois	184 175	1
Construction work done in Indiana	116 677	5
Construction work done in Michigan	34 434 806	1
Construction work done in Ohio	223 726	10
Construction work done in Pennsylvania	88 750	1
Construction work done in Wisconsin	76 367	12

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
MICHIGAN								
Total	36 094 747	22 603 431	8 642 205	4 849 111	1	2	2	2
Building construction, total	27 968 308	17 387 858	6 958 449	3 622 000	1	2	2	2
Single-family houses, detached and attached	10 136 416	7 107 860	1 820 873	1 207 683	3	4	4	4
Single-family houses, detached	8 789 191	6 088 521	1 625 524	1 075 146	3	4	5	5
Single-family houses, attached	1 347 225	1 019 339	195 349	132 537	9	12	9	7
Apartment buildings (2 or more units), such as rentals, apartment type condominiums and cooperatives	969 416	637 211	163 039	169 167	5	7	12	8
Manufacturing and industrial warehouses	1 388 863	797 415	388 370	203 078	3	3	8	7
Other manufacturing and light industrial buildings, such as factories, assembly plants, and industrial research laboratories	2 863 382	1 176 672	944 719	741 991	4	4	9	3
Hotels, motels, and tourist cabins	298 218	208 041	49 595	40 582	13	18	5	7
Office buildings	2 906 109	1 789 085	771 461	345 563	2	2	3	5
Stores, restaurants, and automobile service stations, and other commercial buildings	2 674 358	1 610 585	714 228	349 545	2	3	4	6
Commercial warehouses such as distribution buildings and mini-storage	527 391	336 493	133 801	57 097	5	3	14	9
Religious buildings	636 600	364 613	191 892	80 095	8	13	5	5
Educational buildings	2 927 469	1 813 788	882 940	230 741	3	3	4	6
Health care and institutional buildings	1 436 492	791 224	535 297	109 971	5	8	3	4
Public safety buildings such as prisons, police, and fire stations	326 974	201 820	97 965	27 190	6	4	14	9
Amusement, social, and recreational buildings	440 035	238 050	183 712	18 274	6	7	9	17
Other building construction	436 584	315 002	80 558	41 024	8	9	14	9
Nonbuilding construction, total	6 748 729	3 837 863	1 683 756	1 227 110	2	3	2	6
Highways, streets, and related work, such as installation of guardrails and signs	1 753 731	972 865	544 119	236 747	3	4	4	9
Private driveways and parking areas	587 943	365 920	122 199	99 824	7	9	8	13
Bridges and elevated highways	328 873	123 522	126 454	78 897	9	2	3	36
Sewers, water mains, and related facilities	1 383 381	923 078	258 426	201 877	5	5	4	16
Sewers, sewer lines, septic systems, and related facilities	854 656	588 369	150 036	116 251	7	7	6	25
Water mains, storage, and related facilities	528 725	334 709	108 390	85 626	5	5	5	15
Oil and gas pipelines (except gathering), pumping stations, storage tanks, and mains	217 462	161 855	21 030	*34 577	28	34	7	*46
Power and communication transmission lines, cables, towers, and related facilities	644 624	323 608	139 015	182 002	5	5	2	12
Sewage and water treatment plants	493 936	254 627	201 563	37 746	2	3	2	4
Sewage treatment plants	237 423	127 219	92 532	17 672	2	2	4	8
Water treatment plants	256 512	127 408	109 031	20 073	3	6	2	5
Other nonbuilding construction	1 338 779	712 388	270 949	355 441	7	9	4	15
Construction work, nsk	1 377 710	1 377 710	—	—	—	—	—	—

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)
MICHIGAN		
Total	36 536 275	1
Building construction, total	13 390 671	3
Building construction on land owned by you	2 717 089	8
Building construction on land owned by others	5 901 924	3
Remodeling contractor	1 809 509	4
Construction management, at risk (for building construction)	1 301 359	4
Construction management, agency or fee only (for building construction)	1 660 791	8
Heavy construction and civil engineering construction, total	4 951 519	2
Subdividing and servicing of raw land into lots, for sale by you	302 571	14
Highway and street general contractor	1 019 163	3
Paving contractor -- asphalt or concrete for highways, streets, bridges, or airport runways	558 196	5
Heavy construction contractor, such as bridges, tunnels, pipelines, and utility lines	1 639 786	5
Cable and conduit laying contractor	643 157	5
Excavation work, earthmoving or land clearing contractor, not connected with buildings	788 646	6
Special trade contractors, total	12 418 966	2
Heating, ventilation and air-conditioning contractor (HVAC)	1 512 442	3
Building sprinkler system installation contractor	208 660	8
Mechanical contractor	1 042 640	4
Plumbing contractor	1 107 379	7
Painting contractor	411 042	9
Electric power installation and service contractor, including lighting	1 936 767	3
Telecommunications installation and service contractor (except transmission lines)	287 645	12
Masonry contractor, brick, block, or stone (except brick paving)	591 291	9
Drywall contractor	523 796	10
Finish carpentry contractor	617 928	7
Framing contractor, except steel	459 042	9
Roofing contractor, except sheet metal	594 946	10
Asphalt, concrete, and brick paving contractor, residential or commercial driveways and parking areas	504 805	10
Foundation contractor, concrete	416 670	12
Concrete Contractor (except paving or foundation)	827 029	7
Glass, glazing, and tinting contractor	206 149	9
Excavation work: earthmoving or land clearing contractor, connected with buildings	772 016	7
Millwright and machine rigging contractor	398 719	3
All other construction activities	3 960 719	3
Other business activities secondary to construction activities, total	436 650	4
All other business activities secondary to construction activities	436 650	4
Kind of business activity, nsk	1 377 750	12

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.

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