

# Michigan: 2002

Issued September 2005

EC02-31A-MI (RV)

## 2002 Economic Census

*Manufacturing*

Geographic Area Series



**USCENSUSBUREAU**

*Helping You Make Informed Decisions*

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



## CONTENTS

---

Introduction to the Economic Census .....	v
Manufacturing .....	ix
Tables	
1. Industry Statistics for the State: 2002 .....	1
2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002 .....	15
3. Industry Statistics for Counties: 2002 .....	95
4. Industry Statistics for Places: 2002 .....	126
5. Detailed Statistics for the State: 2002 .....	166
Appendixes	
A. Explanation of Terms .....	A-1
B. NAICS Codes, Titles, and Descriptions .....	B-1
C. Methodology .....	C-1
D. Geographic Notes .....	D-1
E. Metropolitan Areas and Micropolitan Statistical Areas .....	E-1

**Table 1. Industry Statistics for the State: 2002**

[Includes data for industry groups and industries with 100 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>MICHIGAN</b>													
31-33	Manufacturing .....	-	'15 193	'5 146	'736 259	'33 171 232	'549 621	'1 087 100	'22 571 995	'97 575 395	'124 086 616	'221 433 262	'5 699 658
311	Food manufacturing .....	1	885	228	30 582	'1 042 543	22 533	45 204	'694 734	5 280 538	4 973 633	10 237 545	310 211
3111	Animal food manufacturing .....	2	31	6	407	13 823	263	475	7 419	30 152	135 660	165 026	1 714
31111	Animal food manufacturing ....	2	31	6	407	13 823	263	475	7 419	30 152	135 660	165 026	1 714
311119	Other animal food manufacturing .....	2	27	5	e	D	D	D	D	D	D	D	D
3112	Grain and oilseed milling .....	1	22	13	2 952	164 066	2 380	5 075	124 533	951 040	465 039	1 408 215	80 148
31121	Flour milling and malt manufacturing .....	-	12	6	543	23 255	405	805	14 044	82 503	102 922	185 205	2 684
311211	Flour milling .....	-	12	6	543	23 255	405	805	14 044	82 503	102 922	185 205	2 684
31123	Breakfast cereal manufacturing .....	2	7	6	2 354	138 460	1 931	4 182	108 848	865 105	336 898	1 193 953	77 187
311230	Breakfast cereal manufacturing .....	2	7	6	2 354	138 460	1 931	4 182	108 848	865 105	336 898	1 193 953	77 187
3113	Sugar and confectionery product manufacturing .....	-	70	9	1 857	62 048	1 515	3 060	45 273	428 441	246 773	677 006	11 866
31131	Sugar manufacturing .....	2	6	2	453	16 703	366	787	11 483	63 584	82 956	145 680	D
311313	Beet sugar manufacturing ...	2	6	2	453	16 703	366	787	11 483	63 584	82 956	145 680	D
31133	Confectionery manufacturing from purchased chocolate ...	6	48	3	269	7 237	174	337	4 710	22 504	17 579	41 936	D
311330	Confectionery manufacturing from purchased chocolate ..	6	48	3	269	7 237	174	337	4 710	22 504	17 579	41 936	D
31134	Nonchocolate confectionery manufacturing .....	-	11	4	1 125	37 794	968	1 922	28 843	341 123	145 117	487 031	2 928
311340	Nonchocolate confectionery manufacturing .....	-	11	4	1 125	37 794	968	1 922	28 843	341 123	145 117	487 031	2 928
3114	Fruit and vegetable preserving and specialty food manufacturing .....	1	65	39	3 897	118 519	3 207	6 227	81 594	477 849	465 774	946 198	46 905
31141	Frozen food manufacturing ....	1	27	16	1 392	42 636	1 160	2 359	29 540	161 437	136 056	297 498	23 656
311411	Frozen fruit, juice, and vegetable manufacturing ...	-	14	10	728	16 544	641	1 251	12 557	74 363	49 799	124 162	3 028
311412	Frozen specialty food manufacturing .....	1	13	6	664	26 092	519	1 108	16 983	87 074	86 257	173 336	20 628
31142	Fruit and vegetable canning, pickling, and drying .....	1	38	23	2 505	75 893	2 047	3 868	52 054	316 412	329 718	648 700	23 249
311421	Fruit and vegetable canning ..	-	29	16	1 498	43 908	1 202	2 441	27 984	213 185	207 229	422 736	13 286
311422	Specialty canning .....	-	6	4	720	24 912	611	1 158	18 956	88 909	66 727	155 636	D
311423	Dried and dehydrated food manufacturing .....	3	3	3	287	7 063	234	269	5 114	14 318	55 762	70 328	D
3115	Dairy product manufacturing .....	-	48	30	4 482	182 960	2 997	6 443	110 549	1 519 146	1 346 968	2 852 582	64 924
31151	Dairy product (except frozen) manufacturing .....	-	38	26	4 165	173 582	2 751	5 944	104 728	1 479 718	1 278 698	2 747 664	63 793
311511	Fluid milk manufacturing ....	-	18	13	2 346	94 137	1 452	3 128	50 506	412 150	631 395	1 046 147	34 387
311513	Cheese manufacturing .....	-	10	4	495	16 162	358	720	11 084	53 129	159 512	212 017	4 031
311514	Dry, condensed, and evaporated dairy product manufacturing .....	-	10	9	1 324	63 283	941	2 096	43 138	1 014 439	487 791	1 489 500	25 375
31152	Ice cream and frozen dessert manufacturing .....	-	10	4	317	9 378	246	499	5 821	39 428	68 270	104 918	1 131
311520	Ice cream and frozen dessert manufacturing .....	-	10	4	317	9 378	246	499	5 821	39 428	68 270	104 918	1 131
3116	Animal slaughtering and processing .....	1	103	34	6 632	184 501	5 494	11 551	136 884	474 724	1 444 868	1 938 739	59 752
31161	Animal slaughtering and processing .....	1	103	34	6 632	184 501	5 494	11 551	136 884	474 724	1 444 868	1 938 739	59 752
311611	Animal (except poultry) slaughtering .....	1	55	5	1 618	44 601	1 385	2 969	36 774	118 297	421 208	539 585	D
311612	Meat processed from carcasses .....	1	36	20	2 341	68 162	1 710	3 642	41 572	282 754	591 648	868 493	22 000
311613	Rendering and meat byproduct processing .....	-	5	3	208	8 197	131	309	4 236	24 750	16 642	41 387	D
311615	Poultry processing .....	-	7	6	2 465	63 541	2 268	4 631	54 302	48 923	415 370	489 274	25 747
3118	Bakeries and tortilla manufacturing .....	2	418	64	7 013	'207 706	4 322	7 959	'126 828	775 120	470 191	1 240 081	24 723
31181	Bread and bakery product manufacturing .....	2	389	56	6 097	'169 295	3 590	6 439	'96 752	577 799	302 374	877 082	15 550
311811	Retail bakeries .....	4	311	26	2 312	'85 534	1 187	1 682	'18 794	66 614	33 193	99 733	2 361
311812	Commercial bakeries .....	2	70	25	2 683	'88 562	1 426	2 721	40 674	312 941	116 741	428 694	7 468
311813	Frozen cakes, pies, and other pastries manufacturing .....	2	8	5	1 102	45 199	977	2 036	37 284	198 244	152 440	348 655	5 721
31182	Cookie, cracker, and pasta manufacturing .....	-	25	7	866	37 502	694	1 444	29 531	195 378	166 820	360 059	D
311821	Cookie and cracker manufacturing .....	-	7	1	e	D	D	D	D	D	D	D	D
311822	Flour mixes and dough manufacturing from purchased flour .....	-	13	6	e	D	D	D	D	D	D	D	D
3119	Other food manufacturing .....	2	121	33	3 298	107 685	2 317	4 343	60 785	620 812	392 818	1 000 902	20 044
31191	Snack food manufacturing .....	1	18	8	1 071	35 151	736	1 418	18 699	203 696	107 442	307 331	10 403
311911	Roasted nuts and peanut butter manufacturing .....	-	4	2	193	7 510	78	174	1 889	26 024	23 474	49 338	D
311919	Other snack food manufacturing .....	1	14	6	878	27 641	658	1 244	16 810	177 672	83 968	257 993	D

**Table 1. Industry Statistics for the State: 2002—Con.**

[Includes data for industry groups and industries with 100 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
		E <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)					Wages (\$1,000)
<b>MICHIGAN—Con.</b>													
311	Food manufacturing—Con.												
3119	Other food manufacturing—Con.												
31192	Coffee and tea manufacturing	1	7	3	e	D	D	D	D	D	D	1 144	
311920	Coffee and tea manufacturing	1	7	3	e	D	D	D	D	D	D	1 144	
31194	Seasoning and dressing manufacturing	2	22	5	852	29 133	648	1 187	18 187	206 188	100 795	305 457	D
311941	Mayonnaise, dressing, and other prepared sauce manufacturing	—	11	3	554	13 971	496	933	11 014	161 124	65 698	224 935	1 746
311942	Spice and extract manufacturing	8	11	2	298	15 162	152	254	7 173	45 064	35 097	80 522	D
31199	All other food manufacturing	3	72	16	1 071	32 655	832	1 580	22 027	171 192	161 232	331 340	4 807
311991	Perishable prepared food manufacturing	3	16	5	284	6 449	247	427	4 592	14 416	16 648	31 044	365
311999	All other miscellaneous food manufacturing	3	56	11	787	26 206	585	1 153	17 435	156 776	144 584	300 296	4 442
312	Beverage and tobacco product manufacturing	—	81	21	4 007	148 881	1 737	3 393	62 237	886 559	968 302	1 849 989	57 865
3121	Beverage manufacturing	—	80	21	h	D	D	D	D	D	D	D	D
31211	Soft drink and ice manufacturing	—	44	18	3 776	141 762	1 632	3 194	58 347	860 229	949 193	1 802 631	48 724
312111	Soft drink manufacturing	—	15	14	3 495	134 741	1 504	2 967	55 839	836 796	941 682	1 771 737	47 607
312113	Ice manufacturing	—	20	3	205	4 720	87	142	1 371	18 057	3 968	22 010	823
31212	Breweries	9	22	1	c	D	D	D	D	D	D	D	4 295
312120	Breweries	9	22	1	c	D	D	D	D	D	D	D	4 295
31213	Wineries	2	13	2	116	3 241	36	73	1 404	6 388	6 794	15 088	D
312130	Wineries	2	13	2	116	3 241	36	73	1 404	6 388	6 794	15 088	D
313	Textile mills	4	51	6	622	20 378	485	964	13 549	41 725	59 584	101 205	1 278
3132	Fabric mills	6	22	2	219	7 516	167	340	4 772	13 341	14 324	27 660	461
31323	Nonwoven fabric mills	2	2	1	c	D	D	D	D	D	D	D	D
313230	Nonwoven fabric mills	2	2	1	c	D	D	D	D	D	D	D	D
3133	Textile and fabric finishing and fabric coating mills	4	23	4	380	12 251	304	603	8 540	27 045	43 884	70 920	D
31331	Textile and fabric finishing mills	9	17	2	214	6 122	182	367	4 674	12 418	16 542	28 350	383
313311	Broadwoven fabric finishing mills	9	13	2	200	5 750	170	342	4 396	11 581	15 470	26 441	356
31332	Fabric coating mills	1	6	2	166	6 129	122	236	3 866	14 627	27 342	42 570	D
313320	Fabric coating mills	1	6	2	166	6 129	122	236	3 866	14 627	27 342	42 570	D
314	Textile product mills	3	200	23	2 288	61 177	1 669	3 052	35 393	124 674	126 542	248 038	4 223
3141	Textile furnishings mills	4	70	5	634	17 197	516	908	11 405	46 887	50 290	93 960	1 441
31411	Carpet and rug mills	5	8	3	269	9 663	212	474	6 610	32 048	35 857	64 745	606
314110	Carpet and rug mills	5	8	3	269	9 663	212	474	6 610	32 048	35 857	64 745	606
31412	Curtain and linen mills	2	62	2	365	7 534	304	434	4 795	14 839	14 433	29 215	835
314121	Curtain and drapery mills	3	55	—	190	3 831	154	263	2 157	6 915	6 065	12 943	D
314129	Other household textile product mills	—	7	2	175	3 703	150	171	2 638	7 924	8 368	16 272	D
3149	Other textile product mills	2	130	18	1 654	43 980	1 153	2 144	23 988	77 787	76 252	154 078	2 782
31491	Textile bag and canvas mills	4	68	9	606	15 803	487	864	10 096	27 668	32 047	59 089	349
314912	Canvas and related product mills	5	61	7	521	14 004	411	740	8 643	23 729	28 886	51 951	308
31499	All other textile product mills	1	62	9	1 048	28 177	666	1 280	13 892	50 119	44 205	94 989	2 433
314999	All other miscellaneous textile product mills	1	57	8	987	26 454	629	1 206	12 755	46 816	41 966	89 253	D
315	Apparel manufacturing	4	135	9	891	22 407	721	1 303	14 039	49 649	73 475	125 736	D
3152	Cut and sew apparel manufacturing	3	104	7	721	18 160	579	1 037	11 022	41 920	66 259	111 128	D
31521	Cut and sew apparel contractors	5	67	3	335	6 278	300	503	4 854	10 322	3 210	13 196	92
315212	Women's, girls', and infants' cut and sew apparel contractors	5	57	2	276	5 258	248	412	4 100	8 526	2 824	11 010	78
31522	Men's and boys' cut and sew apparel manufacturing	—	8	2	208	6 726	131	240	2 651	18 979	46 914	68 005	183
315223	Men's and boys' cut and sew shirt (except work shirt) manufacturing	—	2	1	c	D	D	D	D	D	D	D	D
31523	Women's and girls' cut and sew apparel manufacturing	8	21	1	107	3 471	87	162	2 307	9 481	12 526	21 978	D
3159	Apparel accessories and other apparel manufacturing	7	26	2	135	3 256	112	206	2 262	6 023	5 464	11 150	67
31599	Apparel accessories and other apparel manufacturing	7	26	2	135	3 256	112	206	2 262	6 023	5 464	11 150	67
315999	Other apparel accessories and other apparel manufacturing	8	24	2	c	D	D	D	D	D	D	D	D

**Table 1. Industry Statistics for the State: 2002—Con.**

[Includes data for industry groups and industries with 100 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>MICHIGAN—Con.</b>													
316	Leather and allied product manufacturing .....	—	'28	10	'2 019	'60 631	'1 679	'3 109	'44 375	'170 911	'460 904	'624 639	D
3161	Leather and hide tanning and finishing .....	—	9	5	1 217	42 478	954	1 742	29 920	137 386	378 769	508 561	2 027
31611	Leather and hide tanning and finishing .....	—	9	5	1 217	42 478	954	1 742	29 920	137 386	378 769	508 561	2 027
316110	Leather and hide tanning and finishing .....	—	9	5	1 217	42 478	954	1 742	29 920	137 386	378 769	508 561	2 027
3162	Footwear manufacturing .....	—	5	3	f	D	D	D	D	D	D	D	D
31621	Footwear manufacturing .....	—	5	3	f	D	D	D	D	D	D	D	D
316213	Men's footwear (except athletic) manufacturing .....	—	4	3	f	D	D	D	D	D	D	D	D
3169	Other leather and allied product manufacturing .....	'6	'14	2	c	D	D	D	D	D	D	D	D
31699	Other leather and allied product manufacturing .....	'6	'14	2	c	D	D	D	D	D	D	D	D
321	Wood product manufacturing .....	2	'579	162	'12 167	'367 356	'9 514	'18 625	'247 061	'821 283	'1 203 004	'2 014 509	'56 609
3211	Sawmills and wood preservation .....	2	159	36	2 340	71 619	1 959	4 051	55 097	147 499	399 783	545 406	21 996
32111	Sawmills and wood preservation .....	2	159	36	2 340	71 619	1 959	4 051	55 097	147 499	399 783	545 406	21 996
321113	Sawmills .....	3	148	32	2 137	65 794	1 800	3 718	51 181	128 303	321 917	449 231	17 864
321114	Wood preservation .....	—	11	4	203	5 825	159	333	3 916	19 196	77 866	96 175	4 132
3212	Veneer, plywood, and engineered wood product manufacturing .....	1	68	41	3 983	135 017	3 120	6 388	90 854	324 360	398 289	717 699	19 172
32121	Veneer, plywood, and engineered wood product manufacturing .....	1	68	41	3 983	135 017	3 120	6 388	90 854	324 360	398 289	717 699	19 172
321211	Hardwood veneer and plywood manufacturing .....	—	15	8	1 161	33 740	1 012	2 074	25 512	65 036	104 598	167 290	4 254
321214	Truss manufacturing .....	2	35	21	1 597	50 440	1 127	2 224	28 467	105 021	93 475	198 850	3 597
321219	Reconstituted wood product manufacturing .....	—	14	11	1 154	48 652	918	1 961	35 062	144 177	187 234	328 220	10 640
3219	Other wood product manufacturing .....	2	'352	85	'5 844	'160 720	'4 435	'8 186	'101 110	'349 424	'404 932	'751 404	'15 441
32191	Millwork .....	1	138	38	2 662	75 444	2 039	3 650	48 516	170 081	232 366	399 452	8 586
321911	Wood window and door manufacturing .....	1	41	13	917	27 485	677	1 314	17 413	76 530	62 242	138 477	4 301
321912	Cut stock, resawing lumber, and planing .....	1	30	7	570	15 385	447	837	10 352	31 528	84 835	115 601	1 443
321918	Other millwork (including flooring) .....	1	67	18	1 175	32 574	915	1 499	20 751	62 023	85 289	145 374	2 842
32192	Wood container and pallet manufacturing .....	4	107	22	1 363	31 679	1 127	2 131	22 137	57 972	71 133	129 220	2 431
321920	Wood container and pallet manufacturing .....	4	107	22	1 363	31 679	1 127	2 131	22 137	57 972	71 133	129 220	2 431
32199	All other wood product manufacturing .....	1	'107	25	'1 819	'53 597	'1 269	'2 405	'30 457	'121 371	'101 433	'222 732	'4 424
321992	Prefabricated wood building manufacturing .....	—	34	13	994	32 384	654	1 241	16 408	81 605	61 340	142 905	2 560
321999	All other miscellaneous wood product manufacturing .....	2	'65	10	'733	'18 341	'545	'1 031	'12 314	'34 971	'33 022	'68 011	'1 568
322	Paper manufacturing .....	—	198	132	16 152	701 143	12 062	24 894	454 599	2 209 273	2 419 565	4 648 878	133 625
3221	Pulp, paper, and paperboard mills .....	—	27	26	6 428	361 347	4 791	10 314	249 932	1 265 066	1 131 817	2 420 725	89 543
32212	Paper mills .....	—	16	15	h	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills .....	—	15	14	4 330	250 967	3 269	6 979	178 833	862 265	784 662	1 671 063	D
322122	Newsprint mills .....	—	1	1	c	D	D	D	D	D	D	D	D
32213	Paperboard mills .....	—	10	10	g	D	D	D	D	D	D	D	28 036
322130	Paperboard mills .....	—	10	10	g	D	D	D	D	D	D	D	28 036
3222	Converted paper product manufacturing .....	1	171	106	9 724	339 796	7 271	14 580	204 667	944 207	1 287 748	2 228 153	44 082
32221	Paperboard container manufacturing .....	1	108	73	6 851	237 714	5 154	10 214	143 690	638 753	827 068	1 465 988	35 022
322211	Corrugated and solid fiber box manufacturing .....	1	80	54	4 927	175 507	3 600	7 100	101 188	404 938	610 762	1 015 855	25 505
322212	Folding paperboard box manufacturing .....	1	13	10	762	31 232	612	1 276	21 724	74 932	101 482	174 238	4 368
322213	Setup paperboard box manufacturing .....	1	3	2	c	D	D	D	D	D	D	D	D
322214	Fiber can, tube, drum, and similar products manufacturing .....	6	9	4	c	D	D	D	D	D	D	D	463
322215	Nonfolding sanitary food container manufacturing .....	—	3	3	884	21 307	737	1 409	14 710	134 047	94 775	231 277	D
32222	Paper bag and coated and treated paper manufacturing .....	—	23	14	1 331	48 583	978	2 051	29 467	164 977	258 003	420 502	5 146
322221	Coated and laminated packaging paper and plastics film manufacturing .....	—	5	2	322	10 472	245	505	5 879	34 899	46 164	80 150	1 400
322222	Coated and laminated paper manufacturing .....	—	14	9	665	27 086	451	939	15 595	104 406	167 848	270 675	2 758
322223	Plastics, foil, and coated paper bag manufacturing .....	—	1	1	c	D	D	D	D	D	D	D	D
322224	Uncoated paper and multiwall bag manufacturing .....	—	1	1	c	D	D	D	D	D	D	D	D

**Table 1. Industry Statistics for the State: 2002—Con.**

[Includes data for industry groups and industries with 100 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
		E <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)					Wages (\$1,000)
<b>MICHIGAN—Con.</b>													
322	Paper manufacturing—Con.												
3222	Converted paper product manufacturing—Con.												
32223	Stationery product manufacturing	2	18	6	e	D	D	D	D	D	D	D	
322231	Die-cut paper and paperboard office supplies manufacturing	2	9	3	179	6 322	128	242	3 759	24 027	16 530	40 044	319
322232	Envelope manufacturing	2	6	3	176	6 894	111	249	3 365	16 078	20 405	36 316	327
32229	Other converted paper product manufacturing	2	22	13	g	D	D	D	D	D	D	D	D
322299	All other converted paper product manufacturing	1	19	12	1 125	37 818	848	1 717	22 597	90 486	153 963	243 638	D
323	Printing and related support activities	2	1 238	211	20 732	749 824	14 491	26 653	445 997	1 710 235	1 064 146	2 771 512	87 682
3231	Printing and related support activities	2	1 238	211	20 732	749 824	14 491	26 653	445 997	1 710 235	1 064 146	2 771 512	87 682
32311	Printing	2	1 121	195	19 351	696 025	13 552	24 876	415 539	1 578 867	1 034 397	2 610 264	80 732
323110	Commercial lithographic printing	1	510	111	10 154	383 716	7 104	12 839	229 553	916 196	630 579	1 544 962	44 877
323112	Commercial flexographic printing	—	29	10	1 095	48 403	697	1 498	24 172	98 124	82 563	180 544	5 406
323113	Commercial screen printing	1	149	13	1 745	51 546	1 286	1 986	28 792	102 088	55 063	154 825	D
323114	Quick printing	3	277	15	1 460	43 074	951	1 666	25 689	102 201	38 481	140 692	4 670
323115	Digital printing	4	17	6	e	D	D	D	D	D	D	D	1 742
323116	Manifold business forms printing	4	24	11	623	21 591	438	875	14 030	66 503	38 174	105 199	2 000
323117	Books printing	1	24	14	2 333	83 775	1 767	3 538	57 892	158 159	116 832	276 322	12 305
323118	Blankbook, looseleaf binders, and devices manufacturing	6	10	5	657	22 996	417	831	11 588	61 381	28 923	89 819	1 942
323119	Other commercial printing	3	79	9	752	23 359	494	865	13 505	43 620	26 329	69 832	3 119
32312	Support activities for printing	1	117	16	1 381	53 799	939	1 777	30 458	131 368	29 749	161 248	6 950
323121	Tradebinding and related work	5	23	3	298	5 860	239	410	4 152	16 653	5 467	21 940	595
323122	Prepress services	1	94	13	1 083	47 939	700	1 367	26 306	114 715	24 282	139 308	6 355
324	Petroleum and coal products manufacturing	—	73	22	1 810	92 736	984	1 943	44 174	426 102	1 169 808	1 557 549	43 809
3241	Petroleum and coal products manufacturing	—	73	22	1 810	92 736	984	1 943	44 174	426 102	1 169 808	1 557 549	43 809
32411	Petroleum refineries	—	3	2	e	D	D	D	D	D	D	D	D
324110	Petroleum refineries	—	3	2	e	D	D	D	D	D	D	D	D
32412	Asphalt paving, roofing, and saturated materials manufacturing	1	41	10	712	33 266	376	776	17 593	113 646	237 919	351 446	D
324121	Asphalt paving mixture and block manufacturing	1	38	8	645	30 636	324	668	16 217	107 055	227 137	334 101	10 953
32419	Other petroleum and coal products manufacturing	3	29	10	f	D	D	D	D	D	D	D	D
324191	Petroleum lubricating oil and grease manufacturing	2	26	9	459	22 653	210	441	6 921	73 090	104 329	178 872	D
324199	All other petroleum and coal products manufacturing	9	3	1	e	D	D	D	D	D	D	D	D
325	Chemical manufacturing	1	405	176	28 258	1 402 124	17 635	35 935	776 084	6 167 748	5 414 371	11 505 635	488 156
3251	Basic chemical manufacturing	3	62	31	5 637	322 877	3 719	7 321	207 087	875 625	1 612 066	2 435 958	156 255
32512	Industrial gas manufacturing	—	6	3	c	D	D	D	D	D	D	D	D
325120	Industrial gas manufacturing	—	6	3	c	D	D	D	D	D	D	D	D
32513	Synthetic dye and pigment manufacturing	—	5	3	f	D	D	D	D	D	D	D	D
325132	Synthetic organic dye and pigment manufacturing	—	3	3	544	27 158	303	602	13 843	119 357	122 397	243 727	D
32518	Other basic inorganic chemical manufacturing	2	18	9	658	34 694	474	982	22 283	148 681	123 551	268 531	D
325188	All other basic inorganic chemical manufacturing	1	15	7	f	D	D	D	D	D	D	D	12 527
32519	Other basic organic chemical manufacturing	4	33	16	4 306	253 140	2 882	5 618	167 787	564 047	1 338 819	1 852 972	D
325199	All other basic organic chemical manufacturing	4	30	15	4 264	250 169	2 853	5 551	165 707	559 534	1 325 024	1 834 765	130 286
3252	Resin, synthetic rubber, and artificial synthetic fibers and filaments manufacturing	—	40	25	2 785	158 539	1 424	2 946	71 014	479 739	931 689	1 403 147	39 334
32521	Resin and synthetic rubber manufacturing	—	39	24	h	D	D	D	D	D	D	D	D
325211	Plastics material and resin manufacturing	—	32	23	2 594	152 710	1 325	2 779	67 301	460 043	906 738	1 358 862	38 179
325212	Synthetic rubber manufacturing	2	7	1	c	D	D	D	D	D	D	D	D
3253	Pesticide, fertilizer, and other agricultural chemical manufacturing	3	13	5	290	9 508	207	370	5 720	43 413	33 424	75 521	2 217
32531	Fertilizer manufacturing	1	9	5	265	7 870	193	341	4 808	29 330	27 559	55 573	1 824
325314	Fertilizer (mixing only) manufacturing	1	9	5	265	7 870	193	341	4 808	29 330	27 559	55 573	1 824

**Table 1. Industry Statistics for the State: 2002—Con.**

[Includes data for industry groups and industries with 100 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>MICHIGAN—Con.</b>													
325	Chemical manufacturing—Con.												
3254	Pharmaceutical and medicine manufacturing .....	—	42	23	7 125	334 278	4 187	9 318	162 183	3 231 936	881 003	4 047 605	157 709
32541	Pharmaceutical and medicine manufacturing .....	—	42	23	7 125	334 278	4 187	9 318	162 183	3 231 936	881 003	4 047 605	157 709
325411	Medicinal and botanical manufacturing .....	—	6	4	617	37 044	264	535	12 847	163 100	107 129	226 025	17 023
325412	Pharmaceutical preparation manufacturing .....	—	19	10	5 652	253 918	3 542	8 120	135 729	2 940 047	643 498	3 572 099	125 953
325413	In-vitro diagnostic substance manufacturing .....	1	9	3	241	12 930	110	186	3 616	33 500	23 997	54 887	D
325414	Biological product (except diagnostic) manufacturing ..	4	8	6	615	30 386	271	477	9 991	95 289	106 379	194 594	D
3255	Paint, coating, and adhesive manufacturing .....	2	94	39	4 058	187 041	2 301	4 539	86 450	741 565	701 909	1 462 545	46 848
32551	Paint and coating manufacturing .....	1	65	26	2 524	121 176	1 392	2 708	53 479	534 411	426 692	983 295	35 311
325510	Paint and coating manufacturing .....	1	65	26	2 524	121 176	1 392	2 708	53 479	534 411	426 692	983 295	35 311
32552	Adhesive manufacturing .....	3	29	13	1 534	65 865	909	1 831	32 971	207 154	275 217	479 250	11 537
325520	Adhesive manufacturing .....	3	29	13	1 534	65 865	909	1 831	32 971	207 154	275 217	479 250	11 537
3256	Soap, cleaning compound, and toilet preparation manufacturing ..	2	56	10	4 949	233 040	3 728	7 146	168 980	220 383	639 294	886 884	36 707
32561	Soap and cleaning compound manufacturing .....	7	47	7	f	D	D	D	D	D	D	D	D
325611	Soap and other detergent manufacturing .....	6	24	2	221	11 410	168	340	7 512	64 023	61 707	126 419	D
325612	Polish and other sanitation good manufacturing .....	8	18	5	400	17 033	191	392	6 435	56 413	36 798	93 899	2 098
32562	Toilet preparation manufacturing .....	—	9	3	h	D	D	D	D	D	D	D	D
325620	Toilet preparation manufacturing .....	—	9	3	h	D	D	D	D	D	D	D	D
3259	Other chemical product and preparation manufacturing .....	2	98	43	3 414	156 841	2 069	4 295	74 650	575 087	614 986	1 193 975	49 086
32591	Printing ink manufacturing .....	2	9	4	388	19 947	185	372	7 046	67 450	35 402	102 746	2 068
325910	Printing ink manufacturing .....	2	9	4	388	19 947	185	372	7 046	67 450	35 402	102 746	2 068
32599	All other chemical product and preparation manufacturing ..	2	86	38	2 983	134 784	1 858	3 872	66 685	502 476	573 014	1 079 631	46 810
325991	Custom compounding of purchased resins .....	2	39	19	1 486	60 079	988	2 041	30 774	178 412	253 457	434 309	24 770
325998	All other miscellaneous chemical product and preparation manufacturing ..	1	37	17	1 398	70 050	832	1 753	34 407	304 673	309 384	615 722	20 649
326	Plastics and rubber products manufacturing .....	1	'840	'477	'64 226	'2 081 781	'49 010	'97 399	'1 305 284	'5 628 356	'4 743 979	'10 373 109	'363 493
3261	Plastics product manufacturing ..	1	'744	'434	'58 310	'1 888 263	'44 742	'89 396	'1 196 556	'5 137 043	'4 309 175	'9 445 929	'330 096
32611	Plastics packaging materials and unlaminated film and sheet manufacturing .....	'2	'52	'25	'2 930	'125 933	'2 169	'4 612	'78 932	'321 915	'349 953	'674 911	'33 885
326111	Plastics bag manufacturing ..	1	8	4	689	32 624	499	1 103	20 517	35 533	91 398	126 860	D
326112	Plastics packaging film and sheet (including laminated) manufacturing .....	'2	'8	'7	'823	'31 586	'676	'1 527	'21 731	'66 132	'65 582	'132 200	D
326113	Unlaminated plastics film and sheet (except packaging) manufacturing .....	2	36	14	1 418	61 723	994	1 982	36 684	220 250	192 973	415 851	8 172
32612	Plastics pipe, pipe fitting, and unlaminated profile shape manufacturing .....	1	'44	'20	'1 363	'44 528	'970	'1 916	'25 517	'115 852	'109 741	'223 834	'19 772
326121	Unlaminated plastics profile shape manufacturing .....	1	28	11	825	27 464	544	1 117	14 250	55 243	49 958	104 642	11 761
326122	Plastics pipe and pipe fitting manufacturing .....	'1	'16	'9	'538	'17 064	'426	'799	'11 267	'60 609	'59 783	'119 192	'8 011
32614	Polystyrene foam product manufacturing .....	—	'25	'15	'2 346	'77 356	'1 341	'2 679	'36 419	'192 720	'119 277	'302 000	'5 813
326140	Polystyrene foam product manufacturing .....	—	'25	'15	'2 346	'77 356	'1 341	'2 679	'36 419	'192 720	'119 277	'302 000	'5 813
32615	Urethane and other foam product (except polystyrene) manufacturing .....	1	43	25	2 360	77 031	1 870	3 740	52 518	215 981	215 099	432 007	8 702
326150	Urethane and other foam product (except polystyrene) manufacturing .....	1	43	25	2 360	77 031	1 870	3 740	52 518	215 981	215 099	432 007	8 702
32616	Plastics bottle manufacturing ..	—	6	4	501	18 978	416	878	15 280	67 312	58 155	122 746	4 244
326160	Plastics bottle manufacturing ..	—	6	4	501	18 978	416	878	15 280	67 312	58 155	122 746	4 244
32619	Other plastics product manufacturing .....	1	'568	'343	'48 752	'1 542 532	'37 929	'75 472	'986 495	'4 218 179	'3 449 626	'7 678 040	'257 356
326191	Plastics plumbing fixture manufacturing .....	1	24	16	1 230	38 278	963	1 981	24 532	102 022	70 920	172 448	3 699
326199	All other plastics product manufacturing .....	1	'544	'327	'47 522	'1 504 254	'36 966	'73 491	'961 963	'4 116 157	'3 378 706	'7 505 592	'253 657
3262	Rubber product manufacturing ..	—	96	43	5 916	193 518	4 268	8 003	108 728	491 313	434 804	927 180	33 397
32621	Tire manufacturing .....	2	21	4	219	6 612	134	256	3 547	10 857	17 623	28 761	1 777
326212	Tire retreading .....	2	21	4	219	6 612	134	256	3 547	10 857	17 623	28 761	1 777
32622	Rubber and plastics hoses and belting manufacturing .....	—	12	7	1 549	52 908	1 090	2 169	29 339	104 637	77 165	183 740	2 940
326220	Rubber and plastics hoses and belting manufacturing ..	—	12	7	1 549	52 908	1 090	2 169	29 339	104 637	77 165	183 740	2 940

**Table 1. Industry Statistics for the State: 2002—Con.**

[Includes data for industry groups and industries with 100 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>MICHIGAN—Con.</b>													
326	Plastics and rubber products manufacturing—Con.												
3262	Rubber product manufacturing—Con.												
32629	Other rubber product manufacturing .....	—	63	32	4 148	133 998	3 044	5 578	75 842	375 819	340 016	714 679	28 680
326291	Rubber product manufacturing for mechanical use .....	—	35	22	3 462	106 766	2 591	4 633	62 320	312 552	278 695	590 430	26 848
326299	All other rubber product manufacturing .....	3	28	10	686	27 232	453	945	13 522	63 267	61 321	124 249	1 832
327	Nonmetallic mineral product manufacturing .....	1	531	187	17 845	750 984	13 617	26 608	506 660	2 240 375	1 771 313	4 011 374	147 134
3271	Clay product and refractory manufacturing .....	2	41	10	765	28 114	561	1 101	17 255	74 645	50 097	126 544	6 125
32711	Pottery, ceramics, and plumbing fixture manufacturing .....	1	19	4	248	7 010	171	336	4 280	16 420	14 975	31 206	1 216
32712	Clay building material and refractories manufacturing .....	2	22	6	517	21 104	390	765	12 975	58 225	35 122	95 338	4 909
327121	Brick and structural clay tile manufacturing .....	9	3	1	c	D	D	D	D	D	D	D	D
327125	Nonclay refractory manufacturing .....	—	7	4	297	14 185	207	404	7 830	38 140	25 409	65 471	3 602
3272	Glass and glass product manufacturing .....	—	69	32	7 133	310 174	5 577	11 086	207 141	902 964	779 153	1 688 112	58 099
32721	Glass and glass product manufacturing .....	—	69	32	7 133	310 174	5 577	11 086	207 141	902 964	779 153	1 688 112	58 099
327211	Flat glass manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
327213	Glass container manufacturing .....	3	4	2	e	D	D	D	D	D	D	D	D
327215	Glass product manufacturing made of purchased glass ..	—	59	28	6 261	271 506	4 856	9 583	177 905	767 615	703 943	1 469 732	D
3273	Cement and concrete product manufacturing .....	2	321	115	7 323	309 547	5 547	10 592	214 157	902 264	707 891	1 603 369	60 283
32731	Cement manufacturing .....	4	9	7	966	53 652	742	1 618	38 357	256 469	185 921	439 644	9 455
327310	Cement manufacturing .....	4	9	7	966	53 652	742	1 618	38 357	256 469	185 921	439 644	9 455
32732	Ready-mix concrete manufacturing .....	1	193	67	3 187	142 398	2 324	4 807	98 805	376 404	334 887	713 462	29 060
327320	Ready-mix concrete manufacturing .....	1	193	67	3 187	142 398	2 324	4 807	98 805	376 404	334 887	713 462	29 060
32733	Concrete pipe, brick, and block manufacturing .....	1	51	25	1 433	56 446	1 040	2 285	35 220	170 585	110 439	280 706	15 551
327331	Concrete block and brick manufacturing .....	1	38	14	775	33 108	518	1 165	19 457	91 353	64 472	155 435	12 446
327332	Concrete pipe manufacturing .....	—	13	11	658	23 338	522	1 120	15 763	79 232	45 967	125 271	3 105
32739	Other concrete product manufacturing .....	3	68	16	1 737	57 051	1 441	1 882	41 775	98 806	76 644	169 557	6 217
327390	Other concrete product manufacturing .....	3	68	16	1 737	57 051	1 441	1 882	41 775	98 806	76 644	169 557	6 217
3279	Other nonmetallic mineral product manufacturing .....	3	93	29	2 533	99 304	1 856	3 662	65 171	343 777	223 594	565 908	22 084
32791	Abrasive product manufacturing .....	4	34	14	905	36 698	645	1 319	21 167	142 463	79 800	219 606	5 114
327910	Abrasive product manufacturing .....	4	34	14	905	36 698	645	1 319	21 167	142 463	79 800	219 606	5 114
32799	All other nonmetallic mineral product manufacturing .....	2	59	15	1 628	62 606	1 211	2 343	44 004	201 314	143 794	346 302	16 970
327991	Cut stone and stone product manufacturing .....	2	27	3	328	12 696	228	465	7 717	30 637	17 086	48 067	1 645
327992	Ground or treated mineral and earth manufacturing ..	5	11	3	398	17 580	298	659	12 221	78 582	49 625	127 408	2 371
327993	Mineral wool manufacturing ..	—	8	5	725	24 921	542	950	18 399	68 736	59 214	129 539	11 585
327999	All other miscellaneous nonmetallic mineral product manufacturing .....	1	13	4	177	7 409	143	269	5 667	23 359	17 869	41 288	1 369
331	Primary metal manufacturing .....	—	'324	'195	'32 136	'1 482 134	'25 003	'52 900	'1 084 629	'3 059 970	'4 785 459	'7 857 282	'311 182
3311	Iron and steel mills and ferroalloy manufacturing .....	—	21	11	7 478	420 596	5 606	12 395	315 280	661 584	2 112 682	2 789 720	82 582
33111	Iron and steel mills and ferroalloy manufacturing .....	—	21	11	7 478	420 596	5 606	12 395	315 280	661 584	2 112 682	2 789 720	82 582
331111	Iron and steel mills .....	—	21	11	7 478	420 596	5 606	12 395	315 280	661 584	2 112 682	2 789 720	82 582
3312	Steel product manufacturing from purchased steel .....	—	'35	'26	'2 544	'103 113	'1 920	'3 963	'68 668	'256 749	'389 546	'644 937	'13 523
33121	Iron and steel pipe and tube manufacturing from purchased steel .....	—	8	6	879	34 007	641	1 358	20 956	99 664	92 889	190 755	4 871
331210	Iron and steel pipe and tube manufacturing from purchased steel .....	—	8	6	879	34 007	641	1 358	20 956	99 664	92 889	190 755	4 871
33122	Rolling and drawing of purchased steel .....	—	'27	'20	'1 665	'69 106	'1 279	'2 605	'47 712	'157 085	'296 657	'454 182	'8 652
331221	Rolled steel shape manufacturing .....	—	'17	'13	'862	'41 581	'638	'1 326	'28 980	'99 717	'230 827	'333 892	'4 068
331222	Steel wire drawing .....	—	10	7	803	27 525	641	1 279	18 732	57 368	65 830	120 290	4 584



**Table 1. Industry Statistics for the State: 2002—Con.**

[Includes data for industry groups and industries with 100 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E1	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>MICHIGAN—Con.</b>													
331	Primary metal manufacturing—Con.												
3313	Alumina and aluminum production and processing .....	—	34	24	2 597	96 773	1 948	4 104	65 155	264 514	482 191	749 707	25 316
33131	Alumina and aluminum production and processing ...	—	34	24	2 597	96 773	1 948	4 104	65 155	264 514	482 191	749 707	25 316
331312	Primary aluminum production .....	—	1	1	c	D	D	D	D	D	D	D	D
331314	Secondary smelting and alloying of aluminum .....	—	11	8	530	22 340	400	940	14 255	90 404	292 408	383 347	D
331315	Aluminum sheet, plate, and foil manufacturing .....	—	4	2	c	D	D	D	D	D	D	D	D
331316	Aluminum extruded product manufacturing .....	—	16	13	1 650	58 098	1 224	2 494	38 696	126 397	160 719	289 138	18 498
3314	Nonferrous metal (except aluminum) production and processing .....	1	36	17	2 161	96 660	1 610	3 301	65 111	227 485	417 045	642 591	12 546
33141	Nonferrous metal (except aluminum) smelting and refining .....	—	6	1	446	27 783	261	537	16 385	65 675	83 841	152 460	2 211
331419	Primary smelting and refining of nonferrous metal (except copper and aluminum) .....	—	6	1	446	27 783	261	537	16 385	65 675	83 841	152 460	2 211
33142	Copper rolling, drawing, extruding, and alloying .....	—	6	6	1 002	36 604	833	1 761	27 180	99 420	217 690	306 889	6 373
331421	Copper rolling, drawing, and extruding .....	—	5	5	f	D	D	D	D	D	D	D	D
33149	Nonferrous metal (except copper and aluminum) rolling, drawing, extruding, and alloying .....	3	24	10	713	32 273	516	1 003	21 546	62 390	115 514	183 242	3 962
331491	Nonferrous metal (except copper and aluminum) rolling, drawing, and extruding .....	5	16	5	421	18 440	291	572	11 838	29 558	54 852	91 034	1 422
331492	Secondary smelting, refining, and alloying of nonferrous metal (except copper and aluminum) .....	2	8	5	292	13 833	225	431	9 708	32 832	60 662	92 208	2 540
3315	Foundries .....	—	198	117	17 356	764 992	13 919	29 137	570 415	1 649 638	1 383 995	3 030 327	177 215
33151	Ferrous metal foundries .....	—	90	56	10 627	519 268	8 765	18 177	410 310	1 060 634	890 788	1 947 199	140 077
331511	Iron foundries .....	—	51	32	7 737	417 779	6 398	12 979	335 103	744 708	716 634	1 459 432	125 071
331512	Steel investment foundries ..	—	14	11	1 584	54 125	1 327	3 080	41 530	208 348	96 602	303 734	9 226
331513	Steel foundries (except investment) .....	2	25	13	1 306	47 364	1 040	2 118	33 677	107 578	77 552	184 033	5 780
33152	Nonferrous metal foundries .....	—	108	61	6 729	245 724	5 154	10 960	160 105	589 004	493 207	1 083 128	37 138
331521	Aluminum die-casting foundries .....	1	36	25	3 296	122 846	2 509	5 477	84 428	281 655	257 228	539 868	17 695
331522	Nonferrous (except aluminum) die-casting foundries .....	—	27	16	1 565	57 341	1 231	2 653	35 844	132 288	140 434	273 893	9 978
331524	Aluminum foundries (except die-casting) .....	1	34	15	1 270	40 597	985	2 021	25 945	103 959	66 865	169 495	7 601
331525	Copper foundries (except die-casting) .....	—	5	3	248	9 688	179	329	5 456	23 620	11 688	35 823	1 222
331528	Other nonferrous foundries (except die-casting) .....	—	6	2	350	15 252	250	480	8 432	47 482	16 992	64 049	642
332	Fabricated metal product manufacturing .....	2	'3 600	'1 089	'91 792	'3 409 215	'68 486	'137 788	'2 206 475	'7 906 386	'5 671 716	'13 599 697	'480 057
3321	Forging and stamping .....	1	178	88	6 425	249 987	4 894	9 909	163 032	604 147	559 241	1 158 946	25 619
33211	Forging and stamping .....	1	178	88	6 425	249 987	4 894	9 909	163 032	604 147	559 241	1 158 946	25 619
332111	Iron and steel forging .....	—	34	22	1 898	82 576	1 409	2 899	55 964	229 665	263 070	488 614	5 774
332112	Nonferrous forging .....	2	11	8	758	31 263	641	1 380	23 597	104 831	63 191	169 241	D
332114	Custom roll forming .....	2	24	12	560	24 998	372	790	12 400	44 486	50 268	90 227	2 285
332116	Metal stamping .....	2	95	40	2 760	97 017	2 114	4 154	61 886	194 628	158 021	355 343	11 130
332117	Powder metallurgy part manufacturing .....	—	10	6	415	12 798	329	623	8 105	25 834	19 617	45 744	D
3322	Cutlery and handtool manufacturing .....	1	110	34	2 845	109 041	1 880	3 535	60 024	227 823	127 399	349 968	11 484
33221	Cutlery and handtool manufacturing .....	1	110	34	2 845	109 041	1 880	3 535	60 024	227 823	127 399	349 968	11 484
332212	Hand and edge tool manufacturing .....	1	96	32	2 490	95 647	1 610	2 977	51 217	205 335	102 662	310 171	D
332214	Kitchen utensil, pot, and pan manufacturing .....	—	4	2	e	D	D	D	D	D	D	D	D
3323	Architectural and structural metals manufacturing .....	2	494	127	11 190	414 777	7 654	15 492	249 076	965 983	962 612	1 936 507	51 466
33231	Plate work and fabricated structural product manufacturing .....	2	'243	'59	'5 451	'204 102	'3 679	'7 401	'123 811	'508 225	'612 251	'1 131 122	29 488
332311	Prefabricated metal building and component manufacturing .....	2	21	5	495	18 172	309	624	9 559	60 868	40 991	101 483	833
332312	Fabricated structural metal manufacturing .....	2	155	32	2 721	105 708	1 853	3 669	58 701	267 801	291 438	565 357	8 597
332313	Plate work manufacturing ...	2	'67	'22	'2 235	'80 222	'1 517	'3 108	'55 551	'179 556	'279 822	'464 282	20 058

**Table 1. Industry Statistics for the State: 2002—Con.**

[Includes data for industry groups and industries with 100 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>MICHIGAN—Con.</b>													
332	Fabricated metal product manufacturing—Con.												
3323	Architectural and structural metals manufacturing—Con.												
33232	Ornamental and architectural metal products manufacturing .....	1	'251	'68	'5 739	'210 675	'3 975	'8 091	'125 265	'457 758	'350 361	'805 385	21 978
332321	Metal window and door manufacturing .....	2	37	13	769	26 497	459	941	12 374	53 855	56 638	110 619	2 517
332322	Sheet metal work manufacturing .....	1	'162	'45	'3 698	'133 913	'2 585	'5 245	'82 160	'289 170	'215 564	'500 013	12 540
332323	Ornamental and architectural metal work manufacturing ..	—	52	10	1 272	50 265	931	1 905	30 731	114 733	78 159	194 753	6 921
3324	Boiler, tank, and shipping container manufacturing .....	3	44	18	1 107	42 149	768	1 711	24 930	111 315	106 945	220 299	3 264
33241	Power boiler and heat exchanger manufacturing ....	4	6	4	223	7 714	155	361	4 332	19 205	11 082	30 310	197
332410	Power boiler and heat exchanger manufacturing ..	4	6	4	223	7 714	155	361	4 332	19 205	11 082	30 310	197
33242	Metal tank (heavy gauge) manufacturing .....	7	14	4	174	7 442	105	223	3 885	25 479	16 538	42 271	619
332420	Metal tank (heavy gauge) manufacturing .....	7	14	4	174	7 442	105	223	3 885	25 479	16 538	42 271	619
33243	Metal can, box, and other metal container (light gauge) manufacturing .....	1	24	10	710	26 993	508	1 127	16 713	66 631	79 325	147 718	2 448
332439	Other metal container manufacturing .....	1	19	8	621	23 824	433	968	14 224	60 637	67 762	131 208	1 875
3325	Hardware manufacturing .....	1	57	28	7 059	228 062	5 680	11 036	153 679	427 324	396 913	823 728	20 734
33251	Hardware manufacturing .....	1	57	28	7 059	228 062	5 680	11 036	153 679	427 324	396 913	823 728	20 734
332510	Hardware manufacturing ....	1	57	28	7 059	228 062	5 680	11 036	153 679	427 324	396 913	823 728	20 734
3326	Spring and wire product manufacturing .....	2	122	44	3 387	112 878	2 446	4 860	69 630	244 097	173 849	418 076	13 259
33261	Spring and wire product manufacturing .....	2	122	44	3 387	112 878	2 446	4 860	69 630	244 097	173 849	418 076	13 259
332611	Spring (heavy gauge) manufacturing .....	4	10	5	219	7 667	143	230	4 218	12 854	10 384	23 218	669
332612	Spring (light gauge) manufacturing .....	—	34	20	1 597	56 501	1 211	2 477	37 601	126 173	89 556	215 391	7 981
332618	Other fabricated wire product manufacturing .....	3	78	19	1 571	48 710	1 092	2 153	27 811	105 070	73 909	179 467	4 609
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	2	'1 660	'397	'30 783	'1 208 312	'23 355	'47 467	'813 463	'2 861 847	'1 915 873	'4 780 099	'228 390
33271	Machine shops .....	2	'1 295	'210	'17 073	'656 768	'12 941	'25 405	'440 113	'1 405 456	'806 116	'2 219 081	'115 859
332710	Machine shops .....	2	'1 295	'210	'17 073	'656 768	'12 941	'25 405	'440 113	'1 405 456	'806 116	'2 219 081	'115 859
33272	Turned product and screw, nut, and bolt manufacturing .....	2	365	187	13 710	551 544	10 414	22 062	373 350	'1 456 391	'1 109 757	'2 561 018	112 531
332721	Precision turned product manufacturing .....	1	266	129	9 077	355 762	7 005	14 745	242 507	'824 015	'467 135	'1 294 460	77 478
332722	Bolt, nut, screw, rivet, and washer manufacturing .....	3	99	58	4 633	195 782	3 409	7 317	130 843	632 376	642 622	1 266 558	35 053
3328	Coating, engraving, heat treating, and allied activities .....	1	516	208	15 100	513 329	11 629	22 940	336 576	1 171 490	485 374	1 657 458	66 399
33281	Coating, engraving, heat treating, and allied activities ..	1	516	208	15 100	513 329	11 629	22 940	336 576	1 171 490	485 374	1 657 458	66 399
332811	Metal heat treating .....	1	117	62	3 486	136 405	2 529	5 263	84 410	317 582	115 627	434 413	27 717
332812	Metal coating, engraving (except jewelry and silverware), and allied services to manufacturers ..	1	193	79	5 551	183 138	4 366	8 078	124 584	445 131	212 665	659 266	16 084
332813	Electroplating, plating, polishing, anodizing, and coloring .....	1	206	67	6 063	193 786	4 734	9 599	127 582	408 777	157 082	563 779	22 598
3329	Other fabricated metal product manufacturing .....	1	'419	'145	'13 896	'530 680	'10 180	'20 838	'336 065	'1 292 360	'943 510	'2 254 616	'59 442
33291	Metal valve manufacturing ....	1	80	41	5 536	211 625	3 909	8 067	128 111	598 379	373 113	975 579	26 321
332911	Industrial valve manufacturing .....	—	19	9	1 074	42 288	747	1 543	23 212	97 357	68 897	167 778	4 214
332912	Fluid power valve and hose fitting manufacturing .....	—	40	24	3 620	136 855	2 646	5 461	88 315	384 051	214 629	601 549	15 219
332913	Plumbing fixture fitting and trim manufacturing .....	—	8	3	e	D	D	D	D	D	D	D	1 438
332919	Other metal valve and pipe fitting manufacturing .....	8	13	5	e	D	D	D	D	D	D	D	5 450
33299	All other fabricated metal product manufacturing .....	1	'339	'104	'8 360	'319 055	'6 271	'12 771	'207 954	'693 981	'570 397	'1 279 037	'33 121
332991	Ball and roller bearing manufacturing .....	—	8	5	613	32 019	475	1 020	19 870	38 721	89 226	138 577	2 590
332995	Other ordnance and accessories manufacturing ..	1	4	2	103	6 705	62	140	3 880	7 580	4 819	12 116	D
332996	Fabricated pipe and pipe fitting manufacturing .....	3	52	23	1 575	46 700	1 208	2 483	27 793	98 461	85 492	183 962	4 276
332997	Industrial pattern manufacturing .....	—	'59	'17	'1 359	'69 096	'1 110	'2 319	'54 560	'119 904	'46 060	'165 959	D
332999	All other miscellaneous fabricated metal product manufacturing .....	1	'208	'55	'4 627	'161 914	'3 350	'6 684	'99 916	'425 862	'342 058	'770 213	'17 470

**Table 1. Industry Statistics for the State: 2002—Con.**

[Includes data for industry groups and industries with 100 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E1	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>MICHIGAN—Con.</b>													
333	Machinery manufacturing .....	1	'2 601	'957	'89 690	'4 284 540	'55 332	'110 532	'2 266 921	'8 980 102	'7 402 398	'16 467 621	'460 723
3331	Agriculture, construction, and mining machinery manufacturing .....	1	71	28	2 241	87 389	1 557	3 136	50 865	227 510	257 483	487 793	11 766
33311	Agricultural implement manufacturing .....	3	32	7	774	28 362	533	1 072	15 334	59 857	79 391	138 804	7 117
333111	Farm machinery and equipment manufacturing ..	4	30	6	e	D	D	D	D	D	D	D	D
333112	Lawn and garden tractor and home lawn and garden equipment manufacturing ..	—	2	1	e	D	D	D	D	D	D	D	D
33312	Construction machinery manufacturing .....	—	27	17	1 103	44 043	783	1 560	27 363	133 982	142 996	280 475	3 896
333120	Construction machinery manufacturing .....	—	27	17	1 103	44 043	783	1 560	27 363	133 982	142 996	280 475	3 896
33313	Mining and oil and gas field machinery manufacturing ....	3	12	4	364	14 984	241	504	8 168	33 671	35 096	68 514	753
333131	Mining machinery and equipment manufacturing ..	3	9	3	310	12 200	211	449	6 748	27 607	29 810	56 920	654
3332	Industrial machinery manufacturing .....	1	'234	75	'7 091	'343 153	'3 823	'7 077	'152 083	'682 700	'735 420	'1 460 377	'25 875
33321	Sawmill and woodworking machinery manufacturing ....	—	9	3	676	25 161	362	653	10 472	61 266	57 124	116 120	D
333210	Sawmill and woodworking machinery manufacturing ..	—	9	3	676	25 161	362	653	10 472	61 266	57 124	116 120	D
33322	Plastics and rubber industry machinery manufacturing ....	1	'56	20	'1 884	'84 892	'1 111	'2 004	'44 047	'200 261	'138 655	'336 652	D
333220	Plastics and rubber industry machinery manufacturing ..	1	'56	20	'1 884	'84 892	'1 111	'2 004	'44 047	'200 261	'138 655	'336 652	D
33329	Other industrial machinery manufacturing .....	1	169	52	4 531	233 100	2 350	4 420	97 564	421 173	539 641	1 007 605	18 068
333291	Paper industry machinery manufacturing .....	1	7	2	213	11 016	88	186	3 550	20 542	13 634	34 057	434
333293	Printing machinery and equipment manufacturing ..	2	12	4	163	8 166	87	181	3 446	16 273	11 935	28 132	345
333294	Food product machinery manufacturing .....	2	18	3	229	8 195	127	248	3 799	19 868	13 838	34 190	282
333298	All other industrial machinery manufacturing .....	1	123	42	3 828	202 229	1 970	3 674	84 431	359 439	496 377	902 218	16 638
3333	Commercial and service industry machinery manufacturing .....	2	68	22	2 245	84 849	1 471	2 680	39 721	234 433	234 955	465 067	22 303
33331	Commercial and service industry machinery manufacturing .....	2	68	22	2 245	84 849	1 471	2 680	39 721	234 433	234 955	465 067	22 303
333314	Optical instrument and lens manufacturing .....	—	6	4	257	12 001	173	344	5 249	21 547	13 541	34 637	11 831
333319	Other commercial and service industry machinery manufacturing .....	3	54	18	1 946	71 483	1 268	2 287	33 869	209 422	218 407	423 959	10 334
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	1	78	39	3 967	144 551	2 787	5 351	82 673	290 555	268 806	572 518	5 906
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	1	78	39	3 967	144 551	2 787	5 351	82 673	290 555	268 806	572 518	5 906
333411	Air purification equipment manufacturing .....	1	18	11	447	16 291	282	532	8 194	30 519	23 926	57 477	634
333412	Industrial and commercial fan and blower manufacturing ..	4	9	7	500	16 970	342	678	9 352	32 405	51 674	87 632	946
333414	Heating equipment (except warm air furnaces) manufacturing .....	1	17	4	309	14 118	162	327	4 914	37 347	27 132	62 381	498
333415	Air-conditioning and warm air heating equipment and commercial and industrial refrigeration equipment manufacturing .....	—	34	17	2 711	97 172	2 001	3 814	60 213	190 284	166 074	365 028	3 828
3335	Metalworking machinery manufacturing .....	2	'1 619	'572	'42 627	'2 050 492	'29 617	'60 207	'1 305 694	'3 980 441	'2 114 587	'6 161 075	'187 748
33351	Metalworking machinery manufacturing .....	2	'1 619	'572	'42 627	'2 050 492	'29 617	'60 207	'1 305 694	'3 980 441	'2 114 587	'6 161 075	'187 748
333511	Industrial mold manufacturing .....	1	'311	'103	'7 559	'387 276	'5 613	'11 680	'268 425	'719 929	'283 716	'1 002 323	'33 451
333512	Machine tool (metal cutting types) manufacturing ....	1	89	54	3 036	158 596	1 751	3 636	77 722	238 563	280 962	568 658	9 382
333513	Machine tool (metal forming types) manufacturing ....	—	26	14	1 173	57 551	710	1 484	32 168	113 407	71 457	179 137	6 487
333514	Special die and tool, die set, jig, and fixture manufacturing .....	1	745	246	18 156	882 780	13 630	27 550	614 098	1 651 657	752 468	2 417 830	93 711
333515	Cutting tool and machine tool accessory manufacturing ...	2	349	109	7 568	304 263	5 314	10 414	193 858	635 375	272 483	910 814	30 853
333518	Other metalworking machinery manufacturing ..	3	'91	'45	'5 052	'256 214	'2 555	'5 362	'117 689	'613 771	'447 138	'1 068 441	'13 630
3336	Engine, turbine, and power transmission equipment manufacturing .....	—	60	32	7 665	407 852	4 574	9 975	194 910	1 136 145	1 338 751	2 489 099	116 575

**Table 1. Industry Statistics for the State: 2002—Con.**

[Includes data for industry groups and industries with 100 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>MICHIGAN—Con.</b>													
333	Machinery manufacturing—Con.												
3336	Engine, turbine, and power transmission equipment manufacturing—Con.												
33361	Engine, turbine, and power transmission equipment manufacturing .....	—	60	32	7 665	407 852	4 574	9 975	194 910	1 136 145	1 338 751	2 489 099	116 575
333612	Speed changer, industrial high-speed drive, and gear manufacturing .....	—	16	9	f	D	D	D	D	D	D	D	D
333613	Mechanical power transmission equipment manufacturing .....	—	19	8	950	44 102	741	1 563	31 131	100 090	45 414	142 343	6 066
333618	Other engine equipment manufacturing .....	—	22	14	5 959	332 655	3 330	7 413	148 357	967 792	1 249 946	2 234 826	107 454
3339	Other general purpose machinery manufacturing .....	1	'471	'189	'23 854	'1 166 254	'11 503	'22 106	'440 975	'2 428 318	'2 452 396	'4 831 692	'90 550
33391	Pump and compressor manufacturing .....	—	33	17	1 758	84 864	862	1 414	30 459	186 576	112 667	295 770	4 462
333911	Pump and pumping equipment manufacturing ..	—	13	8	1 271	58 765	664	1 054	23 047	110 581	67 333	174 458	D
333912	Air and gas compressor manufacturing .....	1	19	8	e	D	D	D	D	D	D	D	D
33392	Material handling equipment manufacturing .....	—	'140	'65	'9 076	'424 181	'4 039	'7 644	'153 583	'916 887	'937 255	'1 867 680	'37 135
333921	Elevator and moving stairway manufacturing .....	—	6	3	128	5 377	59	111	1 226	10 341	5 284	15 601	65
333922	Conveyor and conveying equipment manufacturing ..	—	'86	'38	'6 841	'338 639	'2 630	'4 901	'112 965	'749 031	'764 575	'1 528 492	'28 328
333923	Overhead traveling crane, hoist, and monorail system manufacturing .....	1	24	10	880	36 122	545	1 103	15 617	64 928	77 825	142 039	1 896
333924	Industrial truck, tractor, trailer, and stacker machinery manufacturing ..	1	24	14	1 227	44 043	805	1 529	23 775	92 587	89 571	181 548	6 846
33399	All other general purpose machinery manufacturing ....	1	298	107	13 020	657 209	6 602	13 048	256 933	1 324 855	1 402 474	2 668 242	48 953
333992	Welding and soldering equipment manufacturing ..	1	33	21	3 111	183 010	1 524	3 195	77 159	412 694	441 469	794 286	10 100
333993	Packaging machinery manufacturing .....	—	25	9	625	33 489	297	596	13 380	50 844	53 788	103 020	1 670
333994	Industrial process furnace and oven manufacturing ...	2	34	13	948	41 312	591	1 198	19 583	77 721	61 688	143 157	6 192
333995	Fluid power cylinder and actuator manufacturing ....	—	16	8	845	35 461	539	1 072	18 721	92 009	63 658	157 891	5 740
333996	Fluid power pump and motor manufacturing .....	2	13	6	874	44 362	523	941	21 397	67 260	73 799	141 243	4 360
333997	Scale and balance (except laboratory) manufacturing ..	—	3	2	c	D	D	D	D	D	D	D	D
333999	All other miscellaneous general purpose machinery manufacturing .....	2	167	47	6 416	309 608	3 055	5 913	103 744	610 264	698 754	1 305 701	20 360
334	Computer and electronic product manufacturing .....	—	'408	'143	'22 192	'1 002 017	'13 643	'26 498	'499 492	'2 376 321	'2 649 359	'5 018 287	'100 645
3341	Computer and peripheral equipment manufacturing .....	1	40	'10	'1 726	'89 100	'776	'1 396	'28 846	'199 992	'71 424	'273 075	D
33411	Computer and peripheral equipment manufacturing ....	1	40	'10	'1 726	'89 100	'776	'1 396	'28 846	'199 992	'71 424	'273 075	D
334111	Electronic computer manufacturing .....	—	16	'7	'1 458	'76 052	'650	'1 153	'25 380	'169 471	'50 080	'221 327	'4 206
334119	Other computer peripheral equipment manufacturing ..	5	21	2	211	9 806	110	212	3 045	25 183	17 748	42 834	1 019
3342	Communications equipment manufacturing .....	1	30	11	1 089	44 789	618	1 070	16 706	79 072	84 677	170 025	2 748
33421	Telephone apparatus manufacturing .....	1	8	3	e	D	D	D	D	D	D	D	736
334210	Telephone apparatus manufacturing .....	1	8	3	e	D	D	D	D	D	D	D	736
33422	Radio and television broadcasting and wireless communications equipment manufacturing .....	1	7	2	c	D	D	D	D	D	D	D	473
334220	Radio and television broadcasting and wireless communications equipment manufacturing .....	1	7	2	c	D	D	D	D	D	D	D	473
33429	Other communications equipment manufacturing ....	1	15	6	589	27 457	329	520	10 457	50 108	47 483	102 958	1 539
334290	Other communications equipment manufacturing ..	1	15	6	589	27 457	329	520	10 457	50 108	47 483	102 958	1 539
3343	Audio and video equipment manufacturing .....	—	13	4	685	21 924	392	567	9 326	69 086	89 693	158 571	634
33431	Audio and video equipment manufacturing .....	—	13	4	685	21 924	392	567	9 326	69 086	89 693	158 571	634
334310	Audio and video equipment manufacturing .....	—	13	4	685	21 924	392	567	9 326	69 086	89 693	158 571	634
3344	Semiconductor and other electronic component manufacturing .....	1	123	53	4 984	177 280	2 929	5 797	73 469	354 026	414 747	783 429	D

**Table 1. Industry Statistics for the State: 2002—Con.**

[Includes data for industry groups and industries with 100 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
		E <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)				
<b>MICHIGAN—Con.</b>												
334	Computer and electronic product manufacturing—Con.											
3344	Semiconductor and other electronic component manufacturing—Con.											
33441	Semiconductor and other electronic component manufacturing .....	1	123	53	4 984	177 280	2 929	5 797	73 469	354 026	414 747	783 429 D
334412	Bare printed circuit board manufacturing .....	2	23	10	1 118	34 623	823	1 730	19 116	70 218	67 933	136 792 3 377
334413	Semiconductor and related device manufacturing .....	3	16	6	e	D	D	D	D	D	D	1 037
334416	Electronic coil, transformer, and other inductor manufacturing .....	2	10	4	175	6 618	124	248	3 252	10 775	8 849	19 926 129
334417	Electronic connector manufacturing .....	4	7	1	c	D	D	D	D	D	D	129
334418	Printed circuit assembly (electronic assembly) manufacturing .....	—	18	13	1 821	60 504	987	1 915	24 498	125 643	253 645	393 544 8 883
334419	Other electronic component manufacturing .....	—	42	17	1 223	49 405	674	1 290	17 176	90 785	57 100	147 691 2 862
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	—	'184	60	'12 185	'631 460	'7 617	'15 100	'341 924	'1 527 055	'1 886 711	'3 386 377 '70 953
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	—	'184	60	'12 185	'631 460	'7 617	'15 100	'341 924	'1 527 055	'1 886 711	'3 386 377 '70 953
334510	Electromedical and electrotherapeutic apparatus manufacturing ...	8	5	2	e	D	D	D	D	D	D	D
334511	Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing .....	1	14	8	1 955	122 535	1 256	2 920	78 112	230 913	76 203	303 016 30 645
334512	Automatic environmental control manufacturing for residential, commercial, and appliance use .....	—	'13	4	'550	'18 981	'385	'691	'11 894	'58 747	'50 908	'110 162 '1 066
334513	Instruments and related products manufacturing for measuring, displaying, and controlling industrial process variables .....	1	46	18	1 261	58 182	603	1 081	21 337	113 834	76 934	192 568 4 763
334514	Totalizing fluid meter and counting device manufacturing .....	—	12	6	h	D	D	D	D	D	D	19 923
334515	Instrument manufacturing for measuring and testing electricity and electrical signals .....	9	23	2	411	24 951	187	384	6 016	55 357	32 114	87 303 1 772
334516	Analytical laboratory instrument manufacturing ..	—	16	5	1 319	63 293	523	1 027	16 845	163 394	66 248	231 777 5 724
334518	Watch, clock, and part manufacturing .....	—	7	3	737	28 702	574	1 143	18 456	67 460	51 159	116 837 947
334519	Other measuring and controlling device manufacturing .....	1	47	11	997	50 782	504	968	18 148	91 786	42 504	127 791 2 598
3346	Manufacturing and reproducing magnetic and optical media .....	—	18	5	1 523	37 464	1 311	2 568	29 221	147 090	102 107	246 810 4 029
33461	Manufacturing and reproducing magnetic and optical media ...	—	18	5	1 523	37 464	1 311	2 568	29 221	147 090	102 107	246 810 4 029
334612	Prerecorded compact disc (except software), tape, and record reproducing .....	—	12	3	g	D	D	D	D	D	D	3 763
335	Electrical equipment, appliance, and component manufacturing .....	'1	239	83	'12 509	'448 868	'9 096	'17 462	'272 888	'1 097 711	'1 250 760	'2 348 458 '60 499
3351	Electric lighting equipment manufacturing .....	1	22	8	459	14 011	295	601	6 625	46 720	37 317	83 788 2 247
33512	Lighting fixture manufacturing ..	1	22	8	459	14 011	295	601	6 625	46 720	37 317	83 788 2 247
335122	Commercial, industrial, and institutional electric lighting fixture manufacturing .....	—	7	2	107	3 977	55	107	1 285	16 604	7 432	24 044 117
335129	Other lighting equipment manufacturing .....	—	6	6	298	8 944	213	432	4 810	27 677	27 411	54 838 2 107
3352	Household appliance manufacturing .....	—	'13	'5	'4 171	'141 003	'3 744	'6 638	'118 031	'423 508	'572 270	'998 513 '21 174
33521	Small electrical appliance manufacturing .....	9	'7	'2	'441	'12 494	'353	'433	'8 008	'39 978	'46 485	'87 490 D
335212	Household vacuum cleaner manufacturing .....	9	'3	'2	e	D	D	D	D	D	D	D
33522	Major appliance manufacturing ..	—	6	3	3 730	128 509	3 391	6 205	110 023	383 530	525 785	911 023 D
335222	Household refrigerator and home freezer manufacturing .....	—	1	1	g	D	D	D	D	D	D	D
335224	Household laundry equipment manufacturing ..	—	1	1	e	D	D	D	D	D	D	D
335228	Other major household appliance manufacturing ...	—	2	1	g	D	D	D	D	D	D	D

**Table 1. Industry Statistics for the State: 2002—Con.**

[Includes data for industry groups and industries with 100 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
		E <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)					Wages (\$1,000)
<b>MICHIGAN—Con.</b>													
335	Electrical equipment, appliance, and component manufacturing—Con.												
3353	Electrical equipment manufacturing .....	2	125	38	3 564	132 705	2 354	4 246	65 564	278 862	220 352	495 866	9 846
33531	Electrical equipment manufacturing .....	2	125	38	3 564	132 705	2 354	4 246	65 564	278 862	220 352	495 866	9 846
335311	Power, distribution, and specialty transformer manufacturing .....	3	7	4	213	8 732	112	246	3 673	20 594	9 925	30 101	817
335312	Motor and generator manufacturing .....	2	21	8	1 151	33 524	903	1 764	23 085	87 160	79 010	165 331	3 560
335313	Switchgear and switchboard apparatus manufacturing ..	2	29	8	717	27 718	475	917	13 907	51 151	41 738	90 594	1 848
335314	Relay and industrial control manufacturing .....	1	68	18	1 483	62 731	864	1 319	24 899	119 957	89 679	209 840	3 621
3359	Other electrical equipment and component manufacturing .....	—	'79	'32	'4 315	'161 149	'2 703	'5 977	'82 668	'348 621	'420 821	'770 291	'27 232
33592	Communication and energy wire and cable manufacturing .	—	9	4	f	D	D	D	D	D	D	D	5 889
335929	Other communication and energy wire manufacturing ..	—	8	4	963	35 219	593	1 422	16 384	86 996	88 309	174 750	D
33593	Wiring device manufacturing ..	—	22	11	2 236	86 881	1 439	3 126	48 664	178 469	249 286	430 106	12 301
335931	Current-carrying wiring device manufacturing .....	—	18	10	2 115	81 725	1 342	2 936	44 866	163 943	216 155	381 298	11 375
335932	Noncurrent-carrying wiring device manufacturing .....	—	4	1	121	5 156	97	190	3 798	14 526	33 131	48 808	926
33599	All other electrical equipment and component manufacturing .....	'1	'45	'15	g	D	D	D	D	D	D	D	D
335991	Carbon and graphite product manufacturing .....	—	8	4	c	D	D	D	D	D	D	D	D
335999	All other miscellaneous electrical equipment and component manufacturing ..	'1	'37	'11	'785	'26 458	'470	'1 004	'11 224	'51 673	'56 863	'108 663	'1 594
336	Transportation equipment manufacturing .....	—	1 097	666	238 731	13 226 217	198 784	389 239	10 625 013	43 208 837	74 507 766	117 556 168	2 365 217
3361	Motor vehicle manufacturing .....	—	34	22	47 219	3 317 183	42 780	88 282	2 973 835	19 106 174	39 427 378	58 532 381	555 506
33611	Automobile and light duty motor vehicle manufacturing .....	—	29	19	46 322	3 282 068	42 195	85 820	2 956 265	19 046 513	39 195 760	58 243 702	553 790
336111	Automobile manufacturing ..	—	23	14	27 680	1 894 392	24 995	48 964	1 682 662	12 545 364	21 437 559	33 974 752	478 855
336112	Light truck and utility vehicle manufacturing .....	—	6	5	18 642	1 387 676	17 200	36 856	1 273 603	6 501 149	17 758 201	24 268 950	74 935
33612	Heavy duty truck manufacturing .....	—	5	3	897	35 115	585	2 462	17 570	59 661	231 618	288 679	1 716
336120	Heavy duty truck manufacturing .....	—	5	3	897	35 115	585	2 462	17 570	59 661	231 618	288 679	1 716
3362	Motor vehicle body and trailer manufacturing .....	2	73	26	2 617	87 202	1 912	3 694	55 892	156 027	282 258	441 905	6 874
33621	Motor vehicle body and trailer manufacturing .....	2	73	26	2 617	87 202	1 912	3 694	55 892	156 027	282 258	441 905	6 874
336211	Motor vehicle body manufacturing .....	2	28	10	948	32 862	652	1 227	20 498	47 750	113 410	164 313	982
336212	Truck trailer manufacturing ..	4	10	1	c	D	D	D	D	D	D	D	D
336213	Motor home manufacturing ..	—	3	2	e	D	D	D	D	D	D	D	403
336214	Travel trailer and camper manufacturing .....	2	32	13	1 201	40 324	870	1 733	25 457	73 326	104 050	175 982	D
3363	Motor vehicle parts manufacturing .....	—	868	570	181 322	9 487 156	148 906	286 645	7 398 944	23 250 767	34 159 773	57 244 559	1 764 058
33631	Motor vehicle gasoline engine and engine parts manufacturing .....	—	121	69	32 337	1 912 233	27 732	53 191	1 592 926	4 658 412	8 682 492	13 305 401	372 830
336311	Carburetor, piston, piston ring, and valve manufacturing .....	—	10	5	1 259	53 181	865	1 716	30 104	145 382	65 637	209 799	4 631
336312	Gasoline engine and engine parts manufacturing .....	—	111	64	31 078	1 859 052	26 867	51 475	1 562 822	4 513 030	8 616 855	13 095 602	368 199
33632	Motor vehicle electrical and electronic equipment manufacturing .....	—	61	33	8 777	508 518	6 926	15 039	395 989	1 234 944	1 428 596	2 626 393	73 547
336321	Vehicular lighting equipment manufacturing .....	—	9	7	1 167	47 287	1 001	1 758	28 844	128 595	142 023	269 650	20 130
336322	Other motor vehicle electrical and electronic equipment manufacturing .....	—	52	26	7 610	461 231	5 925	13 281	367 145	1 106 349	1 286 573	2 356 743	53 417
33633	Motor vehicle steering and suspension component (except spring) manufacturing .....	—	29	17	9 220	617 820	6 753	13 804	399 122	1 219 162	1 249 809	2 472 291	46 451
336330	Motor vehicle steering and suspension component (except spring) manufacturing .....	—	29	17	9 220	617 820	6 753	13 804	399 122	1 219 162	1 249 809	2 472 291	46 451
33634	Motor vehicle brake system manufacturing .....	—	33	21	5 298	251 982	4 247	9 227	194 414	1 574 086	1 465 878	3 038 962	97 498
336340	Motor vehicle brake system manufacturing .....	—	33	21	5 298	251 982	4 247	9 227	194 414	1 574 086	1 465 878	3 038 962	97 498
33635	Motor vehicle transmission and power train parts manufacturing .....	—	69	52	28 856	1 810 745	25 249	55 483	1 571 379	4 093 724	6 262 117	10 307 751	393 179
336350	Motor vehicle transmission and power train parts manufacturing .....	—	69	52	28 856	1 810 745	25 249	55 483	1 571 379	4 093 724	6 262 117	10 307 751	393 179

**Table 1. Industry Statistics for the State: 2002—Con.**

[Includes data for industry groups and industries with 100 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E1	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>MICHIGAN—Con.</b>													
336	Transportation equipment manufacturing—Con.												
3363	Motor vehicle parts manufacturing—Con.												
33636	Motor vehicle seating and interior trim manufacturing . . .	—	60	45	17 008	666 567	13 058	21 944	438 042	1 603 826	3 606 003	5 200 022	67 452
336360	Motor vehicle seating and interior trim manufacturing . .	—	60	45	17 008	666 567	13 058	21 944	438 042	1 603 826	3 606 003	5 200 022	67 452
33637	Motor vehicle metal stamping . .	1	287	197	49 693	2 435 563	41 135	74 293	1 918 779	4 953 039	5 527 689	10 455 064	384 078
336370	Motor vehicle metal stamping . . . . .	1	287	197	49 693	2 435 563	41 135	74 293	1 918 779	4 953 039	5 527 689	10 455 064	384 078
33639	Other motor vehicle parts manufacturing . . . . .	—	208	136	30 133	1 283 728	23 806	43 664	888 293	3 913 574	5 937 189	9 838 675	329 023
336391	Motor vehicle air-conditioning manufacturing . . . . .	—	7	7	4 732	246 395	3 837	7 882	188 094	1 140 913	1 636 405	2 776 351	83 278
336399	All other motor vehicle parts manufacturing . . . . .	—	201	129	25 401	1 037 333	19 969	35 782	700 199	2 772 661	4 300 784	7 062 324	245 745
3364	Aerospace product and parts manufacturing . . . . .	—	48	24	3 540	195 912	2 128	4 304	100 448	387 019	270 514	661 117	27 192
33641	Aerospace product and parts manufacturing . . . . .	—	48	24	3 540	195 912	2 128	4 304	100 448	387 019	270 514	661 117	27 192
336411	Aircraft manufacturing . . . . .	1	7	3	e	D	D	D	D	D	D	D	2 044
336412	Aircraft engine and engine parts manufacturing . . . . .	—	21	16	2 638	152 782	1 647	3 299	79 495	276 271	185 862	463 075	22 824
336413	Other aircraft parts and auxiliary equipment manufacturing . . . . .	1	20	5	f	D	D	D	D	D	D	D	2 324
3365	Railroad rolling stock manufacturing . . . . .	—	5	1	e	D	D	D	D	D	D	D	D
33651	Railroad rolling stock manufacturing . . . . .	—	5	1	e	D	D	D	D	D	D	D	D
336510	Railroad rolling stock manufacturing . . . . .	—	5	1	e	D	D	D	D	D	D	D	D
3366	Ship and boat building . . . . .	3	33	11	1 994	65 604	1 539	3 165	47 299	157 158	221 207	378 365	D
33661	Ship and boat building . . . . .	3	33	11	1 994	65 604	1 539	3 165	47 299	157 158	221 207	378 365	D
336612	Boat building . . . . .	3	26	11	1 953	63 628	1 514	3 113	46 046	154 043	219 438	373 481	D
3369	Other transportation equipment manufacturing . . . . .	—	36	12	g	D	D	D	D	D	D	D	5 306
33699	Other transportation equipment manufacturing . . . . .	—	36	12	g	D	D	D	D	D	D	D	5 306
336992	Military armored vehicle, tank, and tank component manufacturing . . . . .	—	11	5	522	24 946	390	922	15 329	49 134	46 798	97 041	D
336999	All other transportation equipment manufacturing . .	—	20	6	1 151	34 231	903	1 826	23 973	61 086	76 847	137 200	1 988
337	Furniture and related product manufacturing . . . . .	2	635	171	31 280	1 201 299	22 569	43 504	662 254	3 475 169	2 382 170	5 818 310	159 722
3371	Household and institutional furniture and kitchen cabinet manufacturing . . . . .	1	412	72	8 501	261 634	6 658	13 138	174 390	615 816	496 248	1 110 330	32 476
33711	Wood kitchen cabinet and countertop manufacturing . . .	1	210	17	2 480	73 780	1 982	3 829	53 027	200 319	161 506	361 956	6 151
337110	Wood kitchen cabinet and countertop manufacturing . .	1	210	17	2 480	73 780	1 982	3 829	53 027	200 319	161 506	361 956	6 151
33712	Household and institutional furniture manufacturing . . . . .	1	202	55	6 021	187 854	4 676	9 309	121 363	415 497	334 742	748 374	26 325
337121	Upholstered household furniture manufacturing . . . . .	3	40	9	434	10 621	362	674	8 139	26 294	26 619	52 912	911
337122	Nonupholstered wood household furniture manufacturing . . . . .	3	100	23	2 449	62 928	2 063	4 022	46 203	128 364	100 244	225 345	9 322
337124	Metal household furniture manufacturing . . . . .	1	12	2	323	8 898	262	486	6 166	13 866	17 833	31 833	312
337125	Household furniture (except wood and metal) manufacturing . . . . .	—	7	2	e	D	D	D	D	D	D	D	441
337127	Institutional furniture manufacturing . . . . .	—	39	19	2 394	92 732	1 661	3 418	52 282	215 995	171 103	388 188	15 294
3372	Office furniture (including fixtures) manufacturing . . . . .	2	194	86	22 007	916 977	15 321	29 318	473 510	2 800 958	1 829 285	4 592 820	124 926
33721	Office furniture (including fixtures) manufacturing . . . . .	2	194	86	22 007	916 977	15 321	29 318	473 510	2 800 958	1 829 285	4 592 820	124 926
337211	Wood office furniture manufacturing . . . . .	—	30	13	2 115	64 375	1 694	2 740	43 612	127 282	86 651	215 389	6 800
337212	Custom architectural woodwork and millwork manufacturing . . . . .	5	42	11	787	29 796	549	1 109	17 093	51 007	29 918	81 065	2 030
337214	Office furniture (except wood) manufacturing . . . . .	2	28	19	14 701	681 489	9 878	19 957	330 065	2 313 012	1 407 950	3 693 216	101 371
337215	Showcase, partition, shelving, and locker manufacturing . . . . .	3	94	43	4 404	141 317	3 200	5 512	82 740	309 657	304 766	603 150	14 725

**Table 1. Industry Statistics for the State: 2002—Con.**

[Includes data for industry groups and industries with 100 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
		E <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)					Wages (\$1,000)
<b>MICHIGAN—Con.</b>													
337	Furniture and related product manufacturing—Con.												
3379	Other furniture related product manufacturing .....	5	29	13	772	22 688	590	1 048	14 354	58 395	56 637	115 160	2 320
33791	Mattress manufacturing .....	6	19	9	592	16 199	485	846	11 376	51 075	41 214	92 157	1 844
337910	Mattress manufacturing .....	6	19	9	592	16 199	485	846	11 376	51 075	41 214	92 157	1 844
33792	Blind and shade manufacturing .....	2	10	4	180	6 489	105	202	2 978	7 320	15 423	23 003	476
337920	Blind and shade manufacturing .....	2	10	4	180	6 489	105	202	2 978	7 320	15 423	23 003	476
339	Miscellaneous manufacturing .....	3	1 045	178	16 330	614 977	10 571	20 095	310 137	1 713 471	988 362	2 697 721	64 238
3391	Medical equipment and supplies manufacturing .....	3	387	69	7 613	301 696	4 799	9 388	144 300	995 038	458 309	1 446 819	32 823
33911	Medical equipment and supplies manufacturing .....	3	387	69	7 613	301 696	4 799	9 388	144 300	995 038	458 309	1 446 819	32 823
339111	Laboratory apparatus and furniture manufacturing .....	—	18	10	838	29 538	448	939	11 868	69 274	47 758	121 564	1 356
339112	Surgical and medical instrument manufacturing .....	5	32	13	1 260	49 419	792	1 609	23 532	261 833	85 413	346 039	10 550
339113	Surgical appliance and supplies manufacturing .....	4	63	23	2 972	138 748	1 768	3 639	55 884	462 908	252 123	708 501	15 550
339114	Dental equipment and supplies manufacturing .....	—	34	3	415	17 255	284	511	8 952	73 707	36 247	106 304	982
339115	Ophthalmic goods manufacturing .....	2	18	6	398	14 964	204	364	5 578	33 973	15 559	49 712	1 426
339116	Dental laboratories .....	3	222	14	1 730	51 772	1 303	2 326	38 486	93 343	21 209	114 699	2 959
3399	Other miscellaneous manufacturing .....	2	658	109	8 717	313 281	5 772	10 707	165 837	718 433	530 053	1 250 902	31 415
33991	Jewelry and silverware manufacturing .....	5	36	1	139	3 521	82	144	1 951	7 091	7 413	15 308	458
33992	Sporting and athletic goods manufacturing .....	1	80	14	948	29 134	631	1 078	13 396	142 314	119 752	267 959	5 729
339920	Sporting and athletic goods manufacturing .....	1	80	14	948	29 134	631	1 078	13 396	142 314	119 752	267 959	5 729
33993	Doll, toy, and game manufacturing .....	1	29	4	372	10 416	243	458	4 649	19 498	25 312	45 645	3 815
339932	Game, toy, and children's vehicle manufacturing .....	1	25	3	342	9 785	224	428	4 363	17 745	23 594	42 194	D
33994	Office supplies (except paper) manufacturing .....	1	24	2	276	9 653	153	302	4 029	29 327	14 623	43 229	1 413
339943	Marking device manufacturing .....	1	17	1	160	5 721	83	160	2 151	10 878	6 548	17 071	D
33995	Sign manufacturing .....	2	216	32	2 542	104 953	1 482	2 877	47 802	177 344	109 655	289 646	4 736
339950	Sign manufacturing .....	2	216	32	2 542	104 953	1 482	2 877	47 802	177 344	109 655	289 646	4 736
33999	All other miscellaneous manufacturing .....	2	273	56	4 440	155 604	3 181	5 848	94 010	342 859	253 298	589 115	15 264
339991	Gasket, packing, and sealing device manufacturing .....	4	26	15	907	34 057	607	1 270	18 153	76 227	43 975	120 358	1 468
339992	Musical instrument manufacturing .....	1	16	5	440	15 960	365	698	11 618	29 373	31 630	59 926	738
339994	Broom, brush, and mop manufacturing .....	—	8	3	340	11 949	238	411	6 290	28 226	20 727	47 672	540
339999	All other miscellaneous manufacturing .....	1	212	32	2 616	90 966	1 841	3 268	55 641	200 724	153 725	349 600	12 419

<sup>1</sup>Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data 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.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Industries with 100 employees or more are shown. Some statistics are withheld to avoid disclosing data for individual companies. If employment is 100 or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: c–100 to 249 employees; e–250 to 499 employees; f–500 to 999 employees; g–1,000 to 2,499 employees; h–2,500 to 4,999 employees; i–5,000 to 9,999 employees; j–10,000 to 24,999 employees; k–25,000 to 49,999 employees; l–50,000 to 99,999 employees; m–100,000 employees or more.

<sup>4</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

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 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. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>DETROIT-WARREN-FLINT, MI COMBINED STATISTICAL AREA</b>												
31-33	Manufacturing .....	-	7 756	'2 511	'368 538	'18 277 966	'278 949	'546 635	'12 979 331	'51 270 118	'79 947 152	'131 140 654	'2 892 868
311	Food manufacturing .....	2	402	83	i	D	D	D	D	D	D	D	D
3112	Grain and oilseed milling .....	1	6	2	e	D	D	D	D	D	D	D	D
31121	Flour milling and malt manufacturing .....	-	3	1	e	D	D	D	D	D	D	D	D
311211	Flour milling .....	-	3	1	e	D	D	D	D	D	D	D	D
3114	Fruit and vegetable preserving and specialty food manufacturing .....	1	14	5	670	20 831	584	1 193	15 801	78 609	90 814	169 422	D
31142	Fruit and vegetable canning, pickling, and drying .....	-	8	1	e	D	D	D	D	D	D	D	D
311421	Fruit and vegetable canning ..	-	7	1	e	D	D	D	D	D	D	D	D
3115	Dairy product manufacturing .....	-	16	8	g	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) manufacturing .....	-	10	6	f	D	D	D	D	D	D	D	D
311511	Fluid milk manufacturing .....	-	6	4	f	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	2	37	19	h	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing .....	2	37	19	h	D	D	D	D	D	D	D	D
311612	Meat processed from carcasses .....	2	21	14	g	D	D	D	D	D	D	D	D
311615	Poultry processing .....	9	2	2	f	D	D	D	D	D	D	D	D
3118	Bakeries and tortilla manufacturing .....	5	245	31	h	D	D	D	D	D	D	D	D
31181	Bread and bakery product manufacturing .....	6	230	28	g	D	D	D	D	D	D	D	D
311811	Retail bakeries .....	4	190	15	g	D	D	D	D	D	D	D	D
311812	Commercial bakeries .....	4	37	11	f	D	D	D	D	D	D	D	D
311813	Frozen cakes, pies, and other pastries manufacturing .....	9	3	2	e	D	D	D	D	D	D	D	D
3119	Other food manufacturing .....	2	59	14	g	D	D	D	D	D	D	D	D
31191	Snack food manufacturing .....	1	10	6	f	D	D	D	D	D	D	D	D
311919	Other snack food manufacturing .....	1	9	5	f	D	D	D	D	D	D	D	D
31199	All other food manufacturing .....	5	34	6	e	D	D	D	D	D	D	D	D
312	Beverage and tobacco product manufacturing .....	-	31	9	g	D	D	D	D	D	D	D	D
3121	Beverage manufacturing .....	-	30	9	g	D	D	D	D	D	D	D	D
31211	Soft drink and ice manufacturing .....	-	17	9	g	D	D	D	D	D	D	D	D
312111	Soft drink manufacturing .....	-	7	7	g	D	D	D	D	D	D	D	D
313	Textile mills .....	3	29	3	e	D	D	D	D	D	D	D	D
314	Textile product mills .....	5	104	9	g	D	D	D	D	D	D	D	D
3141	Textile furnishings mills .....	8	42	1	e	D	D	D	D	D	D	D	D
3149	Other textile product mills .....	3	62	8	g	D	D	D	D	D	D	D	D
31491	Textile bag and canvas mills ..	5	36	5	e	D	D	D	D	D	D	D	D
314912	Canvas and related product mills .....	5	32	5	e	D	D	D	D	D	D	D	D
31499	All other textile product mills ..	2	26	3	f	D	D	D	D	D	D	D	D
314999	All other miscellaneous textile product mills .....	2	26	3	f	D	D	D	D	D	D	D	D
315	Apparel manufacturing .....	8	81	5	e	D	D	D	D	D	D	D	D
3152	Cut and sew apparel manufacturing .....	8	58	4	e	D	D	D	D	D	D	D	D
31521	Cut and sew apparel contractors .....	5	38	3	e	D	D	D	D	D	D	D	D
316	Leather and allied product manufacturing .....	-	11	4	f	D	D	D	D	D	D	D	D
3161	Leather and hide tanning and finishing .....	-	5	3	f	D	D	D	D	D	D	D	D
31611	Leather and hide tanning and finishing .....	-	5	3	f	D	D	D	D	D	D	D	D
316110	Leather and hide tanning and finishing .....	-	5	3	f	D	D	D	D	D	D	D	D

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>DETROIT-WARREN-FLINT, MI COMBINED STATISTICAL AREA—Con.</b>													
321	Wood product manufacturing .....	2	115	24	g	D	D	D	D	D	D	D	D
3212	Veneer, plywood, and engineered wood product manufacturing ....	2	11	4	e	D	D	D	D	D	D	D	D
32121	Veneer, plywood, and engineered wood product manufacturing .....	2	11	4	e	D	D	D	D	D	D	D	D
321214	Truss manufacturing .....	2	8	4	e	D	D	D	D	D	D	D	D
3219	Other wood product manufacturing .....	2	96	20	g	D	D	D	D	D	D	D	D
32191	Millwork .....	3	43	9	e	D	D	D	D	D	D	D	D
32192	Wood container and pallet manufacturing .....	1	27	7	e	D	D	D	D	D	D	D	D
321920	Wood container and pallet manufacturing .....	1	27	7	e	D	D	D	D	D	D	D	D
32199	All other wood product manufacturing .....	2	26	4	e	D	D	D	D	D	D	D	D
322	Paper manufacturing .....	1	81	45	h	D	D	D	D	D	D	D	D
3221	Pulp, paper, and paperboard mills .....	—	5	5	896	51 276	602	1 410	32 125	116 558	173 082	292 100	6 656
32212	Paper mills .....	—	5	5	896	51 276	602	1 410	32 125	116 558	173 082	292 100	6 656
322121	Paper (except newsprint) mills .....	—	5	5	896	51 276	602	1 410	32 125	116 558	173 082	292 100	6 656
3222	Converted paper product manufacturing .....	2	76	40	h	D	D	D	D	D	D	D	D
32221	Paperboard container manufacturing .....	2	46	27	h	D	D	D	D	D	D	D	D
322211	Corrugated and solid fiber box manufacturing .....	2	35	21	g	D	D	D	D	D	D	D	D
32222	Paper bag and coated and treated paper manufacturing ..	—	11	4	e	D	D	D	D	D	D	D	D
322222	Coated and laminated paper manufacturing .....	—	8	3	e	D	D	D	D	D	D	D	D
32223	Stationery product manufacturing .....	2	11	6	e	D	D	D	D	D	D	D	D
32229	Other converted paper product manufacturing .....	9	8	3	318	10 848	253	523	6 940	22 607	19 515	42 122	1 295
322299	All other converted paper product manufacturing .....	9	7	3	e	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	2	634	97	i	D	D	D	D	D	D	D	37 189
3231	Printing and related support activities .....	2	634	97	i	D	D	D	D	D	D	D	37 189
32311	Printing .....	2	570	91	i	D	D	D	D	D	D	D	35 704
323110	Commercial lithographic printing .....	1	246	52	3 973	163 694	2 696	5 104	94 983	432 719	298 208	730 999	15 869
323112	Commercial flexographic printing .....	1	18	7	f	D	D	D	D	D	D	D	D
323113	Commercial screen printing ..	1	61	4	f	D	D	D	D	D	D	D	2 443
323114	Quick printing .....	3	160	7	f	D	D	D	D	D	D	D	D
323116	Manifold business forms printing .....	1	11	4	e	D	D	D	D	D	D	D	D
323117	Books printing .....	2	17	10	1 994	70 696	1 507	2 986	50 005	130 071	95 288	226 500	10 139
32312	Support activities for printing ...	1	64	6	f	D	D	D	D	D	D	D	1 485
323122	Prepress services .....	1	51	6	e	D	D	D	D	D	D	D	D
324	Petroleum and coal products manufacturing .....	—	52	15	g	D	D	D	D	D	D	D	D
3241	Petroleum and coal products manufacturing .....	—	52	15	g	D	D	D	D	D	D	D	D
32411	Petroleum refineries .....	—	3	2	e	D	D	D	D	D	D	D	D
324110	Petroleum refineries .....	—	3	2	e	D	D	D	D	D	D	D	D
32412	Asphalt paving, roofing, and saturated materials manufacturing .....	1	24	5	e	D	D	D	D	D	D	D	D
324121	Asphalt paving mixture and block manufacturing .....	1	22	3	e	D	D	D	D	D	D	D	D
32419	Other petroleum and coal products manufacturing .....	3	25	8	f	D	D	D	D	D	D	D	D
324191	Petroleum lubricating oil and grease manufacturing .....	2	22	7	e	D	D	D	D	D	D	D	D
324199	All other petroleum and coal products manufacturing .....	9	3	1	e	D	D	D	D	D	D	D	D
325	Chemical manufacturing .....	1	215	92	i	D	D	D	D	D	D	D	D
3251	Basic chemical manufacturing ...	2	29	13	f	D	D	D	D	D	D	D	D
32519	Other basic organic chemical manufacturing .....	2	15	6	e	D	D	D	D	D	D	D	D
325199	All other basic organic chemical manufacturing .....	2	14	5	e	D	D	D	D	D	D	D	D

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)					
	<b>DETROIT-WARREN-FLINT, MI COMBINED STATISTICAL AREA—Con.</b>													
325	Chemical manufacturing—Con.													
3252	Resin, synthetic rubber, and artificial synthetic fibers and filaments manufacturing .....	—	20	13	g	D	D	D	D	D	D	D	D	
32521	Resin and synthetic rubber manufacturing .....	—	20	13	g	D	D	D	D	D	D	D	D	
325211	Plastics material and resin manufacturing .....	—	17	13	g	D	D	D	D	D	D	D	D	
3254	Pharmaceutical and medicine manufacturing .....	—	21	12	g	D	D	D	D	D	D	D	D	
32541	Pharmaceutical and medicine manufacturing .....	—	21	12	g	D	D	D	D	D	D	D	D	
325412	Pharmaceutical preparation manufacturing .....	—	8	5	f	D	D	D	D	D	D	D	20 513	
325414	Biological product (except diagnostic) manufacturing ..	—	4	3	e	D	D	D	D	D	D	D	D	
3255	Paint, coating, and adhesive manufacturing .....	1	50	20	g	D	D	D	D	D	D	D	D	
32551	Paint and coating manufacturing .....	—	36	14	g	D	D	D	D	D	D	D	D	
325510	Paint and coating manufacturing .....	—	36	14	g	D	D	D	D	D	D	D	D	
32552	Adhesive manufacturing .....	6	14	6	f	D	D	D	D	D	D	D	D	
325520	Adhesive manufacturing .....	6	14	6	f	D	D	D	D	D	D	D	D	
3256	Soap, cleaning compound, and toilet preparation manufacturing .	6	35	7	f	D	D	D	D	D	D	D	D	
32561	Soap and cleaning compound manufacturing .....	7	29	6	f	D	D	D	D	D	D	D	D	
325612	Polish and other sanitation good manufacturing .....	8	12	4	e	D	D	D	D	D	D	D	D	
3259	Other chemical product and preparation manufacturing .....	1	57	26	g	D	D	D	D	D	D	D	D	
32591	Printing ink manufacturing .....	—	4	1	e	D	D	D	D	D	D	D	D	
325910	Printing ink manufacturing .....	—	4	1	e	D	D	D	D	D	D	D	D	
32599	All other chemical product and preparation manufacturing ...	1	52	24	g	D	D	D	D	D	D	D	D	
325991	Custom compounding of purchased resins .....	1	22	12	f	D	D	D	D	D	D	D	D	
325998	All other miscellaneous chemical product and preparation manufacturing .	—	23	10	f	D	D	D	D	D	D	D	D	
326	Plastics and rubber products manufacturing .....	1	371	201	j	25 105	842 561	19 127	37 689	524 584	2 284 214	1 841 215	4 138 084	144 671
3261	Plastics product manufacturing ..	1	327	187	j		D	D	D	D	D	D	D	
32611	Plastics packaging materials and unlaminate film and sheet manufacturing .....	1	20	5		720	41 004	478	1 033	25 695	148 643	105 874	258 517	4 974
326113	Unlaminated plastics film and sheet (except packaging) manufacturing .....	1	15	3		535	31 400	352	768	20 195	126 441	85 139	214 868	3 532
32612	Plastics pipe, pipe fitting, and unlaminate profile shape manufacturing .....	—	19	7	f	D	D	D	D	D	D	D	8 844	
326121	Unlaminated plastics profile shape manufacturing .....	—	13	4		442	13 787	255	493	6 015	25 261	31 372	56 256	D
326122	Plastics pipe and pipe fitting manufacturing .....	—	6	3	e	D	D	D	D	D	D	D	D	
32614	Polystyrene foam product manufacturing .....	—	9	7	f	D	D	D	D	D	D	D	D	
326140	Polystyrene foam product manufacturing .....	—	9	7	f	D	D	D	D	D	D	D	D	
32615	Urethane and other foam product (except polystyrene) manufacturing .....	1	21	10	g	D	D	D	D	D	D	D	D	
326150	Urethane and other foam product (except polystyrene) manufacturing .....	1	21	10	g	D	D	D	D	D	D	D	D	
32616	Plastics bottle manufacturing ..	—	2	2	e	D	D	D	D	D	D	D	D	
326160	Plastics bottle manufacturing ..	—	2	2	e	D	D	D	D	D	D	D	D	
32619	Other plastics product manufacturing .....	1	255	156	j	D	D	D	D	D	D	D	D	
326191	Plastics plumbing fixture manufacturing .....	4	11	6	e	D	D	D	D	D	D	D	D	
326199	All other plastics product manufacturing .....	1	244	150	j	D	D	D	D	D	D	D	D	
3262	Rubber product manufacturing ...	1	44	14	g	D	D	D	D	D	D	D	D	
32629	Other rubber product manufacturing .....	1	30	14		1 350	39 673	983	1 668	21 488	100 942	91 488	192 982	17 375
326291	Rubber product manufacturing for mechanical use .....	—	15	9		1 096	31 184	798	1 261	16 543	80 742	71 376	152 553	16 678
326299	All other rubber product manufacturing .....	7	15	5		254	8 489	185	407	4 945	20 200	20 112	40 429	697

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>DETROIT-WARREN-FLINT, MI COMBINED STATISTICAL AREA—Con.</b>													
327	Nonmetallic mineral product manufacturing .....	2	230	89	i	D	D	D	D	D	D	D	D
3271	Clay product and refractory manufacturing .....	2	25	7	e	D	D	D	D	D	D	D	D
3272	Glass and glass product manufacturing .....	1	30	11	g	D	D	D	D	D	D	D	D
32721	Glass and glass product manufacturing .....	1	30	11	g	D	D	D	D	D	D	D	D
327211	Flat glass manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
327215	Glass product manufacturing made of purchased glass ..	—	25	8	g	D	D	D	D	D	D	D	D
3273	Cement and concrete product manufacturing .....	1	117	56	h	D	D	D	D	D	D	D	D
32731	Cement manufacturing .....	2	6	4	e	D	D	D	D	D	D	D	D
327310	Cement manufacturing .....	2	6	4	e	D	D	D	D	D	D	D	D
32732	Ready-mix concrete manufacturing .....	1	65	36	g	D	D	D	D	D	D	D	D
327320	Ready-mix concrete manufacturing .....	1	65	36	g	D	D	D	D	D	D	D	D
32733	Concrete pipe, brick, and block manufacturing .....	2	18	9	e	D	D	D	D	D	D	D	D
327331	Concrete block and brick manufacturing .....	4	12	5	e	D	D	D	D	D	D	D	D
32739	Other concrete product manufacturing .....	—	28	7	g	D	D	D	D	D	D	D	D
327390	Other concrete product manufacturing .....	—	28	7	g	D	D	D	D	D	D	D	D
3279	Other nonmetallic mineral product manufacturing .....	4	55	15	g	D	D	D	D	D	D	D	D
32791	Abrasive product manufacturing .....	5	24	10	f	D	D	D	D	D	D	D	D
327910	Abrasive product manufacturing .....	5	24	10	f	D	D	D	D	D	D	D	D
32799	All other nonmetallic mineral product manufacturing .....	1	31	5	e	D	D	D	D	D	D	D	D
331	Primary metal manufacturing .....	—	116	61	j	D	D	D	D	D	D	D	D
3311	Iron and steel mills and ferroalloy manufacturing .....	—	14	7	i	D	D	D	D	D	D	D	D
33111	Iron and steel mills and ferroalloy manufacturing .....	—	14	7	i	D	D	D	D	D	D	D	D
331111	Iron and steel mills .....	—	14	7	i	D	D	D	D	D	D	D	D
3312	Steel product manufacturing from purchased steel .....	—	26	20	g	D	D	D	D	D	D	D	D
33121	Iron and steel pipe and tube manufacturing from purchased steel .....	—	6	5	f	D	D	D	D	D	D	D	D
331210	Iron and steel pipe and tube manufacturing from purchased steel .....	—	6	5	f	D	D	D	D	D	D	D	D
33122	Rolling and drawing of purchased steel .....	—	20	15	f	D	D	D	D	D	D	D	D
331221	Rolled steel shape manufacturing .....	—	15	11	f	D	D	D	D	D	D	D	D
3314	Nonferrous metal (except aluminum) production and processing .....	2	17	5	676	31 749	498	1 067	21 385	84 868	162 983	245 215	D
33142	Copper rolling, drawing, extruding, and alloying .....	—	1	1	e	D	D	D	D	D	D	D	D
331421	Copper rolling, drawing, and extruding .....	—	1	1	e	D	D	D	D	D	D	D	D
33149	Nonferrous metal (except copper and aluminum) rolling, drawing, extruding, and alloying .....	5	14	4	e	D	D	D	D	D	D	D	D
331491	Nonferrous metal (except copper and aluminum) rolling, drawing, and extruding .....	6	9	2	301	13 124	213	422	8 441	20 947	32 336	56 099	D
3315	Foundries .....	2	49	25	g	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries .....	2	27	16	806	31 839	587	1 142	19 214	84 392	83 621	169 167	4 392
331511	Iron foundries .....	2	10	6	e	D	D	D	D	D	D	D	2 037
331512	Steel investment foundries ..	4	6	6	e	D	D	D	D	D	D	D	910
33152	Nonferrous metal foundries .....	2	22	9	f	D	D	D	D	D	D	D	D

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
		E <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)					Wages (\$1,000)
	<b>DETROIT-WARREN-FLINT, MI COMBINED STATISTICAL AREA—Con.</b>												
332	Fabricated metal product manufacturing .....	2	1 972	594	49 860	1 929 946	37 061	75 135	1 253 725	14 406 240	13 298 858	17 714 156	272 934
3321	Forging and stamping.....	1	103	50	h	D	D	D	D	D	D	D	D
33211	Forging and stamping.....	1	103	50	h	D	D	D	D	D	D	D	D
332111	Iron and steel forging .....	1	25	16	1 426	64 973	1 055	2 110	42 811	193 799	234 190	423 749	5 051
332112	Nonferrous forging .....	4	9	6	e	D	D	D	D	D	D	D	D
332114	Custom roll forming .....	1	14	8	e	D	D	D	D	D	D	D	D
332116	Metal stamping .....	2	50	20	g	D	D	D	D	D	D	D	D
3322	Cutlery and handtool manufacturing .....	1	73	24	g	D	D	D	D	D	D	D	D
33221	Cutlery and handtool manufacturing .....	1	73	24	g	D	D	D	D	D	D	D	D
332212	Hand and edge tool manufacturing .....	1	66	22	g	D	D	D	D	D	D	D	D
332214	Kitchen utensil, pot, and pan manufacturing .....	—	2	2	e	D	D	D	D	D	D	D	D
3323	Architectural and structural metals manufacturing .....	2	259	64	i	D	D	D	D	D	D	D	D
33231	Plate work and fabricated structural product manufacturing .....	2	122	28	h	D	D	D	D	D	D	D	D
332311	Prefabricated metal building and component manufacturing .....	1	12	2	e	D	D	D	D	D	D	D	D
332312	Fabricated structural metal manufacturing .....	2	77	14	g	D	D	D	D	D	D	D	D
332313	Plate work manufacturing .....	3	33	12	g	D	D	D	D	D	D	D	D
33232	Ornamental and architectural metal products manufacturing .....	1	137	36	h	D	D	D	D	D	D	D	D
332321	Metal window and door manufacturing .....	2	23	12	f	D	D	D	D	D	D	D	D
332322	Sheet metal work manufacturing .....	1	83	22	g	D	D	D	D	D	D	D	D
3324	Boiler, tank, and shipping container manufacturing .....	6	23	6	e	D	D	D	D	D	D	D	D
3325	Hardware manufacturing .....	1	30	10	h	D	D	D	D	D	D	D	D
33251	Hardware manufacturing .....	1	30	10	h	D	D	D	D	D	D	D	D
332510	Hardware manufacturing .....	1	30	10	h	D	D	D	D	D	D	D	D
3326	Spring and wire product manufacturing .....	2	61	22	1 289	48 150	945	1 929	30 055	113 520	87 404	200 113	6 965
33261	Spring and wire product manufacturing .....	2	61	22	1 289	48 150	945	1 929	30 055	113 520	87 404	200 113	6 965
332612	Spring (light gauge) manufacturing .....	—	17	10	f	D	D	D	D	D	D	D	D
332618	Other fabricated wire product manufacturing .....	4	38	10	f	D	D	D	D	D	D	D	D
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	3	916	228	j	D	D	D	D	D	D	D	D
33271	Machine shops .....	3	703	115	9 786	407 842	7 262	14 687	267 261	863 969	509 567	1 378 473	87 666
332710	Machine shops .....	3	703	115	9 786	407 842	7 262	14 687	267 261	863 969	509 567	1 378 473	87 666
33272	Turned product and screw, nut, and bolt manufacturing .....	3	213	113	i	D	D	D	D	D	D	D	D
332721	Precision turned product manufacturing .....	2	141	69	h	D	D	D	D	D	D	D	D
332722	Bolt, nut, screw, rivet, and washer manufacturing .....	4	72	44	h	D	D	D	D	D	D	D	D
3328	Coating, engraving, heat treating, and allied activities .....	1	291	125	9 091	314 129	6 989	13 721	204 907	752 307	296 076	1 049 774	39 589
33281	Coating, engraving, heat treating, and allied activities ..	1	291	125	9 091	314 129	6 989	13 721	204 907	752 307	296 076	1 049 774	39 589
332811	Metal heat treating .....	1	80	42	g	D	D	D	D	D	D	D	D
332812	Metal coating, engraving (except jewelry and silverware), and allied services to manufacturers ..	1	102	45	h	D	D	D	D	D	D	D	D
332813	Electroplating, plating, polishing, anodizing, and coloring .....	—	109	38	h	D	D	D	D	D	D	D	D
3329	Other fabricated metal product manufacturing .....	1	216	65	i	D	D	D	D	D	D	D	D
33291	Metal valve manufacturing .....	1	36	11	g	D	D	D	D	D	D	D	D
332911	Industrial valve manufacturing .....	—	7	2	e	D	D	D	D	D	D	D	D
332912	Fluid power valve and hose fitting manufacturing .....	—	20	7	g	D	D	D	D	D	D	D	D

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>DETROIT-WARREN-FLINT, MI COMBINED STATISTICAL AREA—Con.</b>												
332	Fabricated metal product manufacturing—Con.												
3329	Other fabricated metal product manufacturing—Con.												
33299	All other fabricated metal product manufacturing . . . . .	1	180	54	h	D	D	D	D	D	D	D	D
332991	Ball and roller bearing manufacturing . . . . .	—	3	3	446	20 754	354	798	14 502	18 814	82 922	111 803	1 711
332996	Fabricated pipe and pipe fitting manufacturing . . . . .	4	35	14	f	D	D	D	D	D	D	D	D
332997	Industrial pattern manufacturing . . . . .	—	28	11	984	51 399	810	1 700	41 633	91 051	38 205	128 661	3 736
332999	All other miscellaneous fabricated metal product manufacturing . . . . .	2	106	24	g	D	D	D	D	D	D	D	D
333	Machinery manufacturing . . . . .	1	'1 442	514	'45 627	'2 359 697	'27 600	'55 819	'1 229 314	'5 117 026	'4 383 478	'9 578 992	'265 933
3331	Agriculture, construction, and mining machinery manufacturing . . . . .	—	13	3	e	D	D	D	D	D	D	D	D
3332	Industrial machinery manufacturing . . . . .	1	'97	34	h	D	D	D	D	D	D	D	D
33322	Plastics and rubber industry machinery manufacturing . . . . .	—	'23	9	f	D	D	D	D	D	D	D	D
333220	Plastics and rubber industry machinery manufacturing . . . . .	—	'23	9	f	D	D	D	D	D	D	D	D
33329	Other industrial machinery manufacturing . . . . .	1	72	25	g	D	D	D	D	D	D	D	D
333298	All other industrial machinery manufacturing . . . . .	1	62	24	g	D	D	D	D	D	D	D	D
3333	Commercial and service industry machinery manufacturing . . . . .	2	32	10	f	D	D	D	D	D	D	D	D
33331	Commercial and service industry machinery manufacturing . . . . .	2	32	10	f	D	D	D	D	D	D	D	D
333314	Optical instrument and lens manufacturing . . . . .	—	6	4	e	D	D	D	D	D	D	D	D
333319	Other commercial and service industry machinery manufacturing . . . . .	2	23	6	f	D	D	D	D	D	D	D	D
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing . . . . .	2	33	15	f	D	D	D	D	D	D	D	D
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing . . . . .	2	33	15	f	D	D	D	D	D	D	D	D
333414	Heating equipment (except warm air furnaces) manufacturing . . . . .	—	9	3	e	D	D	D	D	D	D	D	D
333415	Air-conditioning and warm air heating equipment and commercial and industrial refrigeration equipment manufacturing . . . . .	4	15	6	e	D	D	D	D	D	D	D	D
3335	Metalworking machinery manufacturing . . . . .	2	'968	'342	'25 481	'1 274 378	'17 237	'34 976	'784 394	'2 521 977	'1 418 524	'4 027 553	D
33351	Metalworking machinery manufacturing . . . . .	2	'968	'342	'25 481	'1 274 378	'17 237	'34 976	'784 394	'2 521 977	'1 418 524	'4 027 553	D
333511	Industrial mold manufacturing . . . . .	2	149	49	h	D	D	D	D	D	D	D	D
333512	Machine tool (metal cutting types) manufacturing . . . . .	1	60	35	g	D	D	D	D	D	D	D	D
333513	Machine tool (metal forming types) manufacturing . . . . .	1	16	9	e	D	D	D	D	D	D	D	D
333514	Special die and tool, die set, jig, and fixture manufacturing . . . . .	2	452	148	11 557	577 720	8 553	17 085	396 407	1 053 332	465 970	1 564 932	D
333515	Cutting tool and machine tool accessory manufacturing . . . . .	2	222	66	3 948	169 136	2 613	5 210	102 452	354 801	174 459	537 432	18 967
333518	Other metalworking machinery manufacturing . . . . .	3	'63	'34	h	D	D	D	D	D	D	D	D
3336	Engine, turbine, and power transmission equipment manufacturing . . . . .	—	36	17	h	D	D	D	D	D	D	D	D
33361	Engine, turbine, and power transmission equipment manufacturing . . . . .	—	36	17	h	D	D	D	D	D	D	D	D
333612	Speed changer, industrial high-speed drive, and gear manufacturing . . . . .	—	12	7	380	15 422	290	591	9 921	33 288	21 398	54 556	D
333618	Other engine equipment manufacturing . . . . .	—	12	7	3 077	183 567	1 709	3 779	83 996	686 028	973 781	1 671 982	D

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>DETROIT-WARREN-FLINT, MI COMBINED STATISTICAL AREA—Con.</b>												
333	Machinery manufacturing—Con.												
3339	Other general purpose machinery manufacturing .....	1	'263	'93	j	D	D	D	D	D	D	D	D
33391	Pump and compressor manufacturing .....	1	13	4	e	D	D	D	D	D	D	D	1 422
333912	Air and gas compressor manufacturing .....	1	7	2	252	17 824	70	155	4 297	56 935	21 967	79 709	729
33392	Material handling equipment manufacturing .....	—	'64	'31	g	D	D	D	D	D	D	D	D
333922	Conveyor and conveying equipment manufacturing ..	—	'42	'20	g	D	D	D	D	D	D	D	D
333923	Overhead traveling crane, hoist, and monorail system manufacturing .....	—	12	6	e	D	D	D	D	D	D	D	D
333924	Industrial truck, tractor, trailer, and stacker machinery manufacturing ..	—	6	2	e	D	D	D	D	D	D	D	D
33399	All other general purpose machinery manufacturing ....	1	186	58	i	D	D	D	D	D	D	D	D
333992	Welding and soldering equipment manufacturing ..	1	26	15	2 663	166 244	1 286	2 682	68 428	377 455	411 392	729 222	9 570
333993	Packaging machinery manufacturing .....	—	9	3	e	D	D	D	D	D	D	D	D
333994	Industrial process furnace and oven manufacturing ...	3	23	7	489	24 378	309	619	12 548	45 256	29 001	74 069	1 057
333995	Fluid power cylinder and actuator manufacturing ....	—	11	5	e	D	D	D	D	D	D	D	D
333999	All other miscellaneous general purpose machinery manufacturing .....	1	101	24	h	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing .....	—	'270	83	j	D	D	D	D	D	D	D	D
3341	Computer and peripheral equipment manufacturing .....	1	'30	7	g	D	D	D	D	D	D	D	D
33411	Computer and peripheral equipment manufacturing ....	1	'30	7	g	D	D	D	D	D	D	D	D
334111	Electronic computer manufacturing .....	—	'13	6	g	D	D	D	D	D	D	D	D
3342	Communications equipment manufacturing .....	1	16	7	f	D	D	D	D	D	D	D	D
33421	Telephone apparatus manufacturing .....	1	5	3	e	D	D	D	D	D	D	D	D
334210	Telephone apparatus manufacturing .....	1	5	3	e	D	D	D	D	D	D	D	D
33429	Other communications equipment manufacturing ....	1	9	4	e	D	D	D	D	D	D	D	D
334290	Other communications equipment manufacturing ..	1	9	4	e	D	D	D	D	D	D	D	D
3344	Semiconductor and other electronic component manufacturing .....	1	80	29	h	D	D	D	D	D	D	D	D
33441	Semiconductor and other electronic component manufacturing .....	1	80	29	h	D	D	D	D	D	D	D	D
334412	Bare printed circuit board manufacturing .....	8	16	6	e	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) manufacturing .....	—	12	8	g	D	D	D	D	D	D	D	D
334419	Other electronic component manufacturing .....	—	26	8	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	—	120	34	i	D	D	D	D	D	D	D	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	—	120	34	i	D	D	D	D	D	D	D	D
334510	Electromedical and electrotherapeutic apparatus manufacturing ...	8	4	2	e	D	D	D	D	D	D	D	D
334513	Instruments and related products manufacturing for measuring, displaying, and controlling industrial process variables .....	1	33	14	g	D	D	D	D	D	D	D	D
334514	Totalizing fluid meter and counting device manufacturing .....	—	5	3	h	D	D	D	D	D	D	D	D
334515	Instrument manufacturing for measuring and testing electricity and electrical signals .....	9	17	1	e	D	D	D	D	D	D	D	D
334519	Other measuring and controlling device manufacturing .....	1	31	6	f	D	D	D	D	D	D	D	1 933

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E1	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>DETROIT-WARREN-FLINT, MI COMBINED STATISTICAL AREA—Con.</b>												
334	Computer and electronic product manufacturing—Con.												
3346	Manufacturing and reproducing magnetic and optical media.....	-	17	5	g	D	D	D	D	D	D	D	D
33461	Manufacturing and reproducing magnetic and optical media...	-	17	5	g	D	D	D	D	D	D	D	D
334612	Prerecorded compact disc (except software), tape, and record reproducing .....	-	11	3	g	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing .....	2	146	44	h	D	D	D	D	D	D	D	D
3353	Electrical equipment manufacturing .....	2	87	25	g	D	D	D	D	D	D	D	D
33531	Electrical equipment manufacturing .....	2	87	25	g	D	D	D	D	D	D	D	D
335313	Switchgear and switchboard apparatus manufacturing ...	3	21	4	e	D	D	D	D	D	D	D	D
335314	Relay and industrial control manufacturing .....	1	49	14	g	D	D	D	D	D	D	D	D
3359	Other electrical equipment and component manufacturing .....	1	45	16	g	D	D	D	D	D	D	D	D
33593	Wiring device manufacturing ...	-	11	5	f	D	D	D	D	D	D	D	D
335931	Current-carrying wiring device manufacturing .....	-	7	4	f	D	D	D	D	D	D	D	D
33599	All other electrical equipment and component manufacturing .....	1	27	8	f	D	D	D	D	D	D	D	D
335999	All other miscellaneous electrical equipment and component manufacturing ..	1	24	7	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	639	395	m	D	D	D	D	D	D	D	1 640 583
3361	Motor vehicle manufacturing .....	-	23	17	k	D	D	D	D	D	D	D	D
33611	Automobile and light duty motor vehicle manufacturing .....	-	21	16	k	D	D	D	D	D	D	D	D
336111	Automobile manufacturing ...	-	16	11	j	D	D	D	D	D	D	D	D
336112	Light truck and utility vehicle manufacturing .....	-	5	5	j	D	D	D	D	D	D	D	D
33612	Heavy duty truck manufacturing .....	2	2	1	e	D	D	D	D	D	D	D	D
336120	Heavy duty truck manufacturing .....	2	2	1	e	D	D	D	D	D	D	D	D
3362	Motor vehicle body and trailer manufacturing .....	8	26	6	e	D	D	D	D	D	D	D	D
33621	Motor vehicle body and trailer manufacturing .....	8	26	6	e	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	-	535	352	m	D	D	D	D	D	D	D	D
33631	Motor vehicle gasoline engine and engine parts manufacturing .....	-	65	36	22 953	1 463 642	19 791	37 259	1 237 199	3 493 915	7 659 856	11 120 904	D
336311	Carburetor, piston, piston ring, and valve manufacturing .....	-	3	2	f	D	D	D	D	D	D	D	D
336312	Gasoline engine and engine parts manufacturing .....	-	62	34	j	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical and electronic equipment manufacturing .....	-	32	16	i	D	D	D	D	D	D	D	D
336322	Other motor vehicle electrical and electronic equipment manufacturing .....	-	30	15	i	D	D	D	D	D	D	D	D
33633	Motor vehicle steering and suspension component (except spring) manufacturing .....	-	13	6	g	D	D	D	D	D	D	D	D
336330	Motor vehicle steering and suspension component (except spring) manufacturing .....	-	13	6	g	D	D	D	D	D	D	D	D
33634	Motor vehicle brake system manufacturing .....	-	21	12	1 564	67 419	1 159	2 416	44 794	344 430	519 421	872 606	30 210
336340	Motor vehicle brake system manufacturing .....	-	21	12	1 564	67 419	1 159	2 416	44 794	344 430	519 421	872 606	30 210
33635	Motor vehicle transmission and power train parts manufacturing .....	-	47	35	j	D	D	D	D	D	D	D	D
336350	Motor vehicle transmission and power train parts manufacturing .....	-	47	35	j	D	D	D	D	D	D	D	D
33636	Motor vehicle seating and interior trim manufacturing ....	-	42	31	j	D	D	D	D	D	D	D	D
336360	Motor vehicle seating and interior trim manufacturing ..	-	42	31	j	D	D	D	D	D	D	D	D

See footnotes at end of table.



**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>DETROIT-WARREN-FLINT, MI COMBINED STATISTICAL AREA—Con.</b>													
336	Transportation equipment manufacturing—Con.												
3363	Motor vehicle parts manufacturing—Con.												
33637	Motor vehicle metal stamping ..	1	192	133	k	D	D	D	D	D	D	D	D
336370	Motor vehicle metal stamping .....	1	192	133	k	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts manufacturing .....	—	123	83	j	D	D	D	D	D	D	D	D
336391	Motor vehicle air-conditioning manufacturing .....	—	4	4	g	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts manufacturing .....	—	119	79	j	D	D	D	D	D	D	D	D
3364	Aerospace product and parts manufacturing .....	—	27	12	g	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing .....	—	27	12	g	D	D	D	D	D	D	D	D
336412	Aircraft engine and engine parts manufacturing .....	—	14	9	g	D	D	D	D	D	D	D	D
3369	Other transportation equipment manufacturing .....	1	16	7	f	D	D	D	D	D	D	D	D
33699	Other transportation equipment manufacturing .....	1	16	7	f	D	D	D	D	D	D	D	D
336999	All other transportation equipment manufacturing ..	—	7	4	e	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	2	266	54	h	D	D	D	D	D	D	D	D
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	1	184	26	g	D	D	D	D	D	D	D	D
33711	Wood kitchen cabinet and countertop manufacturing ....	2	112	9	g	D	D	D	D	D	D	D	D
337110	Wood kitchen cabinet and countertop manufacturing ..	2	112	9	g	D	D	D	D	D	D	D	D
33712	Household and institutional furniture manufacturing .....	1	72	17	g	D	D	D	D	D	D	D	D
337122	Nonupholstered wood household furniture manufacturing .....	4	30	6	e	D	D	D	D	D	D	D	D
337127	Institutional furniture manufacturing .....	—	12	4	e	D	D	D	D	D	D	D	D
3372	Office furniture (including fixtures) manufacturing .....	1	69	20	g	D	D	D	D	D	D	D	D
33721	Office furniture (including fixtures) manufacturing .....	1	69	20	g	D	D	D	D	D	D	D	D
337212	Custom architectural woodwork and millwork manufacturing .....	1	24	6	e	D	D	D	D	D	D	D	D
337215	Showcase, partition, shelving, and locker manufacturing .....	2	35	12	g	D	D	D	D	D	D	D	D
3379	Other furniture related product manufacturing .....	6	13	8		583	17 167	445	760	10 977	44 856	45 416	90 767
33791	Mattress manufacturing .....	7	5	4	e	D	D	D	D	D	D	D	D
337910	Mattress manufacturing .....	7	5	4	e	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing .....	2	549	90	i	D	D	D	D	D	D	D	D
3391	Medical equipment and supplies manufacturing .....	2	213	31	g	D	D	D	D	D	D	D	D
33911	Medical equipment and supplies manufacturing .....	2	213	31	g	D	D	D	D	D	D	D	D
339113	Surgical appliance and supplies manufacturing ....	2	33	11	f	D	D	D	D	D	D	D	D
339114	Dental equipment and supplies manufacturing ....	—	20	2	e	D	D	D	D	D	D	D	D
339115	Ophthalmic goods manufacturing .....	3	13	4	e	D	D	D	D	D	D	D	D
339116	Dental laboratories .....	3	130	10	g	D	D	D	D	D	D	D	D
3399	Other miscellaneous manufacturing .....	2	336	59	i	D	D	D	D	D	D	D	D
33992	Sporting and athletic goods manufacturing .....	1	27	6	e	D	D	D	D	D	D	D	D
339920	Sporting and athletic goods manufacturing .....	1	27	6	e	D	D	D	D	D	D	D	D
33995	Sign manufacturing .....	2	119	20	g	D	D	D	D	D	D	D	D
339950	Sign manufacturing .....	2	119	20	g	D	D	D	D	D	D	D	D

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>DETROIT-WARREN-FLINT, MI COMBINED STATISTICAL AREA—Con.</b>												
339	Miscellaneous manufacturing—Con.												
3399	Other miscellaneous manufacturing—Con.												
33999	All other miscellaneous manufacturing . . . . .	2	148	29	h	D	D	D	D	D	D	D	D
339991	Gasket, packing, and sealing device manufacturing . . . . .	4	22	12	f	D	D	D	D	D	D	D	D
339994	Broom, brush, and mop manufacturing . . . . .	—	5	3	e	D	D	D	D	D	D	D	D
339999	All other miscellaneous manufacturing . . . . .	1	112	13	g	D	D	D	D	D	D	D	D
	<b>Ann Arbor, MI Metropolitan Statistical Area</b>												
31-33	Manufacturing . . . . .	—	393	131	27 975	1 510 617	20 895	42 589	1 102 360	3 333 991	4 302 443	7 622 597	117 071
311	Food manufacturing . . . . .	1	24	6	665	22 532	486	874	15 029	73 027	58 211	131 552	2 083
3112	Grain and oilseed milling . . . . .	—	3	2	e	D	D	D	D	D	D	D	D
31121	Flour milling and malt manufacturing . . . . .	—	2	1	e	D	D	D	D	D	D	D	D
311211	Flour milling . . . . .	—	2	1	e	D	D	D	D	D	D	D	D
323	Printing and related support activities . . . . .	2	51	15	2 482	86 296	1 849	3 746	58 927	177 994	106 430	285 199	11 550
3231	Printing and related support activities . . . . .	2	51	15	2 482	86 296	1 849	3 746	58 927	177 994	106 430	285 199	11 550
32311	Printing . . . . .	2	47	14	g	D	D	D	D	D	D	D	11 498
323110	Commercial lithographic printing . . . . .	5	21	6	307	11 007	208	384	6 288	27 245	14 010	41 818	924
323117	Books printing . . . . .	2	9	6	1 694	58 842	1 275	2 520	42 529	107 788	77 040	185 915	9 525
325	Chemical manufacturing . . . . .	2	14	7	595	26 154	215	420	8 381	56 666	71 498	127 462	4 406
326	Plastics and rubber products manufacturing . . . . .	2	14	7	1 230	44 366	860	1 767	26 117	116 403	87 984	204 673	5 643
3261	Plastics product manufacturing . . . . .	2	13	7	g	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing . . . . .	2	11	5	f	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing . . . . .	1	10	4	867	31 380	583	1 212	17 358	62 970	71 197	134 427	2 462
332	Fabricated metal product manufacturing . . . . .	—	85	25	2 204	97 774	1 592	3 434	59 857	210 548	219 541	439 021	13 076
3326	Spring and wire product manufacturing . . . . .	1	4	3	295	13 449	227	476	8 563	27 664	30 055	57 852	1 916
33261	Spring and wire product manufacturing . . . . .	1	4	3	295	13 449	227	476	8 563	27 664	30 055	57 852	1 916
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing . . . . .	—	46	10	814	34 577	641	1 372	24 299	102 610	78 152	181 653	5 513
33272	Turned product and screw, nut, and bolt manufacturing . . . . .	—	9	6	583	25 002	471	1 025	17 773	83 020	71 372	155 706	4 491
332721	Precision turned product manufacturing . . . . .	—	5	4	301	11 370	247	518	7 997	47 067	22 119	72 245	D
332722	Bolt, nut, screw, rivet, and washer manufacturing . . . . .	—	4	2	282	13 632	224	507	9 776	35 953	49 253	83 461	D
3329	Other fabricated metal product manufacturing . . . . .	—	11	5	665	30 662	480	1 092	18 603	37 389	97 651	145 313	2 235
33299	All other fabricated metal product manufacturing . . . . .	—	8	3	e	D	D	D	D	D	D	D	D
332991	Ball and roller bearing manufacturing . . . . .	—	3	3	446	20 754	354	798	14 502	18 814	82 922	111 803	1 711
333	Machinery manufacturing . . . . .	2	41	13	2 223	106 857	1 061	2 054	45 052	237 487	157 002	388 907	8 474
3332	Industrial machinery manufacturing . . . . .	—	2	1	e	D	D	D	D	D	D	D	D
33322	Plastics and rubber industry machinery manufacturing . . . . .	—	1	1	e	D	D	D	D	D	D	D	D
333220	Plastics and rubber industry machinery manufacturing . . . . .	—	1	1	e	D	D	D	D	D	D	D	D
3335	Metalworking machinery manufacturing . . . . .	1	21	6	544	30 489	367	817	19 141	62 041	33 165	96 768	1 141
33351	Metalworking machinery manufacturing . . . . .	1	21	6	544	30 489	367	817	19 141	62 041	33 165	96 768	1 141
333512	Machine tool (metal cutting types) manufacturing . . . . .	—	6	3	346	21 272	217	506	11 776	44 443	26 764	74 493	579

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>DETROIT-WARREN-FLINT, MI COMBINED STATISTICAL AREA—Con.</b>												
	<b>Ann Arbor, MI Metropolitan Statistical Area—Con.</b>												
333	Machinery manufacturing—Con.												
3339	Other general purpose machinery manufacturing .....	3	10	4	g	D	D	D	D	D	D	D	D
33399	All other general purpose machinery manufacturing ....	3	9	4	g	D	D	D	D	D	D	D	D
333999	All other miscellaneous general purpose machinery manufacturing .....	4	5	2	g	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing .....	—	47	18	4 238	207 405	3 057	5 659	135 373	628 682	1 360 417	1 964 341	15 800
3341	Computer and peripheral equipment manufacturing .....	1	8	3	290	18 374	58	135	1 909	33 824	32 766	65 674	846
33411	Computer and peripheral equipment manufacturing ....	1	8	3	290	18 374	58	135	1 909	33 824	32 766	65 674	846
334111	Electronic computer manufacturing .....	—	6	3	e	D	D	D	D	D	D	D	D
3344	Semiconductor and other electronic component manufacturing .....	6	14	6	e	D	D	D	D	D	D	D	D
33441	Semiconductor and other electronic component manufacturing .....	6	14	6	e	D	D	D	D	D	D	D	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	—	20	8	3 393	171 367	2 667	4 914	125 766	557 482	1 300 917	1 834 650	13 829
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	—	20	8	3 393	171 367	2 667	4 914	125 766	557 482	1 300 917	1 834 650	13 829
334510	Electromedical and electrotherapeutic apparatus manufacturing ...	9	1	1	e	D	D	D	D	D	D	D	D
334513	Instruments and related products manufacturing for measuring, displaying, and controlling industrial process variables .....	—	4	2	e	D	D	D	D	D	D	D	D
334514	Totalizing fluid meter and counting device manufacturing .....	—	2	2	g	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	—	25	19	12 946	862 890	10 886	22 913	723 763	1 704 545	2 114 469	3 825 398	49 431
3363	Motor vehicle parts manufacturing .....	—	23	18	j	D	D	D	D	D	D	D	D
33631	Motor vehicle gasoline engine and engine parts manufacturing .....	—	5	5	3 557	237 705	2 840	6 045	190 481	458 232	576 735	1 042 158	18 163
336311	Carburetor, piston, piston ring, and valve manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
336312	Gasoline engine and engine parts manufacturing .....	—	4	4	h	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical and electronic equipment manufacturing .....	—	1	1	g	D	D	D	D	D	D	D	D
336322	Other motor vehicle electrical and electronic equipment manufacturing .....	—	1	1	g	D	D	D	D	D	D	D	D
33635	Motor vehicle transmission and power train parts manufacturing .....	—	2	2	h	D	D	D	D	D	D	D	D
336350	Motor vehicle transmission and power train parts manufacturing .....	—	2	2	h	D	D	D	D	D	D	D	D
33637	Motor vehicle metal stamping ..	—	7	5	f	D	D	D	D	D	D	D	4 547
336370	Motor vehicle metal stamping .....	—	7	5	f	D	D	D	D	D	D	D	4 547
33639	Other motor vehicle parts manufacturing .....	—	5	5	2 704	143 301	2 358	4 481	120 161	528 336	617 750	1 144 606	9 189
336391	Motor vehicle air-conditioning manufacturing .....	—	1	1	g	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts manufacturing .....	2	4	4	f	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing .....	2	29	7	451	18 502	283	474	9 009	36 878	24 247	61 410	1 038
3399	Other miscellaneous manufacturing .....	—	17	3	270	10 733	159	277	5 088	22 972	17 915	41 125	541

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E1	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>DETROIT-WARREN-FLINT, MI COMBINED STATISTICAL AREA—Con.</b>												
	<b>Detroit-Warren-Livonia, MI Metropolitan Statistical Area</b>												
31-33	Manufacturing .....	—	6 865	'2 226	'307 667	'14 985 977	'231 576	'455 595	'10 493 719	'44 116 657	'67 014 901	'111 056 850	'2 498 481
311	Food manufacturing .....	2	348	72	8 021	229 042	5 611	10 935	136 266	826 348	1 076 579	1 893 322	39 990
3114	Fruit and vegetable preserving and specialty food manufacturing .....	1	14	5	670	20 831	584	1 193	15 801	78 609	90 814	169 422	D
31142	Fruit and vegetable canning, pickling, and drying .....	—	8	1	e	D	D	D	D	D	D	D	D
311421	Fruit and vegetable canning .....	—	7	1	e	D	D	D	D	D	D	D	D
3115	Dairy product manufacturing .....	—	12	6	688	26 704	476	930	13 583	85 173	198 360	281 923	3 828
31151	Dairy product (except frozen) manufacturing .....	—	8	5	f	D	D	D	D	D	D	D	3 672
311511	Fluid milk manufacturing .....	—	4	3	479	16 583	337	657	9 019	49 622	138 450	188 053	3 378
3116	Animal slaughtering and processing .....	2	33	17	2 649	68 248	2 069	4 290	44 357	265 551	536 816	797 219	14 467
31161	Animal slaughtering and processing .....	2	33	17	2 649	68 248	2 069	4 290	44 357	265 551	536 816	797 219	14 467
311612	Meat processed from carcasses .....	2	19	13	1 655	45 512	1 179	2 497	25 800	245 218	507 262	746 762	13 367
311615	Poultry processing .....	9	2	2	f	D	D	D	D	D	D	D	D
3118	Bakeries and tortilla manufacturing .....	6	213	28	2 365	59 692	1 359	2 421	34 492	143 979	75 116	217 062	6 673
31181	Bread and bakery product manufacturing .....	6	201	26	2 239	55 901	1 264	2 238	32 123	127 181	66 731	191 883	5 677
311811	Retail bakeries .....	5	167	15	g	D	D	D	D	D	D	D	D
311812	Commercial bakeries .....	4	31	9	553	16 535	278	476	7 098	39 543	18 298	57 841	2 382
311813	Frozen cakes, pies, and other pastries manufacturing .....	9	3	2	e	D	D	D	D	D	D	D	D
3119	Other food manufacturing .....	2	52	13	1 454	47 805	970	1 828	23 962	234 591	143 074	375 018	7 562
31191	Snack food manufacturing .....	1	9	6	974	31 559	670	1 295	16 722	190 374	97 951	284 536	6 455
311919	Other snack food manufacturing .....	1	8	5	f	D	D	D	D	D	D	D	D
31199	All other food manufacturing .....	5	30	5	286	8 127	219	400	5 238	24 075	24 299	48 375	657
312	Beverage and tobacco product manufacturing .....	—	24	7	g	D	D	D	D	D	D	D	D
3121	Beverage manufacturing .....	—	23	7	g	D	D	D	D	D	D	D	D
31211	Soft drink and ice manufacturing .....	—	12	7	g	D	D	D	D	D	D	D	19 615
312111	Soft drink manufacturing .....	—	6	6	999	48 723	290	589	11 936	259 473	460 223	714 762	D
313	Textile mills .....	3	27	3	e	D	D	D	D	D	D	D	723
314	Textile product mills .....	5	86	9	1 197	32 633	826	1 595	17 341	62 650	76 693	137 461	1 698
3149	Other textile product mills .....	3	50	8	956	26 626	620	1 193	12 866	47 921	45 880	93 835	1 278
31491	Textile bag and canvas mills .....	5	30	5	390	10 396	311	583	6 485	17 145	23 323	39 909	130
314912	Canvas and related product mills .....	5	27	5	374	10 100	298	561	6 304	16 593	22 953	38 987	D
31499	All other textile product mills .....	2	20	3	566	16 230	309	610	6 381	30 776	22 557	53 926	1 148
314999	All other miscellaneous textile product mills .....	2	20	3	566	16 230	309	610	6 381	30 776	22 557	53 926	1 148
315	Apparel manufacturing .....	8	76	4	399	9 699	346	625	7 051	20 518	19 840	41 324	D
3152	Cut and sew apparel manufacturing .....	8	53	3	e	D	D	D	D	D	D	D	D
316	Leather and allied product manufacturing .....	—	10	4	f	D	D	D	D	D	D	D	D
3161	Leather and hide tanning and finishing .....	—	5	3	f	D	D	D	D	D	D	D	D
31611	Leather and hide tanning and finishing .....	—	5	3	f	D	D	D	D	D	D	D	D
316110	Leather and hide tanning and finishing .....	—	5	3	f	D	D	D	D	D	D	D	D

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E1	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>DETROIT-WARREN-FLINT, MI COMBINED STATISTICAL AREA—Con.</b>												
	<b>Detroit-Warren-Livonia, MI Metropolitan Statistical Area—Con.</b>												
321	Wood product manufacturing . . . . .	3	95	23	1 443	47 114	1 042	2 065	28 120	98 747	97 834	197 783	3 304
3212	Veneer, plywood, and engineered wood product manufacturing . . . . .	2	9	4	372	14 727	236	494	7 428	33 240	29 066	62 212	860
32121	Veneer, plywood, and engineered wood product manufacturing . . . . .	2	9	4	372	14 727	236	494	7 428	33 240	29 066	62 212	860
321214	Truss manufacturing . . . . .	2	8	4	e	D	D	D	D	D	D	D	D
3219	Other wood product manufacturing . . . . .	3	78	19	1 038	31 457	779	1 520	19 965	63 469	64 389	129 366	2 263
32191	Millwork . . . . .	5	34	9	388	12 892	297	599	8 921	21 220	27 358	48 511	1 081
32192	Wood container and pallet manufacturing . . . . .	1	23	6	303	7 291	241	439	4 764	13 443	17 121	30 641	530
321920	Wood container and pallet manufacturing . . . . .	1	23	6	303	7 291	241	439	4 764	13 443	17 121	30 641	530
32199	All other wood product manufacturing . . . . .	2	21	4	347	11 274	241	482	6 280	28 806	19 910	50 214	652
322	Paper manufacturing . . . . .	1	64	34	3 185	132 863	2 279	4 882	78 120	330 080	443 936	776 471	13 043
3221	Pulp, paper, and paperboard mills . . . . .	—	5	5	896	51 276	602	1 410	32 125	116 558	173 082	292 100	6 656
32212	Paper mills . . . . .	—	5	5	896	51 276	602	1 410	32 125	116 558	173 082	292 100	6 656
322121	Paper (except newsprint) mills . . . . .	—	5	5	896	51 276	602	1 410	32 125	116 558	173 082	292 100	6 656
3222	Converted paper product manufacturing . . . . .	2	59	29	2 289	81 587	1 677	3 472	45 995	213 522	270 854	484 371	6 387
32221	Paperboard container manufacturing . . . . .	1	31	16	1 171	40 968	896	1 879	23 233	93 382	162 664	256 179	3 718
322211	Corrugated and solid fiber box manufacturing . . . . .	1	22	12	849	32 480	630	1 306	18 636	79 529	122 703	202 952	3 466
32222	Paper bag and coated and treated paper manufacturing . . . . .	—	10	4	468	17 377	307	615	9 326	59 255	54 025	113 822	805
322222	Coated and laminated paper manufacturing . . . . .	—	7	3	e	D	D	D	D	D	D	D	D
32223	Stationery product manufacturing . . . . .	2	10	6	332	12 394	221	455	6 496	38 278	34 650	72 248	569
32229	Other converted paper product manufacturing . . . . .	9	8	3	318	10 848	253	523	6 940	22 607	19 515	42 122	1 295
322299	All other converted paper product manufacturing . . . . .	9	7	3	e	D	D	D	D	D	D	D	D
323	Printing and related support activities . . . . .	1	529	75	6 509	260 142	4 386	8 450	148 378	631 501	403 478	1 033 094	23 683
3231	Printing and related support activities . . . . .	1	529	75	6 509	260 142	4 386	8 450	148 378	631 501	403 478	1 033 094	23 683
32311	Printing . . . . .	1	473	70	6 166	244 190	4 178	8 082	139 429	596 870	397 868	993 071	22 276
323110	Commercial lithographic printing . . . . .	1	204	40	3 327	143 291	2 265	4 355	83 186	385 128	276 661	661 370	13 946
323112	Commercial flexographic printing . . . . .	2	16	5	350	14 539	222	468	6 986	28 982	22 973	52 119	1 051
323113	Commercial screen printing . . . . .	—	51	4	674	25 432	465	915	13 477	50 475	24 708	73 057	2 395
323114	Quick printing . . . . .	3	132	6	665	20 280	429	765	11 811	47 774	19 340	67 133	1 983
323116	Manifold business forms printing . . . . .	1	10	4	291	10 042	192	406	6 264	22 606	16 844	40 022	880
323117	Books printing . . . . .	1	8	4	300	11 854	232	466	7 476	22 283	18 248	40 585	614
32312	Support activities for printing . . . . .	2	56	5	343	15 952	208	368	8 949	34 631	5 610	40 023	1 407
323122	Prepress services . . . . .	2	44	5	281	14 062	158	279	7 499	31 045	4 457	35 440	D
324	Petroleum and coal products manufacturing . . . . .	—	42	13	1 363	69 725	700	1 325	31 056	338 146	1 001 733	1 299 896	35 393
3241	Petroleum and coal products manufacturing . . . . .	—	42	13	1 363	69 725	700	1 325	31 056	338 146	1 001 733	1 299 896	35 393
32411	Petroleum refineries . . . . .	—	2	2	e	D	D	D	D	D	D	D	D
324110	Petroleum refineries . . . . .	—	2	2	e	D	D	D	D	D	D	D	D
32412	Asphalt paving, roofing, and saturated materials manufacturing . . . . .	1	21	5	e	D	D	D	D	D	D	D	D
324121	Asphalt paving mixture and block manufacturing . . . . .	1	19	3	e	D	D	D	D	D	D	D	D
32419	Other petroleum and coal products manufacturing . . . . .	4	19	6	f	D	D	D	D	D	D	D	D
324191	Petroleum lubricating oil and grease manufacturing . . . . .	2	17	5	e	D	D	D	D	D	D	D	D
324199	All other petroleum and coal products manufacturing . . . . .	9	2	1	e	D	D	D	D	D	D	D	D

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>DETROIT-WARREN-FLINT, MI COMBINED STATISTICAL AREA—Con.</b>												
	<b>Detroit-Warren-Livonia, MI Metropolitan Statistical Area—Con.</b>												
325	Chemical manufacturing .....	1	190	82	8 054	412 350	4 485	9 152	183 973	1 462 247	1 522 796	3 002 868	142 975
3251	Basic chemical manufacturing ...	2	25	10	618	37 140	365	769	20 302	155 115	127 271	272 991	30 395
32519	Other basic organic chemical manufacturing .....	1	12	4	e	D	D	D	D	D	D	D	D
325199	All other basic organic chemical manufacturing ....	2	11	3	e	D	D	D	D	D	D	D	D
3252	Resin, synthetic rubber, and artificial synthetic fibers and filaments manufacturing .....	—	15	11	1 258	81 956	476	973	24 994	156 776	373 984	536 563	16 938
32521	Resin and synthetic rubber manufacturing .....	—	15	11	1 258	81 956	476	973	24 994	156 776	373 984	536 563	16 938
325211	Plastics material and resin manufacturing .....	—	13	11	g	D	D	D	D	D	D	D	D
3254	Pharmaceutical and medicine manufacturing .....	—	19	11	1 395	63 232	788	1 542	29 627	180 120	132 493	312 626	38 339
32541	Pharmaceutical and medicine manufacturing .....	—	19	11	1 395	63 232	788	1 542	29 627	180 120	132 493	312 626	38 339
325412	Pharmaceutical preparation manufacturing .....	—	8	5	f	D	D	D	D	D	D	D	20 513
325414	Biological product (except diagnostic) manufacturing ..	—	3	2	e	D	D	D	D	D	D	D	D
3255	Paint, coating, and adhesive manufacturing .....	1	46	19	2 375	119 286	1 324	2 691	55 306	572 571	421 000	1 012 235	35 930
32551	Paint and coating manufacturing .....	—	33	13	1 569	87 637	814	1 711	38 805	447 556	319 513	788 091	32 269
325510	Paint and coating manufacturing .....	—	33	13	1 569	87 637	814	1 711	38 805	447 556	319 513	788 091	32 269
32552	Adhesive manufacturing .....	6	13	6	806	31 649	510	980	16 501	125 015	101 487	224 144	3 661
325520	Adhesive manufacturing ....	6	13	6	806	31 649	510	980	16 501	125 015	101 487	224 144	3 661
3256	Soap, cleaning compound, and toilet preparation manufacturing .	6	33	6	e	D	D	D	D	D	D	D	D
32561	Soap and cleaning compound manufacturing .....	6	27	5	e	D	D	D	D	D	D	D	3 368
3259	Other chemical product and preparation manufacturing .....	1	49	24	1 865	86 801	1 116	2 336	38 937	275 055	360 820	637 368	15 674
32591	Printing ink manufacturing .....	—	4	1	e	D	D	D	D	D	D	D	D
325910	Printing ink manufacturing ..	—	4	1	e	D	D	D	D	D	D	D	D
32599	All other chemical product and preparation manufacturing ...	1	44	22	1 567	70 677	979	2 050	33 745	228 836	336 137	566 204	D
325991	Custom compounding of purchased resins .....	1	19	11	756	30 238	492	1 015	14 114	96 844	150 622	246 628	5 350
325998	All other miscellaneous chemical product and preparation manufacturing .	—	21	10	780	38 725	472	1 002	18 946	126 002	180 073	308 144	8 670
326	Plastics and rubber products manufacturing .....	1	335	182	22 049	735 337	16 857	33 017	460 740	2 007 299	1 595 771	3 605 690	128 354
3261	Plastics product manufacturing ..	1	292	168	20 629	693 432	15 818	31 241	437 574	1 903 068	1 501 246	3 405 716	110 443
32611	Plastics packaging materials and unlaminated film and sheet manufacturing .....	1	20	5	720	41 004	478	1 033	25 695	148 643	105 874	258 517	4 974
326113	Unlaminated plastics film and sheet (except packaging) manufacturing .....	1	15	3	535	31 400	352	768	20 195	126 441	85 139	214 868	3 532
32612	Plastics pipe, pipe fitting, and unlaminated profile shape manufacturing .....	—	19	7	f	D	D	D	D	D	D	D	8 844
326121	Unlaminated plastics profile shape manufacturing .....	—	13	4	442	13 787	255	493	6 015	25 261	31 372	56 256	D
326122	Plastics pipe and pipe fitting manufacturing .....	—	6	3	e	D	D	D	D	D	D	D	D
32614	Polystyrene foam product manufacturing .....	—	7	6	f	D	D	D	D	D	D	D	D
326140	Polystyrene foam product manufacturing .....	—	7	6	f	D	D	D	D	D	D	D	D
32615	Urethane and other foam product (except polystyrene) manufacturing .....	1	18	7	778	25 356	624	1 200	16 618	76 466	84 406	160 959	2 657
326150	Urethane and other foam product (except polystyrene) manufacturing .....	1	18	7	778	25 356	624	1 200	16 618	76 466	84 406	160 959	2 657
32616	Plastics bottle manufacturing ..	—	1	1	e	D	D	D	D	D	D	D	D
326160	Plastics bottle manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	1	226	142	17 387	567 095	13 487	26 495	358 872	1 555 475	1 164 451	2 718 109	90 870
326191	Plastics plumbing fixture manufacturing .....	—	9	4	289	9 577	213	444	5 752	18 785	12 457	30 890	547
326199	All other plastics product manufacturing .....	1	217	138	17 098	557 518	13 274	26 051	353 120	1 536 690	1 151 994	2 687 219	90 323

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>DETROIT-WARREN-FLINT, MI COMBINED STATISTICAL AREA—Con.</b>												
	<b>Detroit-Warren-Livonia, MI Metropolitan Statistical Area—Con.</b>												
326	Plastics and rubber products manufacturing—Con.												
3262	Rubber product manufacturing . . .	1	43	14	1 420	41 905	1 039	1 776	23 166	104 231	94 525	199 974	17 911
32629	Other rubber product manufacturing . . .	1	30	14	1 350	39 673	983	1 668	21 488	100 942	91 488	192 982	17 375
326291	Rubber product manufacturing for mechanical use . . .	—	15	9	1 096	31 184	798	1 261	16 543	80 742	71 376	152 553	16 678
326299	All other rubber product manufacturing . . .	7	15	5	254	8 489	185	407	4 945	20 200	20 112	40 429	697
327	Nonmetallic mineral product manufacturing . . .	2	187	73	5 762	267 736	4 478	8 086	192 775	640 554	533 471	1 166 798	30 324
3271	Clay product and refractory manufacturing . . .	1	19	5	292	10 145	180	350	5 055	23 688	18 615	42 121	D
3272	Glass and glass product manufacturing . . .	1	26	8	1 627	96 103	1 402	2 805	79 596	199 214	141 746	342 507	4 654
32721	Glass and glass product manufacturing . . .	1	26	8	1 627	96 103	1 402	2 805	79 596	199 214	141 746	342 507	4 654
327215	Glass product manufacturing made of purchased glass . .	—	22	6	g	D	D	D	D	D	D	D	D
3273	Cement and concrete product manufacturing . . .	2	91	46	2 785	120 409	2 140	3 389	84 140	263 417	281 884	539 267	15 667
32731	Cement manufacturing . . .	4	4	2	265	13 535	211	489	10 012	26 233	63 542	89 830	1 835
327310	Cement manufacturing . . .	4	4	2	265	13 535	211	489	10 012	26 233	63 542	89 830	1 835
32732	Ready-mix concrete manufacturing . . .	1	55	32	1 245	63 805	852	1 778	42 275	167 073	159 299	326 733	10 532
327320	Ready-mix concrete manufacturing . . .	1	55	32	1 245	63 805	852	1 778	42 275	167 073	159 299	326 733	10 532
32733	Concrete pipe, brick, and block manufacturing . . .	3	11	5	275	11 279	190	415	6 274	30 163	20 873	50 545	2 357
32739	Other concrete product manufacturing . . .	—	21	7	1 000	31 790	887	707	25 579	39 948	38 170	72 159	943
327390	Other concrete product manufacturing . . .	—	21	7	1 000	31 790	887	707	25 579	39 948	38 170	72 159	943
3279	Other nonmetallic mineral product manufacturing . . .	4	48	14	1 047	40 686	746	1 522	23 647	153 237	90 638	241 317	D
32791	Abrasive product manufacturing . . .	5	22	10	644	25 403	463	934	14 079	117 621	61 267	176 256	4 250
327910	Abrasive product manufacturing . . .	5	22	10	644	25 403	463	934	14 079	117 621	61 267	176 256	4 250
32799	All other nonmetallic mineral product manufacturing . . .	1	26	4	403	15 283	283	588	9 568	35 616	29 371	65 061	D
331	Primary metal manufacturing . . .	—	111	56	10 415	531 816	7 897	17 126	388 425	948 943	2 547 876	3 527 301	61 974
3311	Iron and steel mills and ferroalloy manufacturing . . .	—	12	5	6 464	364 804	4 933	10 941	279 307	499 068	1 835 643	2 363 825	D
33111	Iron and steel mills and ferroalloy manufacturing . . .	—	12	5	6 464	364 804	4 933	10 941	279 307	499 068	1 835 643	2 363 825	D
331111	Iron and steel mills . . .	—	12	5	6 464	364 804	4 933	10 941	279 307	499 068	1 835 643	2 363 825	D
3312	Steel product manufacturing from purchased steel . . .	—	24	18	1 679	71 168	1 257	2 611	47 425	191 356	295 638	488 586	8 669
33121	Iron and steel pipe and tube manufacturing from purchased steel . . .	—	6	5	f	D	D	D	D	D	D	D	D
331210	Iron and steel pipe and tube manufacturing from purchased steel . . .	—	6	5	f	D	D	D	D	D	D	D	D
33122	Rolling and drawing of purchased steel . . .	—	18	13	f	D	D	D	D	D	D	D	D
331221	Rolled steel shape manufacturing . . .	—	15	11	f	D	D	D	D	D	D	D	D
3314	Nonferrous metal (except aluminum) production and processing . . .	2	17	5	676	31 749	498	1 067	21 385	84 868	162 983	245 215	D
33142	Copper rolling, drawing, extruding, and alloying . . .	—	1	1	e	D	D	D	D	D	D	D	D
331421	Copper rolling, drawing, and extruding . . .	—	1	1	e	D	D	D	D	D	D	D	D
33149	Nonferrous metal (except copper and aluminum) rolling, drawing, extruding, and alloying . . .	5	14	4	e	D	D	D	D	D	D	D	D
331491	Nonferrous metal (except copper and aluminum) rolling, drawing, and extruding . . .	6	9	2	301	13 124	213	422	8 441	20 947	32 336	56 099	D

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>DETROIT-WARREN-FLINT, MI COMBINED STATISTICAL AREA—Con.</b>												
	<b>Detroit-Warren-Livonia, MI Metropolitan Statistical Area—Con.</b>												
331	Primary metal manufacturing—Con.												
3315	Foundries .....	2	48	24	1 347	51 828	1 041	2 124	33 262	132 517	113 425	247 270	6 181
33151	Ferrous metal foundries .....	2	27	16	806	31 839	587	1 142	19 214	84 392	83 621	169 167	4 392
331511	Iron foundries .....	2	10	6	e	D	D	D	D	D	D	D	2 037
331512	Steel investment foundries ..	4	6	6	e	D	D	D	D	D	D	D	910
33152	Nonferrous metal foundries ....	2	21	8	541	19 989	454	982	14 048	48 125	29 804	78 103	1 789
332	Fabricated metal product manufacturing .....	2	1 773	532	44 589	1 715 092	33 156	67 172	1 117 914	'3 917 510	'2 832 066	'6 754 338	248 079
3321	Forging and stamping.....	1	93	44	3 164	135 857	2 392	4 853	88 564	346 234	357 511	701 351	11 853
33211	Forging and stamping.....	1	93	44	3 164	135 857	2 392	4 853	88 564	346 234	357 511	701 351	11 853
332111	Iron and steel forging .....	1	25	16	1 426	64 973	1 055	2 110	42 811	193 799	234 190	423 749	5 051
332112	Nonferrous forging .....	4	9	6	e	D	D	D	D	D	D	D	D
332114	Custom roll forming .....	2	12	6	263	11 602	197	438	7 317	17 654	17 848	35 746	D
332116	Metal stamping .....	2	43	16	1 054	41 021	804	1 593	25 910	91 455	54 445	147 200	3 400
3322	Cutlery and handtool manufacturing .....	1	65	21	1 843	70 167	1 220	2 219	41 108	141 619	81 342	216 071	D
33221	Cutlery and handtool manufacturing .....	1	65	21	1 843	70 167	1 220	2 219	41 108	141 619	81 342	216 071	D
332212	Hand and edge tool manufacturing .....	1	58	19	g	D	D	D	D	D	D	D	D
332214	Kitchen utensil, pot, and pan manufacturing .....	—	2	2	e	D	D	D	D	D	D	D	D
3323	Architectural and structural metals manufacturing .....	3	230	59	5 161	195 631	3 277	6 747	111 560	387 765	452 199	859 010	28 596
33231	Plate work and fabricated structural product manufacturing .....	3	104	25	2 792	107 218	1 775	3 656	64 581	219 969	323 131	560 586	20 548
332311	Prefabricated metal building and component manufacturing .....	1	10	2	290	11 658	167	325	5 608	28 143	25 409	53 156	339
332312	Fabricated structural metal manufacturing .....	3	65	12	1 316	55 872	872	1 746	30 026	133 260	154 434	301 070	4 518
332313	Plate work manufacturing ...	5	29	11	1 186	39 688	736	1 585	28 947	58 566	143 288	206 360	15 691
33232	Ornamental and architectural metal products manufacturing .....	1	126	34	2 369	88 413	1 502	3 091	46 979	167 796	129 068	298 424	8 048
332321	Metal window and door manufacturing .....	2	21	11	487	17 058	261	553	7 275	33 335	34 689	68 175	1 508
332322	Sheet metal work manufacturing .....	1	77	21	1 671	62 740	1 097	2 250	34 978	113 674	84 168	199 239	4 552
3324	Boiler, tank, and shipping container manufacturing .....	5	18	6	264	9 930	195	420	6 429	26 699	26 074	53 005	D
3325	Hardware manufacturing .....	1	27	9	3 974	118 363	3 328	6 440	87 361	165 413	124 716	289 678	7 043
33251	Hardware manufacturing .....	1	27	9	3 974	118 363	3 328	6 440	87 361	165 413	124 716	289 678	7 043
332510	Hardware manufacturing ....	1	27	9	3 974	118 363	3 328	6 440	87 361	165 413	124 716	289 678	7 043
3326	Spring and wire product manufacturing .....	3	57	19	994	34 701	718	1 453	21 492	85 856	57 349	142 261	5 049
33261	Spring and wire product manufacturing .....	3	57	19	994	34 701	718	1 453	21 492	85 856	57 349	142 261	5 049
332612	Spring (light gauge) manufacturing .....	—	15	8	436	15 828	309	632	9 585	39 252	26 447	64 972	4 035
332618	Other fabricated wire product manufacturing .....	4	36	9	445	14 753	337	696	9 681	39 284	24 356	63 361	D
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	3	827	205	16 433	678 514	12 230	25 296	445 079	'1 647 289	'1 200 649	'2 847 435	137 425
33271	Machine shops .....	3	635	104	8 986	372 743	6 649	13 406	242 718	796 073	484 521	1 285 244	84 343
332710	Machine shops .....	3	635	104	8 986	372 743	6 649	13 406	242 718	796 073	484 521	1 285 244	84 343
33272	Turned product and screw, nut, and bolt manufacturing .....	3	192	101	7 447	305 771	5 581	11 890	202 361	'851 216	'716 128	'1 562 191	53 082
332721	Precision turned product manufacturing .....	2	128	61	4 301	165 887	3 324	7 118	110 180	'365 119	'211 044	'578 183	27 668
332722	Bolt, nut, screw, rivet, and washer manufacturing .....	4	64	40	3 146	139 884	2 257	4 772	92 181	486 097	505 084	984 008	25 414
3328	Coating, engraving, heat treating, and allied activities .....	1	262	110	7 994	278 579	6 104	12 221	179 856	656 483	251 189	908 240	36 671
33281	Coating, engraving, heat treating, and allied activities ..	1	262	110	7 994	278 579	6 104	12 221	179 856	656 483	251 189	908 240	36 671
332811	Metal heat treating .....	1	75	40	2 144	85 549	1 569	3 273	52 950	196 082	80 056	277 305	16 041
332812	Metal coating, engraving (except jewelry and silverware), and allied services to manufacturers ..	2	91	38	2 566	84 948	2 018	3 758	56 843	225 568	94 678	319 038	9 200
332813	Electroplating, plating, polishing, anodizing, and coloring .....	—	96	32	3 284	108 082	2 517	5 190	70 063	234 833	76 455	311 897	11 430

See footnotes at end of table.



**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>DETROIT-WARREN-FLINT, MI COMBINED STATISTICAL AREA—Con.</b>												
	<b>Detroit-Warren-Livonia, MI Metropolitan Statistical Area—Con.</b>												
332	Fabricated metal product manufacturing—Con.												
3329	Other fabricated metal product manufacturing .....	1	194	59	4 762	193 350	3 692	7 523	136 465	460 152	281 037	737 287	13 911
33291	Metal valve manufacturing ....	1	30	9	1 546	56 150	1 224	2 466	40 716	152 616	117 626	272 341	5 434
332912	Fluid power valve and hose fitting manufacturing .....	—	17	6	1 103	38 737	861	1 641	27 644	86 159	50 661	136 322	4 116
33299	All other fabricated metal product manufacturing .....	1	164	50	3 216	137 200	2 468	5 057	95 749	307 536	163 411	464 946	8 477
332996	Fabricated pipe and pipe fitting manufacturing .....	2	32	13	603	20 563	437	907	11 977	45 927	38 291	84 243	D
332997	Industrial pattern manufacturing .....	—	28	11	984	51 399	810	1 700	41 633	91 051	38 205	128 661	3 736
332999	All other miscellaneous fabricated metal product manufacturing .....	1	96	24	1 513	58 052	1 145	2 286	37 884	161 470	81 341	237 663	3 330
333	Machinery manufacturing .....	1	'1 343	478	'42 001	'2 180 186	'25 608	'51 796	'1 137 415	'4 733 386	'4 111 827	'8 931 464	'251 406
3331	Agriculture, construction, and mining machinery manufacturing .....	—	11	3	254	13 806	126	258	5 342	31 403	35 236	68 403	D
3332	Industrial machinery manufacturing .....	1	'94	32	'2 726	'150 246	'1 355	'2 553	'57 785	'263 317	'382 306	'685 471	'7 781
33322	Plastics and rubber industry machinery manufacturing ....	1	'22	8	e	D	D	D	D	D	D	D	'1 581
333220	Plastics and rubber industry machinery manufacturing ..	1	'22	8	e	D	D	D	D	D	D	D	'1 581
33329	Other industrial machinery manufacturing .....	1	70	24	2 284	130 013	1 094	2 038	48 543	210 706	346 922	597 854	D
333298	All other industrial machinery manufacturing .....	1	60	23	2 207	126 971	1 046	1 944	47 044	203 496	342 434	586 088	6 131
3333	Commercial and service industry machinery manufacturing .....	2	24	9	728	34 785	425	853	13 462	68 153	60 305	127 829	14 118
33331	Commercial and service industry machinery manufacturing .....	2	24	9	728	34 785	425	853	13 462	68 153	60 305	127 829	14 118
333319	Other commercial and service industry machinery manufacturing .....	2	18	6	489	23 562	258	539	8 438	48 083	47 795	95 813	D
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	3	28	12	721	27 238	515	1 013	14 847	56 989	54 242	111 474	1 131
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	3	28	12	721	27 238	515	1 013	14 847	56 989	54 242	111 474	1 131
333415	Air-conditioning and warm air heating equipment and commercial and industrial refrigeration equipment manufacturing .....	4	14	6	371	15 331	264	542	9 244	30 938	33 589	64 633	584
3335	Metalworking machinery manufacturing .....	2	'910	'320	'24 136	'1 203 068	'16 308	'32 949	'737 823	'2 379 314	'1 336 856	'3 805 053	'110 036
33351	Metalworking machinery manufacturing .....	2	'910	'320	'24 136	'1 203 068	'16 308	'32 949	'737 823	'2 379 314	'1 336 856	'3 805 053	'110 036
333511	Industrial mold manufacturing .....	1	141	47	3 456	178 970	2 486	5 180	119 569	335 442	135 581	467 499	12 984
333512	Machine tool (metal cutting types) manufacturing .....	1	51	30	1 615	86 575	947	1 916	43 233	126 011	176 414	335 811	5 696
333513	Machine tool (metal forming types) manufacturing .....	2	14	8	e	D	D	D	D	D	D	D	D
333514	Special die and tool, die set, jig, and fixture manufacturing .....	2	427	140	11 154	555 253	8 239	16 378	379 725	1 005 359	445 623	1 498 799	60 652
333515	Cutting tool and machine tool accessory manufacturing ...	2	210	60	3 716	161 027	2 452	4 916	96 905	340 898	169 824	519 282	18 712
333518	Other metalworking machinery manufacturing ..	3	'61	'34	'3 785	'203 837	'1 939	'4 078	'89 983	'533 157	'386 751	'923 730	'10 244
3336	Engine, turbine, and power transmission equipment manufacturing .....	—	35	17	3 695	209 634	2 161	4 667	100 205	749 576	1 008 571	1 766 980	D
33361	Engine, turbine, and power transmission equipment manufacturing .....	—	35	17	3 695	209 634	2 161	4 667	100 205	749 576	1 008 571	1 766 980	D
333612	Speed changer, industrial high-speed drive, and gear manufacturing .....	—	12	7	380	15 422	290	591	9 921	33 288	21 398	54 556	D
333618	Other engine equipment manufacturing .....	—	12	7	3 077	183 567	1 709	3 779	83 996	686 028	973 781	1 671 982	D

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>DETROIT-WARREN-FLINT, MI COMBINED STATISTICAL AREA—Con.</b>												
	<b>Detroit-Warren-Livonia, MI Metropolitan Statistical Area—Con.</b>												
333	Machinery manufacturing—Con.												
3339	Other general purpose machinery manufacturing .....	—	'241	'85	'9 741	'541 409	'4 718	'9 503	'207 951	'1 184 634	'1 234 311	'2 366 254	'36 479
33391	Pump and compressor manufacturing .....	1	12	4	407	25 392	119	255	5 905	72 074	35 581	108 900	1 422
333912	Air and gas compressor manufacturing .....	1	7	2	252	17 824	70	155	4 297	56 935	21 967	79 709	729
33392	Material handling equipment manufacturing .....	—	'59	'29	'2 140	'109 999	'1 279	'2 664	'56 279	'281 871	'210 024	'493 968	'10 729
333922	Conveyor and conveying equipment manufacturing ..	—	'39	'19	'1 436	'81 971	'878	'1 855	'43 459	'225 448	'153 136	'381 120	'7 245
333923	Overhead traveling crane, hoist, and monorail system manufacturing .....	—	11	6	e	D	D	D	D	D	D	D	D
333924	Industrial truck, tractor, trailer, and stacker machinery manufacturing ..	—	5	1	333	12 211	221	451	7 157	28 549	29 932	58 231	3 066
33399	All other general purpose machinery manufacturing ....	1	170	52	7 194	406 018	3 320	6 584	145 767	830 689	988 706	1 763 386	24 328
333992	Welding and soldering equipment manufacturing ..	1	26	15	2 663	166 244	1 286	2 682	68 428	377 455	411 392	729 222	9 570
333993	Packaging machinery manufacturing .....	—	7	2	256	17 697	101	170	6 312	22 533	37 051	58 333	D
333994	Industrial process furnace and oven manufacturing ...	3	23	7	489	24 378	309	619	12 548	45 256	29 001	74 069	1 057
333995	Fluid power cylinder and actuator manufacturing ....	—	10	5	413	18 301	245	492	9 394	54 034	28 301	81 235	4 908
333999	All other miscellaneous general purpose machinery manufacturing .....	—	92	21	3 182	169 863	1 301	2 479	45 930	317 333	474 665	798 715	7 920
334	Computer and electronic product manufacturing .....	1	'210	64	'7 675	'326 501	'4 217	'8 194	'126 673	'700 271	'602 654	'1 324 393	'27 483
3341	Computer and peripheral equipment manufacturing .....	'1	'19	4	'1 113	'58 096	'519	'829	'21 049	'90 470	'22 605	'115 492	'3 843
33411	Computer and peripheral equipment manufacturing ....	'1	'19	4	'1 113	'58 096	'519	'829	'21 049	'90 470	'22 605	'115 492	'3 843
334111	Electronic computer manufacturing .....	—	'6	3	'1 028	'53 463	'489	'778	'20 273	'82 168	'14 823	'99 420	'3 005
3342	Communications equipment manufacturing .....	1	12	6	e	D	D	D	D	D	D	D	D
33429	Other communications equipment manufacturing ....	1	7	4	269	13 103	95	180	2 952	31 671	29 761	61 780	989
334290	Other communications equipment manufacturing ..	1	7	4	269	13 103	95	180	2 952	31 671	29 761	61 780	989
3344	Semiconductor and other electronic component manufacturing .....	—	63	23	2 449	96 536	1 247	2 489	35 332	196 202	292 279	504 037	11 103
33441	Semiconductor and other electronic component manufacturing .....	—	63	23	2 449	96 536	1 247	2 489	35 332	196 202	292 279	504 037	11 103
334412	Bare printed circuit board manufacturing .....	7	11	4	311	9 486	231	478	5 329	16 901	12 616	29 454	598
334418	Printed circuit assembly (electronic assembly) manufacturing .....	—	10	8	1 388	49 004	642	1 219	17 742	102 251	227 430	344 332	8 024
334419	Other electronic component manufacturing .....	—	23	8	516	26 431	239	506	7 666	57 001	36 539	93 662	1 875
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	3	95	25	2 067	111 824	926	1 888	35 221	216 377	106 221	327 370	7 409
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	3	95	25	2 067	111 824	926	1 888	35 221	216 377	106 221	327 370	7 409
334513	Instruments and related products manufacturing for measuring, displaying, and controlling industrial process variables .....	2	26	12	721	39 617	295	613	11 782	77 992	38 347	118 337	2 199
334515	Instrumenting manufacturing for measuring and testing electricity and electrical signals .....	9	14	1	320	20 926	139	287	4 849	46 544	25 958	72 502	1 513
334519	Other measuring and controlling device manufacturing .....	1	28	5	552	28 712	280	548	11 425	55 120	20 397	72 163	1 810

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>DETROIT-WARREN-FLINT, MI COMBINED STATISTICAL AREA—Con.</b>												
	<b>Detroit-Warren-Livonia, MI Metropolitan Statistical Area—Con.</b>												
334	Computer and electronic product manufacturing—Con.												
3346	Manufacturing and reproducing magnetic and optical media, . . .	—	15	5	g	D	D	D	D	D	D	D	D
33461	Manufacturing and reproducing magnetic and optical media, . . .	—	15	5	g	D	D	D	D	D	D	D	D
334612	Prerecorded compact disc (except software), tape, and record reproducing . . . . .	—	11	3	g	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing . . . . .	2	126	40	3 333	137 446	1 984	3 793	60 009	305 060	246 229	543 880	14 464
3353	Electrical equipment manufacturing . . . . .	2	74	21	1 661	70 430	1 015	1 689	32 675	135 295	101 253	233 432	3 379
33531	Electrical equipment manufacturing . . . . .	2	74	21	1 661	70 430	1 015	1 689	32 675	135 295	101 253	233 432	3 379
335313	Switchgear and switchboard apparatus manufacturing . . .	2	17	4	326	14 796	191	347	7 105	27 697	23 214	48 185	1 471
335314	Relay and industrial control manufacturing . . . . .	1	41	11	985	43 117	610	898	19 255	74 333	59 021	133 320	1 015
3359	Other electrical equipment and component manufacturing . . . . .	1	39	16	1 462	60 295	842	1 840	24 492	141 118	124 849	261 739	10 680
33593	Wiring device manufacturing . . .	—	9	5	745	32 888	435	969	13 535	66 326	57 578	126 459	2 579
335931	Current-carrying wiring device manufacturing . . . . .	—	6	4	f	D	D	D	D	D	D	D	D
33599	All other electrical equipment and component manufacturing . . . . .	1	23	8	f	D	D	D	D	D	D	D	D
335999	All other miscellaneous electrical equipment and component manufacturing . .	1	20	7	553	20 263	330	714	8 388	56 245	50 828	101 518	D
336	Transportation equipment manufacturing . . . . .	—	573	352	128 901	7 436 251	109 339	212 117	6 131 117	25 950 348	48 835 345	74 622 230	1 425 832
3361	Motor vehicle manufacturing . . . . .	—	22	16	k	D	D	D	D	D	D	D	D
33611	Automobile and light duty motor vehicle manufacturing . . . . .	—	20	15	k	D	D	D	D	D	D	D	D
336111	Automobile manufacturing . . .	—	16	11	j	D	D	D	D	D	D	D	D
336112	Light truck and utility vehicle manufacturing . . . . .	—	4	4	j	D	D	D	D	D	D	D	D
33612	Heavy duty truck manufacturing . . . . .	2	2	1	e	D	D	D	D	D	D	D	D
336120	Heavy duty truck manufacturing . . . . .	2	2	1	e	D	D	D	D	D	D	D	D
3362	Motor vehicle body and trailer manufacturing . . . . .	9	22	4	e	D	D	D	D	D	D	D	D
33621	Motor vehicle body and trailer manufacturing . . . . .	9	22	4	e	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing . . . . .	—	480	312	l	D	D	D	D	D	D	D	934 052
33631	Motor vehicle gasoline engine and engine parts manufacturing . . . . .	—	52	25	14 995	956 943	12 910	24 807	804 105	2 093 657	5 547 257	7 603 901	238 916
336312	Gasoline engine and engine parts manufacturing . . . . .	—	50	24	j	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical and electronic equipment manufacturing . . . . .	—	28	14	h	D	D	D	D	D	D	D	25 636
336322	Other motor vehicle electrical and electronic equipment manufacturing . . . . .	—	26	13	h	D	D	D	D	D	D	D	D
33633	Motor vehicle steering and suspension component (except spring) manufacturing . . . . .	—	12	6	g	D	D	D	D	D	D	D	6 710
336330	Motor vehicle steering and suspension component (except spring) manufacturing . . . . .	—	12	6	g	D	D	D	D	D	D	D	6 710
33634	Motor vehicle brake system manufacturing . . . . .	—	21	12	1 564	67 419	1 159	2 416	44 794	344 430	519 421	872 606	30 210
336340	Motor vehicle brake system manufacturing . . . . .	—	21	12	1 564	67 419	1 159	2 416	44 794	344 430	519 421	872 606	30 210
33635	Motor vehicle transmission and power train parts manufacturing . . . . .	—	44	32	17 396	1 104 336	15 423	34 494	969 679	3 030 779	4 528 856	7 518 312	290 227
336350	Motor vehicle transmission and power train parts manufacturing . . . . .	—	44	32	17 396	1 104 336	15 423	34 494	969 679	3 030 779	4 528 856	7 518 312	290 227
33636	Motor vehicle seating and interior trim manufacturing . . . .	—	38	29	11 447	463 258	9 066	14 581	320 156	1 113 215	2 440 608	3 544 261	41 324
336360	Motor vehicle seating and interior trim manufacturing . .	—	38	29	11 447	463 258	9 066	14 581	320 156	1 113 215	2 440 608	3 544 261	41 324

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>DETROIT-WARREN-FLINT, MI COMBINED STATISTICAL AREA—Con.</b>												
	<b>Detroit-Warren-Livonia, MI Metropolitan Statistical Area—Con.</b>												
336	Transportation equipment manufacturing—Con.												
3363	Motor vehicle parts manufacturing—Con.												
33637	Motor vehicle metal stamping ..	1	177	124	29 145	1 397 520	24 324	41 351	1 102 167	2 888 051	3 243 672	6 107 105	234 963
336370	Motor vehicle metal stamping ..	1	177	124	29 145	1 397 520	24 324	41 351	1 102 167	2 888 051	3 243 672	6 107 105	234 963
33639	Other motor vehicle parts manufacturing ..	1	108	70	9 923	389 295	7 452	13 874	237 718	1 105 412	1 348 223	2 443 703	66 066
336391	Motor vehicle air-conditioning manufacturing ..	—	3	3	338	20 809	241	497	13 099	72 184	242 968	315 636	9 522
336399	All other motor vehicle parts manufacturing ..	1	105	67	9 585	368 486	7 211	13 377	224 619	1 033 228	1 105 255	2 128 067	56 544
3364	Aerospace product and parts manufacturing ..	—	25	12	g	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing ..	—	25	12	g	D	D	D	D	D	D	D	D
336412	Aircraft engine and engine parts manufacturing ..	—	14	9	g	D	D	D	D	D	D	D	D
3369	Other transportation equipment manufacturing ..	—	15	7	f	D	D	D	D	D	D	D	D
33699	Other transportation equipment manufacturing ..	—	15	7	f	D	D	D	D	D	D	D	D
336999	All other transportation equipment manufacturing ..	—	6	4	e	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing ..	3	238	49	4 161	131 520	3 031	4 998	81 353	269 991	224 250	491 852	7 522
3371	Household and institutional furniture and kitchen cabinet manufacturing ..	2	165	23	1 758	51 238	1 352	2 648	34 419	96 180	76 160	173 663	2 735
33711	Wood kitchen cabinet and countertop manufacturing ..	2	100	8	944	29 024	665	1 323	17 518	51 644	39 855	92 917	1 432
337110	Wood kitchen cabinet and countertop manufacturing ..	2	100	8	944	29 024	665	1 323	17 518	51 644	39 855	92 917	1 432
33712	Household and institutional furniture manufacturing ..	2	65	15	814	22 214	687	1 325	16 901	44 536	36 305	80 746	1 303
337122	Nonupholstered wood household furniture manufacturing ..	4	28	6	346	8 283	306	583	6 664	17 057	14 027	31 174	D
3372	Office furniture (including fixtures) manufacturing ..	1	60	18	1 820	63 115	1 234	1 590	35 957	128 955	102 674	227 422	2 888
33721	Office furniture (including fixtures) manufacturing ..	1	60	18	1 820	63 115	1 234	1 590	35 957	128 955	102 674	227 422	2 888
337212	Custom architectural woodwork and millwork manufacturing ..	—	22	5	271	11 242	174	359	6 311	21 434	8 540	29 952	450
337215	Showcase, partition, shelving, and locker manufacturing ..	2	30	11	1 432	48 007	980	1 110	26 993	99 589	89 762	185 602	2 265
3379	Other furniture related product manufacturing ..	6	13	8	583	17 167	445	760	10 977	44 856	45 416	90 767	1 899
33791	Mattress manufacturing ..	7	5	4	e	D	D	D	D	D	D	D	D
337910	Mattress manufacturing ..	7	5	4	e	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing ..	2	478	74	6 453	246 542	4 138	7 885	129 966	543 008	306 710	844 486	20 597
3391	Medical equipment and supplies manufacturing ..	2	181	23	1 980	70 122	1 312	2 448	40 641	193 506	74 680	264 394	6 605
33911	Medical equipment and supplies manufacturing ..	2	181	23	1 980	70 122	1 312	2 448	40 641	193 506	74 680	264 394	6 605
339113	Surgical appliance and supplies manufacturing ..	2	26	8	419	16 398	253	524	7 234	51 235	19 831	70 931	2 859
339114	Dental equipment and supplies manufacturing ..	—	17	2	298	12 522	209	397	7 064	64 827	31 723	93 089	709
339115	Ophthalmic goods manufacturing ..	3	12	4	274	10 225	120	209	3 064	19 850	8 891	28 733	813
339116	Dental laboratories ..	3	113	8	908	27 890	679	1 208	21 801	49 541	10 527	60 186	1 759
3399	Other miscellaneous manufacturing ..	2	297	51	4 473	176 420	2 826	5 437	89 325	349 502	232 030	580 092	13 992
33995	Sign manufacturing ..	2	106	17	1 689	77 408	943	1 933	34 793	127 315	78 651	209 688	2 548
339950	Sign manufacturing ..	2	106	17	1 689	77 408	943	1 933	34 793	127 315	78 651	209 688	2 548
33999	All other miscellaneous manufacturing ..	2	134	26	2 175	79 248	1 534	2 856	46 698	184 564	112 832	291 754	7 235
339991	Gasket, packing, and sealing device manufacturing ..	5	21	11	762	28 856	499	1 023	14 875	66 354	35 605	102 108	1 238
339999	All other miscellaneous manufacturing ..	1	102	12	1 162	44 413	836	1 516	28 266	101 823	66 805	163 339	5 809

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>DETROIT-WARREN-FLINT, MI COMBINED STATISTICAL AREA—Con.</b>												
	<b>Detroit-Warren-Livonia, MI Metropolitan Statistical Area—Con.</b>												
	<b>Detroit-Livonia-Dearborn, MI Metropolitan Division</b>												
31-33	Manufacturing .....	—	2 059	645	118 362	6 164 828	92 972	179 378	4 620 418	18 890 667	33 596 911	52 401 486	1 275 878
311	Food manufacturing .....	2	180	43	5 652	163 917	4 224	8 281	103 498	638 612	871 609	1 501 478	30 551
3115	Dairy product manufacturing .....	—	7	5	575	22 240	425	831	12 593	76 230	186 823	261 503	D
31151	Dairy product (except frozen) manufacturing .....	—	4	4	e	D	D	D	D	D	D	D	D
311511	Fluid milk manufacturing .....	—	2	2	e	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	2	22	14	2 450	63 026	1 910	3 943	40 772	255 280	512 837	762 866	14 005
31161	Animal slaughtering and processing .....	2	22	14	2 450	63 026	1 910	3 943	40 772	255 280	512 837	762 866	14 005
311612	Meat processed from carcasses .....	2	13	10	1 484	41 010	1 044	2 206	22 806	236 003	490 549	720 731	13 060
311615	Poultry processing .....	9	2	2	f	D	D	D	D	D	D	D	D
3118	Bakeries and tortilla manufacturing .....	7	114	14	1 380	40 968	925	1 718	26 535	98 436	53 660	150 055	5 667
31181	Bread and bakery product manufacturing .....	7	107	13	g	D	D	D	D	D	D	D	D
311811	Retail bakeries .....	5	84	6	f	D	D	D	D	D	D	D	D
311812	Commercial bakeries .....	5	21	6	e	D	D	D	D	D	D	D	2 229
311813	Frozen cakes, pies, and other pastries manufacturing .....	9	2	1	e	D	D	D	D	D	D	D	D
3119	Other food manufacturing .....	1	21	7	1 010	30 971	759	1 411	18 418	182 207	95 030	277 335	6 229
31191	Snack food manufacturing .....	1	6	4	f	D	D	D	D	D	D	D	D
311919	Other snack food manufacturing .....	1	6	4	f	D	D	D	D	D	D	D	D
312	Beverage and tobacco product manufacturing .....	—	12	4	f	D	D	D	D	D	D	D	11 939
3121	Beverage manufacturing .....	—	11	4	f	D	D	D	D	D	D	D	D
31211	Soft drink and ice manufacturing .....	—	6	4	f	D	D	D	D	D	D	D	D
312111	Soft drink manufacturing .....	—	4	4	f	D	D	D	D	D	D	D	D
314	Textile product mills .....	2	25	4	293	7 669	233	456	4 580	10 669	10 379	20 614	77
3149	Other textile product mills .....	2	14	4	253	6 830	203	402	4 134	9 356	9 292	18 213	60
322	Paper manufacturing .....	2	35	18	1 481	51 191	1 147	2 470	31 580	109 972	180 415	292 190	6 334
3222	Converted paper product manufacturing .....	3	34	17	g	D	D	D	D	D	D	D	D
32221	Paperboard container manufacturing .....	1	19	9	688	22 684	526	1 134	12 587	48 671	95 526	144 372	D
322211	Corrugated and solid fiber box manufacturing .....	1	12	6	e	D	D	D	D	D	D	D	1 230
32229	Other converted paper product manufacturing .....	9	6	2	e	D	D	D	D	D	D	D	D
322299	All other converted paper product manufacturing .....	9	5	2	e	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	1	179	27	2 210	89 530	1 515	2 874	55 455	285 809	199 530	486 541	6 534
3231	Printing and related support activities .....	1	179	27	2 210	89 530	1 515	2 874	55 455	285 809	199 530	486 541	6 534
32311	Printing .....	1	155	24	2 004	80 058	1 389	2 642	49 855	268 821	196 471	466 543	6 067
323110	Commercial lithographic printing .....	1	84	16	1 376	59 713	960	1 825	37 619	222 007	170 117	392 771	4 483
324	Petroleum and coal products manufacturing .....	—	23	9	1 130	57 106	579	1 064	25 327	290 628	919 245	1 169 831	33 078
3241	Petroleum and coal products manufacturing .....	—	23	9	1 130	57 106	579	1 064	25 327	290 628	919 245	1 169 831	33 078
32411	Petroleum refineries .....	—	2	2	e	D	D	D	D	D	D	D	D
324110	Petroleum refineries .....	—	2	2	e	D	D	D	D	D	D	D	D
32412	Asphalt paving, roofing, and saturated materials manufacturing .....	—	9	4	e	D	D	D	D	D	D	D	D
324121	Asphalt paving mixture and block manufacturing .....	—	7	2	e	D	D	D	D	D	D	D	D
32419	Other petroleum and coal products manufacturing .....	7	12	3	e	D	D	D	D	D	D	D	D
324199	All other petroleum and coal products manufacturing .....	9	1	1	e	D	D	D	D	D	D	D	D

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>DETROIT-WARREN-FLINT, MI COMBINED STATISTICAL AREA—Con.</b>												
	<b>Detroit-Warren-Livonia, MI Metropolitan Statistical Area—Con.</b>												
	<b>Detroit-Livonia-Dearborn, MI Metropolitan Division—Con.</b>												
325	Chemical manufacturing .....	2	80	29	2 595	145 236	1 317	2 621	59 729	425 387	564 112	987 979	66 951
3251	Basic chemical manufacturing ...	2	15	8	f	D	D	D	D	D	D	D	D
32519	Other basic organic chemical manufacturing .....	—	7	3	318	19 841	174	361	10 671	71 699	58 802	120 946	D
325199	All other basic organic chemical manufacturing ....	—	6	2	e	D	D	D	D	D	D	D	D
3252	Resin, synthetic rubber, and artificial synthetic fibers and filaments manufacturing .....	—	5	3	f	D	D	D	D	D	D	D	D
32521	Resin and synthetic rubber manufacturing .....	—	5	3	f	D	D	D	D	D	D	D	D
325211	Plastics material and resin manufacturing .....	—	3	3	f	D	D	D	D	D	D	D	D
3254	Pharmaceutical and medicine manufacturing .....	1	9	7	377	14 801	232	451	8 332	44 464	17 937	64 696	20 967
32541	Pharmaceutical and medicine manufacturing .....	1	9	7	377	14 801	232	451	8 332	44 464	17 937	64 696	20 967
3259	Other chemical product and preparation manufacturing .....	2	14	6	428	17 281	311	607	9 931	41 219	66 951	109 249	2 365
32599	All other chemical product and preparation manufacturing ...	2	12	6	e	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	1	83	39	4 670	164 760	3 662	6 970	113 196	466 138	443 439	911 424	20 935
3261	Plastics product manufacturing ..	1	68	36	4 541	160 365	3 582	6 800	110 949	457 546	437 601	896 467	19 757
32611	Plastics packaging materials and unlaminated film and sheet manufacturing .....	—	7	3	414	27 212	262	591	17 544	114 199	67 724	185 080	2 955
326113	Unlaminated plastics film and sheet (except packaging) manufacturing .....	—	4	2	e	D	D	D	D	D	D	D	D
32614	Polystyrene foam product manufacturing .....	—	2	2	e	D	D	D	D	D	D	D	D
326140	Polystyrene foam product manufacturing .....	—	2	2	e	D	D	D	D	D	D	D	D
32616	Plastics bottle manufacturing ..	—	1	1	e	D	D	D	D	D	D	D	D
326160	Plastics bottle manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	1	45	26	3 235	97 898	2 619	4 715	67 455	260 449	271 581	530 444	13 541
326199	All other plastics product manufacturing .....	2	44	25	h	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing .....	2	60	29	2 928	155 861	2 368	4 820	119 948	400 281	315 211	713 083	15 955
3272	Glass and glass product manufacturing .....	1	7	3	1 327	86 934	1 156	2 300	73 332	179 618	116 907	298 027	3 397
32721	Glass and glass product manufacturing .....	1	7	3	1 327	86 934	1 156	2 300	73 332	179 618	116 907	298 027	3 397
327215	Glass product manufacturing made of purchased glass ..	—	6	2	g	D	D	D	D	D	D	D	3 397
3273	Cement and concrete product manufacturing .....	2	27	16	828	41 608	633	1 376	29 173	97 606	127 799	224 742	5 656
32731	Cement manufacturing .....	3	3	2	e	D	D	D	D	D	D	D	D
327310	Cement manufacturing .....	3	3	2	e	D	D	D	D	D	D	D	D
32732	Ready-mix concrete manufacturing .....	1	15	11	381	21 763	276	563	14 857	52 936	55 528	108 519	2 860
327320	Ready-mix concrete manufacturing .....	1	15	11	381	21 763	276	563	14 857	52 936	55 528	108 519	2 860
3279	Other nonmetallic mineral product manufacturing .....	5	18	8	691	25 297	537	1 071	16 202	116 799	67 270	180 827	D
32791	Abrasive product manufacturing .....	6	8	6	442	16 104	349	682	9 976	97 010	49 022	142 746	3 491
327910	Abrasive product manufacturing .....	6	8	6	442	16 104	349	682	9 976	97 010	49 022	142 746	3 491
331	Primary metal manufacturing .....	—	44	27	8 019	437 969	5 945	12 996	319 040	688 726	2 242 471	2 963 218	52 967
3311	Iron and steel mills and ferroalloy manufacturing .....	—	4	4	6 290	359 691	4 781	10 628	274 789	485 345	1 815 319	2 329 245	D
33111	Iron and steel mills and ferroalloy manufacturing .....	—	4	4	6 290	359 691	4 781	10 628	274 789	485 345	1 815 319	2 329 245	D
331111	Iron and steel mills .....	—	4	4	6 290	359 691	4 781	10 628	274 789	485 345	1 815 319	2 329 245	D

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>DETROIT-WARREN-FLINT, MI COMBINED STATISTICAL AREA—Con.</b>												
	<b>Detroit-Warren-Livonia, MI Metropolitan Statistical Area—Con.</b>												
	<b>Detroit-Livonia-Dearborn, MI Metropolitan Division—Con.</b>												
331	Primary metal manufacturing—Con.												
3312	Steel product manufacturing from purchased steel .....	—	15	11	1 010	45 051	670	1 338	25 516	111 757	215 967	330 214	5 684
33121	Iron and steel pipe and tube manufacturing from purchased steel .....	—	3	3	443	17 012	262	497	6 707	40 970	52 785	93 007	D
331210	Iron and steel pipe and tube manufacturing from purchased steel .....	—	3	3	443	17 012	262	497	6 707	40 970	52 785	93 007	D
33122	Rolling and drawing of purchased steel .....	—	12	8	567	28 039	408	841	18 809	70 787	163 182	237 207	D
331221	Rolled steel shape manufacturing .....	—	11	8	f	D	D	D	D	D	D	D	D
3315	Foundries .....	1	17	8	518	22 442	367	742	13 023	49 697	80 061	131 111	3 322
33151	Ferrous metal foundries .....	—	10	7	e	D	D	D	D	D	D	D	2 310
332	Fabricated metal product manufacturing .....	4	544	162	12 679	501 437	9 316	18 855	322 630	1 237 425	967 510	2 197 503	67 465
3321	Forging and stamping .....	3	32	18	1 222	51 493	950	1 792	35 060	98 332	106 310	201 192	4 616
33211	Forging and stamping .....	3	32	18	1 222	51 493	950	1 792	35 060	98 332	106 310	201 192	4 616
332111	Iron and steel forging .....	3	10	8	529	21 951	426	743	16 697	34 621	51 274	83 169	2 118
332116	Metal stamping .....	—	14	7	446	18 629	328	637	11 225	39 312	30 532	69 368	1 663
3322	Cutlery and handtool manufacturing .....	1	18	8	722	31 459	472	940	19 658	53 430	35 173	80 618	D
33221	Cutlery and handtool manufacturing .....	1	18	8	722	31 459	472	940	19 658	53 430	35 173	80 618	D
332212	Hand and edge tool manufacturing .....	2	15	7	e	D	D	D	D	D	D	D	D
332214	Kitchen utensil, pot, and pan manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
3323	Architectural and structural metals manufacturing .....	4	79	19	1 915	78 055	1 202	2 440	41 288	135 802	244 199	391 837	6 098
33231	Plate work and fabricated structural product manufacturing .....	6	33	7	1 060	44 800	720	1 454	24 610	73 095	191 851	276 485	4 249
332312	Fabricated structural metal manufacturing .....	4	24	5	736	31 571	475	940	15 852	62 121	97 926	168 648	D
332313	Plate work manufacturing .....	9	6	2	e	D	D	D	D	D	D	D	D
33232	Ornamental and architectural metal products manufacturing .....	1	46	12	855	33 255	482	986	16 678	62 707	52 348	115 352	1 849
332322	Sheet metal work manufacturing .....	1	26	6	530	21 452	319	645	11 620	36 256	27 816	64 430	968
3325	Hardware manufacturing .....	8	9	3	299	10 147	232	429	6 432	26 854	18 809	45 646	1 218
33251	Hardware manufacturing .....	8	9	3	299	10 147	232	429	6 432	26 854	18 809	45 646	1 218
332510	Hardware manufacturing .....	8	9	3	299	10 147	232	429	6 432	26 854	18 809	45 646	1 218
3326	Spring and wire product manufacturing .....	3	19	4	286	9 074	201	433	5 718	21 397	13 630	34 896	1 319
33261	Spring and wire product manufacturing .....	3	19	4	286	9 074	201	433	5 718	21 397	13 630	34 896	1 319
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	5	222	55	4 314	175 921	3 306	6 919	120 023	516 373	362 613	872 973	31 046
33271	Machine shops .....	5	151	19	1 756	74 880	1 367	2 809	52 800	157 928	81 475	239 938	9 480
332710	Machine shops .....	5	151	19	1 756	74 880	1 367	2 809	52 800	157 928	81 475	239 938	9 480
33272	Turned product and screw, nut, and bolt manufacturing .....	5	71	36	2 558	101 041	1 939	4 110	67 223	358 445	281 138	633 035	21 566
332721	Precision turned product manufacturing .....	3	39	18	1 146	43 609	942	1 993	31 252	93 593	47 746	141 313	6 580
332722	Bolt, nut, screw, rivet, and washer manufacturing .....	6	32	18	1 412	57 432	997	2 117	35 971	264 852	233 392	491 722	14 986
3328	Coating, engraving, heat treating, and allied activities .....	1	104	40	3 025	107 747	2 281	4 452	68 735	257 899	98 292	355 525	18 041
33281	Coating, engraving, heat treating, and allied activities ..	1	104	40	3 025	107 747	2 281	4 452	68 735	257 899	98 292	355 525	18 041
332811	Metal heat treating .....	1	30	17	865	33 607	608	1 219	19 543	88 191	22 284	110 492	8 335
332812	Metal coating, engraving (except jewelry and silverware), and allied services to manufacturers ..	3	27	10	846	28 430	687	1 215	19 994	79 405	46 729	124 872	2 644
332813	Electroplating, plating, polishing, anodizing, and coloring .....	—	47	13	1 314	45 710	986	2 018	29 198	90 303	29 279	120 161	7 062

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
		E <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)					Wages (\$1,000)
	<b>DETROIT-WARREN-FLINT, MI COMBINED STATISTICAL AREA—Con.</b>												
	<b>Detroit-Warren-Livonia, MI Metropolitan Statistical Area—Con.</b>												
	<b>Detroit-Livonia-Dearborn, MI Metropolitan Division—Con.</b>												
332	Fabricated metal product manufacturing—Con.												
3329	Other fabricated metal product manufacturing .....	2	56	12	774	32 924	578	1 235	22 725	115 917	78 478	193 244	1 625
33299	All other fabricated metal product manufacturing .....	2	49	11	568	23 560	426	882	15 932	66 321	31 734	95 565	1 087
332999	All other miscellaneous fabricated metal product manufacturing .....	2	27	5	289	11 848	214	436	7 500	46 041	20 580	64 478	773
333	Machinery manufacturing .....	1	298	90	10 170	517 581	6 756	12 772	290 593	1 201 826	1 344 880	2 585 121	124 324
3332	Industrial machinery manufacturing .....	1	25	8	828	44 556	449	686	18 263	56 898	156 012	253 234	D
33329	Other industrial machinery manufacturing .....	1	22	7	783	42 346	421	650	17 343	54 379	153 000	247 557	D
333298	All other industrial machinery manufacturing .....	1	18	6	744	40 567	395	603	16 379	51 492	151 144	242 822	D
3335	Metalworking machinery manufacturing .....	2	'184	'62	'5 069	'240 320	'3 819	'6 789	'162 503	'483 591	'185 763	'661 722	'32 614
33351	Metalworking machinery manufacturing .....	2	'184	'62	'5 069	'240 320	'3 819	'6 789	'162 503	'483 591	'185 763	'661 722	'32 614
333511	Industrial mold manufacturing .....	1	14	4	437	19 595	295	511	11 638	34 152	13 785	47 842	1 140
333514	Special die and tool, die set, jig, and fixture manufacturing .....	2	98	31	3 289	155 504	2 652	4 498	115 321	315 224	101 769	413 135	27 288
333515	Cutting tool and machine tool accessory manufacturing ...	2	47	14	712	33 341	501	1 054	20 335	67 675	31 693	98 996	2 484
333518	Other metalworking machinery manufacturing ..	'3	'12	'7	'341	'18 141	'207	'384	'8 495	'39 314	'22 263	'59 148	'943
3336	Engine, turbine, and power transmission equipment manufacturing .....	—	9	5	h	D	D	D	D	D	D	D	D
33361	Engine, turbine, and power transmission equipment manufacturing .....	—	9	5	h	D	D	D	D	D	D	D	D
333618	Other engine equipment manufacturing .....	—	4	4	h	D	D	D	D	D	D	D	D
3339	Other general purpose machinery manufacturing .....	2	'65	'10	'1 076	'43 607	'687	'1 400	'23 007	'118 138	'94 475	'210 928	D
33392	Material handling equipment manufacturing .....	1	'20	'5	f	D	D	D	D	D	D	D	D
333924	Industrial truck, tractor, trailer, and stacker machinery manufacturing ..	—	3	1	e	D	D	D	D	D	D	D	D
33399	All other general purpose machinery manufacturing ....	2	43	5	490	20 490	302	578	9 818	63 383	31 881	93 636	6 103
334	Computer and electronic product manufacturing .....	1	45	16	3 565	147 064	2 311	4 384	66 559	341 957	205 606	554 323	10 170
3341	Computer and peripheral equipment manufacturing .....	—	4	2	f	D	D	D	D	D	D	D	D
33411	Computer and peripheral equipment manufacturing ....	—	4	2	f	D	D	D	D	D	D	D	D
334111	Electronic computer manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
3344	Semiconductor and other electronic component manufacturing .....	5	14	3	297	10 107	233	458	5 162	18 266	16 163	34 335	705
33441	Semiconductor and other electronic component manufacturing .....	5	14	3	297	10 107	233	458	5 162	18 266	16 163	34 335	705
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	5	21	7	819	51 807	316	655	13 449	100 123	49 782	156 447	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	5	21	7	819	51 807	316	655	13 449	100 123	49 782	156 447	D
334513	Instruments and related products manufacturing for measuring, displaying, and controlling industrial process variables .....	1	5	3	258	17 231	72	163	3 513	35 546	14 469	50 181	408
334515	Instrument manufacturing for measuring and testing electricity and electrical signals.....	9	3	1	e	D	D	D	D	D	D	D	D

See footnotes at end of table.



**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>DETROIT-WARREN-FLINT, MI COMBINED STATISTICAL AREA—Con.</b>												
	<b>Detroit-Warren-Livonia, MI Metropolitan Statistical Area—Con.</b>												
	<b>Detroit-Livonia-Dearborn, MI Metropolitan Division—Con.</b>												
334	Computer and electronic product manufacturing—Con.												
3346	Manufacturing and reproducing magnetic and optical media.....	—	4	3	g	D	D	D	D	D	D	D	D
33461	Manufacturing and reproducing magnetic and optical media...	—	4	3	g	D	D	D	D	D	D	D	D
334612	Prerecorded compact disc (except software), tape, and record reproducing .....	—	4	3	g	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing .....	1	28	8	768	36 294	384	864	12 891	89 228	56 739	142 960	2 729
3359	Other electrical equipment and component manufacturing .....	—	10	3	483	25 268	219	520	8 093	57 671	34 478	89 156	1 602
33593	Wiring device manufacturing...	—	1	1	e	D	D	D	D	D	D	D	D
335931	Current-carrying wiring device manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	—	164	95	57 497	3 516 396	50 220	94 717	3 006 955	12 261 799	24 749 254	36 916 434	816 873
3361	Motor vehicle manufacturing .....	—	9	9	j	D	D	D	D	D	D	D	D
33611	Automobile and light duty motor vehicle manufacturing .....	—	8	8	j	D	D	D	D	D	D	D	D
336111	Automobile manufacturing...	—	6	6	j	D	D	D	D	D	D	D	D
336112	Light truck and utility vehicle manufacturing .....	—	2	2	i	D	D	D	D	D	D	D	D
33612	Heavy duty truck manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
336120	Heavy duty truck manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	—	132	79	k	D	D	D	D	D	D	D	425 226
33631	Motor vehicle gasoline engine and engine parts manufacturing .....	—	25	11	12 082	767 861	10 566	19 464	655 383	1 613 210	4 352 650	5 938 437	134 667
336312	Gasoline engine and engine parts manufacturing .....	—	24	11	j	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical and electronic equipment manufacturing .....	—	6	3	h	D	D	D	D	D	D	D	D
336322	Other motor vehicle electrical and electronic equipment manufacturing .....	—	6	3	h	D	D	D	D	D	D	D	D
33634	Motor vehicle brake system manufacturing .....	7	8	4	e	D	D	D	D	D	D	D	D
336340	Motor vehicle brake system manufacturing .....	7	8	4	e	D	D	D	D	D	D	D	D
33635	Motor vehicle transmission and power train parts manufacturing .....	—	15	9	7 392	517 489	6 538	14 604	458 392	1 360 003	1 588 360	2 934 377	145 152
336350	Motor vehicle transmission and power train parts manufacturing .....	—	15	9	7 392	517 489	6 538	14 604	458 392	1 360 003	1 588 360	2 934 377	145 152
33636	Motor vehicle seating and interior trim manufacturing...	—	12	10	2 872	130 008	2 070	4 309	81 473	305 384	1 022 710	1 331 193	7 212
336360	Motor vehicle seating and interior trim manufacturing...	—	12	10	2 872	130 008	2 070	4 309	81 473	305 384	1 022 710	1 331 193	7 212
33637	Motor vehicle metal stamping ..	—	42	28	11 907	439 182	10 580	13 144	363 142	738 082	1 023 945	1 751 439	106 128
336370	Motor vehicle metal stamping .....	—	42	28	11 907	439 182	10 580	13 144	363 142	738 082	1 023 945	1 751 439	106 128
33639	Other motor vehicle parts manufacturing .....	3	22	14	1 426	52 656	1 069	2 100	32 342	166 092	176 330	344 772	12 082
336399	All other motor vehicle parts manufacturing .....	3	22	14	1 426	52 656	1 069	2 100	32 342	166 092	176 330	344 772	12 082
3364	Aerospace product and parts manufacturing .....	1	9	5	e	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing .....	1	9	5	e	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	4	65	18	1 745	53 652	1 286	1 801	33 436	122 599	106 265	227 409	2 965
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	3	34	3	e	D	D	D	D	D	D	D	D

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E1	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>DETROIT-WARREN-FLINT, MI COMBINED STATISTICAL AREA—Con.</b>												
	<b>Detroit-Warren-Livonia, MI Metropolitan Statistical Area—Con.</b>												
	<b>Detroit-Livonia-Dearborn, MI Metropolitan Division—Con.</b>												
337	Furniture and related product manufacturing—Con.												
3372	Office furniture (including fixtures) manufacturing .....	2	25	11	1 064	35 854	726	837	20 118	76 221	70 565	145 441	1 495
33721	Office furniture (including fixtures) manufacturing .....	2	25	11	1 064	35 854	726	837	20 118	76 221	70 565	145 441	1 495
337215	Showcase, partition, shelving, and locker manufacturing .....	2	12	7	882	28 234	607	625	15 444	61 304	64 902	124 875	1 211
3379	Other furniture related product manufacturing .....	9	6	4	e	D	D	D	D	D	D	D	D
33791	Mattress manufacturing .....	9	4	3	e	D	D	D	D	D	D	D	D
337910	Mattress manufacturing .....	9	4	3	e	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing .....	2	146	21	1 770	70 497	1 100	2 165	37 390	193 526	107 974	294 963	4 407
3391	Medical equipment and supplies manufacturing .....	1	56	8	757	28 820	453	890	14 623	96 746	43 879	137 437	1 852
33911	Medical equipment and supplies manufacturing .....	1	56	8	757	28 820	453	890	14 623	96 746	43 879	137 437	1 852
339114	Dental equipment and supplies manufacturing .....	—	7	2	e	D	D	D	D	D	D	D	515
3399	Other miscellaneous manufacturing .....	3	90	13	1 013	41 677	647	1 275	22 767	96 780	64 095	157 526	2 555
33995	Sign manufacturing .....	6	40	4	340	12 354	218	441	6 144	24 364	16 110	40 431	688
339950	Sign manufacturing .....	6	40	4	340	12 354	218	441	6 144	24 364	16 110	40 431	688
33999	All other miscellaneous manufacturing .....	3	34	6	505	24 352	327	660	14 656	60 706	37 756	95 536	1 021
339999	All other miscellaneous manufacturing .....	2	24	3	332	17 188	261	553	13 023	40 426	28 318	66 173	855
	<b>Warren-Farmington Hills-Troy, MI Metropolitan Division</b>												
31-33	Manufacturing .....	—	4 806	*1 581	*189 305	*8 821 149	*138 604	*276 217	*5 873 301	*25 225 990	*33 417 990	*58 655 364	*1 222 603
311	Food manufacturing .....	2	168	29	2 369	65 125	1 387	2 654	32 768	187 736	204 970	391 844	9 439
3114	Fruit and vegetable preserving and specialty food manufacturing .....	—	8	3	518	16 539	447	916	12 212	60 446	79 372	139 816	4 342
31142	Fruit and vegetable canning, pickling, and drying .....	—	6	1	e	D	D	D	D	D	D	D	D
311421	Fruit and vegetable canning .....	—	5	1	e	D	D	D	D	D	D	D	D
3118	Bakeries and tortilla manufacturing .....	3	99	14	985	18 724	434	703	7 957	45 543	21 456	67 007	1 006
31181	Bread and bakery product manufacturing .....	3	94	13	f	D	D	D	D	D	D	D	D
311811	Retail bakeries .....	4	83	9	727	10 461	337	502	5 149	19 511	10 392	29 904	D
3119	Other food manufacturing .....	2	31	6	444	16 834	211	417	5 544	52 384	48 044	97 683	1 333
312	Beverage and tobacco product manufacturing .....	—	12	3	e	D	D	D	D	D	D	D	D
3121	Beverage manufacturing .....	—	12	3	e	D	D	D	D	D	D	D	D
31211	Soft drink and ice manufacturing .....	—	6	3	e	D	D	D	D	D	D	D	D
312111	Soft drink manufacturing .....	—	2	2	e	D	D	D	D	D	D	D	D
313	Textile mills .....	2	23	3	251	8 189	200	410	5 823	19 089	31 436	51 160	D
314	Textile product mills .....	5	61	5	904	24 964	593	1 139	12 761	51 981	66 314	116 847	1 621
3149	Other textile product mills .....	3	36	4	703	19 796	417	791	8 732	38 565	36 588	75 622	1 218
31499	All other textile product mills .....	1	16	2	f	D	D	D	D	D	D	D	D
314999	All other miscellaneous textile product mills .....	1	16	2	f	D	D	D	D	D	D	D	D
315	Apparel manufacturing .....	7	56	3	285	6 959	244	427	5 193	14 585	12 751	27 104	D
316	Leather and allied product manufacturing .....	1	8	2	f	D	D	D	D	D	D	D	D
3161	Leather and hide tanning and finishing .....	—	3	1	f	D	D	D	D	D	D	D	D
31611	Leather and hide tanning and finishing .....	—	3	1	f	D	D	D	D	D	D	D	D
316110	Leather and hide tanning and finishing .....	—	3	1	f	D	D	D	D	D	D	D	D

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>DETROIT-WARREN-FLINT, MI COMBINED STATISTICAL AREA—Con.</b>												
	<b>Detroit-Warren-Livonia, MI Metropolitan Statistical Area—Con.</b>												
	<b>Warren-Farmington Hills-Troy, MI Metropolitan Division—Con.</b>												
321	Wood product manufacturing . . . . .	3	73	20	1 248	42 501	886	1 771	24 849	88 064	83 761	173 212	2 986
3212	Veneer, plywood, and engineered wood product manufacturing . . . . .	2	9	4	372	14 727	236	494	7 428	33 240	29 066	62 212	860
32121	Veneer, plywood, and engineered wood product manufacturing . . . . .	2	9	4	372	14 727	236	494	7 428	33 240	29 066	62 212	860
321214	Truss manufacturing . . . . .	2	8	4	e	D	D	D	D	D	D	D	D
3219	Other wood product manufacturing . . . . .	3	58	16	f	D	D	D	D	D	D	D	D
32191	Millwork . . . . .	5	30	9	367	12 403	282	574	8 607	20 044	25 433	45 410	1 033
32199	All other wood product manufacturing . . . . .	2	18	4	338	11 064	234	470	6 117	28 466	19 606	49 570	D
322	Paper manufacturing . . . . .	1	29	16	1 704	81 672	1 132	2 412	46 540	220 108	263 521	484 281	6 709
3221	Pulp, paper, and paperboard mills . . . . .	1	4	4	f	D	D	D	D	D	D	D	D
32212	Paper mills . . . . .	1	4	4	f	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills . . . . .	1	4	4	f	D	D	D	D	D	D	D	D
3222	Converted paper product manufacturing . . . . .	—	25	12	f	D	D	D	D	D	D	D	D
32221	Paperboard container manufacturing . . . . .	—	12	7	483	18 284	370	745	10 646	44 711	67 138	111 807	D
322211	Corrugated and solid fiber box manufacturing . . . . .	—	10	6	e	D	D	D	D	D	D	D	2 236
32222	Paper bag and coated and treated paper manufacturing . . . . .	—	7	2	e	D	D	D	D	D	D	D	D
322222	Coated and laminated paper manufacturing . . . . .	—	6	2	e	D	D	D	D	D	D	D	D
323	Printing and related support activities . . . . .	2	350	48	4 299	170 612	2 871	5 576	92 923	345 692	203 948	546 553	17 149
3231	Printing and related support activities . . . . .	2	350	48	4 299	170 612	2 871	5 576	92 923	345 692	203 948	546 553	17 149
32311	Printing . . . . .	2	318	46	4 162	164 132	2 789	5 440	89 574	328 049	201 397	526 528	16 209
323110	Commercial lithographic printing . . . . .	2	120	24	1 951	83 578	1 305	2 530	45 567	163 121	106 544	268 599	9 463
323112	Commercial flexographic printing . . . . .	2	12	5	327	13 706	206	436	6 553	26 884	20 912	47 960	980
323113	Commercial screen printing . . . . .	—	38	4	577	22 324	393	788	11 491	44 845	22 138	64 866	2 196
323114	Quick printing . . . . .	3	97	4	514	15 897	326	591	9 192	34 419	13 496	47 934	1 589
323117	Books printing . . . . .	1	7	4	e	D	D	D	D	D	D	D	D
325	Chemical manufacturing . . . . .	1	110	53	5 459	267 114	3 168	6 531	124 244	1 036 860	958 684	2 014 889	76 024
3252	Resin, synthetic rubber, and artificial synthetic fibers and filaments manufacturing . . . . .	2	10	8	e	D	D	D	D	D	D	D	D
32521	Resin and synthetic rubber manufacturing . . . . .	2	10	8	e	D	D	D	D	D	D	D	D
325211	Plastics material and resin manufacturing . . . . .	2	10	8	e	D	D	D	D	D	D	D	D
3254	Pharmaceutical and medicine manufacturing . . . . .	—	10	4	1 018	48 431	556	1 091	21 295	135 656	114 556	247 930	17 372
32541	Pharmaceutical and medicine manufacturing . . . . .	—	10	4	1 018	48 431	556	1 091	21 295	135 656	114 556	247 930	17 372
325412	Pharmaceutical preparation manufacturing . . . . .	—	4	2	f	D	D	D	D	D	D	D	D
3255	Paint, coating, and adhesive manufacturing . . . . .	1	29	15	2 142	108 750	1 197	2 440	50 740	531 855	376 510	927 106	D
32551	Paint and coating manufacturing . . . . .	—	20	10	1 400	80 034	727	1 544	35 811	418 766	287 486	727 309	D
325510	Paint and coating manufacturing . . . . .	—	20	10	1 400	80 034	727	1 544	35 811	418 766	287 486	727 309	D
32552	Adhesive manufacturing . . . . .	5	9	5	742	28 716	470	896	14 929	113 089	89 024	199 797	3 357
325520	Adhesive manufacturing . . . . .	5	9	5	742	28 716	470	896	14 929	113 089	89 024	199 797	3 357
3256	Soap, cleaning compound, and toilet preparation manufacturing . . . . .	5	15	5	e	D	D	D	D	D	D	D	D
32561	Soap and cleaning compound manufacturing . . . . .	6	12	4	e	D	D	D	D	D	D	D	D

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E1	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)					
	<b>DETROIT-WARREN-FLINT, MI COMBINED STATISTICAL AREA—Con.</b>													
	<b>Detroit-Warren-Livonia, MI Metropolitan Statistical Area—Con.</b>													
	<b>Warren-Farmington Hills-Troy, MI Metropolitan Division—Con.</b>													
325	Chemical manufacturing—Con.													
3259	Other chemical product and preparation manufacturing . . . . .	—	35	18	1 437	69 520	805	1 729	29 006	233 836	293 869	528 119	13 309	
32591	Printing ink manufacturing . . . . .	—	2	1	e	D	D	D	D	D	D	D	D	
325910	Printing ink manufacturing . . . . .	—	2	1	e	D	D	D	D	D	D	D	D	
32599	All other chemical product and preparation manufacturing . . . . .	1	32	16	g	D	D	D	D	D	D	D	D	
325991	Custom compounding of purchased resins . . . . .	1	17	10	f	D	D	D	D	D	D	D	D	
325998	All other miscellaneous chemical product and preparation manufacturing . . . . .	—	12	6		532	28 266	294	651	12 717	103 855	134 539	239 219	7 580
326	Plastics and rubber products manufacturing . . . . .	1	252	143	17 379	570 577	13 195	26 047	347 544	1 541 161	1 152 332	2 694 266	107 419	
3261	Plastics product manufacturing . . . . .	1	224	132	16 088	533 067	12 236	24 441	326 625	1 445 522	1 063 645	2 509 249	90 686	
32611	Plastics packaging materials and un laminated film and sheet manufacturing . . . . .	5	13	2	306	13 792	216	442	8 151	34 444	38 150	73 437	2 019	
32612	Plastics pipe, pipe fitting, and un laminated profile shape manufacturing . . . . .	—	14	5	613	20 067	406	811	10 512	42 579	49 457	91 457	D	
326121	Un laminated plastics profile shape manufacturing . . . . .	1	9	3	e	D	D	D	D	D	D	D	D	
326122	Plastics pipe and pipe fitting manufacturing . . . . .	—	5	2	e	D	D	D	D	D	D	D	D	
32614	Polystyrene foam product manufacturing . . . . .	—	5	4	457	13 297	292	545	5 892	23 619	29 992	53 767	D	
326140	Polystyrene foam product manufacturing . . . . .	—	5	4	457	13 297	292	545	5 892	23 619	29 992	53 767	D	
32615	Urethane and other foam product (except polystyrene) manufacturing . . . . .	2	11	5	560	16 714	454	863	10 653	49 854	53 176	102 923	1 844	
326150	Urethane and other foam product (except polystyrene) manufacturing . . . . .	2	11	5	560	16 714	454	863	10 653	49 854	53 176	102 923	1 844	
32619	Other plastics product manufacturing . . . . .	1	181	116	14 152	469 197	10 868	21 780	291 417	1 295 026	892 870	2 187 665	77 329	
326199	All other plastics product manufacturing . . . . .	1	173	113	j	D	D	D	D	D	D	D	D	
3262	Rubber product manufacturing . . . . .	1	28	11	1 291	37 510	959	1 606	20 919	95 639	88 687	185 017	16 733	
32629	Other rubber product manufacturing . . . . .	1	24	11	g	D	D	D	D	D	D	D	D	
326291	Rubber product manufacturing for mechanical use . . . . .	—	12	7	1 039	29 310	772	1 211	16 035	78 268	70 119	148 740	D	
327	Nonmetallic mineral product manufacturing . . . . .	2	127	44	2 834	111 875	2 110	3 266	72 827	240 273	218 260	453 715	14 369	
3272	Glass and glass product manufacturing . . . . .	3	19	5	300	9 169	246	505	6 264	19 596	24 839	44 480	1 257	
32721	Glass and glass product manufacturing . . . . .	3	19	5	300	9 169	246	505	6 264	19 596	24 839	44 480	1 257	
3273	Cement and concrete product manufacturing . . . . .	1	64	30	1 957	78 801	1 507	2 013	54 967	165 811	154 085	314 525	10 011	
32732	Ready-mix concrete manufacturing . . . . .	1	40	21	864	42 042	576	1 215	27 418	114 137	103 771	218 214	7 672	
327320	Ready-mix concrete manufacturing . . . . .	1	40	21	864	42 042	576	1 215	27 418	114 137	103 771	218 214	7 672	
32739	Other concrete product manufacturing . . . . .	—	14	5	873	27 074	794	509	22 758	31 507	34 424	59 931	575	
327390	Other concrete product manufacturing . . . . .	—	14	5	873	27 074	794	509	22 758	31 507	34 424	59 931	575	
3279	Other nonmetallic mineral product manufacturing . . . . .	2	30	6	356	15 389	209	451	7 445	36 438	23 368	60 490	D	
331	Primary metal manufacturing . . . . .	2	67	29	2 396	93 847	1 952	4 130	69 385	260 217	305 405	564 083	9 007	
3312	Steel product manufacturing from purchased steel . . . . .	1	9	7	669	26 117	587	1 273	21 909	79 599	79 671	158 372	2 985	
33121	Iron and steel pipe and tube manufacturing from purchased steel . . . . .	1	3	2	e	D	D	D	D	D	D	D	D	
331210	Iron and steel pipe and tube manufacturing from purchased steel . . . . .	1	3	2	e	D	D	D	D	D	D	D	D	
33122	Rolling and drawing of purchased steel . . . . .	1	6	5	e	D	D	D	D	D	D	D	D	

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)		
		E <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)					Wages (\$1,000)	
	<b>DETROIT-WARREN-FLINT, MI COMBINED STATISTICAL AREA—Con.</b>													
	<b>Detroit-Warren-Livonia, MI Metropolitan Statistical Area—Con.</b>													
	<b>Warren-Farmington Hills-Troy, MI Metropolitan Division—Con.</b>													
331	Primary metal manufacturing—Con.													
3314	Nonferrous metal (except aluminum) production and processing .....	2	12	3	f	D	D	D	D	D	D	2 298		
33142	Copper rolling, drawing, extruding, and alloying .....	—	1	1	e	D	D	D	D	D	D	D		
331421	Copper rolling, drawing, and extruding .....	—	1	1	e	D	D	D	D	D	D	D		
33149	Nonferrous metal (except copper and aluminum) rolling, drawing, extruding, and alloying .....	8	9	2	e	D	D	D	D	D	D	D		
331491	Nonferrous metal (except copper and aluminum) rolling, drawing, and extruding .....	8	7	1	e	D	D	D	D	D	D	D		
3315	Foundries .....	3	31	16		829	29 386	674	1 382	20 239	82 820	33 364	116 159	2 859
33151	Ferrous metal foundries .....	6	17	9	e	D	D	D	D	D	D	D	D	2 082
33152	Nonferrous metal foundries .....	—	14	7	e	D	D	D	D	D	D	D	D	777
332	Fabricated metal product manufacturing .....	1	1 229	370		31 910	1 213 655	23 840	48 317	795 284	'2 680 085	'1 864 556	'4 556 835	180 614
3321	Forging and stamping .....	1	61	26		1 942	84 364	1 442	3 061	53 504	247 902	251 201	500 159	7 237
33211	Forging and stamping .....	1	61	26		1 942	84 364	1 442	3 061	53 504	247 902	251 201	500 159	7 237
332111	Iron and steel forging .....	—	15	8		897	43 022	629	1 367	26 114	159 178	182 916	340 580	2 933
332116	Metal stamping .....	4	29	9		608	22 392	476	956	14 685	52 143	23 913	77 832	1 737
3322	Cutlery and handtool manufacturing .....	1	47	13		1 121	38 708	748	1 279	21 450	88 189	46 169	135 453	3 770
33221	Cutlery and handtool manufacturing .....	1	47	13		1 121	38 708	748	1 279	21 450	88 189	46 169	135 453	3 770
332212	Hand and edge tool manufacturing .....	1	43	12	g	D	D	D	D	D	D	D	D	3 487
3323	Architectural and structural metals manufacturing .....	1	151	40		3 246	117 576	2 075	4 307	70 272	251 963	208 000	467 173	22 498
33231	Plate work and fabricated structural product manufacturing .....	—	71	18		1 732	62 418	1 055	2 202	39 971	146 874	131 280	284 101	16 299
332311	Prefabricated metal building and component manufacturing .....	1	7	2	e	D	D	D	D	D	D	D	D	308
332312	Fabricated structural metal manufacturing .....	1	41	7		580	24 301	397	806	14 174	71 139	56 508	132 422	D
332313	Plate work manufacturing .....	—	23	9	f	D	D	D	D	D	D	D	D	D
33232	Ornamental and architectural metal products manufacturing .....	2	80	22		1 514	55 158	1 020	2 105	30 301	105 089	76 720	183 072	6 199
332321	Metal window and door manufacturing .....	2	12	6		258	8 863	168	361	4 596	17 572	15 954	33 773	941
332322	Sheet metal work manufacturing .....	1	51	15		1 141	41 288	778	1 605	23 358	77 418	56 352	134 809	3 584
3325	Hardware manufacturing .....	—	18	6		3 675	108 216	3 096	6 011	80 929	138 559	105 907	244 032	5 825
33251	Hardware manufacturing .....	—	18	6		3 675	108 216	3 096	6 011	80 929	138 559	105 907	244 032	5 825
332510	Hardware manufacturing .....	—	18	6		3 675	108 216	3 096	6 011	80 929	138 559	105 907	244 032	5 825
3326	Spring and wire product manufacturing .....	3	38	15		708	25 627	517	1 020	15 774	64 459	43 719	107 365	3 730
33261	Spring and wire product manufacturing .....	3	38	15		708	25 627	517	1 020	15 774	64 459	43 719	107 365	3 730
332612	Spring (light gauge) manufacturing .....	—	9	7		305	10 855	222	447	6 469	28 139	21 972	49 728	D
332618	Other fabricated wire product manufacturing .....	4	24	6	e	D	D	D	D	D	D	D	D	D
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	2	605	150		12 119	502 593	8 924	18 377	325 056	'1 130 916	'838 036	'1 974 462	106 379
33271	Machine shops .....	2	484	85		7 230	297 863	5 282	10 597	189 918	638 145	403 046	1 045 306	74 863
332710	Machine shops .....	2	484	85		7 230	297 863	5 282	10 597	189 918	638 145	403 046	1 045 306	74 863
33272	Turned product and screw, nut, and bolt manufacturing .....	2	121	65		4 889	204 730	3 642	7 780	135 138	'492 771	'434 990	'929 156	31 516
332721	Precision turned product manufacturing .....	2	89	43		3 155	122 278	2 382	5 125	78 928	'271 526	'163 298	'436 870	21 088
332722	Bolt, nut, screw, rivet, and washer manufacturing .....	2	32	22		1 734	82 452	1 260	2 655	56 210	221 245	271 692	492 286	10 428

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>DETROIT-WARREN-FLINT, MI COMBINED STATISTICAL AREA—Con.</b>												
	<b>Detroit-Warren-Livonia, MI Metropolitan Statistical Area—Con.</b>												
	<b>Warren-Farmington Hills-Troy, MI Metropolitan Division—Con.</b>												
332	Fabricated metal product manufacturing—Con.												
3328	Coating, engraving, heat treating, and allied activities .....	1	158	70	4 969	170 832	3 823	7 769	111 121	398 584	152 897	552 715	18 630
33281	Coating, engraving, heat treating, and allied activities ..	1	158	70	4 969	170 832	3 823	7 769	111 121	398 584	152 897	552 715	18 630
332811	Metal heat treating .....	1	45	23	1 279	51 942	961	2 054	33 407	107 891	57 772	166 813	7 706
332812	Metal coating, engraving (except jewelry and silverware), and allied services to manufacturers ..	1	64	28	1 720	56 518	1 331	2 543	36 849	146 163	47 949	194 166	6 556
332813	Electroplating, plating, polishing, anodizing, and coloring .....	—	49	19	1 970	62 372	1 531	3 172	40 865	144 530	47 176	191 736	4 368
3329	Other fabricated metal product manufacturing .....	1	138	47	3 988	160 426	3 114	6 288	113 740	344 235	202 559	544 043	12 286
33291	Metal valve manufacturing ....	—	23	8	1 340	46 786	1 072	2 113	33 923	103 020	70 882	174 662	4 896
332912	Fluid power valve and hose fitting manufacturing .....	—	15	6	g	D	D	D	D	D	D	D	D
33299	All other fabricated metal product manufacturing .....	1	115	39	2 648	113 640	2 042	4 175	79 817	241 215	131 677	369 381	7 390
332996	Fabricated pipe and pipe fitting manufacturing .....	2	22	10	e	D	D	D	D	D	D	D	D
332997	Industrial pattern manufacturing .....	—	20	8	854	44 603	707	1 470	36 394	80 937	35 672	116 208	3 650
332999	All other miscellaneous fabricated metal product manufacturing .....	1	69	19	1 224	46 204	931	1 850	30 384	115 429	60 761	173 185	2 557
333	Machinery manufacturing .....	1	'1 045	388	'31 831	'1 662 605	'18 852	'39 024	'846 822	'3 531 560	'2 766 947	'6 346 343	'127 082
3332	Industrial machinery manufacturing .....	1	'69	24	'1 898	'105 690	'906	'1 867	'39 522	'206 419	'226 294	'432 237	D
33322	Plastics and rubber industry machinery manufacturing ....	—	'19	7	e	D	D	D	D	D	D	D	D
333220	Plastics and rubber industry machinery manufacturing ..	—	'19	7	e	D	D	D	D	D	D	D	D
33329	Other industrial machinery manufacturing .....	1	48	17	1 501	87 667	673	1 388	31 200	156 327	193 922	350 297	D
333298	All other industrial machinery manufacturing .....	1	42	17	1 463	86 404	651	1 341	30 665	152 004	191 290	343 266	D
3333	Commercial and service industry machinery manufacturing .....	2	17	8	f	D	D	D	D	D	D	D	D
33331	Commercial and service industry machinery manufacturing .....	2	17	8	f	D	D	D	D	D	D	D	D
333319	Other commercial and service industry machinery manufacturing .....	3	13	5	e	D	D	D	D	D	D	D	D
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	2	23	8	e	D	D	D	D	D	D	D	751
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	2	23	8	e	D	D	D	D	D	D	D	751
333415	Air-conditioning and warm air heating equipment and commercial and industrial refrigeration equipment manufacturing .....	4	11	4	e	D	D	D	D	D	D	D	D
3335	Metalworking machinery manufacturing .....	2	726	258	19 067	962 748	12 489	26 160	575 320	1 895 723	1 151 093	3 143 331	77 422
33351	Metalworking machinery manufacturing .....	2	726	258	19 067	962 748	12 489	26 160	575 320	1 895 723	1 151 093	3 143 331	77 422
333511	Industrial mold manufacturing .....	2	127	43	3 019	159 375	2 191	4 669	107 931	301 290	121 796	419 657	11 844
333512	Machine tool (metal cutting types) manufacturing .....	1	42	26	1 446	78 041	851	1 712	38 955	112 831	165 911	312 214	5 340
333514	Special die and tool, die set, jig, and fixture manufacturing .....	2	329	109	7 865	399 749	5 587	11 880	264 404	690 135	343 854	1 085 664	33 364
333515	Cutting tool and machine tool accessory manufacturing...	1	163	46	3 004	127 686	1 951	3 862	76 570	273 223	138 131	420 286	16 228
333518	Other metalworking machinery manufacturing ..	3	49	27	3 444	185 696	1 732	3 694	81 488	493 843	364 488	864 582	9 301

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>DETROIT-WARREN-FLINT, MI COMBINED STATISTICAL AREA—Con.</b>												
	<b>Detroit-Warren-Livonia, MI Metropolitan Statistical Area—Con.</b>												
	<b>Warren-Farmington Hills-Troy, MI Metropolitan Division—Con.</b>												
333	Machinery manufacturing—Con.												
3336	Engine, turbine, and power transmission equipment manufacturing .....	-	26	12	f	D	D	D	D	D	D	D	D
33361	Engine, turbine, and power transmission equipment manufacturing .....	-	26	12	f	D	D	D	D	D	D	D	D
333612	Speed changer, industrial high-speed drive, and gear manufacturing .....	-	10	6	e	D	D	D	D	D	D	D	D
333618	Other engine equipment manufacturing .....	-	8	3	e	D	D	D	D	D	D	D	D
3339	Other general purpose machinery manufacturing .....	-	176	75	8 665	497 802	4 031	8 103	184 944	1 066 496	1 139 836	2 155 326	D
33391	Pump and compressor manufacturing .....	-	10	4	e	D	D	D	D	D	D	D	D
33392	Material handling equipment manufacturing .....	-	39	24	g	D	D	D	D	D	D	D	D
333922	Conveyor and conveying equipment manufacturing ..	-	26	16	1 222	72 500	744	1 551	38 620	201 336	124 793	328 547	D
33399	All other general purpose machinery manufacturing ....	-	127	47	6 704	385 528	3 018	6 006	135 949	767 306	956 825	1 669 750	18 225
333992	Welding and soldering equipment manufacturing ..	-	21	15	2 615	164 403	1 253	2 614	67 361	367 101	405 215	712 546	9 376
333994	Industrial process furnace and oven manufacturing ...	3	19	7	472	23 603	298	609	12 402	44 000	27 583	71 416	1 029
333999	All other miscellaneous general purpose machinery manufacturing .....	-	67	19	3 004	163 869	1 190	2 292	43 130	306 360	467 356	780 393	D
334	Computer and electronic product manufacturing .....	1	'165	48	'4 110	'179 437	'1 906	'3 810	'60 114	'358 314	'397 048	'770 070	'17 313
3342	Communications equipment manufacturing .....	1	11	6	e	D	D	D	D	D	D	D	D
33429	Other communications equipment manufacturing ....	1	6	4	e	D	D	D	D	D	D	D	D
334290	Other communications equipment manufacturing ..	1	6	4	e	D	D	D	D	D	D	D	D
3344	Semiconductor and other electronic component manufacturing .....	-	49	20	2 152	86 429	1 014	2 031	30 170	177 936	276 116	469 702	10 398
33441	Semiconductor and other electronic component manufacturing .....	-	49	20	2 152	86 429	1 014	2 031	30 170	177 936	276 116	469 702	10 398
334418	Printed circuit assembly (electronic assembly) manufacturing .....	-	8	7	g	D	D	D	D	D	D	D	D
334419	Other electronic component manufacturing .....	-	18	8	482	25 217	216	458	7 109	54 833	35 207	90 169	1 823
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	2	74	18	1 248	60 017	610	1 233	21 772	116 254	56 439	170 923	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	2	74	18	1 248	60 017	610	1 233	21 772	116 254	56 439	170 923	D
334513	Instruments and related products manufacturing for measuring, displaying, and controlling industrial process variables .....	2	21	9	463	22 386	223	450	8 269	42 446	23 878	68 156	1 791
334519	Other measuring and controlling device manufacturing .....	2	22	4	395	19 761	193	386	7 440	37 013	15 767	49 533	D
335	Electrical equipment, appliance, and component manufacturing .....	2	98	32	2 565	101 152	1 600	2 929	47 118	215 832	189 490	400 920	11 735
3353	Electrical equipment manufacturing .....	2	61	17	1 443	61 697	873	1 399	28 342	116 321	85 046	198 276	2 256
33531	Electrical equipment manufacturing .....	2	61	17	1 443	61 697	873	1 399	28 342	116 321	85 046	198 276	2 256
335314	Relay and industrial control manufacturing .....	1	37	11	964	41 992	599	875	19 046	72 961	56 184	129 111	989

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>DETROIT-WARREN-FLINT, MI COMBINED STATISTICAL AREA—Con.</b>												
	<b>Detroit-Warren-Livonia, MI Metropolitan Statistical Area—Con.</b>												
	<b>Warren-Farmington Hills-Troy, MI Metropolitan Division—Con.</b>												
335	Electrical equipment, appliance, and component manufacturing—Con.												
3359	Other electrical equipment and component manufacturing . . . . .	1	29	13	979	35 027	623	1 320	16 399	83 447	90 371	172 583	9 078
33593	Wiring device manufacturing . . .	—	8	4	e	D	D	D	D	D	D	D	D
335931	Current-carrying wiring device manufacturing . . . . .	—	5	3	e	D	D	D	D	D	D	D	D
33599	All other electrical equipment and component manufacturing . . . . .	1	17	6	e	D	D	D	D	D	D	D	D
335999	All other miscellaneous electrical equipment and component manufacturing . .	—	15	5	e	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing . . . . .	—	409	257	71 404	3 919 855	59 119	117 400	3 124 162	13 688 549	24 086 091	37 705 796	608 959
3361	Motor vehicle manufacturing . . . . .	—	13	7	j	D	D	D	D	D	D	D	D
33611	Automobile and light duty motor vehicle manufacturing . . . . .	—	12	7	j	D	D	D	D	D	D	D	D
336111	Automobile manufacturing . . .	—	10	5	i	D	D	D	D	D	D	D	D
336112	Light truck and utility vehicle manufacturing . . . . .	—	2	2	i	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing . . . . .	—	348	233	51 159	2 568 187	41 122	80 932	1 936 672	6 658 310	9 723 762	16 313 845	508 826
33631	Motor vehicle gasoline engine and engine parts manufacturing . . . . .	—	27	14	2 913	189 082	2 344	5 343	148 722	480 447	1 194 607	1 665 464	104 249
336312	Gasoline engine and engine parts manufacturing . . . . .	—	26	13	h	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical and electronic equipment manufacturing . . . . .	3	22	11	g	D	D	D	D	D	D	D	D
336322	Other motor vehicle electrical and electronic equipment manufacturing . . . . .	3	20	10	g	D	D	D	D	D	D	D	D
33633	Motor vehicle steering and suspension component (except spring) manufacturing . . . . .	—	10	6	g	D	D	D	D	D	D	D	D
336330	Motor vehicle steering and suspension component (except spring) manufacturing . . . . .	—	10	6	g	D	D	D	D	D	D	D	D
33634	Motor vehicle brake system manufacturing . . . . .	—	13	8	g	D	D	D	D	D	D	D	D
336340	Motor vehicle brake system manufacturing . . . . .	—	13	8	g	D	D	D	D	D	D	D	D
33635	Motor vehicle transmission and power train parts manufacturing . . . . .	—	29	23	10 004	586 847	8 885	19 890	511 287	1 670 776	2 940 496	4 583 935	145 075
336350	Motor vehicle transmission and power train parts manufacturing . . . . .	—	29	23	10 004	586 847	8 885	19 890	511 287	1 670 776	2 940 496	4 583 935	145 075
33636	Motor vehicle seating and interior trim manufacturing . . .	—	26	19	8 575	333 250	6 996	10 272	238 683	807 831	1 417 898	2 213 068	34 112
336360	Motor vehicle seating and interior trim manufacturing . .	—	26	19	8 575	333 250	6 996	10 272	238 683	807 831	1 417 898	2 213 068	34 112
33637	Motor vehicle metal stamping . .	1	135	96	17 238	958 338	13 744	28 207	739 025	2 149 969	2 219 727	4 355 666	128 835
336370	Motor vehicle metal stamping . . . . .	1	135	96	17 238	958 338	13 744	28 207	739 025	2 149 969	2 219 727	4 355 666	128 835
33639	Other motor vehicle parts manufacturing . . . . .	—	86	56	8 497	336 639	6 383	11 774	205 376	939 320	1 171 893	2 098 931	53 984
336391	Motor vehicle air-conditioning manufacturing . . . . .	—	3	3	338	20 809	241	497	13 099	72 184	242 968	315 636	9 522
336399	All other motor vehicle parts manufacturing . . . . .	1	83	53	8 159	315 830	6 142	11 277	192 277	867 136	928 925	1 783 295	44 462
3364	Aerospace product and parts manufacturing . . . . .	—	16	7	g	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing . . . . .	—	16	7	g	D	D	D	D	D	D	D	D
336412	Aircraft engine and engine parts manufacturing . . . . .	—	9	6	g	D	D	D	D	D	D	D	D
3369	Other transportation equipment manufacturing . . . . .	1	12	6	f	D	D	D	D	D	D	D	D
33699	Other transportation equipment manufacturing . . . . .	1	12	6	f	D	D	D	D	D	D	D	D
336999	All other transportation equipment manufacturing . .	—	5	4	e	D	D	D	D	D	D	D	D

See footnotes at end of table.



**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>DETROIT-WARREN-FLINT, MI COMBINED STATISTICAL AREA—Con.</b>												
	<b>Detroit-Warren-Livonia, MI Metropolitan Statistical Area—Con.</b>												
	<b>Warren-Farmington Hills-Troy, MI Metropolitan Division—Con.</b>												
337	Furniture and related product manufacturing .....	1	173	31	2 416	77 868	1 745	3 197	47 917	147 392	117 985	264 443	4 557
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	2	131	20	g	D	D	D	D	D	D	D	D
33711	Wood kitchen cabinet and countertop manufacturing ....	1	77	7	795	25 473	555	1 094	14 967	44 286	34 222	80 024	1 223
337110	Wood kitchen cabinet and countertop manufacturing ..	1	77	7	795	25 473	555	1 094	14 967	44 286	34 222	80 024	1 223
33712	Household and institutional furniture manufacturing .....	3	54	13	f	D	D	D	D	D	D	D	D
337122	Nonupholstered wood household furniture manufacturing .....	4	25	6	330	7 938	292	556	6 377	16 346	13 424	29 860	470
3372	Office furniture (including fixtures) manufacturing .....	—	35	7	756	27 261	508	753	15 839	52 734	32 109	81 981	1 393
33721	Office furniture (including fixtures) manufacturing .....	—	35	7	756	27 261	508	753	15 839	52 734	32 109	81 981	1 393
337215	Showcase, partition, shelving, and locker manufacturing .....	—	18	4	550	19 773	373	485	11 549	38 285	24 860	60 727	1 054
339	Miscellaneous manufacturing .....	2	332	53	4 683	176 045	3 038	5 720	92 576	349 482	198 736	549 523	16 190
3391	Medical equipment and supplies manufacturing .....	2	125	15	1 223	41 302	859	1 558	26 018	96 760	30 801	126 957	4 753
33911	Medical equipment and supplies manufacturing .....	2	125	15	1 223	41 302	859	1 558	26 018	96 760	30 801	126 957	4 753
339113	Surgical appliance and supplies manufacturing ....	—	18	6	321	12 790	194	413	5 859	41 121	14 495	55 432	2 470
339116	Dental laboratories .....	2	79	5	661	20 073	491	853	15 851	36 382	7 592	43 840	1 297
3399	Other miscellaneous manufacturing .....	2	207	38	3 460	134 743	2 179	4 162	66 558	252 722	167 935	422 566	11 437
33995	Sign manufacturing .....	2	66	13	1 349	65 054	725	1 492	28 649	102 951	62 541	169 257	1 860
339950	Sign manufacturing .....	2	66	13	1 349	65 054	725	1 492	28 649	102 951	62 541	169 257	1 860
33999	All other miscellaneous manufacturing .....	2	100	20	1 670	54 896	1 207	2 196	32 042	123 858	75 076	196 218	6 214
339991	Gasket, packing, and sealing device manufacturing .....	4	16	9	661	24 073	466	961	13 915	53 985	31 849	85 903	1 087
339999	All other miscellaneous manufacturing .....	1	78	9	830	27 225	575	963	15 243	61 397	38 487	97 166	4 954
	<b>Flint, MI Metropolitan Statistical Area</b>												
31-33	Manufacturing .....	—	347	98	23 871	1 350 015	19 399	36 700	1 077 780	2 677 385	6 573 440	9 269 929	140 474
311	Food manufacturing .....	1	19	3	462	16 972	304	566	10 677	42 612	82 792	125 341	8 786
3115	Dairy product manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
311511	Fluid milk manufacturing ....	—	1	1	e	D	D	D	D	D	D	D	D
322	Paper manufacturing .....	—	6	4	612	15 393	444	864	7 853	26 752	32 701	59 548	1 790
3222	Converted paper product manufacturing .....	—	6	4	612	15 393	444	864	7 853	26 752	32 701	59 548	1 790
32221	Paperboard container manufacturing .....	—	4	4	f	D	D	D	D	D	D	D	D
322211	Corrugated and solid fiber box manufacturing .....	—	3	3	f	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	1	50	7	493	14 483	327	565	8 136	31 910	20 438	52 001	1 939
3231	Printing and related support activities .....	1	50	7	493	14 483	327	565	8 136	31 910	20 438	52 001	1 939
32311	Printing .....	1	46	7	482	13 982	319	550	7 827	30 971	20 230	50 854	1 913
323110	Commercial lithographic printing .....	—	21	6	339	9 396	223	365	5 509	20 346	7 537	27 811	999

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E1	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>DETROIT-WARREN-FLINT, MI COMBINED STATISTICAL AREA—Con.</b>													
<b>Flint, MI Metropolitan Statistical Area—Con.</b>													
326	Plastics and rubber products manufacturing .....	1	16	9	1 548	52 401	1 218	2 514	33 673	131 085	117 223	258 296	5 599
3261	Plastics product manufacturing ..	1	16	9	1 548	52 401	1 218	2 514	33 673	131 085	117 223	258 296	5 599
32615	Urethane and other foam product (except polystyrene) manufacturing .....	—	2	2	e	D	D	D	D	D	D	D	D
326150	Urethane and other foam product (except polystyrene) manufacturing .....	—	2	2	e	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	2	12	6	g	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing .....	2	12	6	g	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing .....	1	15	6	368	15 696	291	683	11 945	38 535	29 126	67 763	1 480
332	Fabricated metal product manufacturing .....	4	72	21	1 475	50 271	1 103	2 247	32 104	111 595	81 247	192 159	3 753
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	4	29	10	573	23 528	443	929	16 160	53 860	34 101	86 870	1 797
33272	Turned product and screw, nut, and bolt manufacturing .....	2	11	6	324	13 794	259	567	9 911	34 008	25 928	58 944	1 018
3328	Coating, engraving, heat treating, and allied activities .....	2	12	6	251	7 296	187	349	4 629	16 830	8 270	25 076	595
33281	Coating, engraving, heat treating, and allied activities ..	2	12	6	251	7 296	187	349	4 629	16 830	8 270	25 076	595
3329	Other fabricated metal product manufacturing .....	8	9	1	312	8 331	253	598	5 783	18 324	14 543	32 942	609
33299	All other fabricated metal product manufacturing .....	9	6	1	276	6 598	230	546	4 803	14 516	12 994	27 510	D
332996	Fabricated pipe and pipe fitting manufacturing .....	9	2	1	e	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	1	37	16	933	47 116	650	1 348	33 253	98 369	90 981	186 887	3 801
3335	Metalworking machinery manufacturing .....	2	27	13	630	31 117	431	901	20 715	63 273	43 262	104 008	1 464
33351	Metalworking machinery manufacturing .....	2	27	13	630	31 117	431	901	20 715	63 273	43 262	104 008	1 464
3339	Other general purpose machinery manufacturing .....	—	7	3	e	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing .....	—	12	1	g	D	D	D	D	D	D	D	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	—	5	1	g	D	D	D	D	D	D	D	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	—	5	1	g	D	D	D	D	D	D	D	D
334514	Totalizing fluid meter and counting device manufacturing .....	—	1	1	g	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	—	29	16	j	D	D	D	D	D	D	D	99 273
3361	Motor vehicle manufacturing .....	—	1	1	h	D	D	D	D	D	D	D	D
33611	Automobile and light duty motor vehicle manufacturing .....	—	1	1	h	D	D	D	D	D	D	D	D
336112	Light truck and utility vehicle manufacturing .....	—	1	1	h	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	—	22	14	j	D	D	D	D	D	D	D	D
33631	Motor vehicle gasoline engine and engine parts manufacturing .....	—	8	6	4 401	268 994	4 041	6 407	242 613	942 026	1 535 864	2 474 845	D
336312	Gasoline engine and engine parts manufacturing .....	—	8	6	4 401	268 994	4 041	6 407	242 613	942 026	1 535 864	2 474 845	D
33635	Motor vehicle transmission and power train parts manufacturing .....	—	1	1	g	D	D	D	D	D	D	D	D
336350	Motor vehicle transmission and power train parts manufacturing .....	—	1	1	g	D	D	D	D	D	D	D	D
33636	Motor vehicle seating and interior trim manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
336360	Motor vehicle seating and interior trim manufacturing ..	—	1	1	f	D	D	D	D	D	D	D	D

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>DETROIT-WARREN-FLINT, MI COMBINED STATISTICAL AREA—Con.</b>												
	<b>Flint, MI Metropolitan Statistical Area—Con.</b>												
336	Transportation equipment manufacturing—Con.												
3363	Motor vehicle parts manufacturing—Con.												
33637	Motor vehicle metal stamping ..	—	6	4	h	D	D	D	D	D	D	D	D
336370	Motor vehicle metal stamping ..	—	6	4	h	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	—	14	2	304	7 466	239	459	4 935	14 007	7 072	21 120	492
339	Miscellaneous manufacturing .....	1	36	9	556	16 692	372	692	9 274	35 201	18 955	54 433	834
3391	Medical equipment and supplies manufacturing .....	—	18	4	270	7 027	207	396	4 471	16 385	4 934	21 242	253
33911	Medical equipment and supplies manufacturing .....	—	18	4	270	7 027	207	396	4 471	16 385	4 934	21 242	253
3399	Other miscellaneous manufacturing .....	1	18	5	286	9 665	165	296	4 803	18 816	14 021	33 191	581
	<b>Monroe, MI Metropolitan Statistical Area</b>												
31-33	Manufacturing .....	—	151	56	9 025	431 357	7 079	11 751	305 472	1 142 085	2 056 368	3 191 278	136 842
322	Paper manufacturing .....	5	8	6	747	23 043	566	987	13 214	55 372	54 333	109 942	1 966
3222	Converted paper product manufacturing .....	5	8	6	747	23 043	566	987	13 214	55 372	54 333	109 942	1 966
32221	Paperboard container manufacturing .....	5	8	6	747	23 043	566	987	13 214	55 372	54 333	109 942	1 966
322211	Corrugated and solid fiber box manufacturing .....	5	7	5	f	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	4	6	3	278	10 457	192	391	4 054	29 427	40 237	69 425	5 075
3261	Plastics product manufacturing ..	4	6	3	278	10 457	192	391	4 054	29 427	40 237	69 425	5 075
32619	Other plastics product manufacturing .....	4	6	3	278	10 457	192	391	4 054	29 427	40 237	69 425	5 075
327	Nonmetallic mineral product manufacturing .....	—	14	6	845	39 143	632	1 279	24 826	124 951	69 747	203 466	24 017
3272	Glass and glass product manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
32721	Glass and glass product manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
327211	Flat glass manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
3273	Cement and concrete product manufacturing .....	—	8	3	265	14 730	168	333	7 640	48 460	28 453	80 136	2 783
331	Primary metal manufacturing .....	—	2	2	e	D	D	D	D	D	D	D	D
3311	Iron and steel mills and ferroalloy manufacturing .....	—	2	2	e	D	D	D	D	D	D	D	D
33111	Iron and steel mills and ferroalloy manufacturing .....	—	2	2	e	D	D	D	D	D	D	D	D
331111	Iron and steel mills .....	—	2	2	e	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	1	42	16	1 592	66 809	1 210	2 282	43 850	166 587	166 004	328 638	8 026
3323	Architectural and structural metals manufacturing .....	—	8	3	407	18 477	265	569	11 240	51 097	103 836	154 807	1 829
33231	Plate work and fabricated structural product manufacturing .....	—	6	1	e	D	D	D	D	D	D	D	D
332313	Plate work manufacturing ..	—	2	1	e	D	D	D	D	D	D	D	D
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	5	14	3	e	D	D	D	D	D	D	D	D
33271	Machine shops .....	5	13	3	320	15 790	259	572	11 768	28 454	10 093	39 356	1 522
332710	Machine shops .....	5	13	3	320	15 790	259	572	11 768	28 454	10 093	39 356	1 522
3328	Coating, engraving, heat treating, and allied activities .....	—	8	6	674	23 154	558	878	16 148	66 764	32 830	100 392	1 559
33281	Coating, engraving, heat treating, and allied activities ..	—	8	6	674	23 154	558	878	16 148	66 764	32 830	100 392	1 559
332812	Metal coating, engraving (except jewelry and silverware), and allied services to manufacturers ..	—	4	3	452	16 833	362	478	11 312	52 399	30 024	83 243	864
333	Machinery manufacturing .....	—	21	7	470	25 538	281	621	13 594	47 784	23 668	71 734	2 252

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>DETROIT-WARREN-FLINT, MI COMBINED STATISTICAL AREA—Con.</b>													
<b>Monroe, MI Metropolitan Statistical Area—Con.</b>													
336	Transportation equipment manufacturing .....	-	12	8	h	D	D	D	D	D	D	D	66 047
3363	Motor vehicle parts manufacturing .....	-	10	8	h	D	D	D	D	D	D	D	D
33636	Motor vehicle seating and interior trim manufacturing ....	-	1	1	e	D	D	D	D	D	D	D	D
336360	Motor vehicle seating and interior trim manufacturing ..	-	1	1	e	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts manufacturing .....	-	6	6	h	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts manufacturing .....	-	6	6	h	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	-	4	2	e	D	D	D	D	D	D	D	D
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	-	4	2	e	D	D	D	D	D	D	D	D
33712	Household and institutional furniture manufacturing .....	-	2	2	e	D	D	D	D	D	D	D	D
337127	Institutional furniture manufacturing .....	-	2	2	e	D	D	D	D	D	D	D	D
<b>GRAND RAPIDS-MUSKEGON-HOLLAND, MI COMBINED STATISTICAL AREA</b>													
31-33	Manufacturing .....	1	'2 529	'991	'151 494	'6 112 273	'108 226	'215 959	'3 664 463	'16 452 347	'14 892 803	'31 266 761	'915 602
311	Food manufacturing .....	1	133	60	10 992	382 934	8 505	17 316	265 074	2 107 332	1 993 318	4 125 003	114 506
3112	Grain and oilseed milling .....	7	5	4	f	D	D	D	D	D	D	D	D
31123	Breakfast cereal manufacturing .....	8	3	3	875	35 979	741	1 598	26 872	249 516	56 228	305 423	D
311230	Breakfast cereal manufacturing .....	8	3	3	875	35 979	741	1 598	26 872	249 516	56 228	305 423	D
3113	Sugar and confectionery product manufacturing .....	-	7	2	f	D	D	D	D	D	D	D	D
31134	Nonchocolate confectionery manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
311340	Nonchocolate confectionery manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
3114	Fruit and vegetable preserving and specialty food manufacturing .....	-	11	7	g	D	D	D	D	D	D	D	D
31141	Frozen food manufacturing ....	-	6	3	f	D	D	D	D	D	D	D	D
311412	Frozen specialty food manufacturing .....	-	3	1	e	D	D	D	D	D	D	D	D
31142	Fruit and vegetable canning, pickling, and drying .....	1	5	4	f	D	D	D	D	D	D	D	D
311422	Specialty canning .....	-	1	1	e	D	D	D	D	D	D	D	D
3115	Dairy product manufacturing .....	-	11	9	g	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) manufacturing .....	-	9	8	g	D	D	D	D	D	D	D	D
311511	Fluid milk manufacturing ....	-	3	3	f	D	D	D	D	D	D	D	D
311513	Cheese manufacturing .....	-	3	2	e	D	D	D	D	D	D	D	D
311514	Dry, condensed, and evaporated dairy product manufacturing .....	-	3	3	f	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	-	19	10	h	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing .....	-	19	10	h	D	D	D	D	D	D	D	D
311611	Animal (except poultry) slaughtering .....	-	9	2	g	D	D	D	D	D	D	D	D
311612	Meat processed from carcasses .....	-	5	4	e	D	D	D	D	D	D	D	D
311615	Poultry processing .....	-	4	3	g	D	D	D	D	D	D	D	D
3118	Bakeries and tortilla manufacturing .....	2	47	12	g	D	D	D	D	D	D	D	D
31181	Bread and bakery product manufacturing .....	4	42	11	g	D	D	D	D	D	D	D	D
311811	Retail bakeries .....	3	28	3	e	D	D	D	D	D	D	D	D
311812	Commercial bakeries .....	4	11	6	g	D	D	D	D	D	D	D	D
31182	Cookie, cracker, and pasta manufacturing .....	-	4	1	e	D	D	D	D	D	D	D	D
311821	Cookie and cracker manufacturing .....	-	3	1	e	D	D	D	D	D	D	D	D

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>GRAND RAPIDS-MUSKEGON-HOLLAND, MI COMBINED STATISTICAL AREA—Con.</b>													
311	Food manufacturing—Con.												
3119	Other food manufacturing . . . . .	1	23	12	g	D	D	D	D	D	D	D	D
31194	Seasoning and dressing manufacturing . . . . .	—	4	3	f	D	D	D	D	D	D	D	D
311941	Mayonnaise, dressing, and other prepared sauce manufacturing . . . . .	—	4	3	f	D	D	D	D	D	D	D	D
31199	All other food manufacturing . . . . .	3	12	6	e	D	D	D	D	D	D	D	D
311999	All other miscellaneous food manufacturing . . . . .	3	8	4	e	D	D	D	D	D	D	D	D
312	Beverage and tobacco product manufacturing . . . . .	—	10	4	g	D	D	D	D	D	D	D	D
3121	Beverage manufacturing . . . . .	—	10	4	g	D	D	D	D	D	D	D	D
31211	Soft drink and ice manufacturing . . . . .	—	6	4	g	D	D	D	D	D	D	D	D
312111	Soft drink manufacturing . . . . .	—	4	4	g	D	D	D	D	D	D	D	D
313	Textile mills . . . . .	6	11	3	e	D	D	D	D	D	D	D	D
314	Textile product mills . . . . .	1	29	6	e	D	D	D	D	D	D	D	D
316	Leather and allied product manufacturing . . . . .	—	6	4	f	D	D	D	D	D	D	D	D
3161	Leather and hide tanning and finishing . . . . .	—	2	2	e	D	D	D	D	D	D	D	D
31611	Leather and hide tanning and finishing . . . . .	—	2	2	e	D	D	D	D	D	D	D	D
316110	Leather and hide tanning and finishing . . . . .	—	2	2	e	D	D	D	D	D	D	D	D
321	Wood product manufacturing . . . . .	2	96	38	g	D	D	D	D	D	D	D	D
3211	Sawmills and wood preservation . . . . .	4	20	5	e	D	D	D	D	D	D	D	D
32111	Sawmills and wood preservation . . . . .	4	20	5	e	D	D	D	D	D	D	D	D
3212	Veneer, plywood, and engineered wood product manufacturing . . . . .	3	15	10	f	D	D	D	D	D	D	D	D
32121	Veneer, plywood, and engineered wood product manufacturing . . . . .	3	15	10	f	D	D	D	D	D	D	D	D
321214	Truss manufacturing . . . . .	—	5	5	e	D	D	D	D	D	D	D	D
3219	Other wood product manufacturing . . . . .	1	61	23	g	D	D	D	D	D	D	D	D
32191	Millwork . . . . .	1	31	11	f	D	D	D	D	D	D	D	D
321911	Wood window and door manufacturing . . . . .	—	14	3	f	D	D	D	D	D	D	D	D
321918	Other millwork (including flooring) . . . . .	—	13	5	e	D	D	D	D	D	D	D	D
32192	Wood container and pallet manufacturing . . . . .	6	15	6	e	D	D	D	D	D	D	D	D
321920	Wood container and pallet manufacturing . . . . .	6	15	6	e	D	D	D	D	D	D	D	D
32199	All other wood product manufacturing . . . . .	2	15	6	e	D	D	D	D	D	D	D	D
322	Paper manufacturing . . . . .	1	38	28	h	D	D	D	D	D	D	D	D
3221	Pulp, paper, and paperboard mills . . . . .	1	5	4	g	D	D	D	D	D	D	D	D
32212	Paper mills . . . . .	1	3	2	f	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills . . . . .	1	3	2	f	D	D	D	D	D	D	D	D
32213	Paperboard mills . . . . .	—	2	2	e	D	D	D	D	D	D	D	D
322130	Paperboard mills . . . . .	—	2	2	e	D	D	D	D	D	D	D	D
3222	Converted paper product manufacturing . . . . .	—	33	24	g	D	D	D	D	D	D	D	D
32221	Paperboard container manufacturing . . . . .	1	21	17	g	D	D	D	D	D	D	D	D
322211	Corrugated and solid fiber box manufacturing . . . . .	1	16	12	f	D	D	D	D	D	D	D	D
322212	Folding paperboard box manufacturing . . . . .	—	4	4	e	D	D	D	D	D	D	D	D
32229	Other converted paper product manufacturing . . . . .	—	3	3	e	D	D	D	D	D	D	D	D
322299	All other converted paper product manufacturing . . . . .	—	3	3	e	D	D	D	D	D	D	D	D

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>GRAND RAPIDS-MUSKEGON-HOLLAND, MI COMBINED STATISTICAL AREA—Con.</b>													
323	Printing and related support activities .....	-	208	48	3 997	141 690	2 662	4 888	75 585	307 646	194 155	502 205	21 297
3231	Printing and related support activities .....	-	208	48	3 997	141 690	2 662	4 888	75 585	307 646	194 155	502 205	21 297
32311	Printing .....	-	184	44	h	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing .....	-	80	23	g	D	D	D	D	D	D	D	D
323112	Commercial flexographic printing .....	-	8	3	e	D	D	D	D	D	D	D	D
323113	Commercial screen printing ..	1	35	6	e	D	D	D	D	D	D	D	D
323119	Other commercial printing ...	4	14	2	e	D	D	D	D	D	D	D	D
32312	Support activities for printing...	3	24	4	e	D	D	D	D	D	D	D	D
325	Chemical manufacturing .....	1	65	30	i	D	D	D	D	D	D	D	84 806
3251	Basic chemical manufacturing ...	-	6	5	f	D	D	D	D	D	D	D	D
32513	Synthetic dye and pigment manufacturing .....	-	3	3	f	D	D	D	D	D	D	D	D
325132	Synthetic organic dye and pigment manufacturing ....	-	3	3	f	D	D	D	D	D	D	D	D
3254	Pharmaceutical and medicine manufacturing .....	-	8	5	h	D	D	D	D	D	D	D	D
32541	Pharmaceutical and medicine manufacturing .....	-	8	5	h	D	D	D	D	D	D	D	D
325411	Medicinal and botanical manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation manufacturing .....	-	7	4	h	D	D	D	D	D	D	D	D
3255	Paint, coating, and adhesive manufacturing .....	6	21	9	f	D	D	D	D	D	D	D	D
32551	Paint and coating manufacturing .....	7	14	7	f	D	D	D	D	D	D	D	D
325510	Paint and coating manufacturing .....	7	14	7	f	D	D	D	D	D	D	D	D
3256	Soap, cleaning compound, and toilet preparation manufacturing ..	-	13	3	h	D	D	D	D	D	D	D	D
32562	Toilet preparation manufacturing .....	-	2	2	h	D	D	D	D	D	D	D	D
325620	Toilet preparation manufacturing .....	-	2	2	h	D	D	D	D	D	D	D	D
3259	Other chemical product and preparation manufacturing .....	7	11	7	f	D	D	D	D	D	D	D	D
32599	All other chemical product and preparation manufacturing ...	7	9	6	f	D	D	D	D	D	D	D	D
325991	Custom compounding of purchased resins .....	7	5	4	e	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	-	'163	'103	j	D	D	D	D	D	D	D	'72 120
3261	Plastics product manufacturing ..	-	'148	'92	j	D	D	D	D	D	D	D	D
32611	Plastics packaging materials and unlaminated film and sheet manufacturing .....	'3	'13	'8	g	D	D	D	D	D	D	D	D
326112	Plastics packaging film and sheet (including laminated) manufacturing .....	'7	'2	'2	e	D	D	D	D	D	D	D	D
326113	Unlaminated plastics film and sheet (except packaging) manufacturing .....	2	10	5	e	D	D	D	D	D	D	D	D
32614	Polystyrene foam product manufacturing .....	-	5	3	e	D	D	D	D	D	D	D	D
326140	Polystyrene foam product manufacturing .....	-	5	3	e	D	D	D	D	D	D	D	D
32615	Urethane and other foam product (except polystyrene) manufacturing .....	5	9	6	405	11 326	327	689	8 463	24 530	33 733	58 607	1 539
326150	Urethane and other foam product (except polystyrene) manufacturing .....	5	9	6	405	11 326	327	689	8 463	24 530	33 733	58 607	1 539
32619	Other plastics product manufacturing .....	-	109	68	'11 616	'384 408	'8 892	'17 972	'226 896	'985 572	'851 314	'1 838 881	D
326191	Plastics plumbing fixture manufacturing .....	-	5	5	e	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing .....	-	104	63	j	D	D	D	D	D	D	D	D
3262	Rubber product manufacturing ...	-	15	11	g	D	D	D	D	D	D	D	D
32622	Rubber and plastics hoses and belting manufacturing .....	-	5	3	f	D	D	D	D	D	D	D	D
326220	Rubber and plastics hoses and belting manufacturing ..	-	5	3	f	D	D	D	D	D	D	D	D

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>GRAND RAPIDS-MUSKEGON-HOLLAND, MI COMBINED STATISTICAL AREA—Con.</b>													
326	Plastics and rubber products manufacturing—Con.												
3262	Rubber product manufacturing—Con.												
32629	Other rubber product manufacturing .....	—	5	5	687	27 642	391	656	9 923	61 513	60 029	120 289	D
326291	Rubber product manufacturing for mechanical use .....	—	2	2	e	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing .....	—	81	34	h	D	D	D	D	D	D	D	D
3272	Glass and glass product manufacturing .....	—	17	12	h	D	D	D	D	D	D	D	D
32721	Glass and glass product manufacturing .....	—	17	12	h	D	D	D	D	D	D	D	D
327215	Glass product manufacturing made of purchased glass ..	—	15	12	h	D	D	D	D	D	D	D	D
3273	Cement and concrete product manufacturing .....	1	46	17	g	D	D	D	D	D	D	D	D
32732	Ready-mix concrete manufacturing .....	—	31	12	f	D	D	D	D	D	D	D	D
327320	Ready-mix concrete manufacturing .....	—	31	12	f	D	D	D	D	D	D	D	D
32739	Other concrete product manufacturing .....	8	6	2	e	D	D	D	D	D	D	D	D
327390	Other concrete product manufacturing .....	8	6	2	e	D	D	D	D	D	D	D	D
331	Primary metal manufacturing .....	—	80	54	7 326	272 559	5 690	12 452	187 168	746 683	620 968	1 363 093	41 862
3311	Iron and steel mills and ferroalloy manufacturing .....	—	6	3	e	D	D	D	D	D	D	D	D
33111	Iron and steel mills and ferroalloy manufacturing .....	—	6	3	e	D	D	D	D	D	D	D	D
331111	Iron and steel mills .....	—	6	3	e	D	D	D	D	D	D	D	D
3313	Alumina and aluminum production and processing .....	—	6	4	e	D	D	D	D	D	D	D	D
33131	Alumina and aluminum production and processing ..	—	6	4	e	D	D	D	D	D	D	D	D
331316	Aluminum extruded product manufacturing .....	—	3	3	e	D	D	D	D	D	D	D	D
3314	Nonferrous metal (except aluminum) production and processing .....	1	6	4	e	D	D	D	D	D	D	D	D
3315	Foundries .....	—	58	41	i	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries .....	—	19	15	h	D	D	D	D	D	D	D	D
331511	Iron foundries .....	—	11	8	1 161	51 561	964	2 091	39 071	122 115	58 711	180 287	5 750 8 076
331512	Steel investment foundries ..	—	4	4	g	D	D	D	D	D	D	D	D
331513	Steel foundries (except investment) .....	5	4	3	e	D	D	D	D	D	D	D	D
33152	Nonferrous metal foundries .....	1	39	26	h	D	D	D	D	D	D	D	D
331521	Aluminum die-casting foundries .....	1	12	10	g	D	D	D	D	D	D	D	D
331522	Nonferrous (except aluminum) die-casting foundries .....	—	10	8	f	D	D	D	D	D	D	D	D
331524	Aluminum foundries (except die-casting) .....	2	12	5	e	D	D	D	D	D	D	D	D
331528	Other nonferrous foundries (except die-casting) .....	—	3	2	e	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	1	580	177	15 482	559 190	11 777	23 288	362 831	1 252 992	836 012	2 091 128	71 383
3321	Forging and stamping .....	2	28	13	g	D	D	D	D	D	D	D	D
33211	Forging and stamping .....	2	28	13	g	D	D	D	D	D	D	D	D
332116	Metal stamping .....	3	19	9	f	D	D	D	D	D	D	D	D
3323	Architectural and structural metals manufacturing .....	1	78	21	g	D	D	D	D	D	D	D	D
33231	Plate work and fabricated structural product manufacturing .....	3	32	8	f	D	D	D	D	D	D	D	D
332312	Fabricated structural metal manufacturing .....	2	21	4	e	D	D	D	D	D	D	D	D
33232	Ornamental and architectural metal products manufacturing .....	—	46	13	g	D	D	D	D	D	D	D	D
332322	Sheet metal work manufacturing .....	—	36	10	f	D	D	D	D	D	D	D	D
332323	Ornamental and architectural metal work manufacturing ..	—	9	3	f	D	D	D	D	D	D	D	D

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)					
<b>GRAND RAPIDS-MUSKEGON-HOLLAND, MI COMBINED STATISTICAL AREA—Con.</b>														
332	Fabricated metal product manufacturing—Con.													
3325	Hardware manufacturing .....	—	15	11	g	D	D	D	D	D	D	D	D	
33251	Hardware manufacturing .....	—	15	11	g	D	D	D	D	D	D	D	D	
332510	Hardware manufacturing .....	—	15	11	g	D	D	D	D	D	D	D	D	
3326	Spring and wire product manufacturing .....	1	24	11		754	24 075	559	1 124	15 775	52 392	31 143	83 549	D
33261	Spring and wire product manufacturing .....	1	24	11		754	24 075	559	1 124	15 775	52 392	31 143	83 549	D
332612	Spring (light gauge) manufacturing .....	—	11	7	f	D	D	D	D	D	D	D	D	
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	1	241	46	h	D	D	D	D	D	D	D	D	
33271	Machine shops .....	2	201	25	2 205	79 291	1 722	3 253	53 863	172 607	76 887	249 380	7 687	
332710	Machine shops .....	2	201	25	2 205	79 291	1 722	3 253	53 863	172 607	76 887	249 380	7 687	
33272	Turned product and screw, nut, and bolt manufacturing .....	1	40	21	g	D	D	D	D	D	D	D	D	
332721	Precision turned product manufacturing .....	—	35	18	g	D	D	D	D	D	D	D	D	
3328	Coating, engraving, heat treating, and allied activities .....	—	104	46	3 411	111 433	2 634	5 301	73 874	233 670	122 958	355 846	D	
33281	Coating, engraving, heat treating, and allied activities ..	—	104	46	3 411	111 433	2 634	5 301	73 874	233 670	122 958	355 846	D	
332811	Metal heat treating .....	1	12	8	e	D	D	D	D	D	D	D	D	
332812	Metal coating, engraving (except jewelry and silverware), and allied services to manufacturers ..	—	42	20	g	D	D	D	D	D	D	D	D	
332813	Electroplating, plating, polishing, anodizing, and coloring .....	—	50	18	g	D	D	D	D	D	D	D	D	
3329	Other fabricated metal product manufacturing .....	1	70	24	2 022	82 506	1 454	2 851	49 620	184 983	92 907	281 773	8 699	
33291	Metal valve manufacturing ....	—	6	3	f	D	D	D	D	D	D	D	D	
332912	Fluid power valve and hose fitting manufacturing .....	—	3	3	f	D	D	D	D	D	D	D	D	
33299	All other fabricated metal product manufacturing .....	1	64	21	g	D	D	D	D	D	D	D	D	
332997	Industrial pattern manufacturing .....	1	18	4	e	D	D	D	D	D	D	D	D	
332999	All other miscellaneous fabricated metal product manufacturing .....	1	38	12	f	D	D	D	D	D	D	D	D	
333	Machinery manufacturing .....	1	'436	'169	'20 083	'943 840	'11 828	'23 574	'478 466	'1 881 261	'1 520 992	'3 352 456	'89 598	
3331	Agriculture, construction, and mining machinery manufacturing .....	6	14	7	e	D	D	D	D	D	D	D	D	
3332	Industrial machinery manufacturing .....	1	59	13	g	D	D	D	D	D	D	D	D	
33322	Plastics and rubber industry machinery manufacturing ....	—	14	4	e	D	D	D	D	D	D	D	D	
333220	Plastics and rubber industry machinery manufacturing ..	—	14	4	e	D	D	D	D	D	D	D	D	
33329	Other industrial machinery manufacturing .....	1	40	7	f	D	D	D	D	D	D	D	D	
333298	All other industrial machinery manufacturing .....	1	24	4	e	D	D	D	D	D	D	D	D	
3333	Commercial and service industry machinery manufacturing .....	6	23	8	f	D	D	D	D	D	D	D	D	
33331	Commercial and service industry machinery manufacturing .....	6	23	8	f	D	D	D	D	D	D	D	D	
333319	Other commercial and service industry machinery manufacturing .....	6	20	8	f	D	D	D	D	D	D	D	D	
3335	Metalworking machinery manufacturing .....	—	'243	'91	i	D	D	D	D	D	D	D	D	
33351	Metalworking machinery manufacturing .....	—	'243	'91	i	D	D	D	D	D	D	D	D	
333511	Industrial mold manufacturing .....	—	'57	'21	g	D	D	D	D	D	D	D	D	
333513	Machine tool (metal forming types) manufacturing .....	—	4	1	e	D	D	D	D	D	D	D	D	
333514	Special die and tool, die set, jig, and fixture manufacturing .....	—	135	57	4 199	203 486	3 259	6 851	147 133	406 504	204 608	575 943	19 596	
333515	Cutting tool and machine tool accessory manufacturing...	1	30	6	f	D	D	D	D	D	D	D	D	

See footnotes at end of table.



**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E1	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>GRAND RAPIDS-MUSKEGON-HOLLAND, MI COMBINED STATISTICAL AREA—Con.</b>													
333	Machinery manufacturing—Con.												
3336	Engine, turbine, and power transmission equipment manufacturing .....	—	6	4	g	D	D	D	D	D	D	D	D
33361	Engine, turbine, and power transmission equipment manufacturing .....	—	6	4	g	D	D	D	D	D	D	D	D
333618	Other engine equipment manufacturing .....	—	4	3	g	D	D	D	D	D	D	D	D
3339	Other general purpose machinery manufacturing .....	1	82	43	7 996	364 379	3 498	6 430	126 010	733 860	762 032	1 500 359	D
33391	Pump and compressor manufacturing .....	—	5	4	e	D	D	D	D	D	D	D	D
333911	Pump and pumping equipment manufacturing ..	—	2	2	e	D	D	D	D	D	D	D	D
33392	Material handling equipment manufacturing .....	—	30	15	i	D	D	D	D	D	D	D	D
333922	Conveyor and conveying equipment manufacturing ..	—	18	9	h	D	D	D	D	D	D	D	D
333923	Overhead traveling crane, hoist, and monorail system manufacturing .....	—	3	1	e	D	D	D	D	D	D	D	D
333924	Industrial truck, tractor, trailer, and stacker machinery manufacturing ..	—	8	5	e	D	D	D	D	D	D	D	D
33399	All other general purpose machinery manufacturing ....	3	47	24	g	D	D	D	D	D	D	D	D
333996	Fluid power pump and motor manufacturing .....	4	5	4	e	D	D	D	D	D	D	D	D
333999	All other miscellaneous general purpose machinery manufacturing .....	6	28	12	g	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing .....	—	64	27	i	D	D	D	D	D	D	D	D
3343	Audio and video equipment manufacturing .....	—	3	2	f	D	D	D	D	D	D	D	D
33431	Audio and video equipment manufacturing .....	—	3	2	f	D	D	D	D	D	D	D	D
334310	Audio and video equipment manufacturing .....	—	3	2	f	D	D	D	D	D	D	D	D
3344	Semiconductor and other electronic component manufacturing .....	—	19	10	f	D	D	D	D	D	D	D	D
33441	Semiconductor and other electronic component manufacturing .....	—	19	10	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	—	33	12	h	D	D	D	D	D	D	D	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	—	33	12	h	D	D	D	D	D	D	D	D
334511	Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing .....	—	5	4	g	D	D	D	D	D	D	D	D
334512	Automatic environmental control manufacturing for residential, commercial, and appliance use .....	—	3	1	e	D	D	D	D	D	D	D	D
334516	Analytical laboratory instrument manufacturing ..	—	3	1	e	D	D	D	D	D	D	D	D
334518	Watch, clock, and part manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing .....	—	32	12	g	D	D	D	D	D	D	D	D
3352	Household appliance manufacturing .....	—	4	2	g	D	D	D	D	D	D	D	D
33522	Major appliance manufacturing ..	—	1	1	g	D	D	D	D	D	D	D	D
335228	Other major household appliance manufacturing ...	—	1	1	g	D	D	D	D	D	D	D	D
3353	Electrical equipment manufacturing .....	—	10	2	e	D	D	D	D	D	D	D	D
33531	Electrical equipment manufacturing .....	—	10	2	e	D	D	D	D	D	D	D	D

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)					
<b>GRAND RAPIDS-MUSKEGON-HOLLAND, MI COMBINED STATISTICAL AREA—Con.</b>														
335	Electrical equipment, appliance, and component manufacturing—Con.													
3359	Other electrical equipment and component manufacturing . . . . .	—	12	6	f	D	D	D	D	D	D	D	D	
33592	Communication and energy wire and cable manufacturing . . . . .	—	2	1	e	D	D	D	D	D	D	D	D	
335929	Other communication and energy wire manufacturing . . . . .	—	2	1	e	D	D	D	D	D	D	D	D	
33599	All other electrical equipment and component manufacturing . . . . .	—	6	4	e	D	D	D	D	D	D	D	D	
335999	All other miscellaneous electrical equipment and component manufacturing . . . . .	—	6	4	e	D	D	D	D	D	D	D	D	
336	Transportation equipment manufacturing . . . . .	—	149	88		24 787	1 052 674	19 315	37 495	733 858	2 652 154	2 996 667	5 631 355	147 863
3362	Motor vehicle body and trailer manufacturing . . . . .	—	11	2	e	D	D	D	D	D	D	D	D	
33621	Motor vehicle body manufacturing . . . . .	—	11	2	e	D	D	D	D	D	D	D	D	
336211	Motor vehicle body manufacturing . . . . .	—	3	2	e	D	D	D	D	D	D	D	D	
3363	Motor vehicle parts manufacturing . . . . .	—	111	74	j	D	D	D	D	D	D	D	D	
33631	Motor vehicle gasoline engine and engine parts manufacturing . . . . .	—	21	14	h	D	D	D	D	D	D	D	D	
336311	Carburetor, piston, piston ring, and valve manufacturing . . . . .	—	3	1	e	D	D	D	D	D	D	D	D	
336312	Gasoline engine and engine parts manufacturing . . . . .	—	18	13	h	D	D	D	D	D	D	D	D	
33632	Motor vehicle electrical and electronic equipment manufacturing . . . . .	—	9	5	e	D	D	D	D	D	D	D	D	
336321	Vehicular lighting equipment manufacturing . . . . .	—	4	4	e	D	D	D	D	D	D	D	D	
33633	Motor vehicle steering and suspension component (except spring) manufacturing . . . . .	—	4	3	f	D	D	D	D	D	D	D	D	
336330	Motor vehicle steering and suspension component (except spring) manufacturing . . . . .	—	4	3	f	D	D	D	D	D	D	D	D	
33635	Motor vehicle transmission and power train parts manufacturing . . . . .	—	4	2	f	D	D	D	D	D	D	D	D	
336350	Motor vehicle transmission and power train parts manufacturing . . . . .	—	4	2	f	D	D	D	D	D	D	D	D	
33636	Motor vehicle seating and interior trim manufacturing . . . . .	—	7	6	h	D	D	D	D	D	D	D	D	
336360	Motor vehicle seating and interior trim manufacturing . . . . .	—	7	6	h	D	D	D	D	D	D	D	D	
33637	Motor vehicle metal stamping . . . . .	1	40	28	i	D	D	D	D	D	D	D	D	
336370	Motor vehicle metal stamping . . . . .	1	40	28	i	D	D	D	D	D	D	D	D	
33639	Other motor vehicle parts manufacturing . . . . .	1	25	15	h	D	D	D	D	D	D	D	22 913	
336399	All other motor vehicle parts manufacturing . . . . .	1	24	14	h	D	D	D	D	D	D	D	D	
3364	Aerospace product and parts manufacturing . . . . .	—	8	5	g	D	D	D	D	D	D	D	D	
33641	Aerospace product and parts manufacturing . . . . .	—	8	5	g	D	D	D	D	D	D	D	D	
336412	Aircraft engine and engine parts manufacturing . . . . .	—	3	3	f	D	D	D	D	D	D	D	D	
336413	Other aircraft parts and auxiliary equipment manufacturing . . . . .	—	5	2	e	D	D	D	D	D	D	D	D	
3366	Ship and boat building . . . . .	7	7	5	f	D	D	D	D	D	D	D	D	
33661	Ship and boat building . . . . .	7	7	5	f	D	D	D	D	D	D	D	D	
336612	Boat building . . . . .	7	7	5	f	D	D	D	D	D	D	D	D	
3369	Other transportation equipment manufacturing . . . . .	—	8	1	f	D	D	D	D	D	D	D	D	
33699	Other transportation equipment manufacturing . . . . .	—	8	1	f	D	D	D	D	D	D	D	D	
336999	All other transportation equipment manufacturing . . . . .	—	6	1	f	D	D	D	D	D	D	D	D	
337	Furniture and related product manufacturing . . . . .	2	153	65	j	D	D	D	D	D	D	D	D	

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>GRAND RAPIDS-MUSKEGON-HOLLAND, MI COMBINED STATISTICAL AREA—Con.</b>													
337	Furniture and related product manufacturing—Con.												
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	—	68	19	g	D	D	D	D	D	D	D	D
33712	Household and institutional furniture manufacturing .....	—	45	17	g	D	D	D	D	D	D	D	D
337122	Nonupholstered wood household furniture manufacturing .....	1	25	10	f	D	D	D	D	D	D	D	D
337127	Institutional furniture manufacturing .....	—	12	6	f	D	D	D	D	D	D	D	D
3372	Office furniture (including fixtures) manufacturing .....	2	76	43	j	D	D	D	D	D	D	D	D
33721	Office furniture (including fixtures) manufacturing .....	2	76	43	j	D	D	D	D	D	D	D	D
337211	Wood office furniture manufacturing .....	—	14	8	g	D	D	D	D	D	D	D	D
337212	Custom architectural woodwork and millwork manufacturing .....	9	5	3	e	D	D	D	D	D	D	D	D
337214	Office furniture (except wood) manufacturing .....	3	23	16	j	D	D	D	D	D	D	D	D
337215	Showcase, partition, shelving, and locker manufacturing .....	—	34	16	f	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing .....	—	177	36	h	D	D	D	D	D	D	D	D
3391	Medical equipment and supplies manufacturing .....	—	61	18	g	D	D	D	D	D	D	D	D
33911	Medical equipment and supplies manufacturing .....	—	61	18	g	D	D	D	D	D	D	D	D
339111	Laboratory apparatus and furniture manufacturing .....	—	11	8	f	D	D	D	D	D	D	D	D
339112	Surgical and medical instrument manufacturing .....	—	7	3	403	16 419	234	497	6 895	88 819	20 911	109 687	3 039
339113	Surgical appliance and supplies manufacturing .....	—	5	3	e	D	D	D	D	D	D	D	D
3399	Other miscellaneous manufacturing .....	—	116	18	g	D	D	D	D	D	D	D	D
33995	Sign manufacturing .....	1	36	7	e	D	D	D	D	D	D	D	D
339950	Sign manufacturing .....	1	36	7	e	D	D	D	D	D	D	D	D
33999	All other miscellaneous manufacturing .....	—	50	9	f	D	D	D	D	D	D	D	D
339999	All other miscellaneous manufacturing .....	1	41	6	e	D	D	D	D	D	D	D	D
<b>Allegan, MI Micropolitan Statistical Area</b>													
31-33	Manufacturing .....	—	208	90	16 614	609 067	11 936	24 747	384 517	2 101 598	2 221 353	4 322 906	92 857
311	Food manufacturing .....	—	18	9	2 118	62 367	1 755	3 599	48 054	412 732	514 984	928 245	7 652
3113	Sugar and confectionery product manufacturing .....	—	2	1	e	D	D	D	D	D	D	D	D
31134	Nonchocolate confectionery manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
311340	Nonchocolate confectionery manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	—	3	2	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing .....	—	3	2	g	D	D	D	D	D	D	D	D
311611	Animal (except poultry) slaughtering .....	—	1	1	g	D	D	D	D	D	D	D	D
312	Beverage and tobacco product manufacturing .....	—	3	1	f	D	D	D	D	D	D	D	D
3121	Beverage manufacturing .....	—	3	1	f	D	D	D	D	D	D	D	D
31211	Soft drink and ice manufacturing .....	—	2	1	f	D	D	D	D	D	D	D	D
312111	Soft drink manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
322	Paper manufacturing .....	3	5	3	511	29 468	362	774	19 138	103 772	77 142	180 492	8 889
3221	Pulp, paper, and paperboard mills .....	3	3	3	e	D	D	D	D	D	D	D	D
32213	Paperboard mills .....	—	2	2	e	D	D	D	D	D	D	D	D
322130	Paperboard mills .....	—	2	2	e	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	—	11	3	255	8 183	175	358	4 929	16 130	6 529	22 375	3 389
3231	Printing and related support activities .....	—	11	3	255	8 183	175	358	4 929	16 130	6 529	22 375	3 389

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>GRAND RAPIDS-MUSKEGON-HOLLAND, MI COMBINED STATISTICAL AREA—Con.</b>													
<b>Allegan, MI Micropolitan Statistical Area—Con.</b>													
325	Chemical manufacturing .....	—	5	4	h	D	D	D	D	D	D	D	19 502
3254	Pharmaceutical and medicine manufacturing .....	—	1	1	h	D	D	D	D	D	D	D	D
32541	Pharmaceutical and medicine manufacturing .....	—	1	1	h	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation manufacturing .....	—	1	1	h	D	D	D	D	D	D	D	D
3255	Paint, coating, and adhesive manufacturing .....	—	3	2	315	11 270	201	282	4 574	11 891	15 492	27 408	D
3259	Other chemical product and preparation manufacturing .....	9	1	1	e	D	D	D	D	D	D	D	D
32599	All other chemical product and preparation manufacturing .....	9	1	1	e	D	D	D	D	D	D	D	D
325991	Custom compounding of purchased resins .....	9	1	1	e	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	—	'13	'11	'689	'26 234	'461	'1 029	'12 506	'84 223	'62 483	'142 863	'3 206
3261	Plastics product manufacturing ..	—	'12	'10	f	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	—	'8	'7	'444	'16 439	'298	'651	'7 909	'27 554	'27 344	'54 832	'1 034
327	Nonmetallic mineral product manufacturing .....	—	11	4	564	21 314	414	728	12 364	96 453	113 771	209 961	D
3272	Glass and glass product manufacturing .....	—	4	4	493	18 427	359	609	10 092	89 911	107 259	196 806	2 246
32721	Glass and glass product manufacturing .....	—	4	4	493	18 427	359	609	10 092	89 911	107 259	196 806	2 246
327215	Glass product manufacturing made of purchased glass ..	—	4	4	493	18 427	359	609	10 092	89 911	107 259	196 806	2 246
332	Fabricated metal product manufacturing .....	—	53	18	1 816	63 774	1 406	2 717	42 417	156 703	68 657	228 154	3 909
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	1	21	4	e	D	D	D	D	D	D	D	D
33271	Machine shops .....	1	19	3	252	8 725	196	375	6 062	20 079	9 483	29 777	562
332710	Machine shops .....	1	19	3	252	8 725	196	375	6 062	20 079	9 483	29 777	562
3328	Coating, engraving, heat treating, and allied activities .....	—	6	2	282	8 171	235	501	5 265	14 036	7 064	21 086	D
33281	Coating, engraving, heat treating, and allied activities ..	—	6	2	282	8 171	235	501	5 265	14 036	7 064	21 086	D
3329	Other fabricated metal product manufacturing .....	—	8	4	695	28 124	524	1 002	18 910	65 806	23 909	92 782	1 731
33291	Metal valve manufacturing ....	—	2	2	f	D	D	D	D	D	D	D	D
332912	Fluid power valve and hose fitting manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	3	'39	'11	'724	'29 475	'488	'952	'16 691	'65 152	'45 001	'107 674	'3 325
336	Transportation equipment manufacturing .....	1	14	9	3 561	122 031	2 703	5 511	83 546	304 007	580 593	881 912	12 982
3363	Motor vehicle parts manufacturing .....	—	9	7	h	D	D	D	D	D	D	D	D
33636	Motor vehicle seating and interior trim manufacturing ....	—	3	3	g	D	D	D	D	D	D	D	D
336360	Motor vehicle seating and interior trim manufacturing ..	—	3	3	g	D	D	D	D	D	D	D	D
33637	Motor vehicle metal stamping ..	—	3	3	f	D	D	D	D	D	D	D	3 751
336370	Motor vehicle metal stamping .....	—	3	3	f	D	D	D	D	D	D	D	3 751
3366	Ship and boat building .....	9	2	2	f	D	D	D	D	D	D	D	D
33661	Ship and boat building .....	9	2	2	f	D	D	D	D	D	D	D	D
336612	Boat building .....	9	2	2	f	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	—	11	6	g	D	D	D	D	D	D	D	D
3372	Office furniture (including fixtures) manufacturing .....	—	7	5	g	D	D	D	D	D	D	D	D
33721	Office furniture (including fixtures) manufacturing .....	—	7	5	g	D	D	D	D	D	D	D	D
337214	Office furniture (except wood) manufacturing .....	—	3	3	g	D	D	D	D	D	D	D	D

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>GRAND RAPIDS-MUSKEGON-HOLLAND, MI COMBINED STATISTICAL AREA—Con.</b>												
	<b>Grand Rapids-Wyoming, MI Metropolitan Statistical Area</b>												
31-33	Manufacturing .....	1	'1 373	'561	'85 015	'3 588 857	'59 490	'116 771	'2 120 908	'8 123 478	'7 336 456	'15 437 747	'501 414
311	Food manufacturing .....	3	71	32	4 728	176 984	3 440	7 164	116 682	804 263	609 454	1 412 015	48 564
3112	Grain and oilseed milling .....	7	5	4	f	D	D	D	D	D	D	D	D
31123	Breakfast cereal manufacturing .....	8	3	3	875	35 979	741	1 598	26 872	249 516	56 228	305 423	D
311230	Breakfast cereal manufacturing .....	8	3	3	875	35 979	741	1 598	26 872	249 516	56 228	305 423	D
3113	Sugar and confectionery product manufacturing .....	—	4	1	e	D	D	D	D	D	D	D	D
31134	Nonchocolate confectionery manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
311340	Nonchocolate confectionery manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
3114	Fruit and vegetable preserving and specialty food manufacturing .....	2	5	3	251	8 644	196	434	5 922	85 946	55 378	141 359	3 616
3115	Dairy product manufacturing .....	—	4	2	e	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) manufacturing .....	—	3	2	e	D	D	D	D	D	D	D	D
311511	Fluid milk manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	—	9	4	646	19 067	533	1 204	14 363	41 074	85 685	126 318	D
31161	Animal slaughtering and processing .....	—	9	4	646	19 067	533	1 204	14 363	41 074	85 685	126 318	D
311612	Meat processed from carcasses .....	—	3	3	e	D	D	D	D	D	D	D	D
311615	Poultry processing .....	—	2	1	e	D	D	D	D	D	D	D	D
3118	Bakeries and tortilla manufacturing .....	2	28	9	1 612	59 924	965	1 898	36 772	232 934	128 007	360 749	8 901
31181	Bread and bakery product manufacturing .....	6	24	8	g	D	D	D	D	D	D	D	D
311812	Commercial bakeries .....	5	7	4	842	30 212	342	677	13 232	87 625	42 739	130 449	1 991
31182	Cookie, cracker, and pasta manufacturing .....	—	3	1	e	D	D	D	D	D	D	D	D
311821	Cookie and cracker manufacturing .....	—	2	1	e	D	D	D	D	D	D	D	D
3119	Other food manufacturing .....	3	15	8	573	18 692	461	878	12 953	113 528	114 377	227 888	6 877
31199	All other food manufacturing .....	4	6	4	e	D	D	D	D	D	D	D	2 612
311999	All other miscellaneous food manufacturing .....	4	4	3	327	11 350	267	556	7 970	73 760	88 971	162 727	D
312	Beverage and tobacco product manufacturing .....	2	5	2	e	D	D	D	D	D	D	D	D
3121	Beverage manufacturing .....	2	5	2	e	D	D	D	D	D	D	D	D
31211	Soft drink and ice manufacturing .....	2	3	2	e	D	D	D	D	D	D	D	D
312111	Soft drink manufacturing .....	2	2	2	e	D	D	D	D	D	D	D	D
313	Textile mills .....	6	7	3	269	9 092	206	416	5 782	16 110	20 064	35 557	D
316	Leather and allied product manufacturing .....	—	3	3	e	D	D	D	D	D	D	D	D
321	Wood product manufacturing .....	2	52	19	1 524	45 525	1 164	2 247	29 874	115 892	127 474	241 479	6 993
3212	Veneer, plywood, and engineered wood product manufacturing .....	1	7	5	367	12 628	288	608	8 701	34 224	27 053	61 407	1 611
32121	Veneer, plywood, and engineered wood product manufacturing .....	1	7	5	367	12 628	288	608	8 701	34 224	27 053	61 407	1 611
3219	Other wood product manufacturing .....	1	31	11	981	26 998	723	1 321	16 500	71 519	59 760	130 981	4 031
32191	Millwork .....	—	21	9	803	22 525	577	1 042	13 492	63 606	51 078	114 361	3 661
321911	Wood window and door manufacturing .....	—	10	3	531	15 226	371	744	8 626	49 959	35 042	84 638	3 200
322	Paper manufacturing .....	—	25	18	1 293	52 782	967	1 982	30 521	141 093	195 120	332 671	8 392
3222	Converted paper product manufacturing .....	—	24	18	g	D	D	D	D	D	D	D	D
32221	Paperboard container manufacturing .....	—	15	13	1 031	42 443	779	1 558	24 686	85 950	113 151	198 314	6 470
322211	Corrugated and solid fiber box manufacturing .....	—	12	10	751	30 668	542	1 070	15 729	61 910	88 744	150 297	6 037
322212	Folding paperboard box manufacturing .....	—	3	3	280	11 775	237	488	8 957	24 040	24 407	48 017	433

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>GRAND RAPIDS-MUSKEGON-HOLLAND, MI COMBINED STATISTICAL AREA—Con.</b>													
<b>Grand Rapids-Wyoming, MI Metropolitan Statistical Area—Con.</b>													
323	Printing and related support activities .....	—	145	36	3 162	114 267	2 123	3 827	60 882	257 445	165 842	423 247	15 866
3231	Printing and related support activities .....	—	145	36	3 162	114 267	2 123	3 827	60 882	257 445	165 842	423 247	15 866
32311	Printing .....	—	125	32	2 850	105 936	1 897	3 433	55 984	235 421	155 092	390 152	12 942
323110	Commercial lithographic printing .....	—	54	16	1 517	50 200	1 071	1 865	28 396	120 056	73 609	193 671	6 797
323112	Commercial flexographic printing .....	—	6	2	305	18 203	146	301	7 641	29 280	32 907	62 504	1 871
323113	Commercial screen printing ..	—	24	5	270	8 344	191	331	4 943	17 997	12 702	30 344	1 476
32312	Support activities for printing...	3	20	4	312	8 331	226	394	4 898	22 024	10 750	33 095	2 924
325	Chemical manufacturing .....	1	34	13	4 854	229 362	3 625	6 948	165 590	190 675	683 252	900 680	41 617
3255	Paint, coating, and adhesive manufacturing .....	7	8	4	268	11 439	135	281	5 054	37 076	45 098	83 214	D
3256	Soap, cleaning compound, and toilet preparation manufacturing ..	—	10	2	h	D	D	D	D	D	D	D	D
32562	Toilet preparation manufacturing .....	—	2	2	h	D	D	D	D	D	D	D	D
325620	Toilet preparation manufacturing .....	—	2	2	h	D	D	D	D	D	D	D	D
3259	Other chemical product and preparation manufacturing .....	6	10	6	294	13 819	152	311	5 094	43 060	81 010	124 343	9 421
32599	All other chemical product and preparation manufacturing ...	6	8	5	e	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	—	112	71	10 013	331 504	7 556	14 998	193 439	795 201	724 257	1 528 264	45 515
3261	Plastics product manufacturing ..	—	100	61	8 548	278 622	6 637	13 289	168 457	672 295	619 544	1 301 032	41 029
32611	Plastics packaging materials and unlaminated film and sheet manufacturing .....	'4	'7	'5	'779	'23 215	'656	'1 380	'17 032	'56 803	'60 734	'119 079	'4 131
326112	Plastics packaging film and sheet (including laminated) manufacturing .....	'9	'1	'1	e	D	D	D	D	D	D	D	D
326113	Unlaminated plastics film and sheet (except packaging) manufacturing .....	3	5	3	e	D	D	D	D	D	D	D	D
32614	Polystyrene foam product manufacturing .....	—	4	3	330	11 158	259	524	6 651	29 465	31 581	63 540	D
326140	Polystyrene foam product manufacturing .....	—	4	3	330	11 158	259	524	6 651	29 465	31 581	63 540	D
32615	Urethane and other foam product (except polystyrene) manufacturing .....	5	9	6	405	11 326	327	689	8 463	24 530	33 733	58 607	1 539
326150	Urethane and other foam product (except polystyrene) manufacturing .....	5	9	6	405	11 326	327	689	8 463	24 530	33 733	58 607	1 539
32619	Other plastics product manufacturing .....	—	'74	'44	'6 889	'228 464	'5 280	'10 480	'133 472	'550 341	'485 415	'1 040 564	'31 509
326199	All other plastics product manufacturing .....	—	'72	'42	i	D	D	D	D	D	D	D	D
3262	Rubber product manufacturing ...	—	12	10	1 465	52 882	919	1 709	24 982	122 906	104 713	227 232	4 486
32622	Rubber and plastics hoses and belting manufacturing .....	—	4	3	708	23 091	488	971	14 064	58 155	36 814	95 901	1 577
326220	Rubber and plastics hoses and belting manufacturing ..	—	4	3	708	23 091	488	971	14 064	58 155	36 814	95 901	1 577
32629	Other rubber product manufacturing .....	—	5	5	687	27 642	391	656	9 923	61 513	60 029	120 289	D
326291	Rubber product manufacturing for mechanical use .....	—	2	2	e	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing .....	—	41	16	811	30 833	637	1 271	21 560	111 601	73 548	187 384	7 890
3273	Cement and concrete product manufacturing .....	—	25	11	531	20 756	407	835	14 212	67 914	46 783	115 385	6 765
32732	Ready-mix concrete manufacturing .....	—	17	8	342	13 323	267	544	9 858	38 684	29 777	68 719	5 894
327320	Ready-mix concrete manufacturing .....	—	17	8	342	13 323	267	544	9 858	38 684	29 777	68 719	5 894

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>GRAND RAPIDS-MUSKEGON-HOLLAND, MI COMBINED STATISTICAL AREA—Con.</b>													
<b>Grand Rapids-Wyoming, MI Metropolitan Statistical Area—Con.</b>													
331	Primary metal manufacturing .....	—	32	22	3 011	113 149	2 270	4 856	74 157	267 435	285 073	546 142	18 682
3315	Foundries .....	—	22	17	2 475	90 491	1 882	4 037	60 463	213 724	178 042	393 367	14 727
33151	Ferrous metal foundries .....	—	7	4	454	17 850	385	780	14 073	48 878	21 980	70 578	3 279
331511	Iron foundries .....	—	7	4	454	17 850	385	780	14 073	48 878	21 980	70 578	3 279
33152	Nonferrous metal foundries ....	—	15	13	2 021	72 641	1 497	3 257	46 390	164 846	156 062	322 789	11 448
331521	Aluminum die-casting foundries .....	1	6	6	1 150	41 244	840	1 914	27 055	92 555	97 787	190 918	D
331522	Nonferrous (except aluminum) die-casting foundries .....	—	6	6	677	23 948	523	1 077	15 324	55 282	48 113	104 039	1 667
332	Fabricated metal product manufacturing .....	1	277	92	7 895	280 459	6 142	12 149	184 105	641 275	446 509	1 087 136	40 061
3321	Forging and stamping .....	3	12	6	535	19 622	405	829	12 454	38 028	35 692	76 220	3 412
33211	Forging and stamping .....	3	12	6	535	19 622	405	829	12 454	38 028	35 692	76 220	3 412
332116	Metal stamping .....	4	9	5	424	16 329	316	619	10 422	23 576	27 351	53 379	D
3323	Architectural and structural metals manufacturing .....	2	38	10	608	24 070	434	870	13 606	60 782	72 561	131 808	2 829
33232	Ornamental and architectural metal products manufacturing .....	—	23	6	376	14 728	278	544	8 635	38 286	44 563	81 497	2 161
332322	Sheet metal work manufacturing .....	—	17	4	272	10 662	204	404	6 546	29 101	39 113	66 802	1 932
3325	Hardware manufacturing .....	—	9	7	1 826	67 023	1 512	2 819	45 836	147 777	152 062	299 273	9 861
33251	Hardware manufacturing .....	—	9	7	1 826	67 023	1 512	2 819	45 836	147 777	152 062	299 273	9 861
332510	Hardware manufacturing ....	—	9	7	1 826	67 023	1 512	2 819	45 836	147 777	152 062	299 273	9 861
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	1	110	23	1 884	70 965	1 429	2 914	48 131	179 497	86 880	266 282	13 150
33271	Machine shops .....	2	89	10	1 036	36 881	827	1 587	25 598	82 231	31 633	114 037	4 079
332710	Machine shops .....	2	89	10	1 036	36 881	827	1 587	25 598	82 231	31 633	114 037	4 079
33272	Turned product and screw, nut, and bolt manufacturing .....	1	21	13	848	34 084	602	1 327	22 533	97 266	55 247	152 245	9 071
332721	Precision turned product manufacturing .....	—	17	10	627	25 253	445	973	16 872	74 066	42 190	116 108	D
3328	Coating, engraving, heat treating, and allied activities .....	—	61	30	2 167	67 538	1 745	3 468	46 252	135 459	56 113	191 246	6 920
33281	Coating, engraving, heat treating, and allied activities ..	—	61	30	2 167	67 538	1 745	3 468	46 252	135 459	56 113	191 246	6 920
332811	Metal heat treating .....	3	7	5	311	10 938	248	505	7 167	22 088	4 687	26 775	1 365
332812	Metal coating, engraving (except jewelry and silverware), and allied services to manufacturers ..	—	29	13	894	27 328	727	1 423	19 492	55 555	27 247	82 969	1 947
332813	Electroplating, plating, polishing, anodizing, and coloring .....	—	25	12	962	29 272	770	1 540	19 593	57 816	24 179	81 502	3 608
3329	Other fabricated metal product manufacturing .....	1	25	11	604	20 670	424	859	11 600	59 859	30 790	90 057	3 207
33299	All other fabricated metal product manufacturing .....	1	22	10	549	18 201	395	792	10 550	55 258	27 765	82 410	2 602
332999	All other miscellaneous fabricated metal product manufacturing .....	1	18	8	488	15 878	341	683	8 700	51 018	26 504	76 815	2 303
333	Machinery manufacturing .....	—	244	118	15 080	724 588	8 566	17 218	361 986	1 435 492	1 139 469	2 538 979	69 347
3332	Industrial machinery manufacturing .....	1	36	7	673	27 617	359	670	11 039	66 322	43 958	108 127	10 380
33329	Other industrial machinery manufacturing .....	2	26	4	418	17 764	222	419	7 135	31 793	26 402	58 099	9 220
333298	All other industrial machinery manufacturing .....	1	16	3	299	13 093	133	261	4 345	24 305	21 367	45 556	D
3333	Commercial and service industry machinery manufacturing .....	3	11	3	314	9 331	210	387	4 288	21 373	17 495	38 109	1 329
33331	Commercial and service industry machinery manufacturing .....	3	11	3	314	9 331	210	387	4 288	21 373	17 495	38 109	1 329
333319	Other commercial and service industry machinery manufacturing .....	3	9	3	e	D	D	D	D	D	D	D	D

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>GRAND RAPIDS-MUSKEGON-HOLLAND, MI COMBINED STATISTICAL AREA—Con.</b>													
<b>Grand Rapids-Wyoming, MI Metropolitan Statistical Area—Con.</b>													
333	Machinery manufacturing—Con.												
3335	Metalworking machinery manufacturing .....	—	139	68	5 667	281 250	4 355	9 078	201 815	570 703	266 232	791 907	25 851
33351	Metalworking machinery manufacturing .....	—	139	68	5 667	281 250	4 355	9 078	201 815	570 703	266 232	791 907	25 851
333511	Industrial mold manufacturing .....	—	32	17	1 570	86 259	1 203	2 523	62 719	168 730	73 892	240 747	9 061
333514	Special die and tool, die set, jig, and fixture manufacturing .....	—	83	44	3 305	165 102	2 552	5 413	118 587	341 174	169 646	477 426	14 441
333515	Cutting tool and machine tool accessory manufacturing...	—	18	6	709	26 833	540	1 020	18 534	55 400	19 515	65 835	2 231
3336	Engine, turbine, and power transmission equipment manufacturing .....	—	3	3	g	D	D	D	D	D	D	D	D
33361	Engine, turbine, and power transmission equipment manufacturing .....	—	3	3	g	D	D	D	D	D	D	D	D
333618	Other engine equipment manufacturing .....	—	2	2	g	D	D	D	D	D	D	D	D
3339	Other general purpose machinery manufacturing .....	—	44	30	6 490	301 882	2 532	4 579	96 608	600 893	642 245	1 253 893	22 902
33391	Pump and compressor manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
333911	Pump and pumping equipment manufacturing ..	—	1	1	e	D	D	D	D	D	D	D	D
33392	Material handling equipment manufacturing .....	—	15	10	h	D	D	D	D	D	D	D	D
333922	Conveyor and conveying equipment manufacturing ..	—	12	8	h	D	D	D	D	D	D	D	D
33399	All other general purpose machinery manufacturing ....	2	28	19	1 660	72 974	1 055	2 058	37 211	142 822	144 386	289 604	D
333996	Fluid power pump and motor manufacturing .....	1	4	3	e	D	D	D	D	D	D	D	D
333999	All other miscellaneous general purpose machinery manufacturing .....	5	14	9	812	36 759	487	991	17 499	61 503	65 189	127 850	2 621
334	Computer and electronic product manufacturing .....	—	36	13	3 129	167 265	1 932	4 043	94 191	383 407	155 392	531 363	34 560
3343	Audio and video equipment manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
33431	Audio and video equipment manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
334310	Audio and video equipment manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	—	19	7	2 304	140 587	1 415	3 211	82 126	297 041	87 022	380 043	33 569
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	—	19	7	2 304	140 587	1 415	3 211	82 126	297 041	87 022	380 043	33 569
334511	Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing .....	—	4	3	g	D	D	D	D	D	D	D	D
334516	Analytical laboratory instrument manufacturing ..	—	3	1	e	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing .....	—	20	6	1 935	69 163	1 528	2 670	48 775	227 286	185 055	415 357	5 074
3352	Household appliance manufacturing .....	—	4	2	g	D	D	D	D	D	D	D	D
33522	Major appliance manufacturing.	—	1	1	g	D	D	D	D	D	D	D	D
335228	Other major household appliance manufacturing ...	—	1	1	g	D	D	D	D	D	D	D	D
3359	Other electrical equipment and component manufacturing .....	—	7	3	f	D	D	D	D	D	D	D	2 053
33592	Communication and energy wire and cable manufacturing ..	—	2	1	e	D	D	D	D	D	D	D	D
335929	Other communication and energy wire manufacturing ..	—	2	1	e	D	D	D	D	D	D	D	D

See footnotes at end of table.



**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>GRAND RAPIDS-MUSKEGON-HOLLAND, MI COMBINED STATISTICAL AREA—Con.</b>													
<b>Grand Rapids-Wyoming, MI Metropolitan Statistical Area—Con.</b>													
336	Transportation equipment manufacturing .....	-	72	43	14 012	628 710	10 979	20 777	440 749	1 593 617	1 639 662	3 224 409	83 347
3363	Motor vehicle parts manufacturing .....	-	54	37	j	D	D	D	D	D	D	D	80 612
33631	Motor vehicle gasoline engine and engine parts manufacturing .....	-	7	6	2 297	104 530	1 863	3 769	77 356	336 228	232 101	563 996	D
336311	Carburetor, piston, piston ring, and valve manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
336312	Gasoline engine and engine parts manufacturing .....	-	6	5	g	D	D	D	D	D	D	D	20 660
33633	Motor vehicle steering and suspension component (except spring) manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
336330	Motor vehicle steering and suspension component (except spring) manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
33635	Motor vehicle transmission and power train parts manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
336350	Motor vehicle transmission and power train parts manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
33636	Motor vehicle seating and interior trim manufacturing .....	1	2	2	f	D	D	D	D	D	D	D	D
336360	Motor vehicle seating and interior trim manufacturing .....	1	2	2	f	D	D	D	D	D	D	D	D
33637	Motor vehicle metal stamping .....	-	22	13	4 760	247 098	3 956	7 620	197 518	609 181	640 827	1 243 863	34 673
336370	Motor vehicle metal stamping .....	-	22	13	4 760	247 098	3 956	7 620	197 518	609 181	640 827	1 243 863	34 673
33639	Other motor vehicle parts manufacturing .....	1	17	12	4 033	167 753	3 085	5 160	100 258	394 039	461 541	855 208	20 330
336399	All other motor vehicle parts manufacturing .....	1	16	11	h	D	D	D	D	D	D	D	D
3364	Aerospace product and parts manufacturing .....	-	3	3	e	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing .....	-	3	3	e	D	D	D	D	D	D	D	D
336413	Other aircraft parts and auxiliary equipment manufacturing .....	-	2	2	e	D	D	D	D	D	D	D	D
3369	Other transportation equipment manufacturing .....	-	5	1	f	D	D	D	D	D	D	D	D
33699	Other transportation equipment manufacturing .....	-	5	1	f	D	D	D	D	D	D	D	D
336999	All other transportation equipment manufacturing ..	-	3	1	f	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	1	72	26	10 266	503 817	6 189	12 072	225 836	790 410	608 916	1 407 204	61 909
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	-	33	9	1 144	42 871	830	1 770	24 757	81 040	62 369	144 356	8 221
33712	Household and institutional furniture manufacturing .....	-	21	9	1 057	40 242	763	1 633	22 990	75 619	59 255	135 820	7 857
337122	Nonupholstered wood household furniture manufacturing .....	1	14	7	f	D	D	D	D	D	D	D	D
337127	Institutional furniture manufacturing .....	-	4	1	e	D	D	D	D	D	D	D	D
3372	Office furniture (including fixtures) manufacturing .....	1	33	14	9 019	458 075	5 278	10 154	199 169	701 713	541 048	1 249 712	53 406
33721	Office furniture (including fixtures) manufacturing .....	1	33	14	9 019	458 075	5 278	10 154	199 169	701 713	541 048	1 249 712	53 406
337211	Wood office furniture manufacturing .....	-	7	3	1 496	42 975	1 237	1 937	29 839	76 093	48 890	126 685	D
337214	Office furniture (except wood) manufacturing .....	1	8	3	i	D	D	D	D	D	D	D	D
337215	Showcase, partition, shelving, and locker manufacturing .....	2	15	6	e	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing .....	-	100	21	1 990	76 958	1 403	2 755	45 593	246 351	106 084	353 625	8 819

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E1	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>GRAND RAPIDS-MUSKEGON-HOLLAND, MI COMBINED STATISTICAL AREA—Con.</b>													
<b>Grand Rapids-Wyoming, MI Metropolitan Statistical Area—Con.</b>													
339	Miscellaneous manufacturing—Con.												
3391	Medical equipment and supplies manufacturing .....	—	37	11	1 207	47 516	821	1 636	26 836	192 979	49 609	243 440	6 328
33911	Medical equipment and supplies manufacturing .....	—	37	11	1 207	47 516	821	1 636	26 836	192 979	49 609	243 440	6 328
339112	Surgical and medical instrument manufacturing ..	—	7	3	403	16 419	234	497	6 895	88 819	20 911	109 687	3 039
339113	Surgical appliance and supplies manufacturing .....	—	4	3	367	16 328	290	551	11 632	70 108	7 719	78 835	2 071
3399	Other miscellaneous manufacturing .....	1	63	10	783	29 442	582	1 119	18 757	53 372	56 475	110 185	2 491
33999	All other miscellaneous manufacturing .....	—	27	6	497	18 615	397	774	13 523	33 463	39 123	73 384	1 820
339999	All other miscellaneous manufacturing .....	1	23	5	e	D	D	D	D	D	D	D	D
<b>Holland-Grand Haven, MI Metropolitan Statistical Area</b>													
31-33	Manufacturing .....	1	'616	216	'35 521	'1 339 157	'26 234	'52 140	'790 874	'4 672 629	'4 049 810	'8 653 850	'224 845
311	Food manufacturing .....	—	33	15	3 806	129 955	3 069	6 086	92 865	847 836	847 361	1 721 774	57 494
3114	Fruit and vegetable preserving and specialty food manufacturing .....	—	4	3	f	D	D	D	D	D	D	D	D
31141	Frozen food manufacturing ....	—	3	2	e	D	D	D	D	D	D	D	D
311412	Frozen specialty food manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
31142	Fruit and vegetable canning, pickling, and drying .....	—	1	1	e	D	D	D	D	D	D	D	D
311422	Specialty canning .....	—	1	1	e	D	D	D	D	D	D	D	D
3115	Dairy product manufacturing .....	—	4	4	915	41 444	547	1 192	25 414	599 472	317 117	920 958	8 993
31151	Dairy product (except frozen) manufacturing .....	—	4	4	915	41 444	547	1 192	25 414	599 472	317 117	920 958	8 993
311511	Fluid milk manufacturing ....	—	2	2	e	D	D	D	D	D	D	D	D
311514	Dry, condensed, and evaporated dairy product manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	—	5	3	1 256	39 097	1 152	2 302	32 456	38 478	353 208	415 990	27 338
31161	Animal slaughtering and processing .....	—	5	3	1 256	39 097	1 152	2 302	32 456	38 478	353 208	415 990	27 338
311615	Poultry processing .....	—	2	2	g	D	D	D	D	D	D	D	D
3119	Other food manufacturing .....	—	6	3	e	D	D	D	D	D	D	D	D
31194	Seasoning and dressing manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
311941	Mayonnaise, dressing, and other prepared sauce manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
312	Beverage and tobacco product manufacturing .....	1	2	1	e	D	D	D	D	D	D	D	D
3121	Beverage manufacturing .....	1	2	1	e	D	D	D	D	D	D	D	D
31211	Soft drink and ice manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
312111	Soft drink manufacturing ....	—	1	1	e	D	D	D	D	D	D	D	D
316	Leather and allied product manufacturing .....	—	3	1	e	D	D	D	D	D	D	D	D
3161	Leather and hide tanning and finishing.....	—	1	1	e	D	D	D	D	D	D	D	D
31611	Leather and hide tanning and finishing.....	—	1	1	e	D	D	D	D	D	D	D	D
316110	Leather and hide tanning and finishing.....	—	1	1	e	D	D	D	D	D	D	D	D
321	Wood product manufacturing .....	1	'28	12	'621	'17 972	'463	'871	'10 874	'39 150	'48 414	'86 897	'1 955
3219	Other wood product manufacturing .....	'1	'22	10	'457	'12 402	'354	'655	'8 234	'24 791	'29 598	'53 879	'1 437

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>GRAND RAPIDS-MUSKEGON-HOLLAND, MI COMBINED STATISTICAL AREA—Con.</b>												
	<b>Holland-Grand Haven, MI Metropolitan Statistical Area—Con.</b>												
322	Paper manufacturing .....	1	7	6	562	19 825	362	734	11 284	44 195	44 277	88 296	4 664
3222	Converted paper product manufacturing .....	1	7	6	562	19 825	362	734	11 284	44 195	44 277	88 296	4 664
32221	Paperboard container manufacturing .....	2	4	4	e	D	D	D	D	D	D	D	D
32229	Other converted paper product manufacturing .....	—	2	2	e	D	D	D	D	D	D	D	D
322299	All other converted paper product manufacturing .....	—	2	2	e	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	3	35	4	255	7 218	168	306	3 769	11 382	8 974	20 458	745
3231	Printing and related support activities .....	3	35	4	255	7 218	168	306	3 769	11 382	8 974	20 458	745
32311	Printing .....	3	33	4	e	D	D	D	D	D	D	D	D
325	Chemical manufacturing .....	2	16	8	1 060	54 567	655	1 361	25 582	228 501	196 110	390 185	12 356
3254	Pharmaceutical and medicine manufacturing .....	—	5	3	705	37 954	418	832	15 729	156 822	120 475	241 015	9 536
32541	Pharmaceutical and medicine manufacturing .....	—	5	3	705	37 954	418	832	15 729	156 822	120 475	241 015	9 536
325411	Medicinal and botanical manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation manufacturing .....	2	4	2	e	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	—	27	16	3 795	130 441	2 851	5 790	77 172	383 841	306 555	688 148	18 643
3261	Plastics product manufacturing ..	—	26	16	h	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	—	18	12	3 565	122 417	2 683	5 404	72 120	367 589	290 086	655 540	12 748
326199	All other plastics product manufacturing .....	—	17	11	h	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing .....	—	18	10	3 344	134 835	2 432	5 121	72 951	416 268	370 407	783 969	25 899
3272	Glass and glass product manufacturing .....	—	6	5	h	D	D	D	D	D	D	D	D
32721	Glass and glass product manufacturing .....	—	6	5	h	D	D	D	D	D	D	D	D
327215	Glass product manufacturing made of purchased glass ..	—	6	5	h	D	D	D	D	D	D	D	D
3273	Cement and concrete product manufacturing .....	5	9	5	e	D	D	D	D	D	D	D	D
331	Primary metal manufacturing .....	1	11	4	412	15 511	296	578	9 339	37 981	37 387	75 527	1 268
332	Fabricated metal product manufacturing .....	1	152	38	3 494	123 903	2 641	5 182	81 007	250 085	180 760	430 636	17 946
3321	Forging and stamping.....	2	11	5	393	10 655	326	635	7 275	21 125	24 867	45 746	2 487
33211	Forging and stamping.....	2	11	5	393	10 655	326	635	7 275	21 125	24 867	45 746	2 487
3323	Architectural and structural metals manufacturing .....	1	22	6	1 227	46 234	912	1 811	30 038	92 205	72 525	163 061	5 936
33232	Ornamental and architectural metal products manufacturing .....	—	14	4	1 066	40 665	801	1 636	26 896	80 451	60 784	139 576	5 575
332322	Sheet metal work manufacturing .....	—	11	3	e	D	D	D	D	D	D	D	D
332323	Ornamental and architectural metal work manufacturing ..	—	3	1	f	D	D	D	D	D	D	D	D
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	1	68	10	776	28 993	615	1 217	20 306	58 382	32 295	90 452	2 848
33271	Machine shops .....	2	54	4	356	12 332	281	515	8 668	25 589	10 779	36 208	714
332710	Machine shops .....	2	54	4	356	12 332	281	515	8 668	25 589	10 779	36 208	714
33272	Turned product and screw, nut, and bolt manufacturing .....	1	14	6	420	16 661	334	702	11 638	32 793	21 516	54 244	2 134
332721	Precision turned product manufacturing .....	1	13	6	e	D	D	D	D	D	D	D	D
3328	Coating, engraving, heat treating, and allied activities .....	2	23	8	409	12 830	309	577	8 549	28 028	11 022	39 081	3 066
33281	Coating, engraving, heat treating, and allied activities ..	2	23	8	409	12 830	309	577	8 549	28 028	11 022	39 081	3 066
3329	Other fabricated metal product manufacturing .....	1	20	4	377	13 744	259	492	8 322	24 652	24 701	49 740	2 553
33299	All other fabricated metal product manufacturing .....	1	19	4	e	D	D	D	D	D	D	D	D

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>GRAND RAPIDS-MUSKEGON-HOLLAND, MI COMBINED STATISTICAL AREA—Con.</b>												
	<b>Holland-Grand Haven, MI Metropolitan Statistical Area—Con.</b>												
333	Machinery manufacturing .....	4	93	23	2 475	103 941	1 665	3 040	59 590	211 526	172 147	368 675	9 972
3332	Industrial machinery manufacturing .....	1	15	3	279	8 974	192	414	5 326	18 146	14 506	31 902	798
3333	Commercial and service industry machinery manufacturing .....	9	4	2	e	D	D	D	D	D	D	D	748
33331	Commercial and service industry machinery manufacturing .....	9	4	2	e	D	D	D	D	D	D	D	748
333319	Other commercial and service industry machinery manufacturing .....	9	4	2	e	D	D	D	D	D	D	D	748
3335	Metalworking machinery manufacturing .....	1	53	12	1 154	51 858	783	1 562	31 542	99 409	57 850	150 587	6 949
33351	Metalworking machinery manufacturing .....	1	53	12	1 154	51 858	783	1 562	31 542	99 409	57 850	150 587	6 949
333514	Special die and tool, die set, jig, and fixture manufacturing .....	1	25	6	532	22 930	429	889	16 960	38 136	22 122	60 455	3 805
3339	Other general purpose machinery manufacturing .....	4	18	6	640	26 861	422	740	13 610	55 762	41 172	93 138	1 400
33392	Material handling equipment manufacturing .....	6	7	3	e	D	D	D	D	D	D	D	D
33399	All other general purpose machinery manufacturing .....	4	10	2	330	15 290	211	391	8 356	32 429	22 358	51 535	756
333999	All other miscellaneous general purpose machinery manufacturing .....	4	7	2	298	13 318	197	362	7 938	26 729	18 398	42 441	690
334	Computer and electronic product manufacturing .....	—	19	11	1 704	63 958	1 273	2 504	39 066	212 805	127 651	332 968	3 111
3344	Semiconductor and other electronic component manufacturing .....	—	5	4	266	8 926	180	348	4 326	16 323	16 902	32 892	D
33441	Semiconductor and other electronic component manufacturing .....	—	5	4	266	8 926	180	348	4 326	16 323	16 902	32 892	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	—	10	4	1 058	39 570	822	1 540	26 498	116 308	92 222	200 761	1 669
33451	Navigational, measuring, electromedical, and control instruments manufacturing .....	—	10	4	1 058	39 570	822	1 540	26 498	116 308	92 222	200 761	1 669
334512	Automatic environmental control manufacturing for residential, commercial, and appliance use .....	—	1	1	e	D	D	D	D	D	D	D	D
334518	Watch, clock, and part manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing .....	—	7	4	333	9 600	248	429	5 362	32 414	30 042	62 231	D
336	Transportation equipment manufacturing .....	2	44	28	5 268	218 314	4 114	8 255	148 043	589 598	549 476	1 140 275	23 976
3362	Motor vehicle body and trailer manufacturing .....	—	3	2	e	D	D	D	D	D	D	D	D
33621	Motor vehicle body and trailer manufacturing .....	—	3	2	e	D	D	D	D	D	D	D	D
336211	Motor vehicle body manufacturing .....	—	2	2	e	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	2	34	24	h	D	D	D	D	D	D	D	22 434
33631	Motor vehicle gasoline engine and engine parts manufacturing .....	—	6	4	1 203	52 394	1 052	2 091	43 356	229 078	94 537	323 584	3 282
336312	Gasoline engine and engine parts manufacturing .....	—	6	4	1 203	52 394	1 052	2 091	43 356	229 078	94 537	323 584	3 282
33632	Motor vehicle electrical and electronic equipment manufacturing .....	—	4	3	253	9 155	224	466	7 417	23 804	26 861	50 513	D
33636	Motor vehicle seating and interior trim manufacturing .....	—	2	1	f	D	D	D	D	D	D	D	D
336360	Motor vehicle seating and interior trim manufacturing .....	—	2	1	f	D	D	D	D	D	D	D	D
33637	Motor vehicle metal stamping .....	5	14	11	1 872	78 682	1 544	3 210	56 522	159 642	143 938	303 420	9 570
336370	Motor vehicle metal stamping .....	5	14	11	1 872	78 682	1 544	3 210	56 522	159 642	143 938	303 420	9 570

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
		E <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)					Wages (\$1,000)
	<b>GRAND RAPIDS-MUSKEGON-HOLLAND, MI COMBINED STATISTICAL AREA—Con.</b>												
	<b>Holland-Grand Haven, MI Metropolitan Statistical Area—Con.</b>												
336	Transportation equipment manufacturing—Con.												
3363	Motor vehicle parts manufacturing—Con.												
33639	Other motor vehicle parts manufacturing .....	3	6	3	571	26 462	358	774	12 410	51 214	62 700	112 721	2 583
336399	All other motor vehicle parts manufacturing .....	3	6	3	571	26 462	358	774	12 410	51 214	62 700	112 721	2 583
3364	Aerospace product and parts manufacturing .....	—	3	1	e	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing .....	—	3	1	e	D	D	D	D	D	D	D	D
336412	Aircraft engine and engine parts manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	4	57	28	6 974	256 202	5 270	10 398	130 134	1 210 740	751 235	1 929 104	39 899
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	—	26	9	981	31 274	733	1 429	18 624	96 244	76 306	174 998	D
33712	Household and institutional furniture manufacturing .....	—	16	7	825	26 866	604	1 158	15 413	87 958	65 125	155 623	D
337122	Nonupholstered wood household furniture manufacturing .....	—	7	2	335	9 593	294	574	7 302	12 124	10 098	24 824	D
337127	Institutional furniture manufacturing .....	—	6	5	469	16 712	292	549	7 634	74 339	53 426	127 703	D
3372	Office furniture (including fixtures) manufacturing .....	4	28	19	5 983	224 684	4 529	8 959	111 380	1 114 018	674 561	1 753 261	27 252
33721	Office furniture (including fixtures) manufacturing .....	4	28	19	5 983	224 684	4 529	8 959	111 380	1 114 018	674 561	1 753 261	27 252
337214	Office furniture (except wood) manufacturing .....	4	9	8	i	D	D	D	D	D	D	D	D
337215	Showcase, partition, shelving, and locker manufacturing .....	—	12	6	e	D	D	D	D	D	D	D	839
339	Miscellaneous manufacturing .....	—	46	5	690	24 778	354	718	10 399	49 673	27 530	81 994	954
3391	Medical equipment and supplies manufacturing .....	—	11	2	440	17 075	204	417	6 281	33 940	12 508	51 230	459
33911	Medical equipment and supplies manufacturing .....	—	11	2	440	17 075	204	417	6 281	33 940	12 508	51 230	459
339111	Laboratory apparatus and furniture manufacturing .....	—	3	1	e	D	D	D	D	D	D	D	272
3399	Other miscellaneous manufacturing .....	1	35	3	250	7 703	150	301	4 118	15 733	15 022	30 764	495
	<b>Muskegon-Norton Shores, MI Metropolitan Statistical Area</b>												
31-33	Manufacturing .....	—	332	124	14 344	575 192	10 566	22 301	368 164	1 554 642	1 285 184	2 852 258	96 486
311	Food manufacturing .....	—	11	4	340	13 628	241	467	7 473	42 501	21 519	62 969	796
322	Paper manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
3221	Pulp, paper, and paperboard mills .....	—	1	1	f	D	D	D	D	D	D	D	D
32212	Paper mills .....	—	1	1	f	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills .....	—	1	1	f	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	—	17	5	325	12 022	196	397	6 005	22 689	12 810	36 125	1 297
3231	Printing and related support activities .....	—	17	5	325	12 022	196	397	6 005	22 689	12 810	36 125	1 297
32311	Printing .....	—	17	5	325	12 022	196	397	6 005	22 689	12 810	36 125	1 297
325	Chemical manufacturing .....	—	10	5	652	30 120	369	655	14 266	116 793	120 291	239 227	11 331
3251	Basic chemical manufacturing ...	—	4	3	f	D	D	D	D	D	D	D	D
32513	Synthetic dye and pigment manufacturing .....	—	2	2	e	D	D	D	D	D	D	D	D
325132	Synthetic organic dye and pigment manufacturing .....	—	2	2	e	D	D	D	D	D	D	D	D

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>GRAND RAPIDS-MUSKEGON-HOLLAND, MI COMBINED STATISTICAL AREA—Con.</b>													
<b>Muskegon-Norton Shores, MI Metropolitan Statistical Area—Con.</b>													
326	Plastics and rubber products manufacturing .....	-	11	5	f	D	D	D	D	D	D	D	4 756
3261	Plastics product manufacturing ..	-	10	5	f	D	D	D	D	D	D	D	4 756
32619	Other plastics product manufacturing .....	-	9	5	718	17 088	631	1 437	13 395	40 088	48 469	87 945	D
326199	All other plastics product manufacturing .....	-	9	5	718	17 088	631	1 437	13 395	40 088	48 469	87 945	D
331	Primary metal manufacturing .....	-	37	28	3 903	143 899	3 124	7 018	103 672	441 267	298 508	741 424	21 912
3315	Foundries .....	-	30	23	3 528	128 746	2 880	6 534	94 639	400 151	198 632	595 607	15 268
33151	Ferrous metal foundries .....	-	11	11	2 353	89 278	1 983	4 604	68 685	272 979	135 774	407 113	11 573
331511	Iron foundries .....	-	4	4	707	33 711	579	1 311	24 998	73 237	36 731	109 709	2 471
331512	Steel investment foundries ..	-	4	4	g	D	D	D	D	D	D	D	8 076
331513	Steel foundries (except investment) .....	-	3	3	e	D	D	D	D	D	D	D	1 026
33152	Nonferrous metal foundries ....	5	19	12	1 175	39 468	897	1 930	25 954	127 172	62 858	188 494	3 695
331521	Aluminum die-casting foundries .....	1	4	4	385	12 588	316	725	10 065	38 233	22 259	60 506	1 552
331524	Aluminum foundries (except die-casting) .....	1	9	4	347	9 834	243	526	5 573	36 023	19 072	54 416	1 053
331528	Other nonferrous foundries (except die-casting) .....	-	2	2	e	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	-	98	29	2 277	91 054	1 588	3 240	55 302	204 929	140 086	345 202	9 467
3326	Spring and wire product manufacturing .....	-	10	5	384	12 323	259	557	7 840	28 128	12 971	41 225	1 017
33261	Spring and wire product manufacturing .....	-	10	5	384	12 323	259	557	7 840	28 128	12 971	41 225	1 017
332612	Spring (light gauge) manufacturing .....	-	6	3	325	10 356	227	493	6 477	25 402	10 550	35 907	D
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	1	42	9	639	23 911	493	917	15 946	49 122	27 105	75 959	D
33271	Machine shops .....	1	39	8	561	21 353	418	776	13 535	44 708	24 992	69 358	2 332
332710	Machine shops .....	1	39	8	561	21 353	418	776	13 535	44 708	24 992	69 358	2 332
3328	Coating, engraving, heat treating, and allied activities .....	-	14	6	553	22 894	345	755	13 808	56 147	48 759	104 433	2 472
33281	Coating, engraving, heat treating, and allied activities ..	-	14	6	553	22 894	345	755	13 808	56 147	48 759	104 433	2 472
332813	Electroplating, plating, polishing, anodizing, and coloring .....	-	11	3	e	D	D	D	D	D	D	D	D
3329	Other fabricated metal product manufacturing .....	-	17	5	346	19 968	247	498	10 788	34 666	13 507	49 194	1 208
33299	All other fabricated metal product manufacturing .....	-	17	5	346	19 968	247	498	10 788	34 666	13 507	49 194	1 208
333	Machinery manufacturing .....	1	60	17	1 804	85 836	1 109	2 364	40 199	169 091	164 375	337 128	6 954
3335	Metalworking machinery manufacturing .....	2	37	7	501	24 356	374	724	16 657	39 994	17 675	59 733	1 841
33351	Metalworking machinery manufacturing .....	2	37	7	501	24 356	374	724	16 657	39 994	17 675	59 733	1 841
3336	Engine, turbine, and power transmission equipment manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
33361	Engine, turbine, and power transmission equipment manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
333618	Other engine equipment manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
3339	Other general purpose machinery manufacturing .....	1	10	5	637	26 255	400	862	10 859	52 871	63 394	114 877	1 679
33392	Material handling equipment manufacturing .....	-	4	2	e	D	D	D	D	D	D	D	D
333923	Overhead traveling crane, hoist, and monorail system manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>GRAND RAPIDS-MUSKEGON-HOLLAND, MI COMBINED STATISTICAL AREA—Con.</b>													
<b>Muskegon-Norton Shores, MI Metropolitan Statistical Area—Con.</b>													
336	Transportation equipment manufacturing .....	-	19	8	1 946	83 619	1 519	2 952	61 520	164 932	226 936	384 759	27 558
3363	Motor vehicle parts manufacturing .....	-	14	6	g	D	D	D	D	D	D	D	D
33631	Motor vehicle gasoline engine and engine parts manufacturing .....	-	6	4	f	D	D	D	D	D	D	D	D
336312	Gasoline engine and engine parts manufacturing .....	-	4	4	f	D	D	D	D	D	D	D	D
33633	Motor vehicle steering and suspension component (except spring) manufacturing .....	-	2	1	e	D	D	D	D	D	D	D	D
336330	Motor vehicle steering and suspension component (except spring) manufacturing .....	-	2	1	e	D	D	D	D	D	D	D	D
3364	Aerospace product and parts manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
336412	Aircraft engine and engine parts manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	9	13	5	793	27 527	668	1 375	21 339	98 265	57 766	153 849	2 216
3372	Office furniture (including fixtures) manufacturing .....	9	8	5	784	27 335	660	1 362	21 197	97 870	57 406	153 094	2 203
33721	Office furniture (including fixtures) manufacturing .....	9	8	5	784	27 335	660	1 362	21 197	97 870	57 406	153 094	2 203
337214	Office furniture (except wood) manufacturing .....	9	3	2	f	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing .....	-	24	7	405	12 116	274	488	6 124	83 680	61 488	149 506	2 446
3399	Other miscellaneous manufacturing .....	-	14	4	e	D	D	D	D	D	D	D	D
<b>LANSING-EAST LANSING-OWOSSO, MI COMBINED STATISTICAL AREA</b>													
31-33	Manufacturing .....	-	494	180	27 317	1 293 378	20 791	42 836	951 119	6 111 370	8 315 127	14 424 957	194 027
311	Food manufacturing .....	1	39	10	f	D	D	D	D	D	D	D	D
3115	Dairy product manufacturing .....	-	5	4	344	13 578	215	465	7 751	44 411	149 969	194 446	D
31151	Dairy product (except frozen) manufacturing .....	-	4	4	e	D	D	D	D	D	D	D	D
311511	Fluid milk manufacturing .....	1	3	3	e	D	D	D	D	D	D	D	D
321	Wood product manufacturing .....	1	20	10	f	D	D	D	D	D	D	D	D
3219	Other wood product manufacturing .....	5	15	6	e	D	D	D	D	D	D	D	D
322	Paper manufacturing .....	-	4	3	e	D	D	D	D	D	D	D	D
3222	Converted paper product manufacturing .....	-	4	3	e	D	D	D	D	D	D	D	D
32221	Paperboard container manufacturing .....	-	4	3	e	D	D	D	D	D	D	D	D
322211	Corrugated and solid fiber box manufacturing .....	-	4	3	e	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	7	68	14	g	D	D	D	D	D	D	D	7 099
3231	Printing and related support activities .....	7	68	14	g	D	D	D	D	D	D	D	7 099
32311	Printing .....	7	57	11	g	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing .....	7	30	7	1 093	45 754	720	1 420	25 103	79 922	61 897	142 130	D
325	Chemical manufacturing .....	5	14	8	f	D	D	D	D	D	D	D	D
3254	Pharmaceutical and medicine manufacturing .....	9	2	2	e	D	D	D	D	D	D	D	D
32541	Pharmaceutical and medicine manufacturing .....	9	2	2	e	D	D	D	D	D	D	D	D
325414	Biological product (except diagnostic) manufacturing ..	9	2	2	e	D	D	D	D	D	D	D	D

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>LANSING-EAST LANSING-OWOSSO, MI COMBINED STATISTICAL AREA—Con.</b>												
326	Plastics and rubber products manufacturing .....	-	25	15	2 481	63 526	1 595	2 949	31 463	198 061	101 865	285 826	8 004
3261	Plastics product manufacturing ..	-	24	15	g	D	D	D	D	D	D	D	D
32614	Polystyrene foam product manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
326140	Polystyrene foam product manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	-	19	11	g	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing .....	-	19	11	g	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing .....	2	28	12	870	33 424	677	1 425	23 937	125 774	64 842	192 088	3 495
3273	Cement and concrete product manufacturing .....	3	23	10	f	D	D	D	D	D	D	D	D
32732	Ready-mix concrete manufacturing .....	3	14	4	e	D	D	D	D	D	D	D	D
327320	Ready-mix concrete manufacturing .....	3	14	4	e	D	D	D	D	D	D	D	D
331	Primary metal manufacturing .....	-	4	3	587	25 017	413	962	15 466	46 141	77 933	123 258	D
3315	Foundries .....	-	3	2	e	D	D	D	D	D	D	D	D
33152	Nonferrous metal foundries ....	-	2	2	e	D	D	D	D	D	D	D	D
331522	Nonferrous (except aluminum) die-casting foundries .....	-	1	1	e	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	1	88	30	2 567	96 770	1 973	3 979	67 070	276 214	126 890	394 440	22 269
3321	Forging and stamping.....	-	5	4	f	D	D	D	D	D	D	D	D
33211	Forging and stamping.....	-	5	4	f	D	D	D	D	D	D	D	D
332112	Nonferrous forging .....	-	1	1	e	D	D	D	D	D	D	D	D
3323	Architectural and structural metals manufacturing .....	1	15	4	e	D	D	D	D	D	D	D	D
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	1	32	8	572	24 092	461	891	17 045	51 107	20 999	69 286	9 247
33271	Machine shops .....	1	26	5	e	D	D	D	D	D	D	D	D
332710	Machine shops .....	1	26	5	e	D	D	D	D	D	D	D	D
33272	Turned product and screw, nut, and bolt manufacturing .....	1	6	3	e	D	D	D	D	D	D	D	D
332721	Precision turned product manufacturing .....	1	6	3	e	D	D	D	D	D	D	D	D
3328	Coating, engraving, heat treating, and allied activities .....	1	15	7	e	D	D	D	D	D	D	D	D
33281	Coating, engraving, heat treating, and allied activities ..	1	15	7	e	D	D	D	D	D	D	D	D
3329	Other fabricated metal product manufacturing .....	2	16	4	f	D	D	D	D	D	D	D	2 057
33291	Metal valve manufacturing ....	2	3	3	374	12 433	259	531	6 890	46 085	31 112	77 487	1 705
332912	Fluid power valve and hose fitting manufacturing .....	-	2	2	e	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	1	63	27	2 029	90 052	1 413	2 906	55 648	159 672	147 800	323 337	7 644
3331	Agriculture, construction, and mining machinery manufacturing .....	2	8	4	e	D	D	D	D	D	D	D	D
3335	Metalworking machinery manufacturing .....	1	31	13	f	D	D	D	D	D	D	D	D
33351	Metalworking machinery manufacturing .....	1	31	13	f	D	D	D	D	D	D	D	D
3336	Engine, turbine, and power transmission equipment manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
33361	Engine, turbine, and power transmission equipment manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
333613	Mechanical power transmission equipment manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D

See footnotes at end of table.



**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>LANSING-EAST LANSING-OWOSSO, MI COMBINED STATISTICAL AREA—Con.</b>													
335	Electrical equipment, appliance, and component manufacturing .....	-	7	5	f	D	D	D	D	D	D	D	D
3353	Electrical equipment manufacturing .....	-	7	5	f	D	D	D	D	D	D	D	D
33531	Electrical equipment manufacturing .....	-	7	5	f	D	D	D	D	D	D	D	D
335312	Motor and generator manufacturing .....	-	4	4	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	41	24	12 601	770 783	10 449	22 390	634 759	4 791 826	7 146 490	11 943 556	112 151
3361	Motor vehicle manufacturing .....	-	6	4	i	D	D	D	D	D	D	D	D
33611	Automobile and light duty motor vehicle manufacturing .....	-	4	3	i	D	D	D	D	D	D	D	D
336111	Automobile manufacturing .....	-	4	3	i	D	D	D	D	D	D	D	D
33612	Heavy duty truck manufacturing .....	-	2	1	e	D	D	D	D	D	D	D	D
336120	Heavy duty truck manufacturing .....	-	2	1	e	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	-	23	13	h	D	D	D	D	D	D	D	D
33631	Motor vehicle gasoline engine and engine parts manufacturing .....	2	4	3	618	30 111	500	1 016	22 343	70 429	50 267	120 326	D
336311	Carburetor, piston, piston ring, and valve manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
336312	Gasoline engine and engine parts manufacturing .....	4	3	2	e	D	D	D	D	D	D	D	D
33636	Motor vehicle seating and interior trim manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
336360	Motor vehicle seating and interior trim manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
33637	Motor vehicle metal stamping .....	-	8	4	2 328	142 419	1 991	3 724	119 870	179 273	445 655	623 168	D
336370	Motor vehicle metal stamping .....	-	8	4	2 328	142 419	1 991	3 724	119 870	179 273	445 655	623 168	D
33639	Other motor vehicle parts manufacturing .....	-	5	2	f	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts manufacturing .....	-	5	2	f	D	D	D	D	D	D	D	D
3364	Aerospace product and parts manufacturing .....	1	3	3	371	18 592	202	470	8 324	40 054	21 856	62 511	2 021
33641	Aerospace product and parts manufacturing .....	1	3	3	371	18 592	202	470	8 324	40 054	21 856	62 511	2 021
336411	Aircraft manufacturing .....	1	2	2	e	D	D	D	D	D	D	D	D
3369	Other transportation equipment manufacturing .....	-	2	1	e	D	D	D	D	D	D	D	D
33699	Other transportation equipment manufacturing .....	-	2	1	e	D	D	D	D	D	D	D	D
336992	Military armored vehicle, tank, and tank component manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	-	19	7	e	D	D	D	D	D	D	D	D
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	1	15	4	e	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing .....	-	36	4	f	D	D	D	D	D	D	D	3 075
3391	Medical equipment and supplies manufacturing .....	-	13	2	e	D	D	D	D	D	D	D	D
33911	Medical equipment and supplies manufacturing .....	-	13	2	e	D	D	D	D	D	D	D	D
<b>Lansing-East Lansing, MI Metropolitan Statistical Area</b>													
31-33	Manufacturing .....	-	412	149	23 817	1 194 678	18 083	37 650	887 413	5 835 475	8 044 916	13 881 182	183 737
311	Food manufacturing .....	1	38	10	799	25 904	498	1 041	14 468	69 883	199 708	269 526	9 278
3115	Dairy product manufacturing .....	-	5	4	344	13 578	215	465	7 751	44 411	149 969	194 446	D
31151	Dairy product (except frozen) manufacturing .....	-	4	4	e	D	D	D	D	D	D	D	D
311511	Fluid milk manufacturing .....	1	3	3	e	D	D	D	D	D	D	D	D
321	Wood product manufacturing .....	1	19	9	506	16 708	375	762	9 852	33 039	76 104	108 918	1 784
3219	Other wood product manufacturing .....	5	14	5	278	8 183	210	436	4 996	12 894	20 505	32 986	478

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>LANSING-EAST LANSING-OWOSSO, MI COMBINED STATISTICAL AREA—Con.</b>													
<b>Lansing-East Lansing, MI Metropolitan Statistical Area—Con.</b>													
323	Printing and related support activities .....	7	59	13	1 654	60 978	1 150	2 185	34 670	113 740	77 870	192 003	6 853
3231	Printing and related support activities .....	7	59	13	1 654	60 978	1 150	2 185	34 670	113 740	77 870	192 003	6 853
32311	Printing .....	7	50	11	1 494	57 044	1 022	1 975	32 549	105 792	76 603	182 784	6 698
323110	Commercial lithographic printing .....	7	26	7	1 071	45 026	707	1 393	24 640	77 736	61 687	139 734	3 739
325	Chemical manufacturing .....	5	13	8	590	25 719	218	397	8 021	100 463	76 615	175 659	3 997
3254	Pharmaceutical and medicine manufacturing .....	9	2	2	e	D	D	D	D	D	D	D	D
32541	Pharmaceutical and medicine manufacturing .....	9	2	2	e	D	D	D	D	D	D	D	D
325414	Biological product (except diagnostic) manufacturing ..	9	2	2	e	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	—	18	10	1 506	47 213	801	1 577	20 703	136 416	63 273	185 874	6 859
3261	Plastics product manufacturing ..	—	17	10	g	D	D	D	D	D	D	D	D
32614	Polystyrene foam product manufacturing .....	—	2	1	f	D	D	D	D	D	D	D	D
326140	Polystyrene foam product manufacturing .....	—	2	1	f	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	—	13	7	f	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing .....	—	13	7	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing .....	1	20	9	589	24 168	465	991	17 755	87 693	46 994	135 578	2 283
3273	Cement and concrete product manufacturing .....	2	18	8	e	D	D	D	D	D	D	D	D
331	Primary metal manufacturing .....	—	4	3	587	25 017	413	962	15 466	46 141	77 933	123 258	D
3315	Foundries .....	—	3	2	e	D	D	D	D	D	D	D	D
33152	Nonferrous metal foundries ....	—	2	2	e	D	D	D	D	D	D	D	D
331522	Nonferrous (except aluminum) die-casting foundries.....	—	1	1	e	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	1	76	26	2 306	88 833	1 765	3 619	61 797	259 330	114 751	364 886	20 875
3321	Forging and stamping.....	—	4	3	530	21 722	457	992	18 416	79 190	27 380	107 451	1 712
33211	Forging and stamping.....	—	4	3	530	21 722	457	992	18 416	79 190	27 380	107 451	1 712
332112	Nonferrous forging .....	—	1	1	e	D	D	D	D	D	D	D	D
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	1	28	8	554	23 460	447	864	16 594	49 638	20 623	67 437	9 208
33271	Machine shops .....	1	23	5	280	11 777	225	421	8 717	22 166	9 128	28 442	D
332710	Machine shops .....	1	23	5	280	11 777	225	421	8 717	22 166	9 128	28 442	D
33272	Turned product and screw, nut, and bolt manufacturing .....	—	5	3	274	11 683	222	443	7 877	27 472	11 495	38 995	D
332721	Precision turned product manufacturing .....	—	5	3	274	11 683	222	443	7 877	27 472	11 495	38 995	D
3328	Coating, engraving, heat treating, and allied activities .....	—	13	6	350	12 840	265	521	8 642	31 956	6 175	38 156	D
33281	Coating, engraving, heat treating, and allied activities ..	—	13	6	350	12 840	265	521	8 642	31 956	6 175	38 156	D
3329	Other fabricated metal product manufacturing .....	2	15	4	512	17 510	350	727	10 642	55 230	36 190	91 687	2 057
33291	Metal valve manufacturing ....	2	3	3	374	12 433	259	531	6 890	46 085	31 112	77 487	1 705
332912	Fluid power valve and hose fitting manufacturing .....	—	2	2	e	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	1	44	20	1 577	74 223	1 127	2 339	47 604	122 548	101 630	241 312	7 001
3335	Metalworking machinery manufacturing .....	1	24	12	618	31 422	393	809	17 720	33 751	21 222	70 518	3 320
33351	Metalworking machinery manufacturing .....	1	24	12	618	31 422	393	809	17 720	33 751	21 222	70 518	3 320

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>LANSING-EAST LANSING-OWOSSO, MI COMBINED STATISTICAL AREA—Con.</b>												
	<b>Lansing-East Lansing, MI Metropolitan Statistical Area—Con.</b>												
333	Machinery manufacturing—Con.												
3336	Engine, turbine, and power transmission equipment manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
33361	Engine, turbine, and power transmission equipment manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
333613	Mechanical power transmission equipment manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing .....	—	4	2	e	D	D	D	D	D	D	D	D
3353	Electrical equipment manufacturing .....	—	4	2	e	D	D	D	D	D	D	D	D
33531	Electrical equipment manufacturing .....	—	4	2	e	D	D	D	D	D	D	D	D
335312	Motor and generator manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	—	36	21	12 131	754 681	10 082	21 619	624 748	4 749 260	7 071 663	11 826 105	109 553
3361	Motor vehicle manufacturing .....	—	6	4	i	D	D	D	D	D	D	D	D
33611	Automobile and light duty motor vehicle manufacturing .....	—	4	3	i	D	D	D	D	D	D	D	D
336111	Automobile manufacturing .....	—	4	3	i	D	D	D	D	D	D	D	D
33612	Heavy duty truck manufacturing .....	—	2	1	e	D	D	D	D	D	D	D	D
336120	Heavy duty truck manufacturing .....	—	2	1	e	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	—	21	12	h	D	D	D	D	D	D	D	D
33631	Motor vehicle gasoline engine and engine parts manufacturing .....	2	4	3	618	30 111	500	1 016	22 343	70 429	50 267	120 326	D
336311	Carburetor, piston, piston ring, and valve manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
336312	Gasoline engine and engine parts manufacturing .....	4	3	2	e	D	D	D	D	D	D	D	D
33636	Motor vehicle seating and interior trim manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
336360	Motor vehicle seating and interior trim manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
33637	Motor vehicle metal stamping .....	—	8	4	2 328	142 419	1 991	3 724	119 870	179 273	445 655	623 168	D
336370	Motor vehicle metal stamping .....	—	8	4	2 328	142 419	1 991	3 724	119 870	179 273	445 655	623 168	D
33639	Other motor vehicle parts manufacturing .....	—	4	2	f	D	D	D	D	D	D	D	9 014
336399	All other motor vehicle parts manufacturing .....	—	4	2	f	D	D	D	D	D	D	D	9 014
3364	Aerospace product and parts manufacturing .....	1	3	3	371	18 592	202	470	8 324	40 054	21 856	62 511	2 021
33641	Aerospace product and parts manufacturing .....	1	3	3	371	18 592	202	470	8 324	40 054	21 856	62 511	2 021
336411	Aircraft manufacturing .....	1	2	2	e	D	D	D	D	D	D	D	D
3369	Other transportation equipment manufacturing .....	—	2	1	e	D	D	D	D	D	D	D	D
33699	Other transportation equipment manufacturing .....	—	2	1	e	D	D	D	D	D	D	D	D
336992	Military armored vehicle, tank, and tank component manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing .....	—	29	4	529	14 903	444	722	10 673	33 713	37 689	72 294	3 034
3391	Medical equipment and supplies manufacturing .....	—	12	2	303	9 515	253	491	7 033	16 025	6 524	24 556	D
33911	Medical equipment and supplies manufacturing .....	—	12	2	303	9 515	253	491	7 033	16 025	6 524	24 556	D

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>LANSING-EAST LANSING-OWOSSO, MI COMBINED STATISTICAL AREA—Con.</b>													
<b>Owosso, MI Micropolitan Statistical Area</b>													
31-33	Manufacturing .....	1	82	31	3 500	98 700	2 708	5 186	63 706	275 895	270 211	543 775	10 290
326	Plastics and rubber products manufacturing .....	—	7	5	975	16 313	794	1 372	10 760	61 645	38 592	99 952	1 145
3261	Plastics product manufacturing ..	—	7	5	975	16 313	794	1 372	10 760	61 645	38 592	99 952	1 145
32619	Other plastics product manufacturing .....	—	6	4	f	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing .....	—	6	4	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing .....	6	8	3	281	9 256	212	434	6 182	38 081	17 848	56 510	1 212
332	Fabricated metal product manufacturing .....	2	12	4	261	7 937	208	360	5 273	16 884	12 139	29 554	1 394
333	Machinery manufacturing .....	1	19	7	452	15 829	286	567	8 044	37 124	46 170	82 025	643
335	Electrical equipment, appliance, and component manufacturing .....	—	3	3	559	16 102	456	930	11 878	39 871	24 868	62 938	2 615
3353	Electrical equipment manufacturing .....	—	3	3	559	16 102	456	930	11 878	39 871	24 868	62 938	2 615
33531	Electrical equipment manufacturing .....	—	3	3	559	16 102	456	930	11 878	39 871	24 868	62 938	2 615
335312	Motor and generator manufacturing .....	—	3	3	559	16 102	456	930	11 878	39 871	24 868	62 938	2 615
336	Transportation equipment manufacturing .....	—	5	3	470	16 102	367	771	10 011	42 566	74 827	117 451	2 598
3363	Motor vehicle parts manufacturing .....	—	2	1	e	D	D	D	D	D	D	D	D
<b>SAGINAW-BAY CITY-SAGINAW TOWNSHIP NORTH, MI COMBINED STATISTICAL AREA</b>													
31-33	Manufacturing .....	—	'379	'118	'22 756	'1 302 918	'17 558	'36 149	'946 062	'3 281 391	'2 830 542	'6 139 683	'229 275
311	Food manufacturing .....	—	30	6	743	25 469	529	1 036	14 726	94 988	100 633	196 657	D
3113	Sugar and confectionery product manufacturing .....	—	6	1	e	D	D	D	D	D	D	D	D
31131	Sugar manufacturing .....	—	2	1	e	D	D	D	D	D	D	D	D
311313	Beet sugar manufacturing ..	—	2	1	e	D	D	D	D	D	D	D	D
321	Wood product manufacturing .....	3	18	8	e	D	D	D	D	D	D	D	1 034
325	Chemical manufacturing .....	7	7	3	e	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	—	14	7	766	37 058	533	1 166	22 394	77 966	98 058	175 941	D
3261	Plastics product manufacturing ..	1	13	6	f	D	D	D	D	D	D	D	D
32611	Plastics packaging materials and unlaminated film and sheet manufacturing .....	1	2	2	e	D	D	D	D	D	D	D	D
326111	Plastics bag manufacturing ..	1	2	2	e	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing .....	—	20	9	f	D	D	D	D	D	D	D	D
3273	Cement and concrete product manufacturing .....	—	15	7	f	D	D	D	D	D	D	D	D
331	Primary metal manufacturing .....	—	9	5	h	D	D	D	D	D	D	D	D
3314	Nonferrous metal (except aluminum) production and processing .....	—	1	1	e	D	D	D	D	D	D	D	D
33141	Nonferrous metal (except aluminum) smelting and refining .....	—	1	1	e	D	D	D	D	D	D	D	D
331419	Primary smelting and refining of nonferrous metal (except copper and aluminum) .....	—	1	1	e	D	D	D	D	D	D	D	D
3315	Foundries .....	—	7	3	h	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries .....	—	6	3	h	D	D	D	D	D	D	D	D
331511	Iron foundries .....	—	3	2	h	D	D	D	D	D	D	D	D

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>SAGINAW-BAY CITY-SAGINAW TOWNSHIP NORTH, MI COMBINED STATISTICAL AREA—Con.</b>													
332	Fabricated metal product manufacturing .....	1	95	27	2 056	69 304	1 604	3 183	48 982	165 650	87 270	260 218	8 763
3323	Architectural and structural metals manufacturing .....	1	19	5	518	18 003	420	880	13 630	38 249	25 230	63 447	1 057
33232	Ornamental and architectural metal products manufacturing .....	—	9	3	e	D	D	D	D	D	D	D	D
332322	Sheet metal work manufacturing .....	—	5	2	e	D	D	D	D	D	D	D	D
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	—	54	12	f	D	D	D	D	D	D	D	D
33271	Machine shops .....	—	46	10	771	23 155	602	1 204	17 647	69 188	26 175	99 510	2 843
332710	Machine shops .....	—	46	10	771	23 155	602	1 204	17 647	69 188	26 175	99 510	2 843
3328	Coating, engraving, heat treating, and allied activities .....	—	9	4	e	D	D	D	D	D	D	D	D
33281	Coating, engraving, heat treating, and allied activities ..	—	9	4	e	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	2	60	28	2 338	91 335	1 424	2 910	53 576	162 619	119 224	295 512	5 817
3335	Metalworking machinery manufacturing .....	3	40	18	1 635	55 958	981	2 006	34 269	90 071	35 746	132 371	D
33351	Metalworking machinery manufacturing .....	3	40	18	1 635	55 958	981	2 006	34 269	90 071	35 746	132 371	D
333515	Cutting tool and machine tool accessory manufacturing ..	4	13	7	f	D	D	D	D	D	D	D	D
333518	Other metalworking machinery manufacturing ..	5	2	2	f	D	D	D	D	D	D	D	D
3339	Other general purpose machinery manufacturing .....	3	9	5	359	15 087	237	478	7 862	32 150	32 356	67 912	D
336	Transportation equipment manufacturing .....	—	20	11	j	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	—	16	10	j	D	D	D	D	D	D	D	D
33631	Motor vehicle gasoline engine and engine parts manufacturing .....	—	5	3	g	D	D	D	D	D	D	D	D
336312	Gasoline engine and engine parts manufacturing .....	—	5	3	g	D	D	D	D	D	D	D	D
33633	Motor vehicle steering and suspension component (except spring) manufacturing .....	—	3	1	i	D	D	D	D	D	D	D	D
336330	Motor vehicle steering and suspension component (except spring) manufacturing .....	—	3	1	i	D	D	D	D	D	D	D	D
33634	Motor vehicle brake system manufacturing .....	—	2	2	g	D	D	D	D	D	D	D	D
336340	Motor vehicle brake system manufacturing .....	—	2	2	g	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts manufacturing .....	—	4	3	e	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts manufacturing .....	—	4	3	e	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing .....	5	23	3	e	D	D	D	D	D	D	D	D
<b>Bay City, MI Metropolitan Statistical Area</b>													
31-33	Manufacturing .....	1	138	41	5 119	245 373	4 028	8 226	180 565	512 860	589 460	1 113 549	43 237
311	Food manufacturing .....	—	10	2	464	15 858	363	751	10 524	49 281	72 078	125 454	D
3113	Sugar and confectionery product manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
31131	Sugar manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
311313	Beet sugar manufacturing ..	—	1	1	e	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	1	6	4	498	25 601	357	785	15 904	22 288	77 317	99 656	D
3261	Plastics product manufacturing ..	1	6	4	498	25 601	357	785	15 904	22 288	77 317	99 656	D
32611	Plastics packaging materials and unlaminated film and sheet manufacturing .....	1	2	2	e	D	D	D	D	D	D	D	D
326111	Plastics bag manufacturing ..	1	2	2	e	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing .....	—	10	5	424	15 636	364	763	12 156	49 175	32 861	81 716	1 315
3273	Cement and concrete product manufacturing .....	—	8	4	e	D	D	D	D	D	D	D	D

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>SAGINAW-BAY CITY-SAGINAW TOWNSHIP NORTH, MI COMBINED STATISTICAL AREA—Con.</b>													
<b>Bay City, MI Metropolitan Statistical Area—Con.</b>													
332	Fabricated metal product manufacturing .....	—	28	9	534	20 855	365	728	11 638	34 029	28 102	65 557	3 308
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	1	19	4	251	10 144	197	390	6 945	15 738	10 176	28 775	2 743
333	Machinery manufacturing .....	1	19	5	410	19 031	279	546	11 185	30 701	22 766	59 573	537
336	Transportation equipment manufacturing .....	—	6	3	1 856	115 684	1 642	3 364	100 421	213 801	260 556	472 106	D
3363	Motor vehicle parts manufacturing .....	—	4	3	g	D	D	D	D	D	D	D	D
33631	Motor vehicle gasoline engine and engine parts manufacturing .....	—	2	2	g	D	D	D	D	D	D	D	D
336312	Gasoline engine and engine parts manufacturing .....	—	2	2	g	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
<b>Saginaw-Saginaw Township North, MI Metropolitan Statistical Area</b>													
31-33	Manufacturing .....	—	'241	'77	'17 637	'1 057 545	'13 530	'27 923	'765 497	'2 768 531	'2 241 082	'5 026 134	'186 038
311	Food manufacturing .....	2	20	4	279	9 611	166	285	4 202	45 707	28 555	71 203	1 455
321	Wood product manufacturing .....	6	7	3	282	6 760	199	397	4 555	10 611	18 889	30 463	826
326	Plastics and rubber products manufacturing .....	—	8	3	268	11 457	176	381	6 490	55 678	20 741	76 285	2 734
331	Primary metal manufacturing .....	—	7	4	h	D	D	D	D	D	D	D	D
3314	Nonferrous metal (except aluminum) production and processing .....	—	1	1	e	D	D	D	D	D	D	D	D
33141	Nonferrous metal (except aluminum) smelting and refining .....	—	1	1	e	D	D	D	D	D	D	D	D
331419	Primary smelting and refining of nonferrous metal (except copper and aluminum) .....	—	1	1	e	D	D	D	D	D	D	D	D
3315	Foundries .....	—	5	2	h	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries .....	—	4	2	h	D	D	D	D	D	D	D	D
331511	Iron foundries .....	—	3	2	h	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	1	67	18	1 522	48 449	1 239	2 455	37 344	131 621	59 168	194 661	5 455
3323	Architectural and structural metals manufacturing .....	2	16	4	443	15 837	376	800	12 464	34 807	23 782	58 583	1 031
33232	Ornamental and architectural metal products manufacturing .....	—	7	2	349	11 971	305	657	10 103	28 156	17 231	45 353	727
332322	Sheet metal work manufacturing .....	—	3	1	e	D	D	D	D	D	D	D	D
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	—	35	8	f	D	D	D	D	D	D	D	D
33271	Machine shops .....	—	34	8	658	18 273	516	1 012	14 609	60 562	22 023	86 664	2 554
332710	Machine shops .....	—	34	8	658	18 273	516	1 012	14 609	60 562	22 023	86 664	2 554
3328	Coating, engraving, heat treating, and allied activities .....	—	7	3	284	8 560	253	464	6 668	26 054	7 048	33 092	467
33281	Coating, engraving, heat treating, and allied activities ..	—	7	3	284	8 560	253	464	6 668	26 054	7 048	33 092	467
333	Machinery manufacturing .....	3	41	23	1 928	72 304	1 145	2 364	42 391	131 918	96 458	235 939	5 280
3335	Metalworking machinery manufacturing .....	4	30	16	1 402	44 785	812	1 683	26 397	78 412	25 619	106 901	3 728
33351	Metalworking machinery manufacturing .....	4	30	16	1 402	44 785	812	1 683	26 397	78 412	25 619	106 901	3 728
333515	Cutting tool and machine tool accessory manufacturing ..	4	12	7	618	21 248	488	1 100	15 865	39 134	8 502	48 639	1 951
333518	Other metalworking machinery manufacturing ..	9	1	1	e	D	D	D	D	D	D	D	D
3339	Other general purpose machinery manufacturing .....	5	5	4	266	10 531	185	371	6 108	21 996	24 867	48 784	888

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E1	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>SAGINAW-BAY CITY-SAGINAW TOWNSHIP NORTH, MI COMBINED STATISTICAL AREA—Con.</b>													
<b>Saginaw-Saginaw Township North, MI Metropolitan Statistical Area—Con.</b>													
336	Transportation equipment manufacturing .....	-	14	8	i	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	-	12	7	i	D	D	D	D	D	D	D	D
33631	Motor vehicle gasoline engine and engine parts manufacturing .....	-	3	1	e	D	D	D	D	D	D	D	D
336312	Gasoline engine and engine parts manufacturing .....	-	3	1	e	D	D	D	D	D	D	D	D
33633	Motor vehicle steering and suspension component (except spring) manufacturing .....	-	3	1	i	D	D	D	D	D	D	D	D
336330	Motor vehicle steering and suspension component (except spring) manufacturing .....	-	3	1	i	D	D	D	D	D	D	D	D
33634	Motor vehicle brake system manufacturing .....	-	2	2	g	D	D	D	D	D	D	D	D
336340	Motor vehicle brake system manufacturing .....	-	2	2	g	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing .....	1	17	2	263	9 949	207	384	6 928	26 601	6 366	32 803	2 286
<b>ADRIAN, MI MICROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	-	170	64	8 044	320 334	5 954	11 721	209 024	980 385	999 238	1 982 032	62 371
321	Wood product manufacturing .....	-	9	5	368	12 439	223	435	5 495	15 972	42 835	58 747	433
325	Chemical manufacturing .....	-	10	8	901	52 365	415	867	18 689	173 952	166 200	335 030	16 102
3251	Basic chemical manufacturing ...	-	4	3	569	35 013	229	432	11 116	121 531	135 047	252 316	10 052
32519	Other basic organic chemical manufacturing .....	-	3	2	f	D	D	D	D	D	D	D	D
325199	All other basic organic chemical manufacturing .....	-	3	2	f	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	-	19	7	1 076	45 669	840	1 707	34 379	173 971	181 657	355 580	6 044
3261	Plastics product manufacturing ..	-	18	7	g	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	-	12	5	923	39 772	725	1 489	30 633	158 509	170 271	328 879	5 235
326199	All other plastics product manufacturing .....	-	12	5	923	39 772	725	1 489	30 633	158 509	170 271	328 879	5 235
327	Nonmetallic mineral product manufacturing .....	-	10	4	552	20 987	474	827	16 614	54 415	77 910	132 030	1 164
3272	Glass and glass product manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
32721	Glass and glass product manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
327215	Glass product manufacturing made of purchased glass ..	-	1	1	e	D	D	D	D	D	D	D	D
331	Primary metal manufacturing .....	-	5	4	e	D	D	D	D	D	D	D	D
3313	Alumina and aluminum production and processing .....	-	2	2	e	D	D	D	D	D	D	D	D
33131	Alumina and aluminum production and processing ...	-	2	2	e	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	-	32	9	779	30 267	569	1 192	19 632	62 534	46 690	109 177	7 930
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	-	14	3	407	18 016	304	667	11 880	35 883	24 185	60 182	6 571
33272	Turned product and screw, nut, and bolt manufacturing .....	-	6	3	373	16 694	278	614	10 966	33 529	23 261	56 893	D
332721	Precision turned product manufacturing .....	-	5	2	e	D	D	D	D	D	D	D	D

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>ADRIAN, MI MICROPOLITAN STATISTICAL AREA—Con.</b>													
333	Machinery manufacturing .....	-	33	9	1 146	43 925	904	1 743	31 000	73 120	89 571	169 714	3 074
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	-	5	3	762	26 986	643	1 248	21 201	42 997	70 044	120 724	D
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	-	5	3	762	26 986	643	1 248	21 201	42 997	70 044	120 724	D
333415	Air-conditioning and warm air heating equipment and commercial and industrial refrigeration equipment manufacturing .....	-	4	2	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	10	7	1 061	38 697	800	1 654	27 303	161 900	173 006	333 580	11 926
3363	Motor vehicle parts manufacturing .....	-	8	7	g	D	D	D	D	D	D	D	D
33637	Motor vehicle metal stamping ..	-	3	3	f	D	D	D	D	D	D	D	D
336370	Motor vehicle metal stamping ..	-	3	3	f	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts manufacturing .....	-	3	2	e	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts manufacturing .....	-	3	2	e	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	-	7	2	g	D	D	D	D	D	D	D	D
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	-	5	1	f	D	D	D	D	D	D	D	D
33711	Wood kitchen cabinet and countertop manufacturing ....	-	3	1	f	D	D	D	D	D	D	D	D
337110	Wood kitchen cabinet and countertop manufacturing ..	-	3	1	f	D	D	D	D	D	D	D	D
3372	Office furniture (including fixtures) manufacturing .....	-	2	1	e	D	D	D	D	D	D	D	D
33721	Office furniture (including fixtures) manufacturing .....	-	2	1	e	D	D	D	D	D	D	D	D
337215	Showcase, partition, shelving, and locker manufacturing .....	-	2	1	e	D	D	D	D	D	D	D	D
<b>ALMA, MI MICROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	-	60	20	2 626	91 183	2 074	3 788	57 156	211 775	200 311	411 162	14 422
326	Plastics and rubber products manufacturing .....	-	7	5	306	7 632	243	444	4 532	23 272	19 815	42 872	1 504
333	Machinery manufacturing .....	-	7	5	288	13 844	178	373	7 659	36 737	17 993	55 901	3 159
336	Transportation equipment manufacturing .....	-	8	5	1 372	45 508	1 119	1 993	27 800	87 999	103 950	190 152	4 500
3363	Motor vehicle parts manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
33635	Motor vehicle transmission and power train parts manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
336350	Motor vehicle transmission and power train parts manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
33637	Motor vehicle metal stamping ..	-	1	1	e	D	D	D	D	D	D	D	D
336370	Motor vehicle metal stamping ..	-	1	1	e	D	D	D	D	D	D	D	D
<b>ALPENA, MI MICROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	4	52	17	1 893	79 227	1 312	2 560	47 606	224 722	168 523	398 731	9 086
321	Wood product manufacturing .....	-	13	3	395	14 228	275	596	8 954	31 144	29 775	61 274	1 577
3212	Veneer, plywood, and engineered wood product manufacturing ....	-	2	2	e	D	D	D	D	D	D	D	D
32121	Veneer, plywood, and engineered wood product manufacturing .....	-	2	2	e	D	D	D	D	D	D	D	D
321219	Reconstituted wood product manufacturing .....	-	2	2	e	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing .....	9	4	1	e	D	D	D	D	D	D	D	D
3273	Cement and concrete product manufacturing .....	9	4	1	e	D	D	D	D	D	D	D	D
32731	Cement manufacturing .....	9	1	1	e	D	D	D	D	D	D	D	D
327310	Cement manufacturing .....	9	1	1	e	D	D	D	D	D	D	D	D

See footnotes at end of table.



**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>ALPENA, MI MICROPOLITAN STATISTICAL AREA—Con.</b>													
332	Fabricated metal product manufacturing .....	-	10	6	279	8 985	220	451	7 086	14 623	7 911	23 175	713
333	Machinery manufacturing .....	-	12	5	764	34 065	456	766	14 417	74 084	72 076	150 305	1 029
3332	Industrial machinery manufacturing .....	-	2	1	e	D	D	D	D	D	D	D	D
33329	Other industrial machinery manufacturing .....	-	2	1	e	D	D	D	D	D	D	D	D
333298	All other industrial machinery manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
<b>BATTLE CREEK, MI METROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	-	202	84	13 970	576 027	10 526	21 564	391 087	2 202 344	1 856 185	4 047 350	212 284
311	Food manufacturing .....	-	19	7	1 878	113 450	1 519	3 280	90 058	681 783	324 593	998 606	65 141
3112	Grain and oilseed milling .....	-	4	3	1 479	102 481	1 190	2 584	81 976	615 589	280 670	888 530	D
31123	Breakfast cereal manufacturing .....	-	4	3	1 479	102 481	1 190	2 584	81 976	615 589	280 670	888 530	D
311230	Breakfast cereal manufacturing .....	-	4	3	1 479	102 481	1 190	2 584	81 976	615 589	280 670	888 530	D
322	Paper manufacturing .....	-	5	4	530	24 050	365	830	13 721	75 784	59 656	134 785	5 341
3221	Pulp, paper, and paperboard mills .....	-	2	2	e	D	D	D	D	D	D	D	D
32213	Paperboard mills .....	-	2	2	e	D	D	D	D	D	D	D	D
322130	Paperboard mills .....	-	2	2	e	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	1	27	6	382	15 919	286	540	10 938	37 231	21 875	58 348	1 044
3231	Printing and related support activities .....	1	27	6	382	15 919	286	540	10 938	37 231	21 875	58 348	1 044
32311	Printing .....	1	26	5	e	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing .....	1	14	4	276	10 752	216	393	7 636	23 839	18 088	41 200	540
326	Plastics and rubber products manufacturing .....	-	13	8	1 433	54 460	984	2 073	32 950	101 286	107 741	208 365	11 897
3261	Plastics product manufacturing ..	-	12	7	g	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	-	10	6	g	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing .....	-	10	6	g	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing .....	-	12	4	361	13 583	330	673	12 110	53 853	38 034	92 152	4 245
331	Primary metal manufacturing .....	7	6	4	566	23 661	348	752	12 918	44 227	41 581	86 196	2 169
3315	Foundries .....	8	5	3	e	D	D	D	D	D	D	D	2 169
33151	Ferrous metal foundries .....	9	3	2	e	D	D	D	D	D	D	D	D
331511	Iron foundries .....	9	3	2	e	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	1	49	19	1 460	53 210	1 080	2 263	34 771	157 427	126 040	283 001	6 753
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	-	18	8	782	31 515	585	1 269	21 288	95 287	94 460	187 861	5 618
33271	Machine shops .....	-	9	2	330	12 883	257	562	8 481	43 548	53 533	97 125	D
332710	Machine shops .....	-	9	2	330	12 883	257	562	8 481	43 548	53 533	97 125	D
33272	Turned product and screw, nut, and bolt manufacturing .....	-	9	6	452	18 632	328	707	12 807	51 739	40 927	90 736	D
332721	Precision turned product manufacturing .....	-	7	5	e	D	D	D	D	D	D	D	2 663
333	Machinery manufacturing .....	-	17	7	759	25 983	489	842	11 914	56 260	43 770	98 954	7 498
3339	Other general purpose machinery manufacturing .....	-	7	5	651	21 226	411	676	8 953	46 191	38 768	83 595	D
33391	Pump and compressor manufacturing .....	-	2	1	e	D	D	D	D	D	D	D	D
333911	Pump and pumping equipment manufacturing ..	-	1	1	e	D	D	D	D	D	D	D	D
33399	All other general purpose machinery manufacturing .....	-	5	4	e	D	D	D	D	D	D	D	D

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>BATTLE CREEK, MI METROPOLITAN STATISTICAL AREA—Con.</b>													
335	Electrical equipment, appliance, and component manufacturing .....	-	4	3	1 113	39 784	689	1 522	22 652	84 266	180 895	265 096	D
3359	Other electrical equipment and component manufacturing .....	-	2	2	g	D	D	D	D	D	D	D	D
33592	Communication and energy wire and cable manufacturing .	-	1	1	e	D	D	D	D	D	D	D	D
335929	Other communication and energy wire manufacturing .	-	1	1	e	D	D	D	D	D	D	D	D
33593	Wiring device manufacturing ...	-	1	1	f	D	D	D	D	D	D	D	D
335931	Current-carrying wiring device manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	17	14	4 920	192 391	4 003	7 974	136 137	859 523	882 968	1 742 719	95 316
3363	Motor vehicle parts manufacturing .....	-	15	12	h	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical and electronic equipment manufacturing .....	-	3	3	1 204	46 603	944	1 620	26 259	132 448	152 392	284 190	D
336321	Vehicular lighting equipment manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
336322	Other motor vehicle electrical and electronic equipment manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
33635	Motor vehicle transmission and power train parts manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
336350	Motor vehicle transmission and power train parts manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
33636	Motor vehicle seating and interior trim manufacturing ....	-	4	2	e	D	D	D	D	D	D	D	D
336360	Motor vehicle seating and interior trim manufacturing ..	-	4	2	e	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts manufacturing .....	-	4	4	g	D	D	D	D	D	D	D	56 200
336391	Motor vehicle air-conditioning manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts manufacturing .....	-	3	3	f	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing .....	1	16	5	e	D	D	D	D	D	D	D	914
3399	Other miscellaneous manufacturing .....	2	11	4	e	D	D	D	D	D	D	D	741
<b>BIG RAPIDS, MI MICROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	-	34	15	1 770	53 749	1 490	2 897	40 659	195 274	224 238	418 818	11 652
316	Leather and allied product manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
3162	Footwear manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
31621	Footwear manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
316213	Men's footwear (except athletic) manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	-	6	4	535	20 701	414	835	15 304	66 588	76 647	142 770	6 380
3329	Other fabricated metal product manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
33299	All other fabricated metal product manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
332999	All other miscellaneous fabricated metal product manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	-	3	2	e	D	D	D	D	D	D	D	D
3372	Office furniture (including fixtures) manufacturing .....	-	2	2	e	D	D	D	D	D	D	D	D
33721	Office furniture (including fixtures) manufacturing .....	-	2	2	e	D	D	D	D	D	D	D	D

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>CADILLAC, MI MICROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	1	85	30	4 421	148 431	3 418	6 845	95 174	417 585	413 921	833 227	23 833
321	Wood product manufacturing .....	1	13	6	e	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	-	8	5	1 353	42 698	1 030	1 957	24 986	89 266	77 496	167 258	2 471
3262	Rubber product manufacturing ...	-	7	4	g	D	D	D	D	D	D	D	D
32622	Rubber and plastics hoses and belting manufacturing .....	-	3	2	f	D	D	D	D	D	D	D	D
326220	Rubber and plastics hoses and belting manufacturing ..	-	3	2	f	D	D	D	D	D	D	D	D
32629	Other rubber product manufacturing .....	-	4	2	f	D	D	D	D	D	D	D	D
326291	Rubber product manufacturing for mechanical use .....	-	3	2	f	D	D	D	D	D	D	D	D
331	Primary metal manufacturing .....	-	2	1	e	D	D	D	D	D	D	D	D
3315	Foundries .....	-	2	1	e	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries .....	-	1	1	e	D	D	D	D	D	D	D	D
331511	Iron foundries .....	-	1	1	e	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	2	18	5	554	21 061	380	850	12 240	59 112	52 446	113 010	1 332
3324	Boiler, tank, and shipping container manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
33243	Metal can, box, and other metal container (light gauge) manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
332439	Other metal container manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	-	16	4	372	13 561	237	480	6 769	41 221	19 405	60 318	2 010
335	Electrical equipment, appliance, and component manufacturing .....	9	1	1	e	D	D	D	D	D	D	D	D
3352	Household appliance manufacturing .....	9	1	1	e	D	D	D	D	D	D	D	D
33521	Small electrical appliance manufacturing .....	9	1	1	e	D	D	D	D	D	D	D	D
335212	Household vacuum cleaner manufacturing .....	9	1	1	e	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	6	4	959	32 466	787	1 698	23 020	125 773	148 831	274 969	D
3363	Motor vehicle parts manufacturing .....	-	5	3	e	D	D	D	D	D	D	D	D
3366	Ship and boat building .....	-	1	1	f	D	D	D	D	D	D	D	D
33661	Ship and boat building .....	-	1	1	f	D	D	D	D	D	D	D	D
336612	Boat building .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>COLDWATER, MI MICROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	-	94	43	3 977	134 810	2 976	5 665	88 744	347 710	413 086	758 816	45 051
321	Wood product manufacturing .....	1	7	4	303	9 481	260	530	6 673	24 127	28 499	51 458	2 333
331	Primary metal manufacturing .....	-	6	5	463	17 091	368	778	12 550	48 770	169 272	220 132	5 069
3313	Alumina and aluminum production and processing .....	-	3	3	e	D	D	D	D	D	D	D	D
33131	Alumina and aluminum production and processing ...	-	3	3	e	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	-	24	8	788	27 319	582	1 112	16 886	76 217	43 930	120 036	2 137

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>COLDWATER, MI MICROPOLITAN STATISTICAL AREA—Con.</b>													
336	Transportation equipment manufacturing .....	—	11	8	1 235	39 907	899	1 557	26 616	89 638	93 841	181 815	31 603
3363	Motor vehicle parts manufacturing .....	—	10	8	g	D	D	D	D	D	D	D	D
33633	Motor vehicle steering and suspension component (except spring) manufacturing .....	1	3	3	301	10 987	250	293	8 158	12 061	31 842	43 555	1 073
336330	Motor vehicle steering and suspension component (except spring) manufacturing .....	1	3	3	301	10 987	250	293	8 158	12 061	31 842	43 555	1 073
33634	Motor vehicle brake system manufacturing .....	—	2	2	e	D	D	D	D	D	D	D	D
336340	Motor vehicle brake system manufacturing .....	—	2	2	e	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts manufacturing .....	—	3	2	e	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts manufacturing .....	—	3	2	e	D	D	D	D	D	D	D	D
<b>ESCANABA, MI MICROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	—	63	21	2 740	132 649	2 023	4 090	90 824	409 537	339 002	740 715	35 172
322	Paper manufacturing .....	—	2	1	g	D	D	D	D	D	D	D	D
3221	Pulp, paper, and paperboard mills .....	—	1	1	g	D	D	D	D	D	D	D	D
32212	Paper mills .....	—	1	1	g	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills .....	—	1	1	g	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	1	8	6	589	23 915	346	771	11 833	63 621	73 605	136 171	D
3336	Engine, turbine, and power transmission equipment manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
33361	Engine, turbine, and power transmission equipment manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
333618	Other engine equipment manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
<b>HOUGHTON, MI MICROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	3	49	9	745	23 020	563	1 123	14 321	57 894	79 269	142 452	5 043
321	Wood product manufacturing .....	7	9	3	285	9 361	245	520	7 193	16 300	37 498	54 653	1 237
<b>IRON MOUNTAIN, MI-WI MICROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	—	61	21	2 519	97 701	2 050	4 052	73 819	354 612	320 968	682 059	15 342
321	Wood product manufacturing .....	—	13	8	625	17 691	534	1 013	13 790	44 530	60 685	104 454	3 494
3219	Other wood product manufacturing .....	—	5	4	e	D	D	D	D	D	D	D	D
32199	All other wood product manufacturing .....	—	2	2	e	D	D	D	D	D	D	D	D
322	Paper manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
3221	Pulp, paper, and paperboard mills .....	—	1	1	f	D	D	D	D	D	D	D	D
32212	Paper mills .....	—	1	1	f	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills .....	—	1	1	f	D	D	D	D	D	D	D	D
331	Primary metal manufacturing .....	—	2	2	e	D	D	D	D	D	D	D	D
3315	Foundries .....	—	2	2	e	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries .....	—	2	2	e	D	D	D	D	D	D	D	D
331511	Iron foundries .....	—	2	2	e	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	—	5	3	326	12 445	290	622	10 975	37 299	30 533	67 778	D

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>JACKSON, MI METROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	-	317	112	10 875	433 509	7 693	15 500	266 637	1 177 854	1 351 284	2 541 850	117 403
325	Chemical manufacturing .....	-	7	1	e	D	D	D	D	D	D	D	D
3255	Paint, coating, and adhesive manufacturing .....	-	3	1	e	D	D	D	D	D	D	D	D
32552	Adhesive manufacturing .....	-	2	1	e	D	D	D	D	D	D	D	D
325520	Adhesive manufacturing .....	-	2	1	e	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	-	16	7	810	29 172	635	1 161	20 918	95 681	158 058	256 468	5 957
3261	Plastics product manufacturing ..	-	14	6	f	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	-	11	4	683	24 912	541	980	18 201	85 750	149 450	237 325	D
326199	All other plastics product manufacturing .....	-	10	4	f	D	D	D	D	D	D	D	5 386
331	Primary metal manufacturing .....	-	'10	'5	'619	'35 551	'411	'937	'22 516	'76 196	'135 526	'211 245	D
3311	Iron and steel mills and ferroalloy manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
33111	Iron and steel mills and ferroalloy manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
331111	Iron and steel mills .....	-	1	1	e	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	2	'130	'41	'3 501	'129 980	'2 694	'5 322	'84 337	'323 578	'180 191	'503 286	'14 272
3325	Hardware manufacturing .....	9	3	3	e	D	D	D	D	D	D	D	D
33251	Hardware manufacturing .....	9	3	3	e	D	D	D	D	D	D	D	D
332510	Hardware manufacturing .....	9	3	3	e	D	D	D	D	D	D	D	D
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	1	78	20	1 599	57 201	1 300	2 435	40 887	114 624	54 349	167 139	7 786
33271	Machine shops .....	1	55	11	904	29 860	719	1 211	20 944	54 988	31 496	86 647	2 688
332710	Machine shops .....	1	55	11	904	29 860	719	1 211	20 944	54 988	31 496	86 647	2 688
33272	Turned product and screw, nut, and bolt manufacturing .....	1	23	9	695	27 341	581	1 224	19 943	59 636	22 853	80 492	5 098
332721	Precision turned product manufacturing .....	1	19	9	674	26 436	565	1 189	19 339	57 505	21 364	76 872	4 989
3328	Coating, engraving, heat treating, and allied activities .....	2	16	5	371	13 846	290	590	9 043	30 037	9 002	39 038	883
33281	Coating, engraving, heat treating, and allied activities ..	2	16	5	371	13 846	290	590	9 043	30 037	9 002	39 038	883
3329	Other fabricated metal product manufacturing .....	-	'13	'7	'716	'28 596	'521	'1 105	'18 054	'108 265	'52 130	'161 752	'3 418
33291	Metal valve manufacturing .....	-	8	6	663	27 143	487	1 047	17 254	105 577	50 501	157 406	3 359
332912	Fluid power valve and hose fitting manufacturing .....	-	7	6	f	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	1	52	22	1 711	72 291	1 184	2 429	43 567	138 073	89 009	228 912	9 449
3331	Agriculture, construction, and mining machinery manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
33311	Agricultural implement manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
333112	Lawn and garden tractor and home lawn and garden equipment manufacturing ..	-	1	1	e	D	D	D	D	D	D	D	D
3335	Metalworking machinery manufacturing .....	2	31	9	516	24 419	359	738	15 793	45 213	17 777	59 487	1 579
33351	Metalworking machinery manufacturing .....	2	31	9	516	24 419	359	738	15 793	45 213	17 777	59 487	1 579
3339	Other general purpose machinery manufacturing .....	3	11	8	528	22 285	357	745	13 083	37 424	22 256	61 202	1 944
33399	All other general purpose machinery manufacturing .....	3	9	7	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	16	12	2 426	104 607	1 667	3 598	64 352	345 905	618 669	973 123	53 874

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>JACKSON, MI METROPOLITAN STATISTICAL AREA—Con.</b>													
336	Transportation equipment manufacturing—Con.												
3363	Motor vehicle parts manufacturing .....	-	16	12	2 426	104 607	1 667	3 598	64 352	345 905	618 669	973 123	53 874
33631	Motor vehicle gasoline engine and engine parts manufacturing .....	-	3	2	e	D	D	D	D	D	D	D	D
336312	Gasoline engine and engine parts manufacturing .....	-	2	2	e	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical and electronic equipment manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
336322	Other motor vehicle electrical and electronic equipment manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
33634	Motor vehicle brake system manufacturing .....	-	2	2	e	D	D	D	D	D	D	D	D
336340	Motor vehicle brake system manufacturing .....	-	2	2	e	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts manufacturing .....	-	4	2	f	D	D	D	D	D	D	D	D
336391	Motor vehicle air-conditioning manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing .....	-	19	5	270	9 529	183	322	5 558	20 654	10 584	31 738	1 785
<b>KALAMAZOO-PORTAGE, MI METROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	1	'489	'167	'20 884	'800 570	'14 279	'28 629	'435 457	'5 035 957	'2 111 176	'7 098 537	'212 166
311	Food manufacturing .....	4	37	13	1 063	33 289	742	1 391	19 984	115 326	105 457	221 259	5 365
3114	Fruit and vegetable preserving and specialty food manufacturing .....	3	10	7	467	11 102	422	833	9 011	38 384	46 497	85 008	2 733
31142	Fruit and vegetable canning, pickling, and drying .....	4	5	4	297	7 487	271	544	6 257	24 653	31 660	56 440	2 310
311421	Fruit and vegetable canning ..	4	5	4	297	7 487	271	544	6 257	24 653	31 660	56 440	2 310
3118	Bakeries and tortilla manufacturing .....	-	17	4	294	7 371	157	271	3 575	32 335	10 910	43 244	940
31181	Bread and bakery product manufacturing .....	-	17	4	294	7 371	157	271	3 575	32 335	10 910	43 244	940
3119	Other food manufacturing .....	9	4	1	e	D	D	D	D	D	D	D	D
312	Beverage and tobacco product manufacturing .....	-	9	5	999	38 840	790	1 458	29 920	435 272	255 304	691 603	28 455
3121	Beverage manufacturing .....	-	9	5	999	38 840	790	1 458	29 920	435 272	255 304	691 603	28 455
31211	Soft drink and ice manufacturing .....	-	4	3	f	D	D	D	D	D	D	D	D
312111	Soft drink manufacturing ....	-	3	3	f	D	D	D	D	D	D	D	D
322	Paper manufacturing .....	-	19	15	2 492	87 691	1 950	3 890	56 478	340 733	339 976	673 897	12 878
3221	Pulp, paper, and paperboard mills .....	-	2	2	e	D	D	D	D	D	D	D	D
32213	Paperboard mills .....	-	2	2	e	D	D	D	D	D	D	D	D
322130	Paperboard mills .....	-	2	2	e	D	D	D	D	D	D	D	D
3222	Converted paper product manufacturing .....	-	17	13	g	D	D	D	D	D	D	D	D
32221	Paperboard container manufacturing .....	-	10	7	1 397	45 072	1 097	2 125	29 737	204 350	178 988	384 414	8 546
322211	Corrugated and solid fiber box manufacturing .....	-	6	4	f	D	D	D	D	D	D	D	D
322215	Nonfolding sanitary food container manufacturing ...	-	2	2	f	D	D	D	D	D	D	D	D
32222	Paper bag and coated and treated paper manufacturing ..	-	2	2	e	D	D	D	D	D	D	D	D
322221	Coated and laminated packaging paper and plastics film manufacturing .	-	1	1	e	D	D	D	D	D	D	D	D
32229	Other converted paper product manufacturing .....	3	5	4	e	D	D	D	D	D	D	D	437
322299	All other converted paper product manufacturing .....	-	4	3	303	8 833	257	470	6 058	15 078	19 647	33 724	D
323	Printing and related support activities .....	4	55	12	1 091	38 955	758	1 388	23 137	108 618	43 771	152 502	4 186
3231	Printing and related support activities .....	4	55	12	1 091	38 955	758	1 388	23 137	108 618	43 771	152 502	4 186
32311	Printing .....	6	48	10	897	27 684	634	1 120	16 748	74 923	36 880	111 869	3 297
323110	Commercial lithographic printing .....	1	22	5	327	10 286	247	382	5 988	21 073	12 835	33 595	799
323118	Blankbook, looseleaf binders, and devices manufacturing .	9	1	1	e	D	D	D	D	D	D	D	D

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E1	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>KALAMAZOO-PORTAGE, MI METROPOLITAN STATISTICAL AREA—Con.</b>													
325	Chemical manufacturing .....	-	27	12	2 556	122 987	1 463	3 294	62 293	2 728 954	386 211	3 085 285	97 121
3254	Pharmaceutical and medicine manufacturing .....	-	4	3	g	D	D	D	D	D	D	D	D
32541	Pharmaceutical and medicine manufacturing .....	-	4	3	g	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation manufacturing .....	-	2	1	g	D	D	D	D	D	D	D	D
3259	Other chemical product and preparation manufacturing .....	1	11	5	e	D	D	D	D	D	D	D	2 944
326	Plastics and rubber products manufacturing .....	-	'27	'18	'2 588	'70 308	'2 032	'4 110	'44 291	'264 793	'167 937	'432 424	'14 715
3261	Plastics product manufacturing ..	-	'25	'17	h	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	-	21	13	2 395	64 800	1 885	3 818	40 698	238 446	145 950	384 895	13 155
326199	All other plastics product manufacturing .....	-	21	13	2 395	64 800	1 885	3 818	40 698	238 446	145 950	384 895	13 155
331	Primary metal manufacturing .....	1	9	4	530	16 968	437	906	13 133	36 562	36 923	73 861	1 601
3313	Alumina and aluminum production and processing .....	-	2	2	e	D	D	D	D	D	D	D	D
33131	Alumina and aluminum production and processing ...	-	2	2	e	D	D	D	D	D	D	D	D
331316	Aluminum extruded product manufacturing .....	-	2	2	e	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	-	100	25	2 301	78 945	1 601	3 301	44 380	178 577	158 633	337 182	14 489
3323	Architectural and structural metals manufacturing .....	2	20	7	250	8 070	168	319	4 228	17 197	9 528	26 897	1 900
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	1	38	6	343	13 347	264	559	9 437	25 593	10 130	35 847	4 564
33271	Machine shops .....	1	32	4	265	10 112	206	440	7 281	18 617	5 047	23 904	D
332710	Machine shops .....	1	32	4	265	10 112	206	440	7 281	18 617	5 047	23 904	D
3328	Coating, engraving, heat treating, and allied activities .....	-	23	4	389	10 046	297	571	6 738	17 907	7 894	25 796	3 167
33281	Coating, engraving, heat treating, and allied activities ..	-	23	4	389	10 046	297	571	6 738	17 907	7 894	25 796	3 167
3329	Other fabricated metal product manufacturing .....	-	10	7	1 243	44 639	821	1 747	22 209	112 448	126 236	238 240	4 539
33291	Metal valve manufacturing ....	-	3	3	481	21 094	308	669	10 368	45 014	29 939	74 490	D
332912	Fluid power valve and hose fitting manufacturing .....	-	2	2	e	D	D	D	D	D	D	D	D
33299	All other fabricated metal product manufacturing .....	-	7	4	762	23 545	513	1 078	11 841	67 434	96 297	163 750	D
332999	All other miscellaneous fabricated metal product manufacturing .....	-	6	4	f	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	1	84	26	2 414	115 328	1 425	2 782	57 382	179 586	119 627	298 151	8 013
3335	Metalworking machinery manufacturing .....	1	36	13	814	38 635	576	1 256	26 377	63 864	26 562	89 759	3 458
33351	Metalworking machinery manufacturing .....	1	36	13	814	38 635	576	1 256	26 377	63 864	26 562	89 759	3 458
333511	Industrial mold manufacturing .....	1	20	9	523	27 311	393	865	19 562	46 900	16 823	63 286	2 390
3339	Other general purpose machinery manufacturing .....	-	26	6	1 152	58 882	584	1 028	23 643	77 094	67 477	143 963	3 959
33391	Pump and compressor manufacturing .....	-	4	1	e	D	D	D	D	D	D	D	D
333911	Pump and pumping equipment manufacturing ..	-	2	1	e	D	D	D	D	D	D	D	D
33399	All other general purpose machinery manufacturing ....	-	14	3	571	30 348	291	563	11 864	33 311	44 671	79 256	2 469
333996	Fluid power pump and motor manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	15	10	1 221	43 679	929	1 876	25 576	107 251	112 914	216 993	8 736
3363	Motor vehicle parts manufacturing .....	-	11	9	1 185	42 820	904	1 837	25 110	105 933	110 845	213 606	D
33631	Motor vehicle gasoline engine and engine parts manufacturing .....	-	2	1	e	D	D	D	D	D	D	D	D
336312	Gasoline engine and engine parts manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
33637	Motor vehicle metal stamping ..	-	4	3	692	22 524	575	1 167	15 001	56 382	52 248	106 073	3 909
336370	Motor vehicle metal stamping .....	-	4	3	692	22 524	575	1 167	15 001	56 382	52 248	106 073	3 909

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>KALAMAZOO-PORTAGE, MI METROPOLITAN STATISTICAL AREA—Con.</b>													
337	Furniture and related product manufacturing .....	—	13	5	886	29 592	616	1 036	15 222	69 048	56 124	120 220	7 038
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	—	8	3	e	D	D	D	D	D	D	D	D
33712	Household and institutional furniture manufacturing .....	—	7	3	e	D	D	D	D	D	D	D	D
337127	Institutional furniture manufacturing .....	—	3	2	e	D	D	D	D	D	D	D	D
3372	Office furniture (including fixtures) manufacturing .....	—	4	2	e	D	D	D	D	D	D	D	D
33721	Office furniture (including fixtures) manufacturing .....	—	4	2	e	D	D	D	D	D	D	D	D
337215	Showcase, partition, shelving, and locker manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing .....	6	46	12	2 083	100 320	1 074	2 321	31 272	413 657	242 081	649 657	7 748
3391	Medical equipment and supplies manufacturing .....	6	21	6	g	D	D	D	D	D	D	D	7 322
33911	Medical equipment and supplies manufacturing .....	6	21	6	g	D	D	D	D	D	D	D	7 322
339113	Surgical appliance and supplies manufacturing .....	6	6	3	g	D	D	D	D	D	D	D	D
3399	Other miscellaneous manufacturing .....	4	25	6	e	D	D	D	D	D	D	D	426
<b>MARINETTE, WI-MI MICROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	—	159	50	8 295	303 149	6 458	12 805	207 704	958 763	898 679	1 865 646	56 562
321	Wood product manufacturing .....	2	38	8	629	16 407	528	965	12 307	29 037	55 558	90 489	3 822
3219	Other wood product manufacturing .....	1	16	2	290	7 088	244	449	5 017	15 166	28 024	43 187	2 578
322	Paper manufacturing .....	—	5	5	1 158	58 178	936	1 815	43 793	303 360	270 565	582 581	9 026
3221	Pulp, paper, and paperboard mills .....	—	5	5	1 158	58 178	936	1 815	43 793	303 360	270 565	582 581	9 026
32212	Paper mills .....	1	4	4	g	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills .....	1	4	4	g	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	—	5	3	281	8 309	232	422	5 184	33 790	7 167	41 038	D
3261	Plastics product manufacturing ..	—	5	3	281	8 309	232	422	5 184	33 790	7 167	41 038	D
331	Primary metal manufacturing .....	—	5	4	g	D	D	D	D	D	D	D	D
3315	Foundries .....	—	5	4	g	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries .....	—	3	3	g	D	D	D	D	D	D	D	D
331511	Iron foundries .....	—	2	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	1	29	5	608	18 677	440	934	12 620	27 735	22 472	48 480	2 563
333	Machinery manufacturing .....	—	18	7	891	25 865	677	1 189	17 366	99 012	101 414	201 638	7 082
3333	Commercial and service industry machinery manufacturing .....	—	2	1	e	D	D	D	D	D	D	D	D
33331	Commercial and service industry machinery manufacturing .....	—	2	1	e	D	D	D	D	D	D	D	D
333319	Other commercial and service industry machinery manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	—	8	7	2 073	78 949	1 652	3 240	52 564	165 534	214 383	373 910	23 062
3363	Motor vehicle parts manufacturing .....	—	5	4	g	D	D	D	D	D	D	D	D
33631	Motor vehicle gasoline engine and engine parts manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
336311	Carburetor, piston, piston ring, and valve manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
3366	Ship and boat building .....	—	2	2	f	D	D	D	D	D	D	D	D
33661	Ship and boat building .....	—	2	2	f	D	D	D	D	D	D	D	D
336611	Ship building and repairing ..	—	1	1	f	D	D	D	D	D	D	D	D

See footnotes at end of table.



**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>MARINETTE, WI-MI MICROPOLITAN STATISTICAL AREA—Con.</b>													
337	Furniture and related product manufacturing .....	1	9	4	f	D	D	D	D	D	D	D	D
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	1	6	2	441	13 099	346	728	9 116	34 090	18 092	52 307	D
33712	Household and institutional furniture manufacturing .....	1	5	2	e	D	D	D	D	D	D	D	D
337125	Household furniture (except wood and metal) manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing .....	—	5	3	f	D	D	D	D	D	D	D	D
3399	Other miscellaneous manufacturing .....	—	5	3	f	D	D	D	D	D	D	D	D
33999	All other miscellaneous manufacturing .....	—	4	2	f	D	D	D	D	D	D	D	D
339999	All other miscellaneous manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
<b>MARQUETTE, MI MICROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	—	47	7	884	27 479	551	1 091	15 097	60 897	80 573	140 690	D
311	Food manufacturing .....	—	9	2	e	D	D	D	D	D	D	D	D
321	Wood product manufacturing .....	—	7	2	e	D	D	D	D	D	D	D	435
<b>MIDLAND, MI MICROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	3	69	20	5 742	284 574	4 265	7 826	206 993	651 105	1 580 566	2 177 629	118 659
323	Printing and related support activities .....	—	13	3	969	28 018	718	806	17 462	58 286	43 205	98 088	D
3231	Printing and related support activities .....	—	13	3	969	28 018	718	806	17 462	58 286	43 205	98 088	D
32311	Printing .....	—	12	3	f	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing .....	—	5	2	f	D	D	D	D	D	D	D	D
323113	Commercial screen printing .....	—	1	1	e	D	D	D	D	D	D	D	D
325	Chemical manufacturing .....	3	6	4	h	D	D	D	D	D	D	D	D
3251	Basic chemical manufacturing .....	4	4	2	h	D	D	D	D	D	D	D	D
32519	Other basic organic chemical manufacturing .....	4	3	2	h	D	D	D	D	D	D	D	D
325199	All other basic organic chemical manufacturing .....	4	3	2	h	D	D	D	D	D	D	D	D
3252	Resin, synthetic rubber, and artificial synthetic fibers and filaments manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
32521	Resin and synthetic rubber manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
325211	Plastics material and resin manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	4	4	3	512	20 900	373	743	14 352	48 164	43 031	90 803	5 523
3261	Plastics product manufacturing .....	5	3	2	e	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	5	2	2	e	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing .....	5	2	2	e	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	—	7	2	318	8 236	274	520	6 228	8 598	16 536	25 359	503
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	—	6	1	e	D	D	D	D	D	D	D	D
33712	Household and institutional furniture manufacturing .....	—	3	1	e	D	D	D	D	D	D	D	D
337127	Institutional furniture manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>MOUNT PLEASANT, MI MICROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	-	57	13	2 606	86 174	1 817	3 333	52 733	204 160	237 686	443 008	14 059
332	Fabricated metal product manufacturing .....	-	10	2	349	10 491	233	431	6 652	29 743	11 838	41 976	D
3323	Architectural and structural metals manufacturing .....	-	2	1	e	D	D	D	D	D	D	D	D
33232	Ornamental and architectural metal products manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
332322	Sheet metal work manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	-	7	4	1 405	51 735	902	1 671	27 638	121 257	102 058	223 937	2 932
3331	Agriculture, construction, and mining machinery manufacturing .....	-	2	1	e	D	D	D	D	D	D	D	D
33312	Construction machinery manufacturing .....	-	2	1	e	D	D	D	D	D	D	D	D
333120	Construction machinery manufacturing .....	-	2	1	e	D	D	D	D	D	D	D	D
3332	Industrial machinery manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
33321	Sawmill and woodworking machinery manufacturing ....	-	1	1	f	D	D	D	D	D	D	D	D
333210	Sawmill and woodworking machinery manufacturing ..	-	1	1	f	D	D	D	D	D	D	D	D
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
333415	Air-conditioning and warm air heating equipment and commercial and industrial refrigeration equipment manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	5	2	566	17 682	452	823	13 933	39 756	109 544	149 530	D
3363	Motor vehicle parts manufacturing .....	-	4	2	f	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical and electronic equipment manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
336322	Other motor vehicle electrical and electronic equipment manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
<b>NILES-BENTON HARBOR, MI METROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	2	370	129	14 392	547 184	10 588	21 584	353 086	1 257 131	1 175 189	2 440 261	78 786
311	Food manufacturing .....	-	16	5	372	9 974	286	522	6 650	46 664	57 816	110 564	3 002
322	Paper manufacturing .....	2	11	7	484	17 963	356	708	10 957	40 138	81 821	123 366	822
3222	Converted paper product manufacturing .....	2	10	6	e	D	D	D	D	D	D	D	822
323	Printing and related support activities .....	-	20	6	939	33 611	749	1 344	25 008	78 989	62 123	142 963	2 682
3231	Printing and related support activities .....	-	20	6	939	33 611	749	1 344	25 008	78 989	62 123	142 963	2 682
32311	Printing .....	-	18	6	f	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing .....	-	8	3	701	27 162	560	975	20 629	65 690	53 182	121 109	1 891
326	Plastics and rubber products manufacturing .....	3	'22	'13	'1 622	'40 843	'1 151	'2 333	'27 012	'96 794	'90 192	'188 311	'8 616
3261	Plastics product manufacturing ..	5	'19	'11	'1 368	'32 455	'959	'1 968	'22 066	'65 481	'55 175	'122 332	D
32619	Other plastics product manufacturing .....	5	'16	'9	'1 310	'31 003	'917	'1 895	'21 266	'62 146	'52 947	'116 766	'7 175
326199	All other plastics product manufacturing .....	'5	'15	'8	g	D	D	D	D	D	D	D	D
3262	Rubber product manufacturing ...	-	3	2	254	8 388	192	365	4 946	31 313	35 017	65 979	D
32629	Other rubber product manufacturing .....	-	3	2	254	8 388	192	365	4 946	31 313	35 017	65 979	D

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>NILES-BENTON HARBOR, MI METROPOLITAN STATISTICAL AREA—Con.</b>													
327	Nonmetallic mineral product manufacturing .....	—	11	4	489	16 158	402	757	11 230	39 333	46 677	86 113	4 232
3272	Glass and glass product manufacturing .....	—	3	3	416	13 386	345	642	9 050	32 224	39 987	72 297	D
32721	Glass and glass product manufacturing .....	—	3	3	416	13 386	345	642	9 050	32 224	39 987	72 297	D
327215	Glass product manufacturing made of purchased glass ..	—	3	3	416	13 386	345	642	9 050	32 224	39 987	72 297	D
331	Primary metal manufacturing .....	1	30	19	1 694	62 086	1 357	2 913	42 632	139 840	137 764	273 266	12 270
3315	Foundries .....	1	26	17	1 388	50 303	1 108	2 371	34 126	106 848	97 000	202 252	D
33152	Nonferrous metal foundries ....	—	22	15	1 305	47 324	1 040	2 233	31 974	99 327	93 174	190 905	7 520
331521	Aluminum die-casting foundries.....	—	15	11	1 039	38 022	831	1 796	26 080	73 476	78 696	151 245	D
332	Fabricated metal product manufacturing .....	1	86	23	1 391	50 911	1 013	2 095	32 123	118 204	92 660	210 130	6 646
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	1	35	8	474	17 083	341	715	11 347	32 306	18 897	50 235	3 131
33271	Machine shops .....	2	25	3	254	8 864	179	349	5 746	16 575	13 424	29 225	619
332710	Machine shops .....	2	25	3	254	8 864	179	349	5 746	16 575	13 424	29 225	619
333	Machinery manufacturing .....	2	'66	'28	'2 220	'98 444	'1 409	'2 816	'52 245	'176 792	'131 151	'311 578	'5 468
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	3	2	2	f	D	D	D	D	D	D	D	D
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	3	2	2	f	D	D	D	D	D	D	D	D
333415	Air-conditioning and warm air heating equipment and commercial and industrial refrigeration equipment manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
3335	Metalworking machinery manufacturing .....	'3	'50	'17	'1 102	'52 455	'789	'1 683	'33 069	'81 530	'45 888	'130 851	'3 214
33351	Metalworking machinery manufacturing .....	'3	'50	'17	'1 102	'52 455	'789	'1 683	'33 069	'81 530	'45 888	'130 851	'3 214
333511	Industrial mold manufacturing .....	—	'23	'9	'569	'26 207	'443	'918	'17 945	'41 790	'16 282	'60 575	'1 996
333514	Special die and tool, die set, jig, and fixture manufacturing .....	3	17	4	271	12 689	203	433	8 332	19 656	9 344	28 960	666
334	Computer and electronic product manufacturing .....	—	8	3	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	—	2	1	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	—	2	1	f	D	D	D	D	D	D	D	D
334516	Analytical laboratory instrument manufacturing ..	—	1	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing .....	—	7	3	405	17 601	349	797	14 359	29 008	24 666	54 015	1 623
3352	Household appliance manufacturing .....	—	3	1	e	D	D	D	D	D	D	D	D
33522	Major appliance manufacturing.	—	2	1	e	D	D	D	D	D	D	D	D
335224	Household laundry equipment manufacturing ..	—	1	1	e	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	2	23	8	2 929	133 180	2 438	5 197	100 985	364 868	342 885	702 618	28 314
3363	Motor vehicle parts manufacturing .....	2	15	6	h	D	D	D	D	D	D	D	D
33634	Motor vehicle brake system manufacturing .....	—	2	1	g	D	D	D	D	D	D	D	D
336340	Motor vehicle brake system manufacturing .....	—	2	1	g	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts manufacturing .....	6	7	3	1 298	45 399	1 089	2 148	33 356	113 486	117 764	230 643	5 415
336399	All other motor vehicle parts manufacturing .....	6	7	3	1 298	45 399	1 089	2 148	33 356	113 486	117 764	230 643	5 415

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E1	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>NILES-BENTON HARBOR, MI METROPOLITAN STATISTICAL AREA—Con.</b>													
337	Furniture and related product manufacturing .....	6	19	5	621	19 349	467	929	11 932	28 507	47 555	75 451	856
3372	Office furniture (including fixtures) manufacturing .....	7	6	4	509	16 118	388	762	10 224	22 085	40 105	61 599	D
33721	Office furniture (including fixtures) manufacturing .....	7	6	4	509	16 118	388	762	10 224	22 085	40 105	61 599	D
337215	Showcase, partition, shelving, and locker manufacturing .....	7	5	4	e	D	D	D	D	D	D	D	D
<b>SAULT STE. MARIE, MI MICROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	6	25	9	f	D	D	D	D	D	D	D	5 887
<b>SOUTH BEND-MISHAWAKA, IN-MI METROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	—	539	197	22 716	857 250	16 130	31 817	526 030	2 940 425	2 618 498	5 653 183	373 556
311	Food manufacturing .....	3	25	9	690	19 400	423	821	9 339	63 527	127 160	196 323	D
321	Wood product manufacturing .....	—	25	7	932	25 896	695	1 354	16 035	64 956	197 952	261 581	2 799
3219	Other wood product manufacturing .....	—	20	4	f	D	D	D	D	D	D	D	963
32191	Millwork .....	—	7	3	f	D	D	D	D	D	D	D	D
321911	Wood window and door manufacturing .....	—	3	2	e	D	D	D	D	D	D	D	D
322	Paper manufacturing .....	—	10	8	586	21 419	449	936	11 984	64 532	92 682	157 314	D
3222	Converted paper product manufacturing .....	—	10	8	586	21 419	449	936	11 984	64 532	92 682	157 314	D
32221	Paperboard container manufacturing .....	—	8	8	f	D	D	D	D	D	D	D	D
322211	Corrugated and solid fiber box manufacturing .....	—	5	5	451	17 748	335	685	9 644	48 168	85 346	133 442	D
323	Printing and related support activities .....	1	42	10	750	30 423	526	1 037	17 380	67 281	44 030	111 599	D
3231	Printing and related support activities .....	1	42	10	750	30 423	526	1 037	17 380	67 281	44 030	111 599	D
32311	Printing .....	1	39	10	728	30 104	519	1 028	17 186	66 519	43 932	110 729	D
323110	Commercial lithographic printing .....	1	20	8	f	D	D	D	D	D	D	D	D
325	Chemical manufacturing .....	—	21	6	1 150	50 829	656	1 731	29 151	487 872	436 305	985 326	12 994
3254	Pharmaceutical and medicine manufacturing .....	—	2	1	f	D	D	D	D	D	D	D	D
32541	Pharmaceutical and medicine manufacturing .....	—	2	1	f	D	D	D	D	D	D	D	D
325413	In-vitro diagnostic substance manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	1	51	31	3 876	93 135	2 680	5 098	66 584	245 065	143 628	391 977	9 206
3261	Plastics product manufacturing ..	1	44	29	3 504	81 544	2 356	4 496	57 066	222 024	120 201	342 865	D
32619	Other plastics product manufacturing .....	1	37	28	3 361	77 275	2 243	4 239	54 099	211 834	110 447	323 083	7 715
326199	All other plastics product manufacturing .....	1	35	27	h	D	D	D	D	D	D	D	D
3262	Rubber product manufacturing ...	1	7	2	372	11 591	324	602	9 518	23 041	23 427	49 112	D
32621	Tire manufacturing .....	—	2	1	e	D	D	D	D	D	D	D	D
326211	Tire manufacturing (except retreading) .....	—	1	1	e	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing .....	—	14	5	341	16 459	254	522	10 752	63 708	32 178	95 143	5 787

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>SOUTH BEND-MISHAWAKA, IN-MI METROPOLITAN STATISTICAL AREA—Con.</b>													
331	Primary metal manufacturing .....	-	22	18	2 153	73 936	1 653	3 298	50 832	169 298	205 077	374 012	12 707
3312	Steel product manufacturing from purchased steel .....	-	4	4	490	15 725	381	737	10 554	41 828	63 642	105 161	1 858
33121	Iron and steel pipe and tube manufacturing from purchased steel .....	-	2	2	e	D	D	D	D	D	D	D	D
331210	Iron and steel pipe and tube manufacturing from purchased steel .....	-	2	2	e	D	D	D	D	D	D	D	D
3313	Alumina and aluminum production and processing .....	-	4	4	e	D	D	D	D	D	D	D	7 957
33131	Alumina and aluminum production and processing ...	-	4	4	e	D	D	D	D	D	D	D	7 957
331316	Aluminum extruded product manufacturing .....	-	3	3	449	12 701	357	751	8 977	20 453	35 158	55 065	D
3314	Nonferrous metal (except aluminum) production and processing .....	3	3	3	e	D	D	D	D	D	D	D	D
33142	Copper rolling, drawing, extruding, and alloying .....	3	3	3	e	D	D	D	D	D	D	D	D
331421	Copper rolling, drawing, and extruding .....	3	3	3	e	D	D	D	D	D	D	D	D
3315	Foundries .....	-	11	7	804	32 101	582	1 143	21 605	79 179	51 353	131 163	D
33152	Nonferrous metal foundries ....	-	7	4	557	24 302	376	730	15 409	65 561	44 330	110 884	D
331521	Aluminum die-casting foundries .....	-	2	2	e	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	-	130	42	4 074	179 766	2 871	5 864	112 461	922 218	357 987	1 288 611	26 655
3321	Forging and stamping .....	-	6	4	301	13 420	230	542	8 888	30 096	29 124	57 592	824
33211	Forging and stamping .....	-	6	4	301	13 420	230	542	8 888	30 096	29 124	57 592	824
3322	Cutlery and handtool manufacturing .....	-	2	1	e	D	D	D	D	D	D	D	D
33221	Cutlery and handtool manufacturing .....	-	2	1	e	D	D	D	D	D	D	D	D
332212	Hand and edge tool manufacturing .....	-	2	1	e	D	D	D	D	D	D	D	D
3323	Architectural and structural metals manufacturing .....	1	23	4	601	21 698	463	932	14 606	44 394	47 150	91 319	2 471
33232	Ornamental and architectural metal products manufacturing .....	1	13	3	360	11 867	287	556	8 527	23 173	22 335	45 248	732
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	2	57	14	850	30 925	641	1 283	20 349	63 911	22 887	87 501	3 745
33271	Machine shops .....	3	43	9	531	19 052	407	806	12 833	38 035	13 910	52 263	2 840
332710	Machine shops .....	3	43	9	531	19 052	407	806	12 833	38 035	13 910	52 263	2 840
33272	Turned product and screw, nut, and bolt manufacturing .....	1	14	5	319	11 873	234	477	7 516	25 876	8 977	35 238	905
332721	Precision turned product manufacturing .....	-	13	5	e	D	D	D	D	D	D	D	D
3328	Coating, engraving, heat treating, and allied activities .....	-	14	7	1 188	65 730	763	1 658	40 967	659 353	190 430	860 224	15 679
33281	Coating, engraving, heat treating, and allied activities ..	-	14	7	1 188	65 730	763	1 658	40 967	659 353	190 430	860 224	15 679
332811	Metal heat treating .....	-	4	3	f	D	D	D	D	D	D	D	D
332812	Metal coating, engraving (except jewelry and silverware), and allied services to manufacturers ..	-	5	1	e	D	D	D	D	D	D	D	D
3329	Other fabricated metal product manufacturing .....	5	16	7	401	14 854	286	480	8 008	31 306	16 881	47 326	829
33291	Metal valve manufacturing ....	6	6	5	259	10 211	175	339	4 815	22 551	11 952	33 767	529
333	Machinery manufacturing .....	2	62	18	1 190	56 231	763	1 559	31 555	85 016	68 867	160 697	D
3335	Metalworking machinery manufacturing .....	-	43	8	635	31 309	408	872	18 551	42 689	24 442	74 153	D
33351	Metalworking machinery manufacturing .....	-	43	8	635	31 309	408	872	18 551	42 689	24 442	74 153	D
333514	Special die and tool, die set, jig, and fixture manufacturing .....	-	13	3	254	13 220	150	330	7 687	19 172	10 249	30 870	D
335	Electrical equipment, appliance, and component manufacturing .....	1	11	5	438	14 820	317	631	6 326	108 408	32 969	140 578	1 755
3359	Other electrical equipment and component manufacturing .....	-	8	3	311	9 400	243	479	4 838	95 764	23 570	119 135	D

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>SOUTH BEND-MISHAWAKA, IN-MI METROPOLITAN STATISTICAL AREA—Con.</b>													
336	Transportation equipment manufacturing .....	-	34	20	h	D	D	D	D	D	D	D	D
3361	Motor vehicle manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
33611	Automobile and light duty motor vehicle manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
336112	Light truck and utility vehicle manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
3362	Motor vehicle body and trailer manufacturing .....	-	8	5	e	D	D	D	D	D	D	D	D
33621	Motor vehicle body and trailer manufacturing .....	-	8	5	e	D	D	D	D	D	D	D	D
336213	Motor home manufacturing .....	-	4	2	e	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	-	18	10	1 882	65 122	1 493	3 224	47 358	174 213	252 410	442 621	D
33631	Motor vehicle gasoline engine and engine parts manufacturing .....	-	3	2	f	D	D	D	D	D	D	D	D
336311	Carburetor, piston, piston ring, and valve manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical and electronic equipment manufacturing .....	4	7	3	361	10 442	256	492	6 298	18 542	29 770	52 521	1 637
336322	Other motor vehicle electrical and electronic equipment manufacturing .....	4	7	3	361	10 442	256	492	6 298	18 542	29 770	52 521	1 637
33639	Other motor vehicle parts manufacturing .....	-	5	4	743	21 837	597	1 230	16 333	61 614	134 343	208 512	D
336399	All other motor vehicle parts manufacturing .....	-	5	4	743	21 837	597	1 230	16 333	61 614	134 343	208 512	D
3364	Aerospace product and parts manufacturing .....	-	7	4	g	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing .....	-	7	4	g	D	D	D	D	D	D	D	D
336413	Other aircraft parts and auxiliary equipment manufacturing .....	-	5	3	f	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	7	24	7	f	D	D	D	D	D	D	D	1 045
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	9	15	1	f	D	D	D	D	D	D	D	D
33712	Household and institutional furniture manufacturing .....	9	8	1	f	D	D	D	D	D	D	D	D
337122	Nonupholstered wood household furniture manufacturing .....	9	6	1	f	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing .....	4	45	7	f	D	D	D	D	D	D	D	D
3399	Other miscellaneous manufacturing .....	2	28	5	e	D	D	D	D	D	D	D	D
<b>STURGIS, MI MICROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	-	157	70	8 977	386 645	6 919	14 613	274 681	1 294 691	1 068 653	2 341 397	100 110
311	Food manufacturing .....	-	7	2	f	D	D	D	D	D	D	D	D
3115	Dairy product manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
311514	Dry, condensed, and evaporated dairy product manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
322	Paper manufacturing .....	-	11	9	811	32 760	639	1 435	23 413	96 938	194 865	290 955	4 644
3222	Converted paper product manufacturing .....	-	9	7	f	D	D	D	D	D	D	D	D
32221	Paperboard container manufacturing .....	-	4	3	301	12 502	233	518	8 412	26 908	50 925	77 186	468
326	Plastics and rubber products manufacturing .....	1	24	15	1 952	65 296	1 668	3 556	48 760	173 941	127 888	299 956	12 219
3261	Plastics product manufacturing .....	-	20	13	1 831	61 557	1 573	3 349	46 337	165 829	121 437	285 391	11 982
32619	Other plastics product manufacturing .....	-	17	12	1 799	60 619	1 546	3 306	45 626	162 817	119 106	280 118	D
326199	All other plastics product manufacturing .....	-	16	11	g	D	D	D	D	D	D	D	11 371
331	Primary metal manufacturing .....	-	5	3	285	12 554	225	448	9 090	36 501	33 163	69 169	D

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>STURGIS, MI MICROPOLITAN STATISTICAL AREA—Con.</b>													
332	Fabricated metal product manufacturing .....	-	35	14	1 075	39 588	769	1 526	23 783	88 110	52 616	140 742	4 417
3329	Other fabricated metal product manufacturing .....	-	9	5	514	20 149	353	665	11 099	49 354	28 719	77 898	2 583
33291	Metal valve manufacturing ....	-	2	2	e	D	D	D	D	D	D	D	D
332911	Industrial valve manufacturing .....	-	2	2	e	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	-	27	11	939	42 024	650	1 380	26 525	81 532	46 791	130 323	6 663
3335	Metalworking machinery manufacturing .....	-	19	8	574	28 045	452	979	21 634	48 631	23 328	75 328	6 109
33351	Metalworking machinery manufacturing .....	-	19	8	574	28 045	452	979	21 634	48 631	23 328	75 328	6 109
333513	Machine tool (metal forming types) manufacturing .....	-	2	1	e	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	15	12	2 957	153 490	2 315	4 925	117 972	295 448	420 229	711 028	59 032
3362	Motor vehicle body and trailer manufacturing .....	1	10	9	g	D	D	D	D	D	D	D	D
33621	Motor vehicle body and trailer manufacturing .....	1	10	9	g	D	D	D	D	D	D	D	D
336211	Motor vehicle body manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
336214	Travel trailer and camper manufacturing .....	2	8	7	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	-	4	3	1 951	120 736	1 522	3 403	95 766	233 162	330 985	561 004	58 215
33635	Motor vehicle transmission and power train parts manufacturing .....	-	2	2	g	D	D	D	D	D	D	D	D
336350	Motor vehicle transmission and power train parts manufacturing .....	-	2	2	g	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>TRAVERSE CITY, MI MICROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	-	271	71	6 937	240 543	4 876	9 580	141 208	624 822	555 378	1 176 694	41 517
311	Food manufacturing .....	-	24	6	1 047	34 112	856	1 574	27 683	162 464	158 774	320 391	5 360
3114	Fruit and vegetable preserving and specialty food manufacturing .....	-	4	4	372	9 844	278	399	6 234	19 402	39 236	57 861	2 134
31142	Fruit and vegetable canning, pickling, and drying .....	-	2	2	e	D	D	D	D	D	D	D	D
3118	Bakeries and tortilla manufacturing .....	-	9	2	f	D	D	D	D	D	D	D	D
31181	Bread and bakery product manufacturing .....	-	9	2	f	D	D	D	D	D	D	D	D
311813	Frozen cakes, pies, and other pastries manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	1	11	3	292	8 459	236	470	5 521	18 091	16 149	34 051	1 667
3261	Plastics product manufacturing ..	1	10	3	e	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	1	43	14	852	29 647	644	1 336	18 957	67 686	41 556	109 787	6 788
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	1	23	9	507	17 695	422	864	12 960	41 658	27 713	69 329	2 343
33271	Machine shops .....	2	16	4	254	8 697	211	420	6 394	17 920	7 043	25 212	819
332710	Machine shops .....	2	16	4	254	8 697	211	420	6 394	17 920	7 043	25 212	819
33272	Turned product and screw, nut, and bolt manufacturing .....	-	7	5	253	8 998	211	444	6 566	23 738	20 670	44 117	1 524
333	Machinery manufacturing .....	1	35	12	1 080	42 155	587	1 190	19 203	94 890	65 778	160 092	2 522
3335	Metalworking machinery manufacturing .....	1	22	5	405	18 085	271	544	10 740	37 935	20 570	59 175	D
33351	Metalworking machinery manufacturing .....	1	22	5	405	18 085	271	544	10 740	37 935	20 570	59 175	D
3339	Other general purpose machinery manufacturing .....	2	5	5	325	9 178	162	343	4 553	25 752	24 064	48 526	D
33399	All other general purpose machinery manufacturing .....	2	2	2	e	D	D	D	D	D	D	D	D

See footnotes at end of table.

**Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.**

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>TRAVERSE CITY, MI MICROPOLITAN STATISTICAL AREA—Con.</b>												
334	Computer and electronic product manufacturing .....	2	11	5	422	15 845	237	343	5 421	18 786	6 419	25 213	583
3344	Semiconductor and other electronic component manufacturing .....	4	5	3	310	10 469	194	310	4 344	9 742	3 464	13 056	317
33441	Semiconductor and other electronic component manufacturing .....	4	5	3	310	10 469	194	310	4 344	9 742	3 464	13 056	317
335	Electrical equipment, appliance, and component manufacturing .....	—	6	3	f	D	D	D	D	D	D	D	D
3359	Other electrical equipment and component manufacturing .....	—	5	3	f	D	D	D	D	D	D	D	D
33593	Wiring device manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
335931	Current-carrying wiring device manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	—	13	6	1 137	37 400	916	1 919	23 997	106 907	166 816	273 051	6 880
3363	Motor vehicle parts manufacturing .....	—	12	6	g	D	D	D	D	D	D	D	D
33633	Motor vehicle steering and suspension component (except spring) manufacturing .....	—	2	1	e	D	D	D	D	D	D	D	D
336330	Motor vehicle steering and suspension component (except spring) manufacturing .....	—	2	1	e	D	D	D	D	D	D	D	D
33637	Motor vehicle metal stamping .....	—	3	2	451	18 576	379	886	15 018	48 367	62 598	111 130	2 405
336370	Motor vehicle metal stamping .....	—	3	2	451	18 576	379	886	15 018	48 367	62 598	111 130	2 405
337	Furniture and related product manufacturing .....	3	20	6	287	9 022	224	469	6 360	16 739	10 102	26 695	1 142
339	Miscellaneous manufacturing .....	1	30	4	304	10 981	191	371	5 233	32 209	13 118	45 071	1 823

<sup>1</sup>Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data 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.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Industries with 250 employees or more are shown. Some statistics are withheld to avoid disclosing data for individual companies. If employment is 250 or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: e–250 to 499 employees; f–500 to 999 employees; g–1,000 to 2,499 employees; h–2,500 to 4,999 employees; i–5,000 to 9,999 employees; j–10,000 to 24,999 employees; k–25,000 to 49,999 employees; l–50,000 to 99,999 employees; m–100,000 employees or more.

<sup>4</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

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 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. Industry Statistics for Counties: 2002**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>ALGER</b>													
31-33	Manufacturing .....	-	9	3	753	27 072	612	1 191	19 818	75 441	86 270	161 956	5 848
<b>ALLEGAN</b>													
31-33	Manufacturing .....	-	208	90	16 614	609 067	11 936	24 747	384 517	2 101 598	2 221 353	4 322 906	92 857
311	Food manufacturing .....	-	18	9	2 118	62 367	1 755	3 599	48 054	412 732	514 984	928 245	7 652
3116	Animal slaughtering and processing .....	-	3	2	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing .....	-	3	2	g	D	D	D	D	D	D	D	D
311611	Animal (except poultry) slaughtering .....	-	1	1	g	D	D	D	D	D	D	D	D
312	Beverage and tobacco product manufacturing .....	-	3	1	f	D	D	D	D	D	D	D	D
3121	Beverage manufacturing .....	-	3	1	f	D	D	D	D	D	D	D	D
31211	Soft drink and ice manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
312111	Soft drink manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
322	Paper manufacturing .....	3	5	3	511	29 468	362	774	19 138	103 772	77 142	180 492	8 889
325	Chemical manufacturing .....	-	5	4	h	D	D	D	D	D	D	D	19 502
3254	Pharmaceutical and medicine manufacturing .....	-	1	1	h	D	D	D	D	D	D	D	D
32541	Pharmaceutical and medicine manufacturing .....	-	1	1	h	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation manufacturing .....	-	1	1	h	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	-	'13	'11	'689	'26 234	'461	'1 029	'12 506	'84 223	'62 483	'142 863	'3 206
3261	Plastics product manufacturing ..	-	'12	'10	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing .....	-	11	4	564	21 314	414	728	12 364	96 453	113 771	209 961	D
332	Fabricated metal product manufacturing .....	-	53	18	1 816	63 774	1 406	2 717	42 417	156 703	68 657	228 154	3 909
3329	Other fabricated metal product manufacturing .....	-	8	4	695	28 124	524	1 002	18 910	65 806	23 909	92 782	1 731
33291	Metal valve manufacturing ....	-	2	2	f	D	D	D	D	D	D	D	D
332912	Fluid power valve and hose fitting manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	3	'39	'11	'724	'29 475	'488	'952	'16 691	'65 152	'45 001	'107 674	'3 325
336	Transportation equipment manufacturing .....	1	14	9	3 561	122 031	2 703	5 511	83 546	304 007	580 593	881 912	12 982
3363	Motor vehicle parts manufacturing .....	-	9	7	h	D	D	D	D	D	D	D	D
33636	Motor vehicle seating and interior trim manufacturing ....	-	3	3	g	D	D	D	D	D	D	D	D
336360	Motor vehicle seating and interior trim manufacturing ..	-	3	3	g	D	D	D	D	D	D	D	D
33637	Motor vehicle metal stamping ..	-	3	3	f	D	D	D	D	D	D	D	3 751
336370	Motor vehicle metal stamping .....	-	3	3	f	D	D	D	D	D	D	D	3 751
3366	Ship and boat building .....	9	2	2	f	D	D	D	D	D	D	D	D
33661	Ship and boat building .....	9	2	2	f	D	D	D	D	D	D	D	D
336612	Boat building .....	9	2	2	f	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	-	11	6	g	D	D	D	D	D	D	D	D
3372	Office furniture (including fixtures) manufacturing .....	-	7	5	g	D	D	D	D	D	D	D	D
33721	Office furniture (including fixtures) manufacturing .....	-	7	5	g	D	D	D	D	D	D	D	D
337214	Office furniture (except wood) manufacturing .....	-	3	3	g	D	D	D	D	D	D	D	D
<b>ALPENA</b>													
31-33	Manufacturing .....	4	52	17	1 893	79 227	1 312	2 560	47 606	224 722	168 523	398 731	9 086
333	Machinery manufacturing .....	-	12	5	764	34 065	456	766	14 417	74 084	72 076	150 305	1 029
<b>ANTRIM</b>													
31-33	Manufacturing .....	2	55	13	1 218	44 226	799	1 668	26 994	103 212	104 656	202 448	5 261
<b>ARENAC</b>													
31-33	Manufacturing .....	2	32	12	576	17 980	465	903	12 632	43 358	43 279	87 433	3 043

See footnotes at end of table.

**Table 3. Industry Statistics for Counties: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>BARRY</b>													
31-33	Manufacturing .....	1	75	15	3 419	121 685	2 664	4 929	82 817	363 253	279 196	643 561	15 295
326	Plastics and rubber products manufacturing .....	—	6	3	610	21 914	466	973	14 481	59 689	29 633	90 255	1 943
335	Electrical equipment, appliance, and component manufacturing .....	—	3	1	g	D	D	D	D	D	D	D	D
3352	Household appliance manufacturing .....	—	2	1	g	D	D	D	D	D	D	D	D
33522	Major appliance manufacturing .....	—	1	1	g	D	D	D	D	D	D	D	D
335228	Other major household appliance manufacturing .....	—	1	1	g	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	—	6	2	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	—	3	2	f	D	D	D	D	D	D	D	D
33631	Motor vehicle gasoline engine and engine parts manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
<b>BAY</b>													
31-33	Manufacturing .....	1	138	41	5 119	245 373	4 028	8 226	180 565	512 860	589 460	1 113 549	43 237
332	Fabricated metal product manufacturing .....	—	28	9	534	20 855	365	728	11 638	34 029	28 102	65 557	3 308
336	Transportation equipment manufacturing .....	—	6	3	1 856	115 684	1 642	3 364	100 421	213 801	260 556	472 106	D
3363	Motor vehicle parts manufacturing .....	—	4	3	g	D	D	D	D	D	D	D	D
33631	Motor vehicle gasoline engine and engine parts manufacturing .....	—	2	2	g	D	D	D	D	D	D	D	D
336312	Gasoline engine and engine parts manufacturing .....	—	2	2	g	D	D	D	D	D	D	D	D
<b>BERRIEN</b>													
31-33	Manufacturing .....	2	370	129	14 392	547 184	10 588	21 584	353 086	1 257 131	1 175 189	2 440 261	78 786
323	Printing and related support activities .....	—	20	6	939	33 611	749	1 344	25 008	78 989	62 123	142 963	2 682
3231	Printing and related support activities .....	—	20	6	939	33 611	749	1 344	25 008	78 989	62 123	142 963	2 682
32311	Printing .....	—	18	6	f	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing .....	—	8	3	701	27 162	560	975	20 629	65 690	53 182	121 109	1 891
326	Plastics and rubber products manufacturing .....	3	'22	'13	'1 622	'40 843	'1 151	'2 333	'27 012	'96 794	'90 192	'188 311	'8 616
3261	Plastics product manufacturing ..	5	'19	'11	'1 368	'32 455	'959	'1 968	'22 066	'65 481	'55 175	'122 332	D
32619	Other plastics product manufacturing .....	5	'16	'9	'1 310	'31 003	'917	'1 895	'21 266	'62 146	'52 947	'116 766	'7 175
326199	All other plastics product manufacturing .....	'5	'15	'8	g	D	D	D	D	D	D	D	D
331	Primary metal manufacturing .....	1	30	19	1 694	62 086	1 357	2 913	42 632	139 840	137 764	273 266	12 270
3315	Foundries .....	1	26	17	1 388	50 303	1 108	2 371	34 126	106 848	97 000	202 252	D
33152	Nonferrous metal foundries .....	—	22	15	1 305	47 324	1 040	2 233	31 974	99 327	93 174	190 905	7 520
331521	Aluminum die-casting foundries .....	—	15	11	1 039	38 022	831	1 796	26 080	73 476	78 696	151 245	D
332	Fabricated metal product manufacturing .....	1	86	23	1 391	50 911	1 013	2 095	32 123	118 204	92 660	210 130	6 646
333	Machinery manufacturing .....	2	'66	'28	'2 220	'98 444	'1 409	'2 816	'52 245	'176 792	'131 151	'311 578	D
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	3	2	2	f	D	D	D	D	D	D	D	D
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	3	2	2	f	D	D	D	D	D	D	D	D
333415	Air-conditioning and warm air heating equipment and commercial and industrial refrigeration equipment manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
3335	Metalworking machinery manufacturing .....	'3	'50	'17	'1 102	'52 455	'789	'1 683	'33 069	'81 530	'45 888	'130 851	'3 214
33351	Metalworking machinery manufacturing .....	'3	'50	'17	'1 102	'52 455	'789	'1 683	'33 069	'81 530	'45 888	'130 851	'3 214
333511	Industrial mold manufacturing .....	—	'23	'9	'569	'26 207	'443	'918	'17 945	'41 790	'16 282	'60 575	'1 996

See footnotes at end of table.

**Table 3. Industry Statistics for Counties: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E1	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>BERRIEN—Con.</b>													
334	Computer and electronic product manufacturing .....	—	8	3	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	—	2	1	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	—	2	1	f	D	D	D	D	D	D	D	D
334516	Analytical laboratory instrument manufacturing ..	—	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	2	23	8	2 929	133 180	2 438	5 197	100 985	364 868	342 885	702 618	28 314
3363	Motor vehicle parts manufacturing .....	2	15	6	h	D	D	D	D	D	D	D	D
33634	Motor vehicle brake system manufacturing .....	—	2	1	g	D	D	D	D	D	D	D	D
336340	Motor vehicle brake system manufacturing .....	—	2	1	g	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts manufacturing .....	6	7	3	1 298	45 399	1 089	2 148	33 356	113 486	117 764	230 643	5 415
336399	All other motor vehicle parts manufacturing .....	6	7	3	1 298	45 399	1 089	2 148	33 356	113 486	117 764	230 643	5 415
337	Furniture and related product manufacturing .....	6	19	5	621	19 349	467	929	11 932	28 507	47 555	75 451	856
3372	Office furniture (including fixtures) manufacturing .....	7	6	4	509	16 118	388	762	10 224	22 085	40 105	61 599	D
33721	Office furniture (including fixtures) manufacturing .....	7	6	4	509	16 118	388	762	10 224	22 085	40 105	61 599	D
<b>BRANCH</b>													
31-33	Manufacturing .....	—	94	43	3 977	134 810	2 976	5 665	88 744	347 710	413 086	758 816	45 051
332	Fabricated metal product manufacturing .....	—	24	8	788	27 319	582	1 112	16 886	76 217	43 930	120 036	2 137
336	Transportation equipment manufacturing .....	—	11	8	1 235	39 907	899	1 557	26 616	89 638	93 841	181 815	31 603
3363	Motor vehicle parts manufacturing .....	—	10	8	g	D	D	D	D	D	D	D	D
<b>CALHOUN</b>													
31-33	Manufacturing .....	—	202	84	13 970	576 027	10 526	21 564	391 087	2 202 344	1 856 185	4 047 350	212 284
311	Food manufacturing .....	—	19	7	1 878	113 450	1 519	3 280	90 058	681 783	324 593	998 606	65 141
3112	Grain and oilseed milling .....	—	4	3	1 479	102 481	1 190	2 584	81 976	615 589	280 670	888 530	D
31123	Breakfast cereal manufacturing .....	—	4	3	1 479	102 481	1 190	2 584	81 976	615 589	280 670	888 530	D
311230	Breakfast cereal manufacturing .....	—	4	3	1 479	102 481	1 190	2 584	81 976	615 589	280 670	888 530	D
322	Paper manufacturing .....	—	5	4	530	24 050	365	830	13 721	75 784	59 656	134 785	5 341
326	Plastics and rubber products manufacturing .....	—	13	8	1 433	54 460	984	2 073	32 950	101 286	107 741	208 365	11 897
3261	Plastics product manufacturing ..	—	12	7	g	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	—	10	6	g	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing .....	—	10	6	g	D	D	D	D	D	D	D	D
331	Primary metal manufacturing .....	7	6	4	566	23 661	348	752	12 918	44 227	41 581	86 196	2 169
332	Fabricated metal product manufacturing .....	1	49	19	1 460	53 210	1 080	2 263	34 771	157 427	126 040	283 001	6 753
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	—	18	8	782	31 515	585	1 269	21 288	95 287	94 460	187 861	5 618
333	Machinery manufacturing .....	—	17	7	759	25 983	489	842	11 914	56 260	43 770	98 954	7 498
3339	Other general purpose machinery manufacturing .....	—	7	5	651	21 226	411	676	8 953	46 191	38 768	83 595	D
335	Electrical equipment, appliance, and component manufacturing .....	—	4	3	1 113	39 784	689	1 522	22 652	84 266	180 895	265 096	D
3359	Other electrical equipment and component manufacturing .....	—	2	2	g	D	D	D	D	D	D	D	D
33593	Wiring device manufacturing ...	—	1	1	f	D	D	D	D	D	D	D	D
335931	Current-carrying wiring device manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D

See footnotes at end of table.

**Table 3. Industry Statistics for Counties: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E1	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>CALHOUN—Con.</b>													
336	Transportation equipment manufacturing .....	—	17	14	4 920	192 391	4 003	7 974	136 137	859 523	882 968	1 742 719	95 316
3363	Motor vehicle parts manufacturing .....	—	15	12	h	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical and electronic equipment manufacturing .....	—	3	3	g	D	D	D	D	D	D	D	D
336321	Vehicular lighting equipment manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
336322	Other motor vehicle electrical and electronic equipment manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
33635	Motor vehicle transmission and power train parts manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
336350	Motor vehicle transmission and power train parts manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts manufacturing .....	—	4	4	g	D	D	D	D	D	D	D	56 200
336391	Motor vehicle air-conditioning manufacturing .....	—	1	1	g	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts manufacturing .....	—	3	3	f	D	D	D	D	D	D	D	D
<b>CASS</b>													
31-33	Manufacturing .....	1	87	29	3 474	109 358	2 715	5 220	70 715	269 418	318 303	584 158	10 488
326	Plastics and rubber products manufacturing .....	—	9	5	572	15 080	472	881	10 279	39 240	29 555	68 243	1 864
3261	Plastics product manufacturing ..	—	8	5	f	D	D	D	D	D	D	D	D
331	Primary metal manufacturing .....	—	6	4	722	27 398	514	971	17 482	71 518	71 499	143 923	1 929
337	Furniture and related product manufacturing .....	9	7	2	f	D	D	D	D	D	D	D	D
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	9	5	1	f	D	D	D	D	D	D	D	D
33712	Household and institutional furniture manufacturing .....	9	3	1	f	D	D	D	D	D	D	D	D
337122	Nonupholstered wood household furniture manufacturing .....	9	3	1	f	D	D	D	D	D	D	D	D
<b>CHARLEVOIX</b>													
31-33	Manufacturing .....	2	58	20	2 535	101 601	1 917	4 037	64 411	343 927	211 914	549 353	22 597
331	Primary metal manufacturing .....	—	3	2	f	D	D	D	D	D	D	D	D
3315	Foundries .....	—	2	2	f	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries .....	—	1	1	f	D	D	D	D	D	D	D	D
331511	Iron foundries .....	—	1	1	f	D	D	D	D	D	D	D	D
<b>CHEBOYGAN</b>													
31-33	Manufacturing .....	1	32	6	677	17 891	534	1 063	10 952	40 376	42 913	83 813	17 293
<b>CHIPPEWA</b>													
31-33	Manufacturing .....	6	25	9	f	D	D	D	D	D	D	D	5 887
<b>CLARE</b>													
31-33	Manufacturing .....	—	27	9	815	27 085	658	1 299	18 705	51 963	75 405	129 119	2 536
<b>CLINTON</b>													
31-33	Manufacturing .....	—	65	19	g	D	D	D	D	D	D	D	15 060
333	Machinery manufacturing .....	1	16	7	f	D	D	D	D	D	D	D	D
3336	Engine, turbine, and power transmission equipment manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
33361	Engine, turbine, and power transmission equipment manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
333613	Mechanical power transmission equipment manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	—	4	2	f	D	D	D	D	D	D	D	1 203
3363	Motor vehicle parts manufacturing .....	—	3	2	f	D	D	D	D	D	D	D	1 203
33639	Other motor vehicle parts manufacturing .....	—	2	1	f	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts manufacturing .....	—	2	1	f	D	D	D	D	D	D	D	D

See footnotes at end of table.

**Table 3. Industry Statistics for Counties: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E1	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>CRAWFORD</b>													
31-33	Manufacturing .....	1	18	9	641	23 165	470	908	15 356	61 047	87 485	147 024	5 918
<b>DELTA</b>													
31-33	Manufacturing .....	-	63	21	2 740	132 649	2 023	4 090	90 824	409 537	339 002	740 715	35 172
322	Paper manufacturing .....	-	2	1	g	D	D	D	D	D	D	D	D
3221	Pulp, paper, and paperboard mills .....	-	1	1	g	D	D	D	D	D	D	D	D
32212	Paper mills .....	-	1	1	g	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills .....	-	1	1	g	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	1	8	6	589	23 915	346	771	11 833	63 621	73 605	136 171	D
<b>DICKINSON</b>													
31-33	Manufacturing .....	-	51	19	g	D	D	D	D	D	D	D	D
322	Paper manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
3221	Pulp, paper, and paperboard mills .....	-	1	1	f	D	D	D	D	D	D	D	D
32212	Paper mills .....	-	1	1	f	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>EATON</b>													
31-33	Manufacturing .....	-	82	31	h	D	D	D	D	D	D	D	19 493
331	Primary metal manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	2	25	5	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	8	4	f	D	D	D	D	D	D	D	D
<b>EMMET</b>													
31-33	Manufacturing .....	-	66	14	1 765	61 025	1 231	2 363	35 321	168 677	135 259	304 104	6 262
<b>GENESEE</b>													
31-33	Manufacturing .....	-	347	98	23 871	1 350 015	19 399	36 700	1 077 780	2 677 385	6 573 440	9 269 929	140 474
322	Paper manufacturing .....	-	6	4	f	D	D	D	D	D	D	D	1 790
3222	Converted paper product manufacturing .....	-	6	4	f	D	D	D	D	D	D	D	1 790
32221	Paperboard container manufacturing .....	-	4	4	f	D	D	D	D	D	D	D	D
322211	Corrugated and solid fiber box manufacturing .....	-	3	3	f	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	1	16	9	1 548	52 401	1 218	2 514	33 673	131 085	117 223	258 296	5 599
3261	Plastics product manufacturing ..	1	16	9	1 548	52 401	1 218	2 514	33 673	131 085	117 223	258 296	5 599
32619	Other plastics product manufacturing .....	2	12	6	g	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing .....	2	12	6	g	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	4	72	21	1 475	50 271	1 103	2 247	32 104	111 595	81 247	192 159	3 753
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	4	29	10	573	23 528	443	929	16 160	53 860	34 101	86 870	1 797
333	Machinery manufacturing .....	1	37	16	933	47 116	650	1 348	33 253	98 369	90 981	186 887	3 801
3335	Metalworking machinery manufacturing .....	2	27	13	630	31 117	431	901	20 715	63 273	43 262	104 008	1 464
33351	Metalworking machinery manufacturing .....	2	27	13	630	31 117	431	901	20 715	63 273	43 262	104 008	1 464
334	Computer and electronic product manufacturing .....	-	12	1	g	D	D	D	D	D	D	D	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	-	5	1	g	D	D	D	D	D	D	D	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	-	5	1	g	D	D	D	D	D	D	D	D
334514	Totalizing fluid meter and counting device manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D

See footnotes at end of table.

**Table 3. Industry Statistics for Counties: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E1	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>GENESEE—Con.</b>													
336	Transportation equipment manufacturing .....	-	29	16	j	D	D	D	D	D	D	D	99 273
3361	Motor vehicle manufacturing .....	-	1	1	h	D	D	D	D	D	D	D	D
33611	Automobile and light duty motor vehicle manufacturing .....	-	1	1	h	D	D	D	D	D	D	D	D
336112	Light truck and utility vehicle manufacturing .....	-	1	1	h	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	-	22	14	j	D	D	D	D	D	D	D	D
33631	Motor vehicle gasoline engine and engine parts manufacturing .....	-	8	6	4 401	268 994	4 041	6 407	242 613	942 026	1 535 864	2 474 845	D
336312	Gasoline engine and engine parts manufacturing .....	-	8	6	4 401	268 994	4 041	6 407	242 613	942 026	1 535 864	2 474 845	D
33635	Motor vehicle transmission and power train parts manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
336350	Motor vehicle transmission and power train parts manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
33636	Motor vehicle seating and interior trim manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
336360	Motor vehicle seating and interior trim manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
33637	Motor vehicle metal stamping .....	-	6	4	h	D	D	D	D	D	D	D	D
336370	Motor vehicle metal stamping .....	-	6	4	h	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing .....	1	36	9	556	16 692	372	692	9 274	35 201	18 955	54 433	834
<b>GLADWIN</b>													
31-33	Manufacturing .....	3	42	12	1 000	34 771	704	1 301	20 426	80 577	58 225	137 293	9 861
<b>GOGEbic</b>													
31-33	Manufacturing .....	3	26	6	602	16 065	516	905	11 895	36 421	27 588	63 565	1 694
<b>GRAND TRAVERSE</b>													
31-33	Manufacturing .....	-	206	56	5 581	200 314	3 845	7 762	115 317	544 825	474 380	1 015 515	29 948
311	Food manufacturing .....	-	14	3	f	D	D	D	D	D	D	D	D
3118	Bakeries and tortilla manufacturing .....	-	7	2	f	D	D	D	D	D	D	D	D
31181	Bread and bakery product manufacturing .....	-	7	2	f	D	D	D	D	D	D	D	D
311813	Frozen cakes, pies, and other pastries manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	2	30	10	f	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	1	30	12	g	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing .....	-	5	2	f	D	D	D	D	D	D	D	D
3359	Other electrical equipment and component manufacturing .....	-	4	2	f	D	D	D	D	D	D	D	D
33593	Wiring device manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
335931	Current-carrying wiring device manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	11	5	g	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	-	11	5	g	D	D	D	D	D	D	D	D
<b>GRATIOT</b>													
31-33	Manufacturing .....	-	60	20	2 626	91 183	2 074	3 788	57 156	211 775	200 311	411 162	14 422
336	Transportation equipment manufacturing .....	-	8	5	1 372	45 508	1 119	1 993	27 800	87 999	103 950	190 152	4 500
3363	Motor vehicle parts manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
33635	Motor vehicle transmission and power train parts manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
336350	Motor vehicle transmission and power train parts manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D

See footnotes at end of table.

**Table 3. Industry Statistics for Counties: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E1	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>HILLSDALE</b>													
31-33	Manufacturing .....	-	102	46	6 076	205 907	4 851	9 895	146 349	525 585	909 755	1 431 367	49 777
326	Plastics and rubber products manufacturing .....	-	9	3	604	17 650	496	931	12 391	45 946	40 517	86 139	D
3261	Plastics product manufacturing ..	-	8	3	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	1	35	18	1 327	40 787	975	1 860	24 457	106 427	73 875	180 262	5 786
336	Transportation equipment manufacturing .....	-	12	10	2 710	93 826	2 301	4 953	73 537	260 024	566 920	826 654	30 257
3363	Motor vehicle parts manufacturing .....	-	12	10	2 710	93 826	2 301	4 953	73 537	260 024	566 920	826 654	30 257
33635	Motor vehicle transmission and power train parts manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
336350	Motor vehicle transmission and power train parts manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts manufacturing .....	-	4	4	1 264	40 894	1 075	2 291	31 898	117 509	416 071	534 877	14 502
336399	All other motor vehicle parts manufacturing .....	-	4	4	1 264	40 894	1 075	2 291	31 898	117 509	416 071	534 877	14 502
<b>HOUGHTON</b>													
31-33	Manufacturing .....	3	46	9	f	D	D	D	D	D	D	D	D
<b>HURON</b>													
31-33	Manufacturing .....	-	78	27	3 487	116 777	2 758	5 471	83 840	363 617	312 515	683 077	29 704
326	Plastics and rubber products manufacturing .....	-	9	8	f	D	D	D	D	D	D	D	D
3261	Plastics product manufacturing ..	-	8	7	848	22 335	652	1 415	15 052	77 931	54 414	132 035	D
32619	Other plastics product manufacturing .....	-	8	7	848	22 335	652	1 415	15 052	77 931	54 414	132 035	D
326199	All other plastics product manufacturing .....	-	8	7	848	22 335	652	1 415	15 052	77 931	54 414	132 035	D
333	Machinery manufacturing .....	-	15	6	562	20 400	409	871	13 878	43 827	17 153	64 659	1 550
336	Transportation equipment manufacturing .....	-	8	6	1 178	43 675	984	1 845	33 158	155 851	176 076	335 246	D
3363	Motor vehicle parts manufacturing .....	-	7	6	g	D	D	D	D	D	D	D	D
33637	Motor vehicle metal stamping ..	-	2	2	f	D	D	D	D	D	D	D	D
336370	Motor vehicle metal stamping .....	-	2	2	f	D	D	D	D	D	D	D	D
<b>INGHAM</b>													
31-33	Manufacturing .....	-	265	99	j	D	D	D	D	D	D	D	149 184
311	Food manufacturing .....	1	31	9	f	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	7	51	11	1 524	57 294	1 057	2 011	32 356	105 644	73 168	179 203	D
3231	Printing and related support activities .....	7	51	11	1 524	57 294	1 057	2 011	32 356	105 644	73 168	179 203	D
32311	Printing .....	7	43	9	g	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing .....	7	23	6	f	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	-	12	6	g	D	D	D	D	D	D	D	D
3261	Plastics product manufacturing ..	-	12	6	g	D	D	D	D	D	D	D	D
32614	Polystyrene foam product manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
326140	Polystyrene foam product manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	-	41	19	g	D	D	D	D	D	D	D	18 255
3321	Forging and stamping.....	-	3	3	f	D	D	D	D	D	D	D	D
33211	Forging and stamping.....	-	3	3	f	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	-	23	10	f	D	D	D	D	D	D	D	D

See footnotes at end of table.

**Table 3. Industry Statistics for Counties: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>INGHAM—Con.</b>													
336	Transportation equipment manufacturing .....	-	24	15	j	D	D	D	D	D	D	D	D
3361	Motor vehicle manufacturing .....	-	4	3	i	D	D	D	D	D	D	D	D
33611	Automobile and light duty motor vehicle manufacturing .....	-	3	3	i	D	D	D	D	D	D	D	D
336111	Automobile manufacturing .....	-	3	3	i	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	-	12	7	h	D	D	D	D	D	D	D	D
33636	Motor vehicle seating and interior trim manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
336360	Motor vehicle seating and interior trim manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
33637	Motor vehicle metal stamping .....	-	6	3	g	D	D	D	D	D	D	D	D
336370	Motor vehicle metal stamping .....	-	6	3	g	D	D	D	D	D	D	D	D
<b>IONIA</b>													
31-33	Manufacturing .....	-	76	30	3 067	107 576	2 343	4 368	60 137	344 720	385 005	720 889	19 015
336	Transportation equipment manufacturing .....	-	6	5	g	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	-	5	5	g	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>IOSCO</b>													
31-33	Manufacturing .....	1	37	9	1 257	39 471	1 006	2 083	28 289	116 257	98 723	215 607	7 633
326	Plastics and rubber products manufacturing .....	-	3	3	f	D	D	D	D	D	D	D	D
3261	Plastics product manufacturing .....	-	3	3	f	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
<b>ISABELLA</b>													
31-33	Manufacturing .....	-	57	13	2 606	86 174	1 817	3 333	52 733	204 160	237 686	443 008	14 059
333	Machinery manufacturing .....	-	7	4	1 405	51 735	902	1 671	27 638	121 257	102 058	223 937	2 932
3332	Industrial machinery manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
33321	Sawmill and woodworking machinery manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
333210	Sawmill and woodworking machinery manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
333415	Air-conditioning and warm air heating equipment and commercial and industrial refrigeration equipment manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	5	2	566	17 682	452	823	13 933	39 756	109 544	149 530	D
3363	Motor vehicle parts manufacturing .....	-	4	2	f	D	D	D	D	D	D	D	D

See footnotes at end of table.



**Table 3. Industry Statistics for Counties: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E1	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>JACKSON</b>													
31-33	Manufacturing .....	-	317	112	10 875	433 509	7 693	15 500	266 637	1 177 854	1 351 284	2 541 850	117 403
326	Plastics and rubber products manufacturing .....	-	16	7	810	29 172	635	1 161	20 918	95 681	158 058	256 468	5 957
3261	Plastics product manufacturing ..	-	14	6	f	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	-	11	4	683	24 912	541	980	18 201	85 750	149 450	237 325	D
326199	All other plastics product manufacturing .....	-	10	4	f	D	D	D	D	D	D	D	5 386
331	Primary metal manufacturing .....	-	'10	'5	'619	'35 551	'411	'937	'22 516	'76 196	'135 526	'211 245	D
332	Fabricated metal product manufacturing .....	2	'130	'41	'3 501	'129 980	'2 694	'5 322	'84 337	'323 578	'180 191	'503 286	'14 272
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	1	78	20	1 599	57 201	1 300	2 435	40 887	114 624	54 349	167 139	7 786
33271	Machine shops .....	1	55	11	904	29 860	719	1 211	20 944	54 988	31 496	86 647	2 688
332710	Machine shops .....	1	55	11	904	29 860	719	1 211	20 944	54 988	31 496	86 647	2 688
33272	Turned product and screw, nut, and bolt manufacturing .....	1	23	9	695	27 341	581	1 224	19 943	59 636	22 853	80 492	5 098
332721	Precision turned product manufacturing .....	1	19	9	674	26 436	565	1 189	19 339	57 505	21 364	76 872	4 989
3329	Other fabricated metal product manufacturing .....	-	'13	'7	'716	'28 596	'521	'1 105	'18 054	'108 265	'52 130	'161 752	'3 418
33291	Metal valve manufacturing ....	-	8	6	663	27 143	487	1 047	17 254	105 577	50 501	157 406	3 359
332912	Fluid power valve and hose fitting manufacturing .....	-	7	6	f	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	1	52	22	1 711	72 291	1 184	2 429	43 567	138 073	89 009	228 912	D
3335	Metalworking machinery manufacturing .....	2	31	9	516	24 419	359	738	15 793	45 213	17 777	59 487	1 579
33351	Metalworking machinery manufacturing .....	2	31	9	516	24 419	359	738	15 793	45 213	17 777	59 487	1 579
3339	Other general purpose machinery manufacturing .....	3	11	8	528	22 285	357	745	13 083	37 424	22 256	61 202	D
33399	All other general purpose machinery manufacturing ....	3	9	7	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	16	12	2 426	104 607	1 667	3 598	64 352	345 905	618 669	973 123	53 874
3363	Motor vehicle parts manufacturing .....	-	16	12	2 426	104 607	1 667	3 598	64 352	345 905	618 669	973 123	53 874
33639	Other motor vehicle parts manufacturing .....	-	4	2	f	D	D	D	D	D	D	D	D
336391	Motor vehicle air-conditioning manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>KALAMAZOO</b>													
31-33	Manufacturing .....	1	'385	'130	'16 675	'662 603	'11 070	'22 218	'346 030	'4 273 710	'1 662 194	'5 893 488	'163 956
311	Food manufacturing .....	5	22	5	544	21 425	297	530	10 649	76 855	58 707	135 920	2 659
322	Paper manufacturing .....	-	17	14	g	D	D	D	D	D	D	D	D
3222	Converted paper product manufacturing .....	-	15	12	g	D	D	D	D	D	D	D	D
32221	Paperboard container manufacturing .....	-	9	7	g	D	D	D	D	D	D	D	D
322211	Corrugated and solid fiber box manufacturing .....	-	5	4	f	D	D	D	D	D	D	D	D
322215	Nonfolding sanitary food container manufacturing ....	-	2	2	f	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	2	50	11	f	D	D	D	D	D	D	D	D
3231	Printing and related support activities .....	2	50	11	f	D	D	D	D	D	D	D	D
32311	Printing .....	3	43	9	f	D	D	D	D	D	D	D	D
325	Chemical manufacturing .....	-	23	10	g	D	D	D	D	D	D	D	D
3254	Pharmaceutical and medicine manufacturing .....	-	3	2	g	D	D	D	D	D	D	D	D
32541	Pharmaceutical and medicine manufacturing .....	-	3	2	g	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation manufacturing .....	-	2	1	g	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	-	'20	'13	g	D	D	D	D	D	D	D	D
3261	Plastics product manufacturing ..	-	'19	'12	g	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	-	16	9	g	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing .....	-	16	9	g	D	D	D	D	D	D	D	D
331	Primary metal manufacturing .....	-	8	3	f	D	D	D	D	D	D	D	D

See footnotes at end of table.

**Table 3. Industry Statistics for Counties: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>KALAMAZOO—Con.</b>													
332	Fabricated metal product manufacturing .....	—	72	19	1 950	68 720	1 319	2 827	37 179	157 243	147 864	305 191	10 712
3329	Other fabricated metal product manufacturing .....	—	8	6	g	D	D	D	D	D	D	D	D
33299	All other fabricated metal product manufacturing .....	—	5	3	f	D	D	D	D	D	D	D	D
332999	All other miscellaneous fabricated metal product manufacturing .....	—	5	3	f	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	1	69	22	2 139	99 976	1 270	2 452	50 135	149 939	109 854	258 178	7 229
3335	Metalworking machinery manufacturing .....	1	33	12	f	D	D	D	D	D	D	D	D
33351	Metalworking machinery manufacturing .....	1	33	12	f	D	D	D	D	D	D	D	D
3339	Other general purpose machinery manufacturing .....	—	21	6	1 125	57 680	566	990	22 891	73 902	66 395	139 614	D
33399	All other general purpose machinery manufacturing .....	—	12	3	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	—	10	8	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	—	9	8	f	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	—	10	4	f	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing .....	6	40	11	g	D	D	D	D	D	D	D	D
3391	Medical equipment and supplies manufacturing .....	6	20	6	g	D	D	D	D	D	D	D	D
33911	Medical equipment and supplies manufacturing .....	6	20	6	g	D	D	D	D	D	D	D	D
339113	Surgical appliance and supplies manufacturing .....	6	5	3	g	D	D	D	D	D	D	D	D
<b>KALKASKA</b>													
31-33	Manufacturing .....	—	17	9	790	24 406	608	1 186	15 696	49 276	36 197	85 524	8 733
<b>KENT</b>													
31-33	Manufacturing .....	1	1 183	507	77 101	3 316 623	53 331	105 074	1 948 482	7 278 648	6 447 924	13 712 152	454 988
311	Food manufacturing .....	3	61	28	h	D	D	D	D	D	D	D	D
3112	Grain and oilseed milling .....	7	4	4	f	D	D	D	D	D	D	D	D
31123	Breakfast cereal manufacturing .....	8	3	3	875	35 979	741	1 598	26 872	249 516	56 228	305 423	D
311230	Breakfast cereal manufacturing .....	8	3	3	875	35 979	741	1 598	26 872	249 516	56 228	305 423	D
3116	Animal slaughtering and processing .....	—	7	4	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing .....	—	7	4	f	D	D	D	D	D	D	D	D
3118	Bakeries and tortilla manufacturing .....	2	27	9	g	D	D	D	D	D	D	D	D
31181	Bread and bakery product manufacturing .....	6	23	8	g	D	D	D	D	D	D	D	D
311812	Commercial bakeries .....	5	7	4	842	30 212	342	677	13 232	87 625	42 739	130 449	1 991
321	Wood product manufacturing .....	3	37	14	1 098	33 870	850	1 676	22 338	78 072	90 346	168 421	4 834
3219	Other wood product manufacturing .....	3	24	8	649	18 412	487	904	11 203	38 336	45 031	82 981	D
322	Paper manufacturing .....	—	25	18	1 293	52 782	967	1 982	30 521	141 093	195 120	332 671	8 392
3222	Converted paper product manufacturing .....	—	24	18	g	D	D	D	D	D	D	D	D
32221	Paperboard container manufacturing .....	—	15	13	1 031	42 443	779	1 558	24 686	85 950	113 151	198 314	6 470
322211	Corrugated and solid fiber box manufacturing .....	—	12	10	751	30 668	542	1 070	15 729	61 910	88 744	150 297	6 037
323	Printing and related support activities .....	—	128	34	2 930	108 696	1 936	3 461	57 268	248 173	159 952	408 087	15 399
3231	Printing and related support activities .....	—	128	34	2 930	108 696	1 936	3 461	57 268	248 173	159 952	408 087	15 399
32311	Printing .....	—	108	30	2 618	100 365	1 710	3 067	52 370	226 149	149 202	374 992	12 475
323110	Commercial lithographic printing .....	—	45	14	1 319	45 637	908	1 528	25 363	111 944	68 648	180 598	6 355

See footnotes at end of table.

**Table 3. Industry Statistics for Counties: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E1	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>KENT—Con.</b>													
325	Chemical manufacturing .....	1	30	11	h	D	D	D	D	D	D	D	D
3256	Soap, cleaning compound, and toilet preparation manufacturing ..	—	9	2	h	D	D	D	D	D	D	D	D
32562	Toilet preparation manufacturing .....	—	2	2	h	D	D	D	D	D	D	D	D
325620	Toilet preparation manufacturing .....	—	2	2	h	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	—	97	64	i	D	D	D	D	D	D	D	D
3261	Plastics product manufacturing ..	1	86	55	8 128	263 613	6 325	12 627	159 889	626 402	580 034	1 214 678	D
32611	Plastics packaging materials and unlaminated film and sheet manufacturing .....	1	7	5	779	23 215	656	1 380	17 032	56 803	60 734	119 079	4 131
32619	Other plastics product manufacturing .....	—	60	38	6 469	213 455	4 968	9 818	124 904	504 448	445 905	954 210	D
326199	All other plastics product manufacturing .....	—	58	36	i	D	D	D	D	D	D	D	D
3262	Rubber product manufacturing ...	—	11	9	g	D	D	D	D	D	D	D	D
32629	Other rubber product manufacturing .....	—	5	5	687	27 642	391	656	9 923	61 513	60 029	120 289	D
327	Nonmetallic mineral product manufacturing .....	—	31	15	f	D	D	D	D	D	D	D	6 836
331	Primary metal manufacturing .....	—	28	20	h	D	D	D	D	D	D	D	D
3315	Foundries .....	—	21	17	g	D	D	D	D	D	D	D	D
33152	Nonferrous metal foundries ....	—	14	13	g	D	D	D	D	D	D	D	D
331521	Aluminum die-casting foundries .....	1	6	6	1 150	41 244	840	1 914	27 055	92 555	97 787	190 918	D
331522	Nonferrous (except aluminum) die-casting foundries .....	—	6	6	677	23 948	523	1 077	15 324	55 282	48 113	104 039	1 667
332	Fabricated metal product manufacturing .....	1	235	82	7 315	261 064	5 699	11 260	171 745	600 241	409 132	1 009 889	36 735
3325	Hardware manufacturing .....	—	9	7	1 826	67 023	1 512	2 819	45 836	147 777	152 062	299 273	9 861
33251	Hardware manufacturing .....	—	9	7	1 826	67 023	1 512	2 819	45 836	147 777	152 062	299 273	9 861
332510	Hardware manufacturing .....	—	9	7	1 826	67 023	1 512	2 819	45 836	147 777	152 062	299 273	9 861
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	1	91	22	1 780	67 864	1 351	2 765	45 832	172 007	84 563	256 475	11 705
33271	Machine shops .....	2	72	10	f	D	D	D	D	D	D	D	D
332710	Machine shops .....	2	72	10	f	D	D	D	D	D	D	D	D
33272	Turned product and screw, nut, and bolt manufacturing .....	1	19	12	f	D	D	D	D	D	D	D	D
332721	Precision turned product manufacturing .....	—	15	9	f	D	D	D	D	D	D	D	D
3328	Coating, engraving, heat treating, and allied activities .....	—	57	26	1 989	62 328	1 601	3 193	42 698	125 611	52 140	177 539	6 681
33281	Coating, engraving, heat treating, and allied activities ..	—	57	26	1 989	62 328	1 601	3 193	42 698	125 611	52 140	177 539	6 681
332812	Metal coating, engraving (except jewelry and silverware), and allied services to manufacturers ..	—	28	12	f	D	D	D	D	D	D	D	D
332813	Electroplating, plating, polishing, anodizing, and coloring .....	—	22	9	f	D	D	D	D	D	D	D	D
3329	Other fabricated metal product manufacturing .....	—	22	9	f	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	—	216	107	14 149	686 915	7 942	15 984	341 468	1 363 022	1 077 545	2 403 216	66 594
3332	Industrial machinery manufacturing .....	1	29	6	f	D	D	D	D	D	D	D	D
3335	Metalworking machinery manufacturing .....	—	124	64	i	D	D	D	D	D	D	D	D
33351	Metalworking machinery manufacturing .....	—	124	64	i	D	D	D	D	D	D	D	D
333511	Industrial mold manufacturing .....	—	32	17	1 570	86 259	1 203	2 523	62 719	168 730	73 892	240 747	9 061
333514	Special die and tool, die set, jig, and fixture manufacturing .....	—	71	41	h	D	D	D	D	D	D	D	D
333515	Cutting tool and machine tool accessory manufacturing ...	—	16	5	f	D	D	D	D	D	D	D	D
3336	Engine, turbine, and power transmission equipment manufacturing .....	—	3	3	g	D	D	D	D	D	D	D	D
33361	Engine, turbine, and power transmission equipment manufacturing .....	—	3	3	g	D	D	D	D	D	D	D	D
333618	Other engine equipment manufacturing .....	—	2	2	g	D	D	D	D	D	D	D	D

See footnotes at end of table.

**Table 3. Industry Statistics for Counties: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E1	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>KENT—Con.</b>													
333	Machinery manufacturing—Con.												
3339	Other general purpose machinery manufacturing .....	—	39	25	i	D	D	D	D	D	D	D	D
33392	Material handling equipment manufacturing .....	—	15	10	h	D	D	D	D	D	D	D	D
333922	Conveyor and conveying equipment manufacturing ..	—	12	8	h	D	D	D	D	D	D	D	D
33399	All other general purpose machinery manufacturing ....	—	23	14	g	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing .....	—	31	13	h	D	D	D	D	D	D	D	D
3343	Audio and video equipment manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
33431	Audio and video equipment manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
334310	Audio and video equipment manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	—	19	7	2 304	140 587	1 415	3 211	82 126	297 041	87 022	380 043	33 569
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	—	19	7	2 304	140 587	1 415	3 211	82 126	297 041	87 022	380 043	33 569
334511	Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing .....	—	4	3	g	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing .....	2	17	5	f	D	D	D	D	D	D	D	D
3359	Other electrical equipment and component manufacturing .....	—	7	3	f	D	D	D	D	D	D	D	2 053
336	Transportation equipment manufacturing .....	—	57	34	j	D	D	D	D	D	D	D	62 450
3363	Motor vehicle parts manufacturing .....	—	43	28	i	D	D	D	D	D	D	D	D
33631	Motor vehicle gasoline engine and engine parts manufacturing .....	—	5	4	g	D	D	D	D	D	D	D	D
336312	Gasoline engine and engine parts manufacturing .....	—	5	4	g	D	D	D	D	D	D	D	D
33636	Motor vehicle seating and interior trim manufacturing ....	1	2	2	f	D	D	D	D	D	D	D	D
336360	Motor vehicle seating and interior trim manufacturing ..	1	2	2	f	D	D	D	D	D	D	D	D
33637	Motor vehicle metal stamping ..	—	18	10	h	D	D	D	D	D	D	D	D
336370	Motor vehicle metal stamping .....	—	18	10	h	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts manufacturing .....	1	14	10	h	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts manufacturing .....	1	13	9	h	D	D	D	D	D	D	D	D
3369	Other transportation equipment manufacturing .....	—	4	1	f	D	D	D	D	D	D	D	D
33699	Other transportation equipment manufacturing .....	—	4	1	f	D	D	D	D	D	D	D	D
336999	All other transportation equipment manufacturing ..	—	2	1	f	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	1	66	26	10 231	502 663	6 161	12 022	225 125	787 618	606 911	1 402 409	61 873
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	—	30	9	1 140	42 780	827	1 766	24 700	80 917	62 274	144 140	D
33712	Household and institutional furniture manufacturing .....	—	20	9	g	D	D	D	D	D	D	D	D
337122	Nonupholstered wood household furniture manufacturing .....	1	13	7	f	D	D	D	D	D	D	D	6 780
3372	Office furniture (including fixtures) manufacturing .....	1	31	14	i	D	D	D	D	D	D	D	D
33721	Office furniture (including fixtures) manufacturing .....	1	31	14	i	D	D	D	D	D	D	D	D
337211	Wood office furniture manufacturing .....	—	6	3	g	D	D	D	D	D	D	D	D
337214	Office furniture (except wood) manufacturing .....	1	8	3	i	D	D	D	D	D	D	D	D

See footnotes at end of table.

**Table 3. Industry Statistics for Counties: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E1	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>KENT—Con.</b>													
339	Miscellaneous manufacturing .....	—	89	21	1 944	75 516	1 371	2 696	44 855	242 975	103 680	347 879	8 733
3391	Medical equipment and supplies manufacturing .....	—	37	11	1 207	47 516	821	1 636	26 836	192 979	49 609	243 440	6 328
33911	Medical equipment and supplies manufacturing .....	—	37	11	1 207	47 516	821	1 636	26 836	192 979	49 609	243 440	6 328
3399	Other miscellaneous manufacturing .....	1	52	10	737	28 000	550	1 060	18 019	49 996	54 071	104 439	2 405
<b>LAPEER</b>													
31-33	Manufacturing .....	—	133	39	5 276	187 935	3 896	8 101	116 253	516 432	490 224	1 007 045	45 948
326	Plastics and rubber products manufacturing .....	—	11	8	1 511	51 027	1 196	2 632	32 699	129 504	121 728	253 020	4 387
3261	Plastics product manufacturing ..	—	10	8	g	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	—	8	7	1 457	49 151	1 158	2 559	31 696	125 612	117 398	244 781	4 312
326199	All other plastics product manufacturing .....	—	7	6	g	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	—	38	12	946	37 309	632	1 369	22 297	104 268	104 551	208 144	6 871
336	Transportation equipment manufacturing .....	—	17	10	1 768	66 930	1 283	2 519	39 997	184 349	143 252	326 227	28 777
3363	Motor vehicle parts manufacturing .....	—	13	9	g	D	D	D	D	D	D	D	D
33637	Motor vehicle metal stamping ..	—	5	4	739	30 886	470	997	13 310	66 170	70 959	136 197	D
336370	Motor vehicle metal stamping .....	—	5	4	739	30 886	470	997	13 310	66 170	70 959	136 197	D
<b>LENAWEE</b>													
31-33	Manufacturing .....	—	170	64	8 044	320 334	5 954	11 721	209 024	980 385	999 238	1 982 032	62 371
325	Chemical manufacturing .....	—	10	8	901	52 365	415	867	18 689	173 952	166 200	335 030	16 102
3251	Basic chemical manufacturing ...	—	4	3	569	35 013	229	432	11 116	121 531	135 047	252 316	10 052
32519	Other basic organic chemical manufacturing .....	—	3	2	f	D	D	D	D	D	D	D	D
325199	All other basic organic chemical manufacturing .....	—	3	2	f	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	—	19	7	1 076	45 669	840	1 707	34 379	173 971	181 657	355 580	6 044
3261	Plastics product manufacturing ..	—	18	7	g	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	—	12	5	923	39 772	725	1 489	30 633	158 509	170 271	328 879	5 235
326199	All other plastics product manufacturing .....	—	12	5	923	39 772	725	1 489	30 633	158 509	170 271	328 879	5 235
327	Nonmetallic mineral product manufacturing .....	—	10	4	552	20 987	474	827	16 614	54 415	77 910	132 030	1 164
332	Fabricated metal product manufacturing .....	—	32	9	779	30 267	569	1 192	19 632	62 534	46 690	109 177	7 930
333	Machinery manufacturing .....	—	33	9	1 146	43 925	904	1 743	31 000	73 120	89 571	169 714	3 074
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	—	5	3	762	26 986	643	1 248	21 201	42 997	70 044	120 724	D
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	—	5	3	762	26 986	643	1 248	21 201	42 997	70 044	120 724	D
333415	Air-conditioning and warm air heating equipment and commercial and industrial refrigeration equipment manufacturing .....	—	4	2	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	—	10	7	1 061	38 697	800	1 654	27 303	161 900	173 006	333 580	11 926
3363	Motor vehicle parts manufacturing .....	—	8	7	g	D	D	D	D	D	D	D	D
33637	Motor vehicle metal stamping ..	—	3	3	f	D	D	D	D	D	D	D	D
336370	Motor vehicle metal stamping .....	—	3	3	f	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	—	7	2	g	D	D	D	D	D	D	D	D
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	—	5	1	f	D	D	D	D	D	D	D	D
33711	Wood kitchen cabinet and countertop manufacturing ....	—	3	1	f	D	D	D	D	D	D	D	D
337110	Wood kitchen cabinet and countertop manufacturing ..	—	3	1	f	D	D	D	D	D	D	D	D

See footnotes at end of table.

**Table 3. Industry Statistics for Counties: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E1	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>LIVINGSTON</b>													
31-33	Manufacturing .....	'1	272	101	10 236	410 531	6 918	14 013	251 367	'1 364 089	'1 518 013	'2 884 263	89 636
326	Plastics and rubber products manufacturing .....	1	18	10	1 172	39 410	880	1 627	23 995	144 055	108 137	252 235	6 040
3261	Plastics product manufacturing ..	-	16	9	g	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	-	13	9	1 027	34 675	774	1 401	21 455	131 025	94 466	225 551	5 495
326199	All other plastics product manufacturing .....	-	12	9	g	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	2	59	23	2 170	77 356	1 633	3 367	52 946	'206 355	'159 330	'364 070	12 197
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	'5	36	11	1 100	40 350	911	1 891	31 804	'88 338	'80 136	'167 992	8 767
33271	Machine shops .....	6	30	7	811	31 650	658	1 370	24 544	68 167	51 702	120 291	D
332710	Machine shops .....	6	30	7	811	31 650	658	1 370	24 544	68 167	51 702	120 291	D
333	Machinery manufacturing .....	2	42	16	909	39 998	592	1 144	23 109	80 383	43 200	123 183	D
336	Transportation equipment manufacturing .....	-	27	18	3 633	163 428	2 498	5 522	112 527	563 949	796 584	1 368 841	50 278
3363	Motor vehicle parts manufacturing .....	-	26	18	h	D	D	D	D	D	D	D	D
33634	Motor vehicle brake system manufacturing .....	-	4	3	f	D	D	D	D	D	D	D	D
336340	Motor vehicle brake system manufacturing .....	-	4	3	f	D	D	D	D	D	D	D	D
33636	Motor vehicle seating and interior trim manufacturing ....	-	2	2	f	D	D	D	D	D	D	D	D
336360	Motor vehicle seating and interior trim manufacturing ..	-	2	2	f	D	D	D	D	D	D	D	D
33637	Motor vehicle metal stamping ..	1	9	6	745	38 587	533	1 129	31 891	91 184	138 230	229 231	8 607
336370	Motor vehicle metal stamping ..	1	9	6	745	38 587	533	1 129	31 891	91 184	138 230	229 231	8 607
33639	Other motor vehicle parts manufacturing .....	-	6	4	f	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts manufacturing .....	-	6	4	f	D	D	D	D	D	D	D	D
<b>MACOMB</b>													
31-33	Manufacturing .....	-	'1 959	637	'84 332	'4 074 359	'65 215	'129 916	'2 958 980	'9 707 782	'15 758 193	'25 485 976	'617 353
311	Food manufacturing .....	4	54	9	582	15 993	378	746	9 551	37 382	43 032	82 029	2 385
314	Textile product mills .....	-	26	2	589	16 699	329	612	6 551	29 387	20 293	50 501	D
3149	Other textile product mills .....	-	15	2	f	D	D	D	D	D	D	D	D
321	Wood product manufacturing .....	1	26	8	533	16 958	362	696	8 941	41 174	35 280	77 851	1 189
323	Printing and related support activities .....	2	93	14	1 442	61 054	919	1 737	29 645	123 176	73 144	195 614	4 200
3231	Printing and related support activities .....	2	93	14	1 442	61 054	919	1 737	29 645	123 176	73 144	195 614	4 200
32311	Printing .....	2	84	13	g	D	D	D	D	D	D	D	4 124
323110	Commercial lithographic printing .....	1	41	8	939	42 200	584	1 103	19 776	76 791	51 416	127 154	3 063
325	Chemical manufacturing .....	1	23	13	1 591	78 884	1 017	2 103	43 555	483 874	314 568	818 296	14 761
3255	Paint, coating, and adhesive manufacturing .....	1	10	5	g	D	D	D	D	D	D	D	D
32551	Paint and coating manufacturing .....	-	7	2	f	D	D	D	D	D	D	D	D
325510	Paint and coating manufacturing .....	-	7	2	f	D	D	D	D	D	D	D	D
32552	Adhesive manufacturing .....	6	3	3	f	D	D	D	D	D	D	D	D
325520	Adhesive manufacturing ....	6	3	3	f	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	-	'91	57	'8 236	'272 229	'6 230	'12 421	'163 973	'768 884	'501 120	'1 266 572	'68 737
3261	Plastics product manufacturing ..	-	'83	52	'7 693	'256 628	'5 828	'11 805	'156 234	'722 961	'460 292	'1 180 181	D
32619	Other plastics product manufacturing .....	-	'70	46	'7 092	'237 565	'5 348	'10 856	'143 623	'669 801	'408 226	'1 075 725	'48 620
326199	All other plastics product manufacturing .....	-	'68	46	i	D	D	D	D	D	D	D	D
3262	Rubber product manufacturing ...	-	8	5	543	15 601	402	616	7 739	45 923	40 828	86 391	D
32629	Other rubber product manufacturing .....	-	7	5	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing .....	2	40	13	1 344	49 532	1 118	1 254	36 672	89 868	100 867	185 551	3 374
3273	Cement and concrete product manufacturing .....	3	22	9	1 135	42 043	973	946	32 669	70 452	80 878	145 696	2 150
32739	Other concrete product manufacturing .....	-	6	2	f	D	D	D	D	D	D	D	142
327390	Other concrete product manufacturing .....	-	6	2	f	D	D	D	D	D	D	D	142

See footnotes at end of table.

**Table 3. Industry Statistics for Counties: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E1	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>MACOMB—Con.</b>													
331	Primary metal manufacturing .....	2	31	14	1 096	39 284	957	1 969	31 398	96 780	96 065	193 675	3 408
3312	Steel product manufacturing from purchased steel .....	1	6	6	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	2	588	151	12 222	471 218	9 005	18 375	312 762	1 029 171	679 282	1 716 368	101 349
3323	Architectural and structural metals manufacturing .....	1	76	19	1 694	58 723	1 015	2 128	37 176	118 286	108 819	233 121	16 481
33231	Plate work and fabricated structural product manufacturing .....	—	44	13	1 347	46 452	792	1 664	30 548	90 728	90 965	187 452	D
332313	Plate work manufacturing ...	—	14	7	791	24 328	425	937	17 907	44 545	48 854	94 834	D
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	3	289	60	5 337	211 246	3 953	8 023	139 138	472 415	354 908	829 353	63 857
33271	Machine shops .....	2	240	35	3 323	126 831	2 442	4 795	81 786	254 048	150 667	406 415	51 442
332710	Machine shops .....	2	240	35	3 323	126 831	2 442	4 795	81 786	254 048	150 667	406 415	51 442
33272	Turned product and screw, nut, and bolt manufacturing .....	3	49	25	2 014	84 415	1 511	3 228	57 352	218 367	204 241	422 938	12 415
332721	Precision turned product manufacturing .....	2	33	17	1 226	46 007	941	2 038	30 404	102 949	43 539	147 746	6 354
332722	Bolt, nut, screw, rivet, and washer manufacturing .....	4	16	8	788	38 408	570	1 190	26 948	115 418	160 702	275 192	6 061
3328	Coating, engraving, heat treating, and allied activities .....	1	82	35	2 458	83 712	1 937	3 926	56 888	196 549	57 099	252 510	10 721
33281	Coating, engraving, heat treating, and allied activities ..	1	82	35	2 458	83 712	1 937	3 926	56 888	196 549	57 099	252 510	10 721
332812	Metal coating, engraving (except jewelry and silverware), and allied services to manufacturers ..	—	35	16	1 005	32 479	770	1 470	20 947	76 676	21 425	96 837	2 849
332813	Electroplating, plating, polishing, anodizing, and coloring .....	—	22	9	f	D	D	D	D	D	D	D	2 147
3329	Other fabricated metal product manufacturing .....	1	71	24	1 859	81 157	1 442	2 931	56 267	160 062	88 763	248 381	D
33299	All other fabricated metal product manufacturing .....	1	64	23	1 759	77 452	1 373	2 793	54 411	152 878	85 065	237 524	D
332997	Industrial pattern manufacturing .....	—	8	4	f	D	D	D	D	D	D	D	D
332999	All other miscellaneous fabricated metal product manufacturing .....	1	43	10	695	24 390	528	997	15 317	57 197	26 393	82 605	D
333	Machinery manufacturing .....	1	'532	188	'13 813	'693 031	'9 003	'18 741	'409 573	'1 562 486	'885 494	'2 519 052	'54 831
3332	Industrial machinery manufacturing .....	1	'31	8	'501	'27 121	'258	'528	'11 082	'55 391	'33 256	'86 983	D
3335	Metalworking machinery manufacturing .....	2	401	137	10 255	513 038	6 764	14 144	312 160	1 039 451	566 150	1 675 231	39 952
33351	Metalworking machinery manufacturing .....	2	401	137	10 255	513 038	6 764	14 144	312 160	1 039 451	566 150	1 675 231	39 952
333511	Industrial mold manufacturing .....	2	76	25	1 651	85 793	1 203	2 553	58 555	161 220	54 807	219 380	5 124
333512	Machine tool (metal cutting types) manufacturing .....	—	26	15	f	D	D	D	D	D	D	D	D
333514	Special die and tool, die set, jig, and fixture manufacturing .....	—	183	56	4 203	225 504	2 812	6 094	143 249	377 339	207 757	616 228	19 322
333515	Cutting tool and machine tool accessory manufacturing ...	1	82	25	1 647	70 023	1 129	2 224	43 525	166 474	85 437	255 929	7 709
333518	Other metalworking machinery manufacturing ..	3	26	14	1 901	91 859	1 051	2 193	45 440	273 818	163 280	460 252	5 142
3339	Other general purpose machinery manufacturing .....	1	68	28	2 233	117 251	1 431	2 945	66 091	247 029	169 800	415 344	D
33392	Material handling equipment manufacturing .....	—	18	8	f	D	D	D	D	D	D	D	D
333922	Conveyor and conveying equipment manufacturing ..	—	11	5	528	33 047	325	705	18 414	69 742	38 356	111 686	D
33399	All other general purpose machinery manufacturing ....	2	47	19	1 495	74 978	1 017	2 062	44 656	159 796	117 113	271 395	D
333992	Welding and soldering equipment manufacturing ..	2	14	11	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing .....	2	30	10	970	40 156	666	1 061	20 749	74 570	57 060	131 675	1 977
3353	Electrical equipment manufacturing .....	1	18	6	719	31 077	464	596	14 919	54 392	40 684	95 102	1 054
33531	Electrical equipment manufacturing .....	1	18	6	719	31 077	464	596	14 919	54 392	40 684	95 102	1 054
335314	Relay and industrial control manufacturing .....	1	11	6	663	28 948	420	505	13 397	48 164	35 215	83 405	543

See footnotes at end of table.

**Table 3. Industry Statistics for Counties: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E1	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>MACOMB—Con.</b>													
336	Transportation equipment manufacturing .....	-	183	114	38 319	2 195 258	32 720	65 568	1 812 953	5 108 456	12 731 687	17 767 491	349 913
3361	Motor vehicle manufacturing .....	-	3	3	i	D	D	D	D	D	D	D	D
33611	Automobile and light duty motor vehicle manufacturing .....	-	3	3	i	D	D	D	D	D	D	D	D
336111	Automobile manufacturing .....	-	2	2	h	D	D	D	D	D	D	D	D
336112	Light truck and utility vehicle manufacturing .....	-	1	1	h	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	-	159	103	k	D	D	D	D	D	D	D	D
33631	Motor vehicle gasoline engine and engine parts manufacturing .....	-	9	3	g	D	D	D	D	D	D	D	D
336312	Gasoline engine and engine parts manufacturing .....	-	9	3	g	D	D	D	D	D	D	D	D
33633	Motor vehicle steering and suspension component (except spring) manufacturing .....	-	3	3	f	D	D	D	D	D	D	D	3 017
336330	Motor vehicle steering and suspension component (except spring) manufacturing .....	-	3	3	f	D	D	D	D	D	D	D	3 017
33635	Motor vehicle transmission and power train parts manufacturing .....	-	13	12	i	D	D	D	D	D	D	D	D
336350	Motor vehicle transmission and power train parts manufacturing .....	-	13	12	i	D	D	D	D	D	D	D	D
33636	Motor vehicle seating and interior trim manufacturing .....	-	8	6	h	D	D	D	D	D	D	D	D
336360	Motor vehicle seating and interior trim manufacturing .....	-	8	6	h	D	D	D	D	D	D	D	D
33637	Motor vehicle metal stamping .....	1	77	52	11 168	627 615	8 968	18 479	488 218	1 483 201	1 408 183	2 880 443	69 076
336370	Motor vehicle metal stamping .....	1	77	52	11 168	627 615	8 968	18 479	488 218	1 483 201	1 408 183	2 880 443	69 076
33639	Other motor vehicle parts manufacturing .....	-	41	23	3 777	144 227	3 000	5 094	95 887	449 681	352 626	794 556	19 584
336399	All other motor vehicle parts manufacturing .....	-	41	23	3 777	144 227	3 000	5 094	95 887	449 681	352 626	794 556	19 584
337	Furniture and related product manufacturing .....	-	54	13	1 171	37 517	887	1 537	25 054	71 596	51 819	122 911	1 634
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	1	43	9	648	18 722	512	993	13 175	33 340	25 585	60 818	D
339	Miscellaneous manufacturing .....	2	103	16	1 297	43 314	888	1 596	25 564	87 272	49 257	135 128	4 184
3399	Other miscellaneous manufacturing .....	3	69	10	820	27 820	552	1 030	16 082	53 390	35 265	87 579	1 295
33999	All other miscellaneous manufacturing .....	1	41	6	531	16 218	374	674	9 078	32 427	21 574	53 065	587
<b>MANISTEE</b>													
31-33	Manufacturing .....	3	30	10	993	43 779	744	1 475	30 307	158 315	89 607	247 022	14 610
<b>MARQUETTE</b>													
31-33	Manufacturing .....	-	47	7	884	27 479	551	1 091	15 097	60 897	80 573	140 690	D
<b>MASON</b>													
31-33	Manufacturing .....	-	42	19	2 484	82 774	1 919	3 863	55 027	236 102	184 711	411 713	10 270
332	Fabricated metal product manufacturing .....	1	10	5	775	22 396	611	1 300	14 912	45 898	38 790	84 238	1 485
<b>MECOSTA</b>													
31-33	Manufacturing .....	-	34	15	1 770	53 749	1 490	2 897	40 659	195 274	224 238	418 818	11 652
332	Fabricated metal product manufacturing .....	-	6	4	535	20 701	414	835	15 304	66 588	76 647	142 770	6 380
<b>MENOMINEE</b>													
31-33	Manufacturing .....	1	62	22	2 462	77 969	1 915	3 779	53 559	246 803	228 298	481 981	13 284
333	Machinery manufacturing .....	-	6	3	563	14 003	463	872	10 250	79 579	85 399	167 321	D

See footnotes at end of table.



**Table 3. Industry Statistics for Counties: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E1	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>MIDLAND</b>													
31-33	Manufacturing .....	3	69	20	5 742	284 574	4 265	7 826	206 993	651 105	1 580 566	2 177 629	D
323	Printing and related support activities .....	-	13	3	969	28 018	718	806	17 462	58 286	43 205	98 088	D
3231	Printing and related support activities .....	-	13	3	969	28 018	718	806	17 462	58 286	43 205	98 088	D
32311	Printing .....	-	12	3	f	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing .....	-	5	2	f	D	D	D	D	D	D	D	D
325	Chemical manufacturing .....	3	6	4	h	D	D	D	D	D	D	D	D
3251	Basic chemical manufacturing ...	4	4	2	h	D	D	D	D	D	D	D	D
32519	Other basic organic chemical manufacturing .....	4	3	2	h	D	D	D	D	D	D	D	D
325199	All other basic organic chemical manufacturing ....	4	3	2	h	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	4	4	3	512	20 900	373	743	14 352	48 164	43 031	90 803	5 523
<b>MONROE</b>													
31-33	Manufacturing .....	-	151	56	9 025	431 357	7 079	11 751	305 472	1 142 085	2 056 368	3 191 278	136 842
322	Paper manufacturing .....	5	8	6	747	23 043	566	987	13 214	55 372	54 333	109 942	1 966
3222	Converted paper product manufacturing .....	5	8	6	747	23 043	566	987	13 214	55 372	54 333	109 942	1 966
32221	Paperboard container manufacturing .....	5	8	6	747	23 043	566	987	13 214	55 372	54 333	109 942	1 966
322211	Corrugated and solid fiber box manufacturing .....	5	7	5	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing .....	-	14	6	f	D	D	D	D	D	D	D	D
3272	Glass and glass product manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
32721	Glass and glass product manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
327211	Flat glass manufacturing ....	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	1	42	16	1 592	66 809	1 210	2 282	43 850	166 587	166 004	328 638	8 026
3328	Coating, engraving, heat treating, and allied activities .....	-	8	6	674	23 154	558	878	16 148	66 764	32 830	100 392	1 559
33281	Coating, engraving, heat treating, and allied activities ..	-	8	6	674	23 154	558	878	16 148	66 764	32 830	100 392	1 559
336	Transportation equipment manufacturing .....	-	12	8	h	D	D	D	D	D	D	D	66 047
3363	Motor vehicle parts manufacturing .....	-	10	8	h	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts manufacturing .....	-	6	6	h	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts manufacturing .....	-	6	6	h	D	D	D	D	D	D	D	D
<b>MONTCALM</b>													
31-33	Manufacturing .....	-	80	25	5 199	172 162	4 500	8 606	138 201	433 588	560 964	1 004 250	28 915
332	Fabricated metal product manufacturing .....	-	14	5	743	24 279	561	1 133	16 481	52 073	35 552	96 241	1 728
335	Electrical equipment, appliance, and component manufacturing .....	-	3	2	g	D	D	D	D	D	D	D	D
3352	Household appliance manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
33522	Major appliance manufacturing, Household refrigerator and home freezer .....	-	1	1	g	D	D	D	D	D	D	D	D
335222	Household refrigerator and home freezer manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	4	2	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D

See footnotes at end of table.

**Table 3. Industry Statistics for Counties: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E1	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>MUSKEGON</b>													
31-33	Manufacturing .....	-	332	124	14 344	575 192	10 566	22 301	368 164	1 554 642	1 285 184	2 852 258	96 486
322	Paper manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
3221	Pulp, paper, and paperboard mills .....	-	1	1	f	D	D	D	D	D	D	D	D
32212	Paper mills .....	-	1	1	f	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills .....	-	1	1	f	D	D	D	D	D	D	D	D
325	Chemical manufacturing .....	-	10	5	652	30 120	369	655	14 266	116 793	120 291	239 227	11 331
3251	Basic chemical manufacturing ...	-	4	3	f	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	-	11	5	f	D	D	D	D	D	D	D	4 756
3261	Plastics product manufacturing ..	-	10	5	f	D	D	D	D	D	D	D	4 756
32619	Other plastics product manufacturing .....	-	9	5	718	17 088	631	1 437	13 395	40 088	48 469	87 945	D
326199	All other plastics product manufacturing .....	-	9	5	718	17 088	631	1 437	13 395	40 088	48 469	87 945	D
331	Primary metal manufacturing .....	-	37	28	3 903	143 899	3 124	7 018	103 672	441 267	298 508	741 424	21 912
3315	Foundries .....	-	30	23	3 528	128 746	2 880	6 534	94 639	400 151	198 632	595 607	15 268
33151	Ferrous metal foundries .....	-	11	11	2 353	89 278	1 983	4 604	68 685	272 979	135 774	407 113	11 573
331511	Iron foundries .....	-	4	4	707	33 711	579	1 311	24 998	73 237	36 731	109 709	2 471
331512	Steel investment foundries ...	-	4	4	g	D	D	D	D	D	D	D	8 076
33152	Nonferrous metal foundries ...	-	19	12	1 175	39 468	897	1 930	25 954	127 172	62 858	188 494	3 695
332	Fabricated metal product manufacturing .....	-	98	29	2 277	91 054	1 588	3 240	55 302	204 929	140 086	345 202	D
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	1	42	9	639	23 911	493	917	15 946	49 122	27 105	75 959	D
33271	Machine shops .....	1	39	8	561	21 353	418	776	13 535	44 708	24 992	69 358	2 332
332710	Machine shops .....	1	39	8	561	21 353	418	776	13 535	44 708	24 992	69 358	2 332
3328	Coating, engraving, heat treating, and allied activities .....	-	14	6	553	22 894	345	755	13 808	56 147	48 759	104 433	2 472
33281	Coating, engraving, heat treating, and allied activities ..	-	14	6	553	22 894	345	755	13 808	56 147	48 759	104 433	2 472
333	Machinery manufacturing .....	1	60	17	1 804	85 836	1 109	2 364	40 199	169 091	164 375	337 128	6 954
3335	Metalworking machinery manufacturing .....	2	37	7	501	24 356	374	724	16 657	39 994	17 675	59 733	1 841
33351	Metalworking machinery manufacturing .....	2	37	7	501	24 356	374	724	16 657	39 994	17 675	59 733	1 841
3336	Engine, turbine, and power transmission equipment manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
33361	Engine, turbine, and power transmission equipment manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
333618	Other engine equipment manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
3339	Other general purpose machinery manufacturing .....	1	10	5	637	26 255	400	862	10 859	52 871	63 394	114 877	1 679
336	Transportation equipment manufacturing .....	-	19	8	1 946	83 619	1 519	2 952	61 520	164 932	226 936	384 759	27 558
3363	Motor vehicle parts manufacturing .....	-	14	6	g	D	D	D	D	D	D	D	D
33631	Motor vehicle gasoline engine and engine parts manufacturing .....	-	6	4	f	D	D	D	D	D	D	D	D
336312	Gasoline engine and engine parts manufacturing .....	-	4	4	f	D	D	D	D	D	D	D	D
3364	Aerospace product and parts manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
336412	Aircraft engine and engine parts manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	9	13	5	793	27 527	668	1 375	21 339	98 265	57 766	153 849	2 216
3372	Office furniture (including fixtures) manufacturing .....	9	8	5	784	27 335	660	1 362	21 197	97 870	57 406	153 094	2 203
33721	Office furniture (including fixtures) manufacturing .....	9	8	5	784	27 335	660	1 362	21 197	97 870	57 406	153 094	2 203
337214	Office furniture (except wood) manufacturing .....	9	3	2	f	D	D	D	D	D	D	D	D

See footnotes at end of table.

**Table 3. Industry Statistics for Counties: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	All establishments <sup>2</sup>			All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
		E <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>NEWAYGO</b>													
31-33	Manufacturing .....	2	39	9	1 428	42 973	1 152	2 400	29 472	136 857	224 331	361 145	12 116
336	Transportation equipment manufacturing .....	—	3	2	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	—	3	2	f	D	D	D	D	D	D	D	D
<b>OAKLAND</b>													
31-33	Manufacturing .....	—	'2 160	'702	'79 167	'3 745 799	'55 078	'109 173	'2 294 539	'12 578 604	'14 472 382	'27 022 148	'423 028
311	Food manufacturing .....	2	85	16	1 185	33 300	515	900	11 173	93 683	73 663	164 572	2 239
3118	Bakeries and tortilla manufacturing .....	2	53	8	625	12 813	250	391	4 902	34 225	15 338	49 567	677
31181	Bread and bakery product manufacturing .....	3	50	7	f	D	D	D	D	D	D	D	D
316	Leather and allied product manufacturing .....	—	3	1	f	D	D	D	D	D	D	D	D
3161	Leather and hide tanning and finishing .....	—	2	1	f	D	D	D	D	D	D	D	D
31611	Leather and hide tanning and finishing .....	—	2	1	f	D	D	D	D	D	D	D	D
316110	Leather and hide tanning and finishing .....	—	2	1	f	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	2	218	33	2 644	102 700	1 801	3 573	59 073	209 866	122 784	330 270	12 466
3231	Printing and related support activities .....	2	218	33	2 644	102 700	1 801	3 573	59 073	209 866	122 784	330 270	12 466
32311	Printing .....	2	196	32	2 558	98 437	1 746	3 481	56 874	201 852	121 167	320 874	11 602
323110	Commercial lithographic printing .....	2	67	15	932	38 666	659	1 325	24 079	81 295	51 479	132 763	6 230
323113	Commercial screen printing .....	—	25	4	f	D	D	D	D	D	D	D	2 113
325	Chemical manufacturing .....	2	63	29	2 688	129 834	1 518	3 038	56 479	378 904	404 911	781 589	49 408
3254	Pharmaceutical and medicine manufacturing .....	—	9	4	g	D	D	D	D	D	D	D	D
32541	Pharmaceutical and medicine manufacturing .....	—	9	4	g	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation manufacturing .....	—	3	2	f	D	D	D	D	D	D	D	D
3255	Paint, coating, and adhesive manufacturing .....	1	14	9	831	40 336	445	886	15 818	102 900	108 749	209 945	D
32551	Paint and coating manufacturing .....	1	10	7	f	D	D	D	D	D	D	D	D
325510	Paint and coating manufacturing .....	1	10	7	f	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	'4	'104	'48	'4 350	'144 049	'3 110	'6 139	'81 666	'342 377	'284 080	'628 259	'23 145
3261	Plastics product manufacturing ..	4	'87	'43	h	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	5	65	37	2 866	95 152	2 144	4 364	57 018	246 943	169 781	416 408	14 485
326199	All other plastics product manufacturing .....	5	61	35	2 771	91 808	2 070	4 212	54 867	240 664	165 678	406 017	D
3262	Rubber product manufacturing ...	1	17	5	f	D	D	D	D	D	D	D	D
32629	Other rubber product manufacturing .....	1	15	5	f	D	D	D	D	D	D	D	D
326291	Rubber product manufacturing for mechanical use .....	—	7	3	537	15 044	403	659	9 216	34 712	31 583	67 157	D
327	Nonmetallic mineral product manufacturing .....	1	62	21	1 075	45 441	764	1 576	28 089	108 970	87 618	196 983	7 991
3273	Cement and concrete product manufacturing .....	—	26	13	508	24 936	344	703	15 466	64 683	51 015	115 999	5 548
331	Primary metal manufacturing .....	4	25	8	686	26 999	520	1 136	18 504	65 833	81 406	151 526	3 256

See footnotes at end of table.

**Table 3. Industry Statistics for Counties: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>OAKLAND—Con.</b>													
332	Fabricated metal product manufacturing .....	1	471	161	14 887	565 375	11 308	22 658	368 191	1 191 969	796 715	1 990 852	54 522
3321	Forging and stamping.....	1	25	12	1 155	51 354	824	1 748	30 833	172 279	178 592	351 160	4 448
33211	Forging and stamping.....	1	25	12	1 155	51 354	824	1 748	30 833	172 279	178 592	351 160	4 448
332111	Iron and steel forging .....	—	9	6	798	38 728	535	1 160	22 096	136 981	157 257	292 482	2 859
3322	Cutlery and handtool manufacturing .....	2	26	9	718	22 017	454	708	11 351	47 249	27 224	73 859	3 163
33221	Cutlery and handtool manufacturing .....	2	26	9	718	22 017	454	708	11 351	47 249	27 224	73 859	3 163
332212	Hand and edge tool manufacturing .....	2	24	8	f	D	D	D	D	D	D	D	D
3323	Architectural and structural metals manufacturing .....	1	56	18	1 257	47 029	866	1 782	26 516	85 349	70 936	157 537	4 141
33232	Ornamental and architectural metal products manufacturing .....	—	39	15	1 074	39 447	724	1 493	21 423	70 591	54 041	125 630	D
332322	Sheet metal work manufacturing .....	—	23	10	848	30 411	572	1 170	16 918	55 238	42 711	99 030	3 051
3325	Hardware manufacturing .....	—	7	3	3 249	94 105	2 799	5 392	72 574	97 847	67 114	164 639	D
33251	Hardware manufacturing .....	—	7	3	3 249	94 105	2 799	5 392	72 574	97 847	67 114	164 639	D
332510	Hardware manufacturing .....	—	7	3	3 249	94 105	2 799	5 392	72 574	97 847	67 114	164 639	D
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	1	220	63	4 527	202 953	3 298	6 845	126 123	439 556	265 837	708 128	26 263
33271	Machine shops .....	2	168	36	2 553	120 990	1 825	3 726	73 049	248 837	127 029	376 565	14 300
332710	Machine shops .....	2	168	36	2 553	120 990	1 825	3 726	73 049	248 837	127 029	376 565	14 300
33272	Turned product and screw, nut, and bolt manufacturing .....	1	52	27	1 974	81 963	1 473	3 119	53 074	190 719	138 808	331 563	11 963
332721	Precision turned product manufacturing .....	2	41	18	1 290	51 867	988	2 133	34 454	114 751	70 306	186 907	8 790
332722	Bolt, nut, screw, rivet, and washer manufacturing .....	—	11	9	684	30 096	485	986	18 620	75 968	68 502	144 656	3 173
3328	Coating, engraving, heat treating, and allied activities .....	1	65	28	1 904	69 150	1 441	2 983	43 958	161 863	76 470	241 040	6 794
33281	Coating, engraving, heat treating, and allied activities ..	1	65	28	1 904	69 150	1 441	2 983	43 958	161 863	76 470	241 040	6 794
332811	Metal heat treating .....	—	18	13	769	31 911	558	1 182	19 538	60 310	45 121	106 592	D
332813	Electroplating, plating, polishing, anodizing, and coloring .....	2	23	7	716	21 071	564	1 154	13 684	48 136	15 376	63 525	D
3329	Other fabricated metal product manufacturing .....	1	53	19	1 694	64 513	1 341	2 631	47 559	152 709	85 236	234 453	5 129
33291	Metal valve manufacturing ....	—	13	5	f	D	D	D	D	D	D	D	D
332912	Fluid power valve and hose fitting manufacturing .....	—	9	4	879	31 946	723	1 381	24 594	70 681	41 061	111 412	D
33299	All other fabricated metal product manufacturing .....	2	40	14	f	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	1	402	163	15 719	865 986	8 359	17 386	379 652	1 764 054	1 738 858	3 465 089	60 482
3332	Industrial machinery manufacturing .....	—	30	13	1 160	69 773	511	1 099	25 009	135 743	185 456	323 581	D
33329	Other industrial machinery manufacturing .....	—	19	7	830	55 196	318	698	18 331	92 054	157 501	252 420	1 688
333298	All other industrial machinery manufacturing .....	—	17	7	f	D	D	D	D	D	D	D	1 688
3335	Metalworking machinery manufacturing .....	3	255	99	7 464	383 407	4 840	10 164	223 563	731 746	493 500	1 238 738	28 880
33351	Metalworking machinery manufacturing .....	3	255	99	7 464	383 407	4 840	10 164	223 563	731 746	493 500	1 238 738	28 880
333511	Industrial mold manufacturing .....	1	33	15	1 141	64 077	840	1 801	43 576	119 591	59 710	171 397	5 529
333512	Machine tool (metal cutting types) manufacturing .....	2	14	10	501	26 877	273	609	12 613	37 271	65 703	112 910	3 214
333514	Special die and tool, die set, jig, and fixture manufacturing .....	4	116	42	3 098	149 594	2 363	4 933	104 341	263 961	117 571	402 003	12 021
333515	Cutting tool and machine tool accessory manufacturing...	1	65	15	g	D	D	D	D	D	D	D	3 921
333518	Other metalworking machinery manufacturing ..	3	19	12	1 486	90 156	650	1 435	34 367	213 000	195 905	393 804	D
3336	Engine, turbine, and power transmission equipment manufacturing .....	—	10	6	545	22 323	375	784	11 888	55 950	49 609	104 987	D
33361	Engine, turbine, and power transmission equipment manufacturing .....	—	10	6	545	22 323	375	784	11 888	55 950	49 609	104 987	D

See footnotes at end of table.

**Table 3. Industry Statistics for Counties: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E1	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>OAKLAND—Con.</b>													
333	Machinery manufacturing—Con.												
3339	Other general purpose machinery manufacturing .....	—	81	37	5 843	356 143	2 236	4 524	107 319	763 878	935 179	1 647 381	D
33392	Material handling equipment manufacturing .....	—	16	12	688	36 859	381	765	16 918	126 233	91 182	214 775	D
333922	Conveyor and conveying equipment manufacturing ..	—	12	9	f	D	D	D	D	D	D	D	D
33399	All other general purpose machinery manufacturing ....	—	60	22	4 886	300 037	1 794	3 624	86 338	578 374	821 014	1 349 545	10 627
333992	Welding and soldering equipment manufacturing ..	—	4	2	g	D	D	D	D	D	D	D	D
333999	All other miscellaneous general purpose machinery manufacturing .....	—	33	13	2 524	146 949	852	1 765	33 309	256 605	436 965	710 226	4 349
334	Computer and electronic product manufacturing .....	1	109	39	3 384	151 631	1 529	3 018	48 699	301 032	335 392	650 459	15 408
3344	Semiconductor and other electronic component manufacturing .....	—	33	16	1 933	79 033	886	1 756	27 254	157 452	247 104	420 036	D
33441	Semiconductor and other electronic component manufacturing .....	—	33	16	1 933	79 033	886	1 756	27 254	157 452	247 104	420 036	D
334418	Printed circuit assembly (electronic assembly) manufacturing .....	—	6	5	g	D	D	D	D	D	D	D	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	2	44	14	931	45 196	444	880	15 104	87 932	40 825	126 978	3 067
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	2	44	14	931	45 196	444	880	15 104	87 932	40 825	126 978	3 067
335	Electrical equipment, appliance, and component manufacturing .....	1	57	17	1 355	52 925	810	1 625	23 049	124 520	120 995	241 219	9 558
3353	Electrical equipment manufacturing .....	1	36	7	563	25 108	318	621	10 867	50 561	36 390	84 023	D
33531	Electrical equipment manufacturing .....	1	36	7	563	25 108	318	621	10 867	50 561	36 390	84 023	D
3359	Other electrical equipment and component manufacturing .....	1	16	9	f	D	D	D	D	D	D	D	8 194
336	Transportation equipment manufacturing .....	—	159	99	25 247	1 401 999	20 895	40 246	1 098 776	7 538 512	10 076 462	17 610 484	168 020
3361	Motor vehicle manufacturing .....	—	8	4	j	D	D	D	D	D	D	D	D
33611	Automobile and light duty motor vehicle manufacturing .....	—	7	4	j	D	D	D	D	D	D	D	D
336111	Automobile manufacturing ...	—	6	3	i	D	D	D	D	D	D	D	D
336112	Light truck and utility vehicle manufacturing .....	—	1	1	i	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	1	132	88	j	D	D	D	D	D	D	D	D
33631	Motor vehicle gasoline engine and engine parts manufacturing .....	1	14	7	f	D	D	D	D	D	D	D	D
336312	Gasoline engine and engine parts manufacturing .....	1	13	6	f	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical and electronic equipment manufacturing .....	3	14	8	g	D	D	D	D	D	D	D	D
336322	Other motor vehicle electrical and electronic equipment manufacturing .....	3	12	7	g	D	D	D	D	D	D	D	D
33635	Motor vehicle transmission and power train parts manufacturing .....	1	9	7	g	D	D	D	D	D	D	D	D
336350	Motor vehicle transmission and power train parts manufacturing .....	1	9	7	g	D	D	D	D	D	D	D	D
33636	Motor vehicle seating and interior trim manufacturing ...	—	12	8	g	D	D	D	D	D	D	D	4 269
336360	Motor vehicle seating and interior trim manufacturing ...	—	12	8	g	D	D	D	D	D	D	D	4 269
33637	Motor vehicle metal stamping ..	1	41	31	4 355	251 103	3 554	7 131	196 715	484 464	574 376	1 057 073	26 002
336370	Motor vehicle metal stamping ..	1	41	31	4 355	251 103	3 554	7 131	196 715	484 464	574 376	1 057 073	26 002
33639	Other motor vehicle parts manufacturing .....	1	31	23	2 941	124 832	2 098	4 024	65 526	333 209	623 538	953 086	29 113
336399	All other motor vehicle parts manufacturing .....	1	28	20	2 603	104 023	1 857	3 527	52 427	261 025	380 570	637 450	19 591
3364	Aerospace product and parts manufacturing .....	—	7	3	f	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing .....	—	7	3	f	D	D	D	D	D	D	D	D
336412	Aircraft engine and engine parts manufacturing .....	—	4	3	f	D	D	D	D	D	D	D	D

See footnotes at end of table.

**Table 3. Industry Statistics for Counties: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>OAKLAND—Con.</b>													
337	Furniture and related product manufacturing .....	2	95	15	1 044	34 974	710	1 399	19 462	65 970	54 591	120 115	2 507
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	3	70	10	664	20 591	484	944	12 430	43 532	34 234	77 495	D
339	Miscellaneous manufacturing .....	2	188	33	3 045	124 116	1 885	3 832	61 055	232 089	140 062	374 741	9 309
3391	Medical equipment and supplies manufacturing .....	2	75	7	637	22 371	442	893	14 288	52 100	13 775	65 583	1 325
33911	Medical equipment and supplies manufacturing .....	2	75	7	637	22 371	442	893	14 288	52 100	13 775	65 583	1 325
3399	Other miscellaneous manufacturing .....	1	113	26	2 408	101 745	1 443	2 939	46 767	179 989	126 287	309 158	7 984
33995	Sign manufacturing .....	—	41	9	1 079	54 215	553	1 167	22 039	84 539	50 652	139 093	D
339950	Sign manufacturing .....	—	41	9	1 079	54 215	553	1 167	22 039	84 539	50 652	139 093	D
33999	All other miscellaneous manufacturing .....	3	48	12	948	34 511	678	1 370	19 774	74 022	48 507	120 644	3 511
339991	Gasket, packing, and sealing device manufacturing .....	4	12	7	545	20 128	406	838	12 200	45 547	25 401	71 062	1 006
<b>OCEANA</b>													
31-33	Manufacturing .....	—	42	10	1 417	36 713	1 160	2 165	24 890	124 170	131 786	258 881	6 545
311	Food manufacturing .....	—	7	4	708	15 661	621	1 145	10 998	69 176	63 024	135 269	3 776
<b>OGEMAW</b>													
31-33	Manufacturing .....	3	34	10	1 040	31 182	713	1 085	19 476	61 517	36 827	101 540	4 155
<b>OSCEOLA</b>													
31-33	Manufacturing .....	—	49	18	3 062	96 296	2 377	4 980	66 602	335 341	337 719	678 100	33 269
311	Food manufacturing .....	—	4	2	f	D	D	D	D	D	D	D	D
3115	Dairy product manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
311511	Fluid milk manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	—	4	3	g	D	D	D	D	D	D	D	D
3261	Plastics product manufacturing .....	—	4	3	g	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	—	4	3	g	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing .....	—	4	3	g	D	D	D	D	D	D	D	D
<b>OTSEGO</b>													
31-33	Manufacturing .....	—	44	16	1 504	49 725	1 240	2 382	33 336	87 754	117 975	202 937	5 458
<b>OTTAWA</b>													
31-33	Manufacturing .....	1	'616	216	'35 521	'1 339 157	'26 234	'52 140	'790 874	'4 672 629	'4 049 810	'8 653 850	'224 845
311	Food manufacturing .....	—	33	15	3 806	129 955	3 069	6 086	92 865	847 836	847 361	1 721 774	57 494
3114	Fruit and vegetable preserving and specialty food manufacturing .....	—	4	3	f	D	D	D	D	D	D	D	D
3115	Dairy product manufacturing .....	—	4	4	915	41 444	547	1 192	25 414	599 472	317 117	920 958	8 993
31151	Dairy product (except frozen) manufacturing .....	—	4	4	915	41 444	547	1 192	25 414	599 472	317 117	920 958	8 993
3116	Animal slaughtering and processing .....	—	5	3	1 256	39 097	1 152	2 302	32 456	38 478	353 208	415 990	27 338
31161	Animal slaughtering and processing .....	—	5	3	1 256	39 097	1 152	2 302	32 456	38 478	353 208	415 990	27 338
311615	Poultry processing .....	—	2	2	g	D	D	D	D	D	D	D	D
321	Wood product manufacturing .....	1	'28	12	'621	'17 972	'463	'871	'10 874	'39 150	'48 414	'86 897	'1 955
322	Paper manufacturing .....	1	7	6	562	19 825	362	734	11 284	44 195	44 277	88 296	D
3222	Converted paper product manufacturing .....	1	7	6	562	19 825	362	734	11 284	44 195	44 277	88 296	D
325	Chemical manufacturing .....	2	16	8	1 060	54 567	655	1 361	25 582	228 501	196 110	390 185	12 356
3254	Pharmaceutical and medicine manufacturing .....	—	5	3	705	37 954	418	832	15 729	156 822	120 475	241 015	9 536
32541	Pharmaceutical and medicine manufacturing .....	—	5	3	705	37 954	418	832	15 729	156 822	120 475	241 015	9 536

See footnotes at end of table.

**Table 3. Industry Statistics for Counties: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E1	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>OTTAWA—Con.</b>													
326	Plastics and rubber products manufacturing .....	-	27	16	3 795	130 441	2 851	5 790	77 172	383 841	306 555	688 148	18 643
3261	Plastics product manufacturing ..	-	26	16	h	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	-	18	12	3 565	122 417	2 683	5 404	72 120	367 589	290 086	655 540	12 748
326199	All other plastics product manufacturing .....	-	17	11	h	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing .....	-	18	10	3 344	134 835	2 432	5 121	72 951	416 268	370 407	783 969	25 899
3272	Glass and glass product manufacturing .....	-	6	5	h	D	D	D	D	D	D	D	D
32721	Glass and glass product manufacturing .....	-	6	5	h	D	D	D	D	D	D	D	D
327215	Glass product manufacturing made of purchased glass ..	-	6	5	h	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	1	152	38	3 494	123 903	2 641	5 182	81 007	250 085	180 760	430 636	17 946
3323	Architectural and structural metals manufacturing .....	1	22	6	1 227	46 234	912	1 811	30 038	92 205	72 525	163 061	5 936
33232	Ornamental and architectural metal products manufacturing .....	-	14	4	1 066	40 665	801	1 636	26 896	80 451	60 784	139 576	5 575
332323	Ornamental and architectural metal work manufacturing ..	-	3	1	f	D	D	D	D	D	D	D	D
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	1	68	10	776	28 993	615	1 217	20 306	58 382	32 295	90 452	2 848
333	Machinery manufacturing .....	4	93	23	2 475	103 941	1 665	3 040	59 590	211 526	172 147	368 675	9 972
3335	Metalworking machinery manufacturing .....	1	53	12	1 154	51 858	783	1 562	31 542	99 409	57 850	150 587	6 949
33351	Metalworking machinery manufacturing .....	1	53	12	1 154	51 858	783	1 562	31 542	99 409	57 850	150 587	6 949
333514	Special die and tool, die set, jig, and fixture manufacturing .....	1	25	6	532	22 930	429	889	16 960	38 136	22 122	60 455	3 805
3339	Other general purpose machinery manufacturing .....	4	18	6	640	26 861	422	740	13 610	55 762	41 172	93 138	1 400
334	Computer and electronic product manufacturing .....	-	19	11	1 704	63 958	1 273	2 504	39 066	212 805	127 651	332 968	3 111
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	-	10	4	1 058	39 570	822	1 540	26 498	116 308	92 222	200 761	1 669
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	-	10	4	1 058	39 570	822	1 540	26 498	116 308	92 222	200 761	1 669
334518	Watch, clock, and part manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	2	44	28	5 268	218 314	4 114	8 255	148 043	589 598	549 476	1 140 275	23 976
3363	Motor vehicle parts manufacturing .....	2	34	24	h	D	D	D	D	D	D	D	22 434
33631	Motor vehicle gasoline engine and engine parts manufacturing .....	-	6	4	1 203	52 394	1 052	2 091	43 356	229 078	94 537	323 584	3 282
336312	Gasoline engine and engine parts manufacturing .....	-	6	4	1 203	52 394	1 052	2 091	43 356	229 078	94 537	323 584	3 282
33636	Motor vehicle seating and interior trim manufacturing ....	-	2	1	f	D	D	D	D	D	D	D	D
336360	Motor vehicle seating and interior trim manufacturing ..	-	2	1	f	D	D	D	D	D	D	D	D
33637	Motor vehicle metal stamping ..	5	14	11	1 872	78 682	1 544	3 210	56 522	159 642	143 938	303 420	9 570
336370	Motor vehicle metal stamping .....	5	14	11	1 872	78 682	1 544	3 210	56 522	159 642	143 938	303 420	9 570
33639	Other motor vehicle parts manufacturing .....	3	6	3	571	26 462	358	774	12 410	51 214	62 700	112 721	2 583
336399	All other motor vehicle parts manufacturing .....	3	6	3	571	26 462	358	774	12 410	51 214	62 700	112 721	2 583
337	Furniture and related product manufacturing .....	4	57	28	6 974	256 202	5 270	10 398	130 134	1 210 740	751 235	1 929 104	39 899
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	-	26	9	981	31 274	733	1 429	18 624	96 244	76 306	174 998	D
33712	Household and institutional furniture manufacturing .....	-	16	7	825	26 866	604	1 158	15 413	87 958	65 125	155 623	D

See footnotes at end of table.

**Table 3. Industry Statistics for Counties: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
		E <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)					Wages (\$1,000)
<b>OTTAWA—Con.</b>													
337	Furniture and related product manufacturing—Con.												
3372	Office furniture (including fixtures) manufacturing .....	4	28	19	5 983	224 684	4 529	8 959	111 380	1 114 018	674 561	1 753 261	27 252
33721	Office furniture (including fixtures) manufacturing .....	4	28	19	5 983	224 684	4 529	8 959	111 380	1 114 018	674 561	1 753 261	27 252
337214	Office furniture (except wood) manufacturing .....	4	9	8	i	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing .....	—	46	5	690	24 778	354	718	10 399	49 673	27 530	81 994	954
<b>SAGINAW</b>													
31-33	Manufacturing .....	—	'241	'77	'17 637	'1 057 545	'13 530	'27 923	'765 497	'2 768 531	'2 241 082	'5 026 134	'186 038
331	Primary metal manufacturing .....	—	7	4	h	D	D	D	D	D	D	D	D
3315	Foundries .....	—	5	2	h	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries .....	—	4	2	h	D	D	D	D	D	D	D	D
331511	Iron foundries .....	—	3	2	h	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	1	67	18	1 522	48 449	1 239	2 455	37 344	131 621	59 168	194 661	5 455
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	—	35	8	f	D	D	D	D	D	D	D	D
33271	Machine shops .....	—	34	8	658	18 273	516	1 012	14 609	60 562	22 023	86 664	2 554
332710	Machine shops .....	—	34	8	658	18 273	516	1 012	14 609	60 562	22 023	86 664	2 554
333	Machinery manufacturing .....	3	41	23	1 928	72 304	1 145	2 364	42 391	131 918	96 458	235 939	5 280
3335	Metalworking machinery manufacturing .....	4	30	16	1 402	44 785	812	1 683	26 397	78 412	25 619	106 901	3 728
33351	Metalworking machinery manufacturing .....	4	30	16	1 402	44 785	812	1 683	26 397	78 412	25 619	106 901	3 728
333515	Cutting tool and machine tool accessory manufacturing...	4	12	7	618	21 248	488	1 100	15 865	39 134	8 502	48 639	1 951
336	Transportation equipment manufacturing .....	—	14	8	i	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	—	12	7	i	D	D	D	D	D	D	D	D
33633	Motor vehicle steering and suspension component (except spring) manufacturing .....	—	3	1	i	D	D	D	D	D	D	D	D
336330	Motor vehicle steering and suspension component (except spring) manufacturing .....	—	3	1	i	D	D	D	D	D	D	D	D
33634	Motor vehicle brake system manufacturing .....	—	2	2	g	D	D	D	D	D	D	D	D
336340	Motor vehicle brake system manufacturing .....	—	2	2	g	D	D	D	D	D	D	D	D
<b>ST. CLAIR</b>													
31-33	Manufacturing .....	1	282	102	10 294	402 525	7 497	15 014	252 162	1 059 083	1 179 178	2 255 932	46 638
322	Paper manufacturing .....	—	3	3	800	44 090	530	1 204	27 103	119 726	154 525	275 076	D
3221	Pulp, paper, and paperboard mills .....	—	2	2	f	D	D	D	D	D	D	D	D
32212	Paper mills .....	—	2	2	f	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills .....	—	2	2	f	D	D	D	D	D	D	D	D
325	Chemical manufacturing .....	—	11	5	618	33 401	373	848	16 988	86 883	111 056	198 939	9 070
326	Plastics and rubber products manufacturing .....	—	28	20	2 110	63 862	1 779	3 228	45 211	156 341	137 267	294 180	5 110
3261	Plastics product manufacturing ..	—	28	20	2 110	63 862	1 779	3 228	45 211	156 341	137 267	294 180	5 110
32619	Other plastics product manufacturing .....	—	25	17	1 710	52 654	1 444	2 600	37 625	121 645	102 999	225 200	4 417
326199	All other plastics product manufacturing .....	—	25	17	1 710	52 654	1 444	2 600	37 625	121 645	102 999	225 200	4 417
331	Primary metal manufacturing .....	—	6	5	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	1	73	23	1 685	62 397	1 262	2 548	39 088	148 322	124 678	277 401	5 675
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	—	38	11	751	29 479	477	1 008	15 432	74 936	59 869	136 506	3 328
333	Machinery manufacturing .....	2	52	20	1 251	57 677	802	1 570	30 966	112 924	94 138	222 006	7 676
3335	Metalworking machinery manufacturing .....	2	37	14	820	43 836	530	1 134	24 613	79 064	72 503	166 433	6 680
33351	Metalworking machinery manufacturing .....	2	37	14	820	43 836	530	1 134	24 613	79 064	72 503	166 433	6 680

See footnotes at end of table.



**Table 3. Industry Statistics for Counties: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E1	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>ST. CLAIR—Con.</b>													
336	Transportation equipment manufacturing .....	-	23	16	2 437	92 240	1 723	3 545	59 909	293 283	338 106	632 753	11 971
3363	Motor vehicle parts manufacturing .....	-	18	15	g	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts manufacturing .....	-	5	5	1 114	41 145	750	1 515	26 196	106 241	146 651	253 488	D
336399	All other motor vehicle parts manufacturing .....	-	5	5	1 114	41 145	750	1 515	26 196	106 241	146 651	253 488	D
<b>ST. JOSEPH</b>													
31-33	Manufacturing .....	-	157	70	8 977	386 645	6 919	14 613	274 681	1 294 691	1 068 653	2 341 397	100 110
311	Food manufacturing .....	-	7	2	f	D	D	D	D	D	D	D	D
3115	Dairy product manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
311514	Dry, condensed, and evaporated dairy product manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
322	Paper manufacturing .....	-	11	9	811	32 760	639	1 435	23 413	96 938	194 865	290 955	D
3222	Converted paper product manufacturing .....	-	9	7	f	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	1	24	15	1 952	65 296	1 668	3 556	48 760	173 941	127 888	299 956	12 219
3261	Plastics product manufacturing ..	-	20	13	1 831	61 557	1 573	3 349	46 337	165 829	121 437	285 391	11 982
32619	Other plastics product manufacturing .....	-	17	12	1 799	60 619	1 546	3 306	45 626	162 817	119 106	280 118	D
326199	All other plastics product manufacturing .....	-	16	11	g	D	D	D	D	D	D	D	11 371
332	Fabricated metal product manufacturing .....	-	35	14	1 075	39 588	769	1 526	23 783	88 110	52 616	140 742	D
3329	Other fabricated metal product manufacturing .....	-	9	5	514	20 149	353	665	11 099	49 354	28 719	77 898	D
333	Machinery manufacturing .....	-	27	11	939	42 024	650	1 380	26 525	81 532	46 791	130 323	6 663
3335	Metalworking machinery manufacturing .....	-	19	8	574	28 045	452	979	21 634	48 631	23 328	75 328	6 109
33351	Metalworking machinery manufacturing .....	-	19	8	574	28 045	452	979	21 634	48 631	23 328	75 328	6 109
336	Transportation equipment manufacturing .....	-	15	12	2 957	153 490	2 315	4 925	117 972	295 448	420 229	711 028	59 032
3362	Motor vehicle body and trailer manufacturing .....	1	10	9	g	D	D	D	D	D	D	D	D
33621	Motor vehicle body and trailer manufacturing .....	1	10	9	g	D	D	D	D	D	D	D	D
336214	Travel trailer and camper manufacturing .....	2	8	7	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	-	4	3	1 951	120 736	1 522	3 403	95 766	233 162	330 985	561 004	58 215
33635	Motor vehicle transmission and power train parts manufacturing .....	-	2	2	g	D	D	D	D	D	D	D	D
336350	Motor vehicle transmission and power train parts manufacturing .....	-	2	2	g	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>SANILAC</b>													
31-33	Manufacturing .....	1	83	30	3 342	103 526	2 454	4 455	66 204	260 862	244 276	507 696	20 856
326	Plastics and rubber products manufacturing .....	-	12	9	1 201	30 273	982	1 871	21 730	87 182	76 400	163 994	3 616
3261	Plastics product manufacturing ..	-	11	8	f	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	-	8	7	f	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing .....	-	8	7	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	1	22	10	1 007	34 013	685	1 258	19 568	98 619	65 386	166 243	4 035

See footnotes at end of table.

**Table 3. Industry Statistics for Counties: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>SHIAWASSEE</b>													
31-33	Manufacturing .....	1	82	31	3 500	98 700	2 708	5 186	63 706	275 895	270 211	543 775	10 290
326	Plastics and rubber products manufacturing .....	—	7	5	975	16 313	794	1 372	10 760	61 645	38 592	99 952	1 145
3261	Plastics product manufacturing ..	—	7	5	975	16 313	794	1 372	10 760	61 645	38 592	99 952	1 145
32619	Other plastics product manufacturing .....	—	6	4	f	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing .....	—	6	4	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing .....	—	3	3	559	16 102	456	930	11 878	39 871	24 868	62 938	2 615
3353	Electrical equipment manufacturing .....	—	3	3	559	16 102	456	930	11 878	39 871	24 868	62 938	2 615
33531	Electrical equipment manufacturing .....	—	3	3	559	16 102	456	930	11 878	39 871	24 868	62 938	2 615
335312	Motor and generator manufacturing .....	—	3	3	559	16 102	456	930	11 878	39 871	24 868	62 938	2 615
<b>TUSCOLA</b>													
31-33	Manufacturing .....	—	56	17	2 008	61 319	1 599	2 651	41 494	173 806	154 033	328 756	11 215
336	Transportation equipment manufacturing .....	—	10	6	770	23 983	634	976	17 530	81 661	92 202	175 942	4 983
3363	Motor vehicle parts manufacturing .....	—	8	6	f	D	D	D	D	D	D	D	D
<b>VAN BUREN</b>													
31-33	Manufacturing .....	—	104	37	4 209	137 967	3 209	6 411	89 427	762 247	448 982	1 205 049	48 210
311	Food manufacturing .....	3	15	8	519	11 864	445	861	9 335	38 471	46 750	85 339	2 706
312	Beverage and tobacco product manufacturing .....	—	5	4	f	D	D	D	D	D	D	D	D
3121	Beverage manufacturing .....	—	5	4	f	D	D	D	D	D	D	D	D
31211	Soft drink and ice manufacturing .....	—	3	3	f	D	D	D	D	D	D	D	D
312111	Soft drink manufacturing ....	—	3	3	f	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	—	7	5	g	D	D	D	D	D	D	D	D
3261	Plastics product manufacturing ..	—	6	5	g	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	—	5	4	g	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing .....	—	5	4	g	D	D	D	D	D	D	D	D
<b>WASHTENAW</b>													
31-33	Manufacturing .....	—	393	131	27 975	'1 510 617	20 895	42 589	'1 102 360	3 333 991	4 302 443	7 622 597	117 071
311	Food manufacturing .....	1	24	6	665	'22 532	486	874	'15 029	73 027	58 211	131 552	D
323	Printing and related support activities .....	2	51	15	2 482	86 296	1 849	3 746	58 927	177 994	106 430	285 199	11 550
3231	Printing and related support activities .....	2	51	15	2 482	86 296	1 849	3 746	58 927	177 994	106 430	285 199	11 550
32311	Printing .....	2	47	14	g	D	D	D	D	D	D	D	11 498
323117	Books printing .....	2	9	6	1 694	58 842	1 275	2 520	42 529	107 788	77 040	185 915	9 525
325	Chemical manufacturing .....	2	14	7	595	26 154	215	420	8 381	56 666	71 498	127 462	4 406
326	Plastics and rubber products manufacturing .....	2	14	7	1 230	44 366	860	1 767	26 117	116 403	87 984	204 673	5 643
3261	Plastics product manufacturing ..	2	13	7	g	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	2	11	5	f	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing .....	1	10	4	867	31 380	583	1 212	17 358	62 970	71 197	134 427	2 462
332	Fabricated metal product manufacturing .....	—	85	25	g	D	D	D	D	D	D	D	13 076
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	—	46	10	814	34 577	641	1 372	24 299	102 610	78 152	181 653	5 513
33272	Turned product and screw, nut, and bolt manufacturing .....	—	9	6	583	25 002	471	1 025	17 773	83 020	71 372	155 706	4 491
3329	Other fabricated metal product manufacturing .....	—	11	5	f	D	D	D	D	D	D	D	2 235

See footnotes at end of table.

**Table 3. Industry Statistics for Counties: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E1	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>WASHTENAW—Con.</b>													
333	Machinery manufacturing .....	2	41	13	2 223	106 857	1 061	2 054	45 052	237 487	157 002	388 907	8 474
3335	Metalworking machinery manufacturing .....	1	21	6	544	30 489	367	817	19 141	62 041	33 165	96 768	1 141
33351	Metalworking machinery manufacturing .....	1	21	6	544	30 489	367	817	19 141	62 041	33 165	96 768	1 141
3339	Other general purpose machinery manufacturing .....	3	10	4	g	D	D	D	D	D	D	D	D
33399	All other general purpose machinery manufacturing ....	3	9	4	g	D	D	D	D	D	D	D	D
333999	All other miscellaneous general purpose machinery manufacturing .....	4	5	2	g	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing .....	—	47	18	4 238	207 405	3 057	5 659	135 373	628 682	1 360 417	1 964 341	15 800
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	—	20	8	h	D	D	D	D	D	D	D	13 829
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	—	20	8	h	D	D	D	D	D	D	D	13 829
334514	Totalizing fluid meter and counting device manufacturing .....	—	2	2	g	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	—	25	19	12 946	862 890	10 886	22 913	723 763	1 704 545	2 114 469	3 825 398	49 431
3363	Motor vehicle parts manufacturing .....	—	23	18	j	D	D	D	D	D	D	D	D
33631	Motor vehicle gasoline engine and engine parts manufacturing .....	—	5	5	3 557	237 705	2 840	6 045	190 481	458 232	576 735	1 042 158	D
336312	Gasoline engine and engine parts manufacturing .....	—	4	4	h	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical and electronic equipment manufacturing .....	—	1	1	g	D	D	D	D	D	D	D	D
336322	Other motor vehicle electrical and electronic equipment manufacturing .....	—	1	1	g	D	D	D	D	D	D	D	D
33635	Motor vehicle transmission and power train parts manufacturing .....	—	2	2	h	D	D	D	D	D	D	D	D
336350	Motor vehicle transmission and power train parts manufacturing .....	—	2	2	h	D	D	D	D	D	D	D	D
33637	Motor vehicle metal stamping ..	—	7	5	f	D	D	D	D	D	D	D	4 547
336370	Motor vehicle metal stamping .....	—	7	5	f	D	D	D	D	D	D	D	4 547
33639	Other motor vehicle parts manufacturing .....	—	5	5	2 704	143 301	2 358	4 481	120 161	528 336	617 750	1 144 606	9 189
336391	Motor vehicle air-conditioning manufacturing .....	—	1	1	g	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts manufacturing .....	2	4	4	f	D	D	D	D	D	D	D	D
<b>WAYNE</b>													
31-33	Manufacturing .....	—	2 059	645	118 362	6 164 828	92 972	179 378	4 620 418	18 890 667	33 596 911	52 401 486	1 275 878
311	Food manufacturing .....	2	180	43	5 652	163 917	4 224	8 281	103 498	638 612	871 609	1 501 478	30 551
3115	Dairy product manufacturing .....	—	7	5	575	22 240	425	831	12 593	76 230	186 823	261 503	D
3116	Animal slaughtering and processing .....	2	22	14	2 450	63 026	1 910	3 943	40 772	255 280	512 837	762 866	14 005
31161	Animal slaughtering and processing .....	2	22	14	2 450	63 026	1 910	3 943	40 772	255 280	512 837	762 866	14 005
311612	Meat processed from carcasses .....	2	13	10	1 484	41 010	1 044	2 206	22 806	236 003	490 549	720 731	13 060
311615	Poultry processing .....	9	2	2	f	D	D	D	D	D	D	D	D
3118	Bakeries and tortilla manufacturing .....	7	114	14	1 380	40 968	925	1 718	26 535	98 436	53 660	150 055	5 667
31181	Bread and bakery product manufacturing .....	7	107	13	g	D	D	D	D	D	D	D	D
311811	Retail bakeries .....	5	84	6	f	D	D	D	D	D	D	D	D
3119	Other food manufacturing .....	1	21	7	1 010	30 971	759	1 411	18 418	182 207	95 030	277 335	6 229
31191	Snack food manufacturing .....	1	6	4	f	D	D	D	D	D	D	D	D
311919	Other snack food manufacturing .....	1	6	4	f	D	D	D	D	D	D	D	D
312	Beverage and tobacco product manufacturing .....	—	12	4	f	D	D	D	D	D	D	D	11 939
3121	Beverage manufacturing .....	—	11	4	f	D	D	D	D	D	D	D	D
31211	Soft drink and ice manufacturing .....	—	6	4	f	D	D	D	D	D	D	D	D
312111	Soft drink manufacturing .....	—	4	4	f	D	D	D	D	D	D	D	D

See footnotes at end of table.

**Table 3. Industry Statistics for Counties: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>WAYNE—Con.</b>												
322	Paper manufacturing .....	2	35	18	1 481	51 191	1 147	2 470	31 580	109 972	180 415	292 190	6 334
3222	Converted paper product manufacturing .....	3	34	17	g	D	D	D	D	D	D	D	D
32221	Paperboard container manufacturing .....	1	19	9	688	22 684	526	1 134	12 587	48 671	95 526	144 372	D
323	Printing and related support activities .....	1	179	27	2 210	89 530	1 515	2 874	55 455	285 809	199 530	486 541	6 534
3231	Printing and related support activities .....	1	179	27	2 210	89 530	1 515	2 874	55 455	285 809	199 530	486 541	6 534
32311	Printing .....	1	155	24	2 004	80 058	1 389	2 642	49 855	268 821	196 471	466 543	6 067
323110	Commercial lithographic printing .....	1	84	16	1 376	59 713	960	1 825	37 619	222 007	170 117	392 771	4 483
324	Petroleum and coal products manufacturing .....	—	23	9	1 130	57 106	579	1 064	25 327	290 628	919 245	1 169 831	33 078
3241	Petroleum and coal products manufacturing .....	—	23	9	1 130	57 106	579	1 064	25 327	290 628	919 245	1 169 831	33 078
325	Chemical manufacturing .....	2	80	29	2 595	145 236	1 317	2 621	59 729	425 387	564 112	987 979	66 951
3251	Basic chemical manufacturing ...	2	15	8	f	D	D	D	D	D	D	D	D
3252	Resin, synthetic rubber, and artificial synthetic fibers and filaments manufacturing .....	—	5	3	f	D	D	D	D	D	D	D	D
32521	Resin and synthetic rubber manufacturing .....	—	5	3	f	D	D	D	D	D	D	D	D
325211	Plastics material and resin manufacturing .....	—	3	3	f	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	1	83	39	4 670	164 760	3 662	6 970	113 196	466 138	443 439	911 424	20 935
3261	Plastics product manufacturing ..	1	68	36	4 541	160 365	3 582	6 800	110 949	457 546	437 601	896 467	19 757
32619	Other plastics product manufacturing .....	1	45	26	3 235	97 898	2 619	4 715	67 455	260 449	271 581	530 444	13 541
326199	All other plastics product manufacturing .....	2	44	25	h	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing .....	2	60	29	2 928	155 861	2 368	4 820	119 948	400 281	315 211	713 083	15 955
3272	Glass and glass product manufacturing .....	1	7	3	1 327	86 934	1 156	2 300	73 332	179 618	116 907	298 027	3 397
32721	Glass and glass product manufacturing .....	1	7	3	1 327	86 934	1 156	2 300	73 332	179 618	116 907	298 027	3 397
327215	Glass product manufacturing made of purchased glass ..	—	6	2	g	D	D	D	D	D	D	D	3 397
3273	Cement and concrete product manufacturing .....	2	27	16	828	41 608	633	1 376	29 173	97 606	127 799	224 742	5 656
3279	Other nonmetallic mineral product manufacturing .....	5	18	8	691	25 297	537	1 071	16 202	116 799	67 270	180 827	D
331	Primary metal manufacturing .....	—	44	27	8 019	437 969	5 945	12 996	319 040	688 726	2 242 471	2 963 218	52 967
3311	Iron and steel mills and ferroalloy manufacturing .....	—	4	4	6 290	359 691	4 781	10 628	274 789	485 345	1 815 319	2 329 245	D
33111	Iron and steel mills and ferroalloy manufacturing .....	—	4	4	6 290	359 691	4 781	10 628	274 789	485 345	1 815 319	2 329 245	D
331111	Iron and steel mills .....	—	4	4	6 290	359 691	4 781	10 628	274 789	485 345	1 815 319	2 329 245	D
3312	Steel product manufacturing from purchased steel .....	—	15	11	1 010	45 051	670	1 338	25 516	111 757	215 967	330 214	5 684
33122	Rolling and drawing of purchased steel .....	—	12	8	567	28 039	408	841	18 809	70 787	163 182	237 207	D
331221	Rolled steel shape manufacturing .....	—	11	8	f	D	D	D	D	D	D	D	D
3315	Foundries .....	1	17	8	518	22 442	367	742	13 023	49 697	80 061	131 111	3 322
332	Fabricated metal product manufacturing .....	4	544	162	12 679	501 437	9 316	18 855	322 630	1 237 425	967 510	2 197 503	67 465
3321	Forging and stamping.....	3	32	18	1 222	51 493	950	1 792	35 060	98 332	106 310	201 192	4 616
33211	Forging and stamping.....	3	32	18	1 222	51 493	950	1 792	35 060	98 332	106 310	201 192	4 616
332111	Iron and steel forging .....	3	10	8	529	21 951	426	743	16 697	34 621	51 274	83 169	2 118
3322	Cutlery and handtool manufacturing .....	1	18	8	722	31 459	472	940	19 658	53 430	35 173	80 618	D
33221	Cutlery and handtool manufacturing .....	1	18	8	722	31 459	472	940	19 658	53 430	35 173	80 618	D

See footnotes at end of table.

**Table 3. Industry Statistics for Counties: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
		E <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)					Wages (\$1,000)
<b>WAYNE—Con.</b>													
332	Fabricated metal product manufacturing—Con.												
3323	Architectural and structural metals manufacturing .....	4	79	19	1 915	78 055	1 202	2 440	41 288	135 802	244 199	391 837	6 098
33231	Plate work and fabricated structural product manufacturing .....	6	33	7	1 060	44 800	720	1 454	24 610	73 095	191 851	276 485	4 249
332312	Fabricated structural metal manufacturing .....	4	24	5	736	31 571	475	940	15 852	62 121	97 926	168 648	D
33232	Ornamental and architectural metal products manufacturing .....	1	46	12	855	33 255	482	986	16 678	62 707	52 348	115 352	1 849
332322	Sheet metal work manufacturing .....	1	26	6	530	21 452	319	645	11 620	36 256	27 816	64 430	968
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	5	222	55	4 314	175 921	3 306	6 919	120 023	516 373	362 613	872 973	31 046
33271	Machine shops .....	5	151	19	1 756	74 880	1 367	2 809	52 800	157 928	81 475	239 938	9 480
332710	Machine shops .....	5	151	19	1 756	74 880	1 367	2 809	52 800	157 928	81 475	239 938	9 480
33272	Turned product and screw, nut, and bolt manufacturing .....	5	71	36	2 558	101 041	1 939	4 110	67 223	358 445	281 138	633 035	21 566
332721	Precision turned product manufacturing .....	3	39	18	1 146	43 609	942	1 993	31 252	93 593	47 746	141 313	6 580
332722	Bolt, nut, screw, rivet, and washer manufacturing .....	6	32	18	1 412	57 432	997	2 117	35 971	264 852	233 392	491 722	14 986
3328	Coating, engraving, heat treating, and allied activities .....	1	104	40	3 025	107 747	2 281	4 452	68 735	257 899	98 292	355 525	18 041
33281	Coating, engraving, heat treating, and allied activities ..	1	104	40	3 025	107 747	2 281	4 452	68 735	257 899	98 292	355 525	18 041
332811	Metal heat treating .....	1	30	17	865	33 607	608	1 219	19 543	88 191	22 284	110 492	8 335
332812	Metal coating, engraving (except jewelry and silverware), and allied services to manufacturers ..	3	27	10	846	28 430	687	1 215	19 994	79 405	46 729	124 872	2 644
332813	Electroplating, plating, polishing, anodizing, and coloring .....	—	47	13	1 314	45 710	986	2 018	29 198	90 303	29 279	120 161	7 062
3329	Other fabricated metal product manufacturing .....	2	56	12	774	32 924	578	1 235	22 725	115 917	78 478	193 244	1 625
33299	All other fabricated metal product manufacturing .....	2	49	11	568	23 560	426	882	15 932	66 321	31 734	95 565	1 087
333	Machinery manufacturing .....	1	298	90	10 170	517 581	6 756	12 772	290 593	1 201 826	1 344 880	2 585 121	124 324
3332	Industrial machinery manufacturing .....	1	25	8	828	44 556	449	686	18 263	56 898	156 012	253 234	D
33329	Other industrial machinery manufacturing .....	1	22	7	783	42 346	421	650	17 343	54 379	153 000	247 557	D
333298	All other industrial machinery manufacturing .....	1	18	6	744	40 567	395	603	16 379	51 492	151 144	242 822	D
3335	Metalworking machinery manufacturing .....	2	'184	'62	'5 069	'240 320	'3 819	'6 789	'162 503	'483 591	'185 763	'661 722	'32 614
33351	Metalworking machinery manufacturing .....	2	'184	'62	'5 069	'240 320	'3 819	'6 789	'162 503	'483 591	'185 763	'661 722	'32 614
333514	Special die and tool, die set, jig, and fixture manufacturing .....	2	98	31	3 289	155 504	2 652	4 498	115 321	315 224	101 769	413 135	27 288
333515	Cutting tool and machine tool accessory manufacturing .....	2	47	14	712	33 341	501	1 054	20 335	67 675	31 693	98 996	2 484
3336	Engine, turbine, and power transmission equipment manufacturing .....	—	9	5	h	D	D	D	D	D	D	D	D
33361	Engine, turbine, and power transmission equipment manufacturing .....	—	9	5	h	D	D	D	D	D	D	D	D
333618	Other engine equipment manufacturing .....	—	4	4	h	D	D	D	D	D	D	D	D
3339	Other general purpose machinery manufacturing .....	2	'65	'10	'1 076	'43 607	'687	'1 400	'23 007	'118 138	'94 475	'210 928	D
33392	Material handling equipment manufacturing .....	1	'20	'5	f	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing .....	1	45	16	3 565	147 064	2 311	4 384	66 559	341 957	205 606	554 323	10 170
3341	Computer and peripheral equipment manufacturing .....	—	4	2	f	D	D	D	D	D	D	D	D
33411	Computer and peripheral equipment manufacturing ....	—	4	2	f	D	D	D	D	D	D	D	D
334111	Electronic computer manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	5	21	7	819	51 807	316	655	13 449	100 123	49 782	156 447	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	5	21	7	819	51 807	316	655	13 449	100 123	49 782	156 447	D

See footnotes at end of table.

**Table 3. Industry Statistics for Counties: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>WAYNE—Con.</b>													
334	Computer and electronic product manufacturing—Con.												
3346	Manufacturing and reproducing magnetic and optical media.....	—	4	3	g	D	D	D	D	D	D	D	D
33461	Manufacturing and reproducing magnetic and optical media...	—	4	3	g	D	D	D	D	D	D	D	D
334612	Prerecorded compact disc (except software), tape, and record reproducing .....	—	4	3	g	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing .....	1	28	8	768	36 294	384	864	12 891	89 228	56 739	142 960	2 729
336	Transportation equipment manufacturing .....	—	164	95	57 497	3 516 396	50 220	94 717	3 006 955	12 261 799	24 749 254	36 916 434	816 873
3361	Motor vehicle manufacturing .....	—	9	9	j	D	D	D	D	D	D	D	D
33611	Automobile and light duty motor vehicle manufacturing .....	—	8	8	j	D	D	D	D	D	D	D	D
336111	Automobile manufacturing .....	—	6	6	j	D	D	D	D	D	D	D	D
336112	Light truck and utility vehicle manufacturing .....	—	2	2	i	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	—	132	79	k	D	D	D	D	D	D	D	425 226
33631	Motor vehicle gasoline engine and engine parts manufacturing .....	—	25	11	12 082	767 861	10 566	19 464	655 383	1 613 210	4 352 650	5 938 437	134 667
336312	Gasoline engine and engine parts manufacturing .....	—	24	11	j	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical and electronic equipment manufacturing .....	—	6	3	h	D	D	D	D	D	D	D	D
336322	Other motor vehicle electrical and electronic equipment manufacturing .....	—	6	3	h	D	D	D	D	D	D	D	D
33635	Motor vehicle transmission and power train parts manufacturing .....	—	15	9	7 392	517 489	6 538	14 604	458 392	1 360 003	1 588 360	2 934 377	145 152
336350	Motor vehicle transmission and power train parts manufacturing .....	—	15	9	7 392	517 489	6 538	14 604	458 392	1 360 003	1 588 360	2 934 377	145 152
33636	Motor vehicle seating and interior trim manufacturing .....	—	12	10	2 872	130 008	2 070	4 309	81 473	305 384	1 022 710	1 331 193	7 212
336360	Motor vehicle seating and interior trim manufacturing .....	—	12	10	2 872	130 008	2 070	4 309	81 473	305 384	1 022 710	1 331 193	7 212
33637	Motor vehicle metal stamping .....	—	42	28	11 907	439 182	10 580	13 144	363 142	738 082	1 023 945	1 751 439	106 128
336370	Motor vehicle metal stamping .....	—	42	28	11 907	439 182	10 580	13 144	363 142	738 082	1 023 945	1 751 439	106 128
33639	Other motor vehicle parts manufacturing .....	3	22	14	1 426	52 656	1 069	2 100	32 342	166 092	176 330	344 772	12 082
336399	All other motor vehicle parts manufacturing .....	3	22	14	1 426	52 656	1 069	2 100	32 342	166 092	176 330	344 772	12 082
337	Furniture and related product manufacturing .....	4	65	18	1 745	53 652	1 286	1 801	33 436	122 599	106 265	227 409	2 965
3372	Office furniture (including fixtures) manufacturing .....	2	25	11	1 064	35 854	726	837	20 118	76 221	70 565	145 441	1 495
33721	Office furniture (including fixtures) manufacturing .....	2	25	11	1 064	35 854	726	837	20 118	76 221	70 565	145 441	1 495
337215	Showcase, partition, shelving, and locker manufacturing .....	2	12	7	882	28 234	607	625	15 444	61 304	64 902	124 875	1 211
339	Miscellaneous manufacturing .....	2	146	21	1 770	70 497	1 100	2 165	37 390	193 526	107 974	294 963	4 407
3391	Medical equipment and supplies manufacturing .....	1	56	8	757	28 820	453	890	14 623	96 746	43 879	137 437	1 852
33911	Medical equipment and supplies manufacturing .....	1	56	8	757	28 820	453	890	14 623	96 746	43 879	137 437	1 852
3399	Other miscellaneous manufacturing .....	3	90	13	1 013	41 677	647	1 275	22 767	96 780	64 095	157 526	2 555
33999	All other miscellaneous manufacturing .....	3	34	6	505	24 352	327	660	14 656	60 706	37 756	95 536	1 021
<b>WEXFORD</b>													
31-33	Manufacturing .....	1	62	23	h	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	—	6	5	g	D	D	D	D	D	D	D	D
3262	Rubber product manufacturing .....	—	5	4	g	D	D	D	D	D	D	D	D
32622	Rubber and plastics hoses and belting manufacturing .....	—	3	2	f	D	D	D	D	D	D	D	D
326220	Rubber and plastics hoses and belting manufacturing .....	—	3	2	f	D	D	D	D	D	D	D	D
32629	Other rubber product manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
326291	Rubber product manufacturing for mechanical use .....	—	2	2	f	D	D	D	D	D	D	D	D

See footnotes at end of table.

**Table 3. Industry Statistics for Counties: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
		E <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)					Wages (\$1,000)
<b>WEXFORD—Con.</b>													
336	Transportation equipment manufacturing .....	—	6	4	959	32 466	787	1 698	23 020	125 773	148 831	274 969	D
3366	Ship and boat building .....	—	1	1	f	D	D	D	D	D	D	D	D
33661	Ship and boat building .....	—	1	1	f	D	D	D	D	D	D	D	D
336612	Boat building .....	—	1	1	f	D	D	D	D	D	D	D	D

<sup>1</sup>Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data 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.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Industries with 500 employees or more are shown. Some statistics are withheld to avoid disclosing data for individual companies. If employment is 500 or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: f–500 to 999 employees; g–1,000 to 2,499 employees; h–2,500 to 4,999 employees; i–5,000 to 9,999 employees; j–10,000 to 24,999 employees; k–25,000 to 49,999 employees; l–50,000 to 99,999 employees; m–100,000 employees or more.

<sup>4</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

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 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. Industry Statistics for Places: 2002**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E1	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>ADRIAN</b>													
31-33	Manufacturing .....	-	36	17	2 257	87 326	1 709	3 450	58 587	307 473	271 064	576 014	10 408
337	Furniture and related product manufacturing .....	-	3	2	f	D	D	D	D	D	D	D	D
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
33711	Wood kitchen cabinet and countertop manufacturing ....	-	1	1	f	D	D	D	D	D	D	D	D
337110	Wood kitchen cabinet and countertop manufacturing ..	-	1	1	f	D	D	D	D	D	D	D	D
<b>ALBION</b>													
31-33	Manufacturing .....	3	21	9	1 039	39 305	762	1 585	26 166	102 002	80 085	182 977	4 059
<b>ALLEGAN</b>													
31-33	Manufacturing .....	-	12	4	h	D	D	D	D	D	D	D	D
325	Chemical manufacturing .....	-	1	1	h	D	D	D	D	D	D	D	D
3254	Pharmaceutical and medicine manufacturing .....	-	1	1	h	D	D	D	D	D	D	D	D
32541	Pharmaceutical and medicine manufacturing .....	-	1	1	h	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation manufacturing .....	-	1	1	h	D	D	D	D	D	D	D	D
<b>ALLENDALE</b>													
31-33	Manufacturing .....	-	14	5	612	19 757	440	854	12 554	54 655	117 754	171 862	2 314
<b>ALLEN PARK</b>													
31-33	Manufacturing .....	-	18	2	f	D	D	D	D	D	D	D	D
<b>ALMA</b>													
31-33	Manufacturing .....	-	19	7	1 575	53 283	1 286	2 313	33 421	120 391	132 377	251 819	5 463
336	Transportation equipment manufacturing .....	-	4	4	g	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
33635	Motor vehicle transmission and power train parts manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
336350	Motor vehicle transmission and power train parts manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>ALPENA</b>													
31-33	Manufacturing .....	4	29	12	1 590	69 155	1 079	2 112	40 807	205 654	158 589	369 123	7 344
333	Machinery manufacturing .....	-	10	4	f	D	D	D	D	D	D	D	D
<b>ALPINE</b>													
31-33	Manufacturing .....	-	27	11	1 255	45 198	986	2 069	31 489	87 190	54 740	139 577	3 351
336	Transportation equipment manufacturing .....	-	3	1	f	D	D	D	D	D	D	D	D
3369	Other transportation equipment manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
33699	Other transportation equipment manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
336999	All other transportation equipment manufacturing ..	-	1	1	f	D	D	D	D	D	D	D	D
<b>ANN ARBOR</b>													
31-33	Manufacturing .....	3	75	16	2 440	98 795	1 493	2 962	48 838	227 197	182 431	415 750	11 635
323	Printing and related support activities .....	7	15	4	653	21 812	435	905	13 834	45 213	27 162	72 762	2 044
3231	Printing and related support activities .....	7	15	4	653	21 812	435	905	13 834	45 213	27 162	72 762	2 044
32311	Printing .....	7	14	4	f	D	D	D	D	D	D	D	2 044

See footnotes at end of table.



**Table 4. Industry Statistics for Places: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E1	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>AUBURN HILLS</b>													
31-33	Manufacturing .....	—	97	55	8 492	439 257	3 963	7 705	153 570	885 755	1 243 878	2 156 754	32 170
326	Plastics and rubber products manufacturing .....	—	12	6	520	19 354	296	594	7 968	31 062	34 129	64 329	6 107
3261	Plastics product manufacturing ..	—	10	6	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	1	14	7	703	24 738	454	747	11 033	58 906	43 426	101 371	2 961
333	Machinery manufacturing .....	1	27	17	3 479	227 771	1 091	2 472	60 767	447 142	629 458	1 088 704	8 965
3335	Metalworking machinery manufacturing .....	3	14	10	1 196	71 282	563	1 258	28 899	171 315	168 822	338 776	6 039
33351	Metalworking machinery manufacturing .....	3	14	10	1 196	71 282	563	1 258	28 899	171 315	168 822	338 776	6 039
333518	Other metalworking machinery manufacturing ..	4	5	5	774	46 621	292	623	14 820	121 991	146 653	270 983	2 524
3339	Other general purpose machinery manufacturing .....	—	10	5	g	D	D	D	D	D	D	D	2 373
33399	All other general purpose machinery manufacturing ....	—	6	2	g	D	D	D	D	D	D	D	D
333999	All other miscellaneous general purpose machinery manufacturing .....	—	3	2	g	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing .....	—	8	6	g	D	D	D	D	D	D	D	D
3344	Semiconductor and other electronic component manufacturing .....	—	3	3	g	D	D	D	D	D	D	D	D
33441	Semiconductor and other electronic component manufacturing .....	—	3	3	g	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) manufacturing .....	—	1	1	g	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	—	10	10	1 607	66 699	1 061	1 596	31 897	159 550	267 075	427 282	5 147
3363	Motor vehicle parts manufacturing .....	—	10	10	1 607	66 699	1 061	1 596	31 897	159 550	267 075	427 282	5 147
33636	Motor vehicle seating and interior trim manufacturing ....	—	2	2	f	D	D	D	D	D	D	D	D
336360	Motor vehicle seating and interior trim manufacturing ..	—	2	2	f	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts manufacturing .....	—	4	4	510	25 468	265	618	7 997	72 712	106 291	178 700	D
<b>BAD AXE</b>													
31-33	Manufacturing .....	—	14	8	875	26 268	662	1 414	18 571	101 114	82 964	185 865	11 311
<b>BATTLE CREEK</b>													
31-33	Manufacturing .....	—	80	38	7 850	350 234	5 967	11 958	240 276	1 529 903	1 274 723	2 793 291	165 662
311	Food manufacturing .....	—	10	4	g	D	D	D	D	D	D	D	D
3112	Grain and oilseed milling .....	—	4	3	1 479	102 481	1 190	2 584	81 976	615 589	280 670	888 530	D
31123	Breakfast cereal manufacturing .....	—	4	3	1 479	102 481	1 190	2 584	81 976	615 589	280 670	888 530	D
311230	Breakfast cereal manufacturing .....	—	4	3	1 479	102 481	1 190	2 584	81 976	615 589	280 670	888 530	D
333	Machinery manufacturing .....	—	10	4	626	20 012	429	720	9 756	45 301	37 693	82 285	D
3339	Other general purpose machinery manufacturing .....	—	4	3	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing .....	—	2	2	g	D	D	D	D	D	D	D	D
3359	Other electrical equipment and component manufacturing .....	—	2	2	g	D	D	D	D	D	D	D	D
33593	Wiring device manufacturing ...	—	1	1	f	D	D	D	D	D	D	D	D
335931	Current-carrying wiring device manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	—	8	7	2 935	120 930	2 439	4 662	85 841	614 586	637 380	1 250 344	73 052
3363	Motor vehicle parts manufacturing .....	—	7	6	h	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical and electronic equipment manufacturing .....	—	2	2	g	D	D	D	D	D	D	D	D
336321	Vehicular lighting equipment manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts manufacturing .....	—	2	2	g	D	D	D	D	D	D	D	D
336391	Motor vehicle air-conditioning manufacturing .....	—	1	1	g	D	D	D	D	D	D	D	D

See footnotes at end of table.

**Table 4. Industry Statistics for Places: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E1	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>BAY CITY</b>													
31-33	Manufacturing .....	-	57	24	3 211	177 395	2 533	5 143	134 879	292 738	384 868	685 281	31 351
336	Transportation equipment manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
33631	Motor vehicle gasoline engine and engine parts manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
336312	Gasoline engine and engine parts manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
<b>BEDFORD</b>													
31-33	Manufacturing .....	1	34	14	1 163	54 636	796	1 800	32 347	103 227	71 064	169 434	6 527
<b>BELDING</b>													
31-33	Manufacturing .....	-	21	10	f	D	D	D	D	D	D	D	5 737
<b>BENTON</b>													
31-33	Manufacturing .....	3	56	26	2 686	95 573	2 175	4 434	65 425	230 596	271 407	500 829	10 191
336	Transportation equipment manufacturing .....	6	3	2	g	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	6	3	2	g	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts manufacturing .....	6	2	2	g	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts manufacturing .....	6	2	2	g	D	D	D	D	D	D	D	D
<b>BENTON HARBOR</b>													
31-33	Manufacturing .....	1	34	13	1 336	50 445	1 049	2 171	34 905	131 380	143 279	273 527	5 440
<b>BIG RAPIDS</b>													
31-33	Manufacturing .....	-	18	9	g	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	-	5	4	f	D	D	D	D	D	D	D	D
<b>BIRMINGHAM</b>													
31-33	Manufacturing .....	4	40	8	751	25 708	508	1 005	13 649	77 504	72 996	151 991	2 192
<b>BLACKMAN</b>													
31-33	Manufacturing .....	-	64	31	3 272	128 270	2 339	4 705	83 800	331 367	276 961	621 580	17 529
332	Fabricated metal product manufacturing .....	-	26	12	843	30 395	650	1 159	20 788	73 025	62 060	135 854	D
336	Transportation equipment manufacturing .....	-	5	5	g	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	-	5	5	g	D	D	D	D	D	D	D	D
<b>BLISSFIELD</b>													
31-33	Manufacturing .....	-	13	5	656	24 491	469	981	15 801	70 819	79 362	148 797	3 170
<b>BOYNE CITY</b>													
31-33	Manufacturing .....	2	9	5	739	28 984	576	1 226	19 586	76 050	42 310	118 664	11 257
<b>BRIDGEPORT</b>													
31-33	Manufacturing .....	-	21	9	f	D	D	D	D	D	D	D	3 815
<b>BRIGHTON CITY</b>													
31-33	Manufacturing .....	1	35	11	1 134	43 651	742	1 527	28 602	111 057	105 355	214 296	5 228
336	Transportation equipment manufacturing .....	-	4	2	f	D	D	D	D	D	D	D	1 819
3363	Motor vehicle parts manufacturing .....	-	4	2	f	D	D	D	D	D	D	D	1 819
33636	Motor vehicle seating and interior trim manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
336360	Motor vehicle seating and interior trim manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>BRIGHTON TOWNSHIP</b>													
31-33	Manufacturing .....	1	24	9	546	22 987	289	538	9 557	57 446	37 102	95 588	952
<b>BROWNSTOWN</b>													
31-33	Manufacturing .....	1	17	3	f	D	D	D	D	D	D	D	2 110

See footnotes at end of table.

**Table 4. Industry Statistics for Places: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
		E <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)					Wages (\$1,000)
<b>BUENA VISTA</b>													
31-33	Manufacturing .....	-	22	8	i	D	D	D	D	D	D	D	
336	Transportation equipment manufacturing .....	-	4	1	i	D	D	D	D	D	D	D	
3363	Motor vehicle parts manufacturing .....	-	4	1	i	D	D	D	D	D	D	D	
33633	Motor vehicle steering and suspension component (except spring) manufacturing .....	-	1	1	i	D	D	D	D	D	D	D	
336330	Motor vehicle steering and suspension component (except spring) manufacturing .....	-	1	1	i	D	D	D	D	D	D	D	
<b>BYRON</b>													
31-33	Manufacturing .....	3	34	11	1 078	47 651	861	1 776	35 630	91 914	88 147	180 843	9 842
<b>CADILLAC</b>													
31-33	Manufacturing .....	1	39	19	3 581	120 683	2 746	5 502	76 242	351 275	352 739	708 876	15 264
326	Plastics and rubber products manufacturing .....	-	4	3	1 092	33 935	829	1 553	20 016	72 571	64 488	137 975	2 030
3262	Rubber product manufacturing .....	-	4	3	1 092	33 935	829	1 553	20 016	72 571	64 488	137 975	2 030
32622	Rubber and plastics hoses and belting manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
326220	Rubber and plastics hoses and belting manufacturing ..	-	2	1	f	D	D	D	D	D	D	D	D
32629	Other rubber product manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
326291	Rubber product manufacturing for mechanical use .....	-	2	2	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	6	4	959	32 466	787	1 698	23 020	125 773	148 831	274 969	D
3366	Ship and boat building .....	-	1	1	f	D	D	D	D	D	D	D	D
33661	Ship and boat building .....	-	1	1	f	D	D	D	D	D	D	D	D
336612	Boat building .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>CANTON</b>													
31-33	Manufacturing .....	2	68	29	2 565	97 988	1 842	3 718	59 964	252 240	251 130	494 148	15 137
332	Fabricated metal product manufacturing .....	3	22	13	1 061	41 672	778	1 617	26 653	93 796	85 281	170 650	9 985
<b>CASCADE</b>													
31-33	Manufacturing .....	1	57	31	5 375	253 324	3 731	8 058	153 593	544 691	334 248	877 133	49 621
326	Plastics and rubber products manufacturing .....	-	11	8	1 508	58 600	993	1 987	27 772	132 812	118 036	252 939	9 428
3261	Plastics product manufacturing ..	-	8	6	g	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	-	5	5	1 253	49 392	809	1 618	22 384	113 780	98 147	213 081	D
326199	All other plastics product manufacturing .....	-	5	5	1 253	49 392	809	1 618	22 384	113 780	98 147	213 081	D
331	Primary metal manufacturing .....	3	3	2	f	D	D	D	D	D	D	D	D
3315	Foundries .....	3	2	2	f	D	D	D	D	D	D	D	D
33152	Nonferrous metal foundries .....	3	2	2	f	D	D	D	D	D	D	D	D
331521	Aluminum die-casting foundries .....	3	2	2	f	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing .....	-	4	2	g	D	D	D	D	D	D	D	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	-	4	2	g	D	D	D	D	D	D	D	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	-	4	2	g	D	D	D	D	D	D	D	D
334511	Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing .....	-	2	2	g	D	D	D	D	D	D	D	D

See footnotes at end of table.

**Table 4. Industry Statistics for Places: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>CENTER LINE</b>													
31-33	Manufacturing .....	6	20	9	g	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	7	4	3	g	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	7	4	3	g	D	D	D	D	D	D	D	D
33637	Motor vehicle metal stamping ..	7	3	2	g	D	D	D	D	D	D	D	D
336370	Motor vehicle metal stamping .....	7	3	2	g	D	D	D	D	D	D	D	D
<b>CHARLEVOIX</b>													
31-33	Manufacturing .....	7	17	6	555	17 028	447	913	10 343	54 141	64 077	118 783	2 014
<b>CHARLOTTE</b>													
31-33	Manufacturing .....	-	18	10	1 335	51 227	918	3 214	31 950	128 307	231 682	361 002	D
<b>CHELSEA</b>													
31-33	Manufacturing .....	-	18	8	1 282	53 482	950	1 844	34 409	168 180	115 595	290 498	3 963
<b>CHESTERFIELD</b>													
31-33	Manufacturing .....	-	121	53	6 469	276 465	5 087	10 220	197 088	525 248	756 607	1 281 601	50 007
326	Plastics and rubber products manufacturing .....	-	14	9	808	26 040	631	1 243	17 639	59 318	50 340	109 836	26 494
3261	Plastics product manufacturing ..	-	13	8	f	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	-	12	7	f	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing .....	-	11	7	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	3	34	10	725	25 972	563	1 160	17 772	49 624	50 536	103 052	2 278
333	Machinery manufacturing .....	-	32	15	1 003	52 324	601	1 250	27 166	106 248	63 081	180 411	4 623
3335	Metalworking machinery manufacturing .....	-	23	10	633	34 495	409	895	20 398	48 956	39 388	97 434	2 913
33351	Metalworking machinery manufacturing .....	-	23	10	633	34 495	409	895	20 398	48 956	39 388	97 434	2 913
336	Transportation equipment manufacturing .....	-	24	14	3 627	160 621	3 083	6 152	128 485	282 429	559 896	828 279	14 991
3363	Motor vehicle parts manufacturing .....	-	21	13	h	D	D	D	D	D	D	D	14 885
33636	Motor vehicle seating and interior trim manufacturing ....	-	1	1	g	D	D	D	D	D	D	D	D
336360	Motor vehicle seating and interior trim manufacturing ..	-	1	1	g	D	D	D	D	D	D	D	D
33637	Motor vehicle metal stamping ..	-	13	8	1 014	35 646	892	1 952	27 315	105 207	99 201	197 364	4 009
336370	Motor vehicle metal stamping .....	-	13	8	1 014	35 646	892	1 952	27 315	105 207	99 201	197 364	4 009
<b>CLAWSON</b>													
31-33	Manufacturing .....	1	30	7	f	D	D	D	D	D	D	D	2 141
<b>CLINTON TOWNSHIP</b>													
31-33	Manufacturing .....	2	223	64	4 991	215 599	3 274	6 565	121 255	431 689	317 289	744 653	17 738
323	Printing and related support activities .....	1	16	4	526	28 417	263	461	10 368	57 306	26 416	81 942	1 806
3231	Printing and related support activities .....	1	16	4	526	28 417	263	461	10 368	57 306	26 416	81 942	1 806
332	Fabricated metal product manufacturing .....	-	69	17	1 222	49 903	848	1 716	29 012	102 360	43 565	145 299	3 580
333	Machinery manufacturing .....	1	60	17	1 354	61 405	907	1 926	38 323	95 835	66 828	161 108	5 178
3335	Metalworking machinery manufacturing .....	1	46	12	1 054	46 640	711	1 479	30 074	68 982	40 831	108 178	2 975
33351	Metalworking machinery manufacturing .....	1	46	12	1 054	46 640	711	1 479	30 074	68 982	40 831	108 178	2 975
333514	Special die and tool, die set, jig, and fixture manufacturing .....	-	26	7	560	23 120	405	855	17 140	34 915	23 988	57 326	2 189
336	Transportation equipment manufacturing .....	3	15	8	734	35 622	447	914	19 389	88 775	108 996	196 103	2 916
3363	Motor vehicle parts manufacturing .....	3	15	8	734	35 622	447	914	19 389	88 775	108 996	196 103	2 916
<b>COLDWATER</b>													
31-33	Manufacturing .....	-	45	26	2 416	85 829	1 765	3 569	56 433	229 035	303 173	533 519	D

See footnotes at end of table.

**Table 4. Industry Statistics for Places: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E1	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>COMMERCE (BALANCE)</b>													
31-33	Manufacturing .....	4	72	20	1 581	59 883	1 167	2 317	36 059	130 667	96 048	227 050	4 577
326	Plastics and rubber products manufacturing .....	6	7	4	555	19 643	433	870	11 902	45 940	38 579	85 509	2 542
3261	Plastics product manufacturing ..	6	6	3	f	D	D	D	D	D	D	D	D
<b>COMSTOCK</b>													
31-33	Manufacturing .....	-	23	10	g	D	D	D	D	D	D	D	5 017
332	Fabricated metal product manufacturing .....	-	7	1	f	D	D	D	D	D	D	D	D
3329	Other fabricated metal product manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
33299	All other fabricated metal product manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
332999	All other miscellaneous fabricated metal product manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>COOPERSVILLE</b>													
31-33	Manufacturing .....	-	16	5	1 262	52 223	1 044	1 973	39 815	251 967	120 301	366 879	4 988
336	Transportation equipment manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
33631	Motor vehicle gasoline engine and engine parts manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
336312	Gasoline engine and engine parts manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>DEARBORN</b>													
31-33	Manufacturing .....	-	104	37	13 848	664 045	11 775	17 987	529 342	1 218 197	3 658 682	4 886 426	105 551
331	Primary metal manufacturing .....	-	2	2	h	D	D	D	D	D	D	D	D
3311	Iron and steel mills and ferroalloy manufacturing .....	-	1	1	h	D	D	D	D	D	D	D	D
33111	Iron and steel mills and ferroalloy manufacturing .....	-	1	1	h	D	D	D	D	D	D	D	D
331111	Iron and steel mills .....	-	1	1	h	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	5	18	8	583	22 882	450	725	15 975	42 514	67 649	107 595	3 094
333	Machinery manufacturing .....	1	15	5	1 392	60 310	1 213	1 336	48 848	119 356	31 499	152 258	2 584
3335	Metalworking machinery manufacturing .....	-	7	3	g	D	D	D	D	D	D	D	1 558
33351	Metalworking machinery manufacturing .....	-	7	3	g	D	D	D	D	D	D	D	1 558
333514	Special die and tool, die set, jig, and fixture manufacturing .....	-	5	3	g	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	9	5	i	D	D	D	D	D	D	D	D
3361	Motor vehicle manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
33611	Automobile and light duty motor vehicle manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
336111	Automobile manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	-	8	4	i	D	D	D	D	D	D	D	D
33631	Motor vehicle gasoline engine and engine parts manufacturing .....	-	2	1	h	D	D	D	D	D	D	D	D
336312	Gasoline engine and engine parts manufacturing .....	-	2	1	h	D	D	D	D	D	D	D	D
33637	Motor vehicle metal stamping ..	-	3	2	h	D	D	D	D	D	D	D	D
336370	Motor vehicle metal stamping .....	-	3	2	h	D	D	D	D	D	D	D	D
<b>DELHI</b>													
31-33	Manufacturing .....	-	31	13	g	D	D	D	D	D	D	D	D

See footnotes at end of table.

**Table 4. Industry Statistics for Places: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E1	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>DETROIT</b>													
31-33	Manufacturing .....	-	647	187	38 019	2 054 042	30 079	62 244	1 564 994	8 696 333	14 123 468	22 796 829	383 626
311	Food manufacturing .....	2	74	23	3 013	81 441	2 292	4 708	50 859	317 784	577 469	888 069	16 083
3116	Animal slaughtering and processing .....	2	14	9	1 991	48 834	1 627	3 373	33 985	218 182	481 769	694 452	12 237
31161	Animal slaughtering and processing .....	2	14	9	1 991	48 834	1 627	3 373	33 985	218 182	481 769	694 452	12 237
311612	Meat processed from carcasses .....	2	9	6	g	D	D	D	D	D	D	D	D
311615	Poultry processing .....	9	2	2	f	D	D	D	D	D	D	D	D
312	Beverage and tobacco product manufacturing .....	-	7	4	f	D	D	D	D	D	D	D	D
3121	Beverage manufacturing .....	-	6	4	f	D	D	D	D	D	D	D	D
31211	Soft drink and ice manufacturing .....	-	4	4	f	D	D	D	D	D	D	D	D
312111	Soft drink manufacturing .....	-	4	4	f	D	D	D	D	D	D	D	D
322	Paper manufacturing .....	1	15	7	643	23 264	501	1 110	14 619	43 911	105 342	151 248	D
323	Printing and related support activities .....	3	62	8	666	28 903	454	856	17 029	56 756	24 405	81 540	3 248
3231	Printing and related support activities .....	3	62	8	666	28 903	454	856	17 029	56 756	24 405	81 540	3 248
32311	Printing .....	3	49	6	533	21 831	380	699	13 101	44 215	22 121	66 883	2 834
324	Petroleum and coal products manufacturing .....	-	14	6	778	42 210	511	950	22 728	232 732	828 482	1 021 333	29 958
3241	Petroleum and coal products manufacturing .....	-	14	6	778	42 210	511	950	22 728	232 732	828 482	1 021 333	29 958
325	Chemical manufacturing .....	4	40	12	718	31 418	439	856	17 673	95 712	108 377	208 027	16 330
326	Plastics and rubber products manufacturing .....	-	22	7	674	22 813	469	1 043	13 218	72 724	140 764	215 196	3 384
3261	Plastics product manufacturing ..	-	16	7	659	22 378	458	1 022	12 933	72 109	140 270	213 909	D
32619	Other plastics product manufacturing .....	-	9	5	576	19 314	403	898	11 009	53 478	126 700	180 554	2 421
326199	All other plastics product manufacturing .....	-	9	5	576	19 314	403	898	11 009	53 478	126 700	180 554	2 421
327	Nonmetallic mineral product manufacturing .....	3	22	11	1 800	107 748	1 514	3 034	87 790	278 555	186 549	464 241	7 162
3272	Glass and glass product manufacturing .....	1	2	2	g	D	D	D	D	D	D	D	D
32721	Glass and glass product manufacturing .....	1	2	2	g	D	D	D	D	D	D	D	D
327215	Glass product manufacturing made of purchased glass ..	-	1	1	g	D	D	D	D	D	D	D	D
331	Primary metal manufacturing .....	-	18	9	716	27 964	476	1 003	16 022	78 274	158 075	237 085	D
332	Fabricated metal product manufacturing .....	6	167	37	3 341	124 601	2 551	5 240	83 884	377 581	356 159	735 587	15 488
3323	Architectural and structural metals manufacturing .....	6	30	6	587	23 085	414	836	14 866	29 132	121 256	154 361	2 353
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	7	48	8	968	35 925	794	1 662	27 392	207 552	157 367	363 253	9 219
33272	Turned product and screw, nut, and bolt manufacturing .....	7	17	6	626	22 343	523	1 102	17 156	176 395	135 244	309 811	7 842
3328	Coating, engraving, heat treating, and allied activities .....	3	50	16	1 318	48 257	995	2 027	30 831	104 259	50 161	153 822	2 866
33281	Coating, engraving, heat treating, and allied activities ..	3	50	16	1 318	48 257	995	2 027	30 831	104 259	50 161	153 822	2 866
332812	Metal coating, engraving (except jewelry and silverware), and allied services to manufacturers ..	4	15	6	502	18 992	376	726	12 312	49 176	33 900	81 644	1 589
332813	Electroplating, plating, polishing, anodizing, and coloring .....	1	25	7	592	19 452	464	955	12 887	34 857	9 495	45 196	1 099
333	Machinery manufacturing .....	-	59	15	3 404	202 588	1 940	4 168	96 575	535 992	920 334	1 498 003	D
3336	Engine, turbine, and power transmission equipment manufacturing .....	-	3	1	h	D	D	D	D	D	D	D	D
33361	Engine, turbine, and power transmission equipment manufacturing .....	-	3	1	h	D	D	D	D	D	D	D	D
333618	Other engine equipment manufacturing .....	-	1	1	h	D	D	D	D	D	D	D	D

See footnotes at end of table.

**Table 4. Industry Statistics for Places: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
		E <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)					Wages (\$1,000)
<b>DETROIT—Con.</b>													
336	Transportation equipment manufacturing .....	-	48	28	20 172	1 278 785	17 769	36 890	1 111 397	6 409 049	10 372 738	16 757 484	194 929
3361	Motor vehicle manufacturing .....	-	4	4	i	D	D	D	D	D	D	D	D
33611	Automobile and light duty motor vehicle manufacturing .....	-	3	3	i	D	D	D	D	D	D	D	D
336111	Automobile manufacturing .....	-	2	2	h	D	D	D	D	D	D	D	D
336112	Light truck and utility vehicle manufacturing .....	-	1	1	h	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	-	40	24	j	D	D	D	D	D	D	D	D
33631	Motor vehicle gasoline engine and engine parts manufacturing .....	-	9	3	h	D	D	D	D	D	D	D	D
336312	Gasoline engine and engine parts manufacturing .....	-	8	3	h	D	D	D	D	D	D	D	D
33635	Motor vehicle transmission and power train parts manufacturing .....	-	4	3	i	D	D	D	D	D	D	D	D
336350	Motor vehicle transmission and power train parts manufacturing .....	-	4	3	i	D	D	D	D	D	D	D	D
33636	Motor vehicle seating and interior trim manufacturing .....	-	3	3	g	D	D	D	D	D	D	D	D
336360	Motor vehicle seating and interior trim manufacturing .....	-	3	3	g	D	D	D	D	D	D	D	D
33637	Motor vehicle metal stamping .....	4	10	8	1 967	89 946	1 751	3 223	76 858	156 786	220 795	376 877	9 822
336370	Motor vehicle metal stamping .....	4	10	8	1 967	89 946	1 751	3 223	76 858	156 786	220 795	376 877	9 822
33639	Other motor vehicle parts manufacturing .....	8	7	5	700	25 208	552	1 175	16 785	58 876	67 393	126 674	D
336399	All other motor vehicle parts manufacturing .....	8	7	5	700	25 208	552	1 175	16 785	58 876	67 393	126 674	D
339	Miscellaneous manufacturing .....	4	35	7	545	20 325	300	615	8 099	37 619	25 058	62 011	D
<b>DOWAGIAC</b>													
31-33	Manufacturing .....	2	23	9	g	D	D	D	D	D	D	D	D
331	Primary metal manufacturing .....	-	4	3	f	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	9	2	1	f	D	D	D	D	D	D	D	D
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	9	1	1	f	D	D	D	D	D	D	D	D
33712	Household and institutional furniture manufacturing .....	9	1	1	f	D	D	D	D	D	D	D	D
337122	Nonupholstered wood household furniture manufacturing .....	9	1	1	f	D	D	D	D	D	D	D	D
<b>EAST JORDAN</b>													
31-33	Manufacturing .....	-	8	4	820	35 256	589	1 219	21 705	114 702	58 702	171 419	7 771
331	Primary metal manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
3315	Foundries .....	-	1	1	f	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries .....	-	1	1	f	D	D	D	D	D	D	D	D
331511	Iron foundries .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>EATON RAPIDS</b>													
31-33	Manufacturing .....	-	11	5	964	36 227	699	1 467	21 095	74 326	125 403	200 259	7 837
<b>ECORSE</b>													
31-33	Manufacturing .....	-	10	5	h	D	D	D	D	D	D	D	D
331	Primary metal manufacturing .....	-	2	1	h	D	D	D	D	D	D	D	D
3311	Iron and steel mills and ferroalloy manufacturing .....	-	1	1	h	D	D	D	D	D	D	D	D
33111	Iron and steel mills and ferroalloy manufacturing .....	-	1	1	h	D	D	D	D	D	D	D	D
331111	Iron and steel mills .....	-	1	1	h	D	D	D	D	D	D	D	D
<b>ESCANABA</b>													
31-33	Manufacturing .....	-	27	8	737	27 542	483	1 029	15 085	64 990	60 632	119 553	D

See footnotes at end of table.

**Table 4. Industry Statistics for Places: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>FARMINGTON HILLS</b>													
31-33	Manufacturing .....	1	123	41	3 551	156 585	2 118	4 277	71 479	346 582	265 873	596 628	15 708
332	Fabricated metal product manufacturing .....	—	23	9	725	28 912	524	1 130	16 253	61 916	39 922	102 541	3 993
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	—	11	6	540	20 303	404	871	11 648	46 768	31 557	79 339	2 991
333	Machinery manufacturing .....	—	25	15	1 385	73 524	707	1 410	28 832	171 992	147 836	301 955	D
3335	Metalworking machinery manufacturing .....	—	16	8	605	36 596	268	602	14 184	88 897	52 666	123 656	D
33351	Metalworking machinery manufacturing .....	—	16	8	605	36 596	268	602	14 184	88 897	52 666	123 656	D
3339	Other general purpose machinery manufacturing .....	1	5	5	517	18 857	357	632	10 169	37 288	42 763	80 416	D
339	Miscellaneous manufacturing .....	—	19	4	531	21 064	300	604	9 150	42 744	31 251	74 294	1 118
<b>FENTON CITY</b>													
31-33	Manufacturing .....	—	27	12	g	D	D	D	D	D	D	D	2 692
336	Transportation equipment manufacturing .....	—	2	1	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
33636	Motor vehicle seating and interior trim manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
336360	Motor vehicle seating and interior trim manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
<b>FERNDALE</b>													
31-33	Manufacturing .....	1	76	19	1 491	64 477	1 000	2 032	36 593	180 137	159 687	362 521	3 366
<b>FLAT ROCK</b>													
31-33	Manufacturing .....	—	8	3	h	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	—	1	1	h	D	D	D	D	D	D	D	D
3361	Motor vehicle manufacturing .....	—	1	1	h	D	D	D	D	D	D	D	D
33611	Automobile and light duty motor vehicle manufacturing .....	—	1	1	h	D	D	D	D	D	D	D	D
336111	Automobile manufacturing .....	—	1	1	h	D	D	D	D	D	D	D	D
<b>FLINT CITY</b>													
31-33	Manufacturing .....	—	88	30	j	D	D	D	D	D	D	D	117 590
322	Paper manufacturing .....	—	3	3	f	D	D	D	D	D	D	D	D
3222	Converted paper product manufacturing .....	—	3	3	f	D	D	D	D	D	D	D	D
32221	Paperboard container manufacturing .....	—	3	3	f	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing .....	—	1	1	g	D	D	D	D	D	D	D	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	—	1	1	g	D	D	D	D	D	D	D	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing .....	—	1	1	g	D	D	D	D	D	D	D	D
334514	Totalizing fluid meter and counting device manufacturing .....	—	1	1	g	D	D	D	D	D	D	D	D

See footnotes at end of table.



**Table 4. Industry Statistics for Places: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E1	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>FLINT CITY—Con.</b>													
336	Transportation equipment manufacturing .....	—	8	7	j	D	D	D	D	D	D	D	D
3361	Motor vehicle manufacturing .....	—	1	1	h	D	D	D	D	D	D	D	D
33611	Automobile and light duty motor vehicle manufacturing .....	—	1	1	h	D	D	D	D	D	D	D	D
336112	Light truck and utility vehicle manufacturing .....	—	1	1	h	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	—	6	6	i	D	D	D	D	D	D	D	D
33631	Motor vehicle gasoline engine and engine parts manufacturing .....	—	3	3	h	D	D	D	D	D	D	D	D
336312	Gasoline engine and engine parts manufacturing .....	—	3	3	h	D	D	D	D	D	D	D	D
33635	Motor vehicle transmission and power train parts manufacturing .....	—	1	1	g	D	D	D	D	D	D	D	D
336350	Motor vehicle transmission and power train parts manufacturing .....	—	1	1	g	D	D	D	D	D	D	D	D
33637	Motor vehicle metal stamping ..	—	1	1	g	D	D	D	D	D	D	D	D
336370	Motor vehicle metal stamping .....	—	1	1	g	D	D	D	D	D	D	D	D
<b>FOWLerville</b>													
31-33	Manufacturing .....	—	12	5	821	36 126	560	1 184	20 546	232 741	309 867	546 524	23 912
<b>FRASER</b>													
31-33	Manufacturing .....	1	158	59	4 467	188 152	3 106	6 366	114 954	396 649	269 361	674 706	21 622
326	Plastics and rubber products manufacturing .....	—	5	4	914	32 291	585	1 146	15 339	72 309	58 195	129 831	D
3261	Plastics product manufacturing ..	—	5	4	914	32 291	585	1 146	15 339	72 309	58 195	129 831	D
32619	Other plastics product manufacturing .....	—	5	4	914	32 291	585	1 146	15 339	72 309	58 195	129 831	D
326199	All other plastics product manufacturing .....	—	5	4	914	32 291	585	1 146	15 339	72 309	58 195	129 831	D
332	Fabricated metal product manufacturing .....	1	48	14	927	36 063	613	1 316	22 985	84 609	51 798	138 403	5 874
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	1	27	7	583	20 602	363	811	12 352	47 264	20 115	68 873	1 460
333	Machinery manufacturing .....	1	58	23	1 481	76 560	1 044	2 115	48 967	136 415	72 251	214 475	3 264
3335	Metalworking machinery manufacturing .....	1	47	18	1 067	52 134	784	1 576	33 948	95 547	39 850	134 908	D
33351	Metalworking machinery manufacturing .....	1	47	18	1 067	52 134	784	1 576	33 948	95 547	39 850	134 908	D
333514	Special die and tool, die set, jig, and fixture manufacturing .....	1	21	9	538	29 624	404	866	20 256	51 741	16 371	66 869	978
336	Transportation equipment manufacturing .....	2	18	9	626	25 788	467	1 000	16 842	62 953	60 821	125 001	4 241
3363	Motor vehicle parts manufacturing .....	2	15	9	f	D	D	D	D	D	D	D	D
<b>FREMONT</b>													
31-33	Manufacturing .....	4	9	3	f	D	D	D	D	D	D	D	D
<b>FRENCHTOWN</b>													
31-33	Manufacturing .....	3	12	3	f	D	D	D	D	D	D	D	3 356
<b>GAINES</b>													
31-33	Manufacturing .....	2	24	8	1 826	53 715	1 511	2 582	37 385	97 513	77 164	177 319	1 632
337	Furniture and related product manufacturing .....	—	1	1	g	D	D	D	D	D	D	D	D
3372	Office furniture (including fixtures) manufacturing .....	—	1	1	g	D	D	D	D	D	D	D	D
33721	Office furniture (including fixtures) manufacturing .....	—	1	1	g	D	D	D	D	D	D	D	D
337211	Wood office furniture manufacturing .....	—	1	1	g	D	D	D	D	D	D	D	D

See footnotes at end of table.

**Table 4. Industry Statistics for Places: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E1	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>GARFIELD</b>													
31-33	Manufacturing .....	-	78	20	2 820	100 020	2 201	4 534	69 401	307 379	315 113	620 825	10 648
311	Food manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
3118	Bakeries and tortilla manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
31181	Bread and bakery product manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
311813	Frozen cakes, pies, and other pastries manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing .....	-	3	1	f	D	D	D	D	D	D	D	D
3359	Other electrical equipment and component manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
33593	Wiring device manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
335931	Current-carrying wiring device manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	7	4	f	D	D	D	D	D	D	D	3 549
3363	Motor vehicle parts manufacturing .....	-	7	4	f	D	D	D	D	D	D	D	3 549
<b>GAYLORD</b>													
31-33	Manufacturing .....	-	30	12	1 189	41 334	955	1 914	27 675	70 918	98 802	167 471	4 547
<b>GEORGETOWN</b>													
31-33	Manufacturing .....	3	51	13	844	30 662	596	1 149	17 590	65 158	52 689	116 643	2 415
<b>GRAND BLANC CITY</b>													
31-33	Manufacturing .....	-	10	3	g	D	D	D	D	D	D	D	5 698
326	Plastics and rubber products manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
3261	Plastics product manufacturing ..	-	1	1	f	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
33637	Motor vehicle metal stamping ..	-	1	1	g	D	D	D	D	D	D	D	D
336370	Motor vehicle metal stamping .....	-	1	1	g	D	D	D	D	D	D	D	D
<b>GRAND BLANC TOWNSHIP</b>													
31-33	Manufacturing .....	4	29	12	g	D	D	D	D	D	D	D	D
<b>GRAND HAVEN CITY</b>													
31-33	Manufacturing .....	-	63	28	2 777	108 534	1 990	4 068	63 429	293 275	519 716	809 055	14 402
336	Transportation equipment manufacturing .....	1	7	5	800	36 865	553	1 171	20 011	70 586	71 307	143 649	2 884
3363	Motor vehicle parts manufacturing .....	1	6	4	f	D	D	D	D	D	D	D	D
<b>GRAND HAVEN TOWNSHIP</b>													
31-33	Manufacturing .....	7	41	13	1 851	68 941	1 546	3 149	48 248	128 143	132 103	260 450	13 242
336	Transportation equipment manufacturing .....	8	5	4	1 301	51 090	1 129	2 309	36 662	86 045	102 762	189 027	D
3363	Motor vehicle parts manufacturing .....	8	5	4	1 301	51 090	1 129	2 309	36 662	86 045	102 762	189 027	D
33637	Motor vehicle metal stamping ..	9	2	2	g	D	D	D	D	D	D	D	D
336370	Motor vehicle metal stamping .....	9	2	2	g	D	D	D	D	D	D	D	D

See footnotes at end of table.

**Table 4. Industry Statistics for Places: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E1	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>GRAND RAPIDS CITY</b>													
31-33	Manufacturing .....	1	'382	'159	'28 760	'1 280 824	'17 172	'34 328	'617 222	'2 710 557	'2 235 650	'4 960 254	'158 494
311	Food manufacturing .....	5	29	14	2 684	103 306	1 904	3 966	71 291	446 347	247 822	693 794	29 484
3112	Grain and oilseed milling .....	7	2	2	f	D	D	D	D	D	D	D	D
31123	Breakfast cereal manufacturing .....	7	2	2	f	D	D	D	D	D	D	D	D
311230	Breakfast cereal manufacturing .....	7	2	2	f	D	D	D	D	D	D	D	D
3118	Bakeries and tortilla manufacturing .....	2	15	7	1 379	52 749	815	1 627	32 682	208 221	113 965	322 050	7 714
31181	Bread and bakery product manufacturing .....	6	13	6	f	D	D	D	D	D	D	D	D
311812	Commercial bakeries .....	6	3	3	f	D	D	D	D	D	D	D	D
321	Wood product manufacturing .....	2	18	5	547	15 395	407	753	9 344	32 522	37 988	70 084	2 424
3219	Other wood product manufacturing .....	2	17	5	f	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	-	58	15	1 146	45 837	698	1 184	22 693	84 725	62 226	147 843	4 739
3231	Printing and related support activities .....	-	58	15	1 146	45 837	698	1 184	22 693	84 725	62 226	147 843	4 739
32311	Printing .....	-	50	15	1 089	44 034	665	1 124	21 676	82 135	61 771	144 777	D
323110	Commercial lithographic printing .....	-	23	8	548	18 085	367	510	9 798	38 589	22 796	61 876	2 442
326	Plastics and rubber products manufacturing .....	-	25	14	2 663	88 052	1 995	4 199	53 048	181 590	174 723	358 734	8 387
3261	Plastics product manufacturing ..	1	21	11	2 007	63 494	1 669	3 627	45 251	128 225	125 060	256 520	6 690
32619	Other plastics product manufacturing .....	-	16	7	1 734	55 001	1 451	3 144	39 661	105 314	94 231	202 671	5 865
326199	All other plastics product manufacturing .....	-	16	7	1 734	55 001	1 451	3 144	39 661	105 314	94 231	202 671	5 865
3262	Rubber product manufacturing ...	-	4	3	656	24 558	326	572	7 797	53 365	49 663	102 214	1 697
332	Fabricated metal product manufacturing .....	-	75	34	3 216	118 385	2 458	5 108	74 982	254 613	139 598	396 746	13 836
3325	Hardware manufacturing .....	-	4	3	g	D	D	D	D	D	D	D	D
33251	Hardware manufacturing .....	-	4	3	g	D	D	D	D	D	D	D	D
332510	Hardware manufacturing .....	-	4	3	g	D	D	D	D	D	D	D	D
3328	Coating, engraving, heat treating, and allied activities .....	1	24	15	1 111	34 860	905	1 855	24 744	65 812	26 342	91 707	4 935
33281	Coating, engraving, heat treating, and allied activities ..	1	24	15	1 111	34 860	905	1 855	24 744	65 812	26 342	91 707	4 935
332812	Metal coating, engraving (except jewelry and silverware), and allied services to manufacturers ..	-	9	8	582	17 672	477	940	12 688	37 620	15 695	53 205	1 603
333	Machinery manufacturing .....	-	42	22	6 358	318 266	2 506	4 630	115 644	621 517	610 618	1 237 773	24 502
3335	Metalworking machinery manufacturing .....	-	22	9	955	62 212	687	1 505	44 442	111 666	49 292	156 734	D
33351	Metalworking machinery manufacturing .....	-	22	9	955	62 212	687	1 505	44 442	111 666	49 292	156 734	D
3339	Other general purpose machinery manufacturing .....	-	13	11	5 268	251 819	1 711	2 933	68 448	500 602	554 663	1 065 105	17 839
33392	Material handling equipment manufacturing .....	-	4	3	h	D	D	D	D	D	D	D	D
333922	Conveyor and conveying equipment manufacturing ..	-	4	3	h	D	D	D	D	D	D	D	D
33399	All other general purpose machinery manufacturing ....	-	8	7	f	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing .....	-	6	4	607	19 789	360	511	7 893	66 018	58 344	122 825	D
3343	Audio and video equipment manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
33431	Audio and video equipment manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
334310	Audio and video equipment manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D

See footnotes at end of table.

**Table 4. Industry Statistics for Places: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E1	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>GRAND RAPIDS CITY—Con.</b>													
336	Transportation equipment manufacturing .....	2	15	10	2 293	96 689	1 799	3 822	67 247	223 420	242 493	464 586	10 070
3363	Motor vehicle parts manufacturing .....	2	12	9	g	D	D	D	D	D	D	D	D
33636	Motor vehicle seating and interior trim manufacturing . . .	—	1	1	f	D	D	D	D	D	D	D	D
336360	Motor vehicle seating and interior trim manufacturing . .	—	1	1	f	D	D	D	D	D	D	D	D
33637	Motor vehicle metal stamping . .	—	3	3	f	D	D	D	D	D	D	D	D
336370	Motor vehicle metal stamping .....	—	3	3	f	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts manufacturing .....	7	5	4	670	25 067	588	1 173	20 214	68 828	53 754	122 868	3 260
336399	All other motor vehicle parts manufacturing .....	8	4	3	f	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	—	29	13	7 063	395 640	3 605	7 298	152 392	541 383	442 857	990 969	D
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	1	11	5	f	D	D	D	D	D	D	D	4 563
3372	Office furniture (including fixtures) manufacturing .....	—	15	5	i	D	D	D	D	D	D	D	D
33721	Office furniture (including fixtures) manufacturing .....	—	15	5	i	D	D	D	D	D	D	D	D
337214	Office furniture (except wood) manufacturing .....	—	3	2	i	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing .....	—	31	8	630	24 331	397	783	12 973	102 764	30 375	133 940	3 830
<b>GRANDVILLE</b>													
31-33	Manufacturing .....	—	53	20	1 957	82 357	1 225	2 440	39 885	213 892	164 386	376 296	13 463
<b>GREEN OAK</b>													
31-33	Manufacturing .....	1	59	28	1 894	78 942	1 271	2 452	44 576	203 967	226 502	427 468	16 175
<b>GREENVILLE</b>													
31-33	Manufacturing .....	—	28	14	4 145	138 787	3 666	7 115	114 628	355 923	498 895	855 727	20 298
335	Electrical equipment, appliance, and component manufacturing .....	—	2	2	g	D	D	D	D	D	D	D	D
3352	Household appliance manufacturing .....	—	1	1	g	D	D	D	D	D	D	D	D
33522	Major appliance manufacturing. Household refrigerator and home freezer manufacturing .....	—	1	1	g	D	D	D	D	D	D	D	D
335222	Household refrigerator and home freezer manufacturing .....	—	1	1	g	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
<b>HAMBURG</b>													
31-33	Manufacturing .....	—	12	7	f	D	D	D	D	D	D	D	4 148
<b>HARRISON</b>													
31-33	Manufacturing .....	2	68	16	1 128	45 133	817	1 717	27 762	77 427	64 682	140 609	6 066
<b>HASTINGS</b>													
31-33	Manufacturing .....	3	27	7	1 549	54 125	1 188	2 390	33 952	128 127	84 758	212 398	3 515
326	Plastics and rubber products manufacturing .....	—	5	3	f	D	D	D	D	D	D	D	D
<b>HILLSDALE</b>													
31-33	Manufacturing .....	—	25	14	1 767	62 408	1 322	2 540	40 642	169 045	245 787	411 647	9 482

See footnotes at end of table.

**Table 4. Industry Statistics for Places: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E1	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>HOLLAND CITY</b>													
31-33	Manufacturing .....	1	'111	59	'13 310	'472 465	'9 297	'19 069	'291 106	'1 983 567	'1 618 690	'3 596 636	'75 781
311	Food manufacturing .....	-	8	3	943	30 474	834	1 690	23 872	494 536	172 701	666 261	4 929
312	Beverage and tobacco product manufacturing .....	-	3	2	g	D	D	D	D	D	D	D	D
3121	Beverage manufacturing .....	-	3	2	g	D	D	D	D	D	D	D	D
31211	Soft drink and ice manufacturing .....	-	3	2	g	D	D	D	D	D	D	D	D
312111	Soft drink manufacturing .....	-	2	2	g	D	D	D	D	D	D	D	D
325	Chemical manufacturing .....	7	4	2	f	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	-	9	6	1 886	61 576	1 332	2 939	34 083	213 922	212 005	422 265	6 600
3261	Plastics product manufacturing ..	-	9	6	1 886	61 576	1 332	2 939	34 083	213 922	212 005	422 265	6 600
32619	Other plastics product manufacturing .....	-	5	2	g	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing .....	-	4	1	g	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	-	21	8	674	22 751	502	904	14 177	65 028	31 930	96 893	829
336	Transportation equipment manufacturing .....	1	10	9	h	D	D	D	D	D	D	D	12 897
3363	Motor vehicle parts manufacturing .....	-	7	7	h	D	D	D	D	D	D	D	D
33636	Motor vehicle seating and interior trim manufacturing .....	-	3	3	g	D	D	D	D	D	D	D	D
336360	Motor vehicle seating and interior trim manufacturing ..	-	3	3	g	D	D	D	D	D	D	D	D
33637	Motor vehicle metal stamping ..	-	3	3	f	D	D	D	D	D	D	D	D
336370	Motor vehicle metal stamping .....	-	3	3	f	D	D	D	D	D	D	D	D
3366	Ship and boat building .....	9	2	1	f	D	D	D	D	D	D	D	D
33661	Ship and boat building .....	9	2	1	f	D	D	D	D	D	D	D	D
336612	Boat building .....	9	2	1	f	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	2	14	9	2 477	94 942	2 142	4 485	73 854	610 240	337 670	948 979	34 596
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	-	8	5	f	D	D	D	D	D	D	D	D
33712	Household and institutional furniture manufacturing .....	-	6	4	f	D	D	D	D	D	D	D	D
3372	Office furniture (including fixtures) manufacturing .....	2	5	4	g	D	D	D	D	D	D	D	D
33721	Office furniture (including fixtures) manufacturing .....	2	5	4	g	D	D	D	D	D	D	D	D
337214	Office furniture (except wood) manufacturing .....	2	2	2	g	D	D	D	D	D	D	D	D
<b>HOLLAND TOWNSHIP</b>													
31-33	Manufacturing .....	1	131	46	8 433	306 088	6 238	11 937	188 646	920 193	1 023 900	1 903 618	59 937
311	Food manufacturing .....	-	9	5	1 195	44 675	899	1 825	28 338	148 290	242 003	389 997	D
325	Chemical manufacturing .....	-	5	3	832	43 300	521	1 078	19 942	176 269	143 071	283 388	9 821
3254	Pharmaceutical and medicine manufacturing .....	-	3	2	f	D	D	D	D	D	D	D	D
32541	Pharmaceutical and medicine manufacturing .....	-	3	2	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing .....	-	6	5	g	D	D	D	D	D	D	D	D
3272	Glass and glass product manufacturing .....	-	3	3	g	D	D	D	D	D	D	D	D
32721	Glass and glass product manufacturing .....	-	3	3	g	D	D	D	D	D	D	D	D
327215	Glass product manufacturing made of purchased glass ..	-	3	3	g	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	1	35	7	1 317	47 935	1 014	2 034	31 606	90 478	65 309	158 184	5 641
3323	Architectural and structural metals manufacturing .....	1	5	2	f	D	D	D	D	D	D	D	D
33232	Ornamental and architectural metal products manufacturing .....	-	3	1	f	D	D	D	D	D	D	D	D
332323	Ornamental and architectural metal work manufacturing ..	-	1	1	f	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	7	21	5	796	29 570	537	781	16 480	68 883	72 790	137 957	1 600
334	Computer and electronic product manufacturing .....	-	4	3	f	D	D	D	D	D	D	D	D

See footnotes at end of table.

**Table 4. Industry Statistics for Places: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>HOLLAND TOWNSHIP—Con.</b>													
336	Transportation equipment manufacturing .....	1	6	3	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	1	4	2	f	D	D	D	D	D	D	D	D
33636	Motor vehicle seating and interior trim manufacturing .....	—	2	1	f	D	D	D	D	D	D	D	D
336360	Motor vehicle seating and interior trim manufacturing ..	—	2	1	f	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	8	11	7	1 126	29 569	885	1 747	19 980	119 390	82 005	199 287	5 128
3372	Office furniture (including fixtures) manufacturing .....	9	6	5	969	24 712	760	1 481	16 700	109 542	69 016	176 573	D
33721	Office furniture (including fixtures) manufacturing .....	9	6	5	969	24 712	760	1 481	16 700	109 542	69 016	176 573	D
337214	Office furniture (except wood) manufacturing .....	9	3	3	f	D	D	D	D	D	D	D	D
<b>HOWELL</b>													
31-33	Manufacturing .....	—	28	13	1 801	73 087	1 256	2 563	51 085	'278 984	'357 302	'634 886	14 659
336	Transportation equipment manufacturing .....	—	4	3	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	—	4	3	f	D	D	D	D	D	D	D	D
33637	Motor vehicle metal stamping ..	—	2	2	f	D	D	D	D	D	D	D	D
336370	Motor vehicle metal stamping .....	—	2	2	f	D	D	D	D	D	D	D	D
<b>IMLAY CITY</b>													
31-33	Manufacturing .....	—	12	8	1 249	40 485	947	1 946	28 345	150 230	114 556	265 626	8 442
<b>IONIA</b>													
31-33	Manufacturing .....	—	8	6	g	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	—	3	3	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	—	3	3	f	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
<b>JACKSON</b>													
31-33	Manufacturing .....	2	118	31	2 944	114 554	2 148	4 318	71 530	363 544	311 880	673 902	15 748
332	Fabricated metal product manufacturing .....	4	52	13	1 536	58 919	1 145	2 400	35 619	164 653	79 265	244 907	6 387
<b>KALAMAZOO CITY</b>													
31-33	Manufacturing .....	3	134	44	5 679	224 646	3 787	7 557	117 388	744 036	627 004	1 357 079	32 474
322	Paper manufacturing .....	—	10	8	1 722	60 172	1 379	2 777	40 770	270 757	245 944	510 455	7 752
3222	Converted paper product manufacturing .....	—	9	7	g	D	D	D	D	D	D	D	D
32221	Paperboard container manufacturing .....	—	7	5	1 125	35 138	911	1 795	24 587	181 600	151 344	334 047	D
322215	Nonfolding sanitary food container manufacturing ...	—	2	2	f	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	—	20	7	1 191	58 878	622	1 156	25 165	68 830	64 886	133 687	4 260
3339	Other general purpose machinery manufacturing .....	—	7	3	900	47 518	457	797	19 183	49 586	50 950	101 020	3 066
339	Miscellaneous manufacturing .....	9	13	2	f	D	D	D	D	D	D	D	D
3391	Medical equipment and supplies manufacturing .....	9	6	1	f	D	D	D	D	D	D	D	D
33911	Medical equipment and supplies manufacturing .....	9	6	1	f	D	D	D	D	D	D	D	D
339113	Surgical appliance and supplies manufacturing ....	9	1	1	f	D	D	D	D	D	D	D	D
<b>KALAMAZOO TOWNSHIP</b>													
31-33	Manufacturing .....	2	32	13	1 814	69 466	1 220	2 229	36 362	166 928	143 743	304 475	11 996

See footnotes at end of table.

**Table 4. Industry Statistics for Places: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>KENTWOOD</b>													
31-33	Manufacturing .....	1	123	68	10 110	393 908	7 362	14 441	227 984	1 011 065	863 524	1 871 505	63 207
326	Plastics and rubber products manufacturing .....	-	20	18	2 403	70 780	1 887	3 387	40 366	187 444	184 791	371 541	13 689
3261	Plastics product manufacturing ..	-	18	16	g	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	-	15	13	2 011	58 858	1 597	2 839	33 080	156 756	145 414	301 684	12 150
326199	All other plastics product manufacturing .....	-	13	11	g	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	-	17	8	1 147	37 805	906	1 568	27 323	106 600	122 870	228 053	7 145
333	Machinery manufacturing .....	-	26	15	2 423	126 494	1 407	3 051	59 809	233 381	169 755	402 228	18 546
3336	Engine, turbine, and power transmission equipment manufacturing .....	-	3	3	g	D	D	D	D	D	D	D	D
33361	Engine, turbine, and power transmission equipment manufacturing .....	-	3	3	g	D	D	D	D	D	D	D	D
333618	Other engine equipment manufacturing .....	-	2	2	g	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	8	6	1 153	46 433	861	1 685	26 753	139 895	157 882	301 055	5 121
3363	Motor vehicle parts manufacturing .....	-	6	4	f	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	9	5	2	f	D	D	D	D	D	D	D	D
3372	Office furniture (including fixtures) manufacturing .....	9	1	1	f	D	D	D	D	D	D	D	D
33721	Office furniture (including fixtures) manufacturing .....	9	1	1	f	D	D	D	D	D	D	D	D
337214	Office furniture (except wood) manufacturing .....	9	1	1	f	D	D	D	D	D	D	D	D
<b>KINGSFORD</b>													
31-33	Manufacturing .....	-	18	9	969	31 772	771	1 412	23 054	66 903	49 680	116 534	D
<b>LANSING</b>													
31-33	Manufacturing .....	-	111	45	j	D	D	D	D	D	D	D	102 255
311	Food manufacturing .....	1	11	6	f	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	8	30	8	1 245	48 794	860	1 672	27 077	86 059	61 842	148 290	D
3231	Printing and related support activities .....	8	30	8	1 245	48 794	860	1 672	27 077	86 059	61 842	148 290	D
32311	Printing .....	8	26	6	1 103	45 838	746	1 489	25 565	79 995	60 994	141 374	D
323110	Commercial lithographic printing .....	8	16	5	861	39 226	554	1 115	20 984	66 936	53 202	120 447	D
332	Fabricated metal product manufacturing .....	-	19	7	861	36 556	713	1 518	28 356	109 819	35 049	143 882	8 652
3321	Forging and stamping.....	-	3	3	f	D	D	D	D	D	D	D	D
33211	Forging and stamping.....	-	3	3	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	9	8	i	D	D	D	D	D	D	D	D
3361	Motor vehicle manufacturing.....	-	3	3	i	D	D	D	D	D	D	D	D
33611	Automobile and light duty motor vehicle manufacturing .....	-	3	3	i	D	D	D	D	D	D	D	D
336111	Automobile manufacturing...	-	3	3	i	D	D	D	D	D	D	D	D
<b>LAPEER</b>													
31-33	Manufacturing .....	-	38	15	1 866	69 245	1 302	2 756	38 776	169 942	180 154	349 681	5 207
326	Plastics and rubber products manufacturing .....	-	5	4	616	19 489	482	1 055	13 689	41 315	42 111	83 651	676
3261	Plastics product manufacturing ..	-	5	4	616	19 489	482	1 055	13 689	41 315	42 111	83 651	676
32619	Other plastics product manufacturing .....	-	4	3	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	6	3	585	26 784	403	821	13 026	57 779	56 669	113 252	1 654
3363	Motor vehicle parts manufacturing .....	-	5	3	f	D	D	D	D	D	D	D	D
<b>LEONI</b>													
31-33	Manufacturing .....	1	33	10	863	36 126	536	1 119	18 442	87 085	70 737	161 846	3 970

See footnotes at end of table.

**Table 4. Industry Statistics for Places: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>LINCOLN</b>													
31-33	Manufacturing .....	1	33	14	2 287	109 625	1 860	4 100	82 783	290 373	243 322	531 515	25 378
336	Transportation equipment manufacturing .....	—	1	1	g	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	—	1	1	g	D	D	D	D	D	D	D	D
33634	Motor vehicle brake system manufacturing .....	—	1	1	g	D	D	D	D	D	D	D	D
336340	Motor vehicle brake system manufacturing .....	—	1	1	g	D	D	D	D	D	D	D	D
<b>LIVONIA</b>													
31-33	Manufacturing .....	—	296	93	13 295	692 175	9 936	20 207	490 670	1 617 954	1 947 564	3 529 730	113 883
311	Food manufacturing .....	3	20	5	940	36 182	712	1 436	24 072	102 366	174 087	274 387	5 894
3118	Bakeries and tortilla manufacturing .....	9	17	3	f	D	D	D	D	D	D	D	D
31181	Bread and bakery product manufacturing .....	9	17	3	f	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	2	7	5	670	18 590	519	914	12 175	64 612	26 033	91 345	1 467
3261	Plastics product manufacturing ..	2	6	4	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	1	70	17	1 178	49 873	796	1 527	30 359	108 951	41 151	149 362	7 593
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	2	34	7	500	20 709	379	713	13 599	49 485	16 182	65 267	5 977
333	Machinery manufacturing .....	2	67	23	1 783	85 243	1 140	2 251	44 983	151 885	86 584	235 042	25 247
3335	Metalworking machinery manufacturing .....	2	46	20	1 308	67 063	837	1 640	35 505	114 742	48 050	159 050	21 129
33351	Metalworking machinery manufacturing .....	2	46	20	1 308	67 063	837	1 640	35 505	114 742	48 050	159 050	21 129
334	Computer and electronic product manufacturing .....	2	18	6	1 923	61 244	1 495	2 938	35 388	187 223	132 773	323 857	5 511
3346	Manufacturing and reproducing magnetic and optical media.....	—	3	3	g	D	D	D	D	D	D	D	D
33461	Manufacturing and reproducing magnetic and optical media...	—	3	3	g	D	D	D	D	D	D	D	D
334612	Prerecorded compact disc (except software), tape, and record reproducing .....	—	3	3	g	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	—	19	11	4 335	339 759	3 592	8 396	286 757	696 497	1 120 534	1 777 623	61 844
3363	Motor vehicle parts manufacturing .....	—	18	10	h	D	D	D	D	D	D	D	D
33631	Motor vehicle gasoline engine and engine parts manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
336312	Gasoline engine and engine parts manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical and electronic equipment manufacturing .....	—	2	1	h	D	D	D	D	D	D	D	D
336322	Other motor vehicle electrical and electronic equipment manufacturing .....	—	2	1	h	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	2	10	7	834	26 315	566	525	14 401	56 835	62 229	117 713	1 084
3372	Office furniture (including fixtures) manufacturing .....	2	6	6	801	25 451	544	503	13 819	55 247	60 773	114 679	1 067
33721	Office furniture (including fixtures) manufacturing .....	2	6	6	801	25 451	544	503	13 819	55 247	60 773	114 679	1 067
337215	Showcase, partition, shelving, and locker manufacturing .....	2	5	5	f	D	D	D	D	D	D	D	D
<b>LOWELL</b>													
31-33	Manufacturing .....	2	12	8	996	33 541	757	1 331	19 138	100 984	91 145	190 961	6 041
<b>LUDINGTON</b>													
31-33	Manufacturing .....	—	26	15	2 043	72 945	1 515	3 169	46 768	197 472	148 333	336 434	8 505
332	Fabricated metal product manufacturing .....	—	8	5	f	D	D	D	D	D	D	D	D
<b>LYON</b>													
31-33	Manufacturing .....	—	39	13	846	42 169	529	1 113	21 085	93 472	130 968	225 077	3 239

See footnotes at end of table.



**Table 4. Industry Statistics for Places: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E1	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>MACOMB</b>													
31-33	Manufacturing .....	1	38	19	1 586	70 547	1 121	2 342	43 778	142 608	68 104	212 031	9 095
333	Machinery manufacturing .....	2	15	9	587	29 168	374	769	16 951	59 733	20 451	79 986	5 198
3335	Metalworking machinery manufacturing .....	2	14	9	f	D	D	D	D	D	D	D	D
33351	Metalworking machinery manufacturing .....	2	14	9	f	D	D	D	D	D	D	D	D
<b>MADISON HEIGHTS</b>													
31-33	Manufacturing .....	2	183	74	5 360	221 936	3 698	7 678	130 342	479 211	408 693	888 300	18 847
332	Fabricated metal product manufacturing .....	2	61	25	1 737	65 095	1 355	2 840	44 300	159 394	93 927	251 429	6 950
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	3	30	9	564	23 077	437	919	15 467	65 277	51 697	116 849	2 572
3328	Coating, engraving, heat treating, and allied activities .....	2	14	7	691	22 794	526	1 095	14 049	49 543	13 145	62 698	2 243
33281	Coating, engraving, heat treating, and allied activities ..	2	14	7	691	22 794	526	1 095	14 049	49 543	13 145	62 698	2 243
333	Machinery manufacturing .....	3	47	20	1 449	71 373	1 019	2 056	46 353	130 397	77 350	209 744	5 090
3335	Metalworking machinery manufacturing .....	4	37	16	1 093	53 829	818	1 625	38 343	95 541	55 281	152 890	3 225
33351	Metalworking machinery manufacturing .....	4	37	16	1 093	53 829	818	1 625	38 343	95 541	55 281	152 890	3 225
336	Transportation equipment manufacturing .....	—	9	8	1 020	37 520	718	1 643	20 215	87 387	142 160	229 638	2 050
3363	Motor vehicle parts manufacturing .....	—	9	8	1 020	37 520	718	1 643	20 215	87 387	142 160	229 638	2 050
<b>MANISTEE</b>													
31-33	Manufacturing .....	6	15	6	582	23 120	416	806	15 081	101 750	36 927	138 258	D
<b>MARINE CITY</b>													
31-33	Manufacturing .....	2	23	8	502	17 301	390	752	10 587	36 113	24 165	60 756	1 949
<b>MARSHALL</b>													
31-33	Manufacturing .....	—	34	15	2 619	104 334	1 942	4 284	70 619	367 595	303 408	670 340	18 707
326	Plastics and rubber products manufacturing .....	—	4	3	f	D	D	D	D	D	D	D	D
3261	Plastics product manufacturing ..	—	3	2	f	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	—	3	2	f	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing .....	—	3	2	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	—	3	2	g	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	—	3	2	g	D	D	D	D	D	D	D	D
33635	Motor vehicle transmission and power train parts manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
336350	Motor vehicle transmission and power train parts manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
<b>MARYSVILLE</b>													
31-33	Manufacturing .....	—	23	12	1 914	74 113	1 300	2 776	46 585	227 403	220 719	449 812	6 629
336	Transportation equipment manufacturing .....	—	3	3	1 001	37 498	683	1 512	25 495	114 453	112 958	228 661	D
3363	Motor vehicle parts manufacturing .....	—	3	3	1 001	37 498	683	1 512	25 495	114 453	112 958	228 661	D
33639	Other motor vehicle parts manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
<b>MASON</b>													
31-33	Manufacturing .....	—	16	8	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D

See footnotes at end of table.

**Table 4. Industry Statistics for Places: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E1	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>MATTAWAN</b>													
31-33	Manufacturing .....	-	6	3	841	25 571	625	1 380	14 625	119 466	50 635	170 267	D
326	Plastics and rubber products manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
3261	Plastics product manufacturing ..	-	1	1	f	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>MENOMINEE</b>													
31-33	Manufacturing .....	1	29	12	1 861	60 418	1 431	2 856	41 950	194 863	194 051	394 917	11 960
333	Machinery manufacturing .....	-	3	2	f	D	D	D	D	D	D	D	D
<b>MIDDLEVILLE</b>													
31-33	Manufacturing .....	-	9	2	g	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing .....	-	2	1	g	D	D	D	D	D	D	D	D
3352	Household appliance manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
33522	Major appliance manufacturing.	-	1	1	g	D	D	D	D	D	D	D	D
335228	Other major household appliance manufacturing ...	-	1	1	g	D	D	D	D	D	D	D	D
<b>MIDLAND</b>													
31-33	Manufacturing .....	3	42	13	i	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	-	11	3	f	D	D	D	D	D	D	D	D
3231	Printing and related support activities .....	-	11	3	f	D	D	D	D	D	D	D	D
32311	Printing .....	-	10	3	f	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing .....	-	3	2	f	D	D	D	D	D	D	D	D
325	Chemical manufacturing .....	3	6	4	h	D	D	D	D	D	D	D	D
3251	Basic chemical manufacturing ...	4	4	2	h	D	D	D	D	D	D	D	D
32519	Other basic organic chemical manufacturing .....	4	3	2	h	D	D	D	D	D	D	D	D
325199	All other basic organic chemical manufacturing ....	4	3	2	h	D	D	D	D	D	D	D	D
<b>MILAN</b>													
31-33	Manufacturing .....	-	8	6	g	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	2	2	g	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	-	2	2	g	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts manufacturing .....	-	2	2	g	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts manufacturing .....	-	2	2	g	D	D	D	D	D	D	D	D
<b>MONITOR</b>													
31-33	Manufacturing .....	-	15	8	890	30 168	738	1 485	20 912	78 945	111 048	193 624	8 022
<b>MONROE CITY</b>													
31-33	Manufacturing .....	-	35	16	3 760	188 183	3 012	3 649	137 049	524 692	1 429 722	1 938 381	55 488
336	Transportation equipment manufacturing .....	-	2	2	g	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	-	2	2	g	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D

See footnotes at end of table.

**Table 4. Industry Statistics for Places: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E1	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>MOUNT CLEMENS</b>													
31-33	Manufacturing .....	-	59	15	3 717	146 153	2 744	5 918	93 562	725 674	495 791	1 248 303	12 113
325	Chemical manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
3255	Paint, coating, and adhesive manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
32551	Paint and coating manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
325510	Paint and coating manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	-	3	2	g	D	D	D	D	D	D	D	D
3261	Plastics product manufacturing ..	-	3	2	g	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	-	2	2	g	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing .....	-	2	2	g	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	6	4	544	21 983	374	759	13 747	52 629	157 344	209 714	2 494
3363	Motor vehicle parts manufacturing .....	-	6	4	544	21 983	374	759	13 747	52 629	157 344	209 714	2 494
<b>MOUNT PLEASANT</b>													
31-33	Manufacturing .....	-	23	5	805	22 973	648	1 147	17 849	51 022	116 742	168 105	D
336	Transportation equipment manufacturing .....	-	3	2	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	-	3	2	f	D	D	D	D	D	D	D	D
<b>MUNISING</b>													
31-33	Manufacturing .....	-	3	2	f	D	D	D	D	D	D	D	D
<b>MUSKEGON CITY</b>													
31-33	Manufacturing .....	-	110	49	5 374	215 950	3 977	8 318	146 027	598 372	533 765	1 136 505	31 236
322	Paper manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
3221	Pulp, paper, and paperboard mills .....	-	1	1	f	D	D	D	D	D	D	D	D
32212	Paper mills .....	-	1	1	f	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills .....	-	1	1	f	D	D	D	D	D	D	D	D
331	Primary metal manufacturing .....	2	18	15	1 144	40 278	924	2 029	31 448	100 240	91 219	189 020	6 607
3315	Foundries .....	2	15	12	g	D	D	D	D	D	D	D	D
33152	Nonferrous metal foundries ....	1	12	9	727	22 428	589	1 306	17 319	65 381	40 756	104 754	2 550
332	Fabricated metal product manufacturing .....	-	24	8	654	23 425	445	930	13 704	56 605	46 942	101 272	2 480
336	Transportation equipment manufacturing .....	-	10	5	g	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	-	6	3	f	D	D	D	D	D	D	D	D
3364	Aerospace product and parts manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
336412	Aircraft engine and engine parts manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>MUSKEGON TOWNSHIP</b>													
31-33	Manufacturing .....	-	20	6	689	35 422	372	833	13 984	71 137	80 643	154 510	3 681
333	Machinery manufacturing .....	-	5	1	f	D	D	D	D	D	D	D	D
3336	Engine, turbine, and power transmission equipment manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
33361	Engine, turbine, and power transmission equipment manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
333618	Other engine equipment manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>MUSKEGON HEIGHTS</b>													
31-33	Manufacturing .....	-	41	14	1 261	57 407	928	2 002	34 395	105 672	74 601	181 562	5 613
333	Machinery manufacturing .....	-	8	3	509	24 235	342	750	12 038	40 066	38 395	79 903	D
<b>NEW BALTIMORE</b>													
31-33	Manufacturing .....	-	18	9	713	20 645	594	1 251	15 119	152 803	34 959	186 651	1 749

See footnotes at end of table.

**Table 4. Industry Statistics for Places: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>NILES CITY</b>													
31-33	Manufacturing .....	2	28	14	1 751	63 001	1 233	2 324	36 869	130 433	121 439	250 462	3 509
333	Machinery manufacturing .....	3	3	3	764	29 297	478	818	14 787	48 252	45 116	93 828	D
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	3	2	2	f	D	D	D	D	D	D	D	D
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	3	2	2	f	D	D	D	D	D	D	D	D
333415	Air-conditioning and warm air heating equipment and commercial and industrial refrigeration equipment manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
<b>NILES TOWNSHIP</b>													
31-33	Manufacturing .....	7	26	6	655	24 166	514	1 007	16 002	48 482	51 209	99 117	2 278
<b>NORTON SHORES</b>													
31-33	Manufacturing .....	4	49	24	1 874	71 389	1 412	2 735	44 331	206 329	158 991	365 420	9 024
337	Furniture and related product manufacturing .....	9	3	2	f	D	D	D	D	D	D	D	D
3372	Office furniture (including fixtures) manufacturing .....	9	2	2	f	D	D	D	D	D	D	D	D
33721	Office furniture (including fixtures) manufacturing .....	9	2	2	f	D	D	D	D	D	D	D	D
337214	Office furniture (except wood) manufacturing .....	9	1	1	f	D	D	D	D	D	D	D	D
<b>NOVI</b>													
31-33	Manufacturing .....	1	90	31	3 151	129 509	2 040	4 078	67 494	301 335	252 326	547 140	13 125
333	Machinery manufacturing .....	3	21	8	547	25 144	340	688	13 251	55 646	40 745	95 159	1 050
336	Transportation equipment manufacturing .....	1	9	6	1 154	40 921	876	1 788	27 242	102 710	115 098	213 300	4 821
3363	Motor vehicle parts manufacturing .....	1	6	4	f	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical and electronic equipment manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
336322	Other motor vehicle electrical and electronic equipment manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
<b>OAK PARK</b>													
31-33	Manufacturing .....	2	65	21	1 315	53 644	778	1 496	31 096	117 316	67 691	182 709	3 264
<b>ORION (BALANCE)</b>													
31-33	Manufacturing .....	—	32	12	h	D	D	D	D	D	D	D	9 268
336	Transportation equipment manufacturing .....	—	4	2	h	D	D	D	D	D	D	D	D
3361	Motor vehicle manufacturing .....	—	1	1	h	D	D	D	D	D	D	D	D
33611	Automobile and light duty motor vehicle manufacturing .....	—	1	1	h	D	D	D	D	D	D	D	D
336111	Automobile manufacturing .....	—	1	1	h	D	D	D	D	D	D	D	D
<b>OTSEGO</b>													
31-33	Manufacturing .....	1	13	7	1 224	57 585	852	1 734	34 850	164 041	87 488	253 203	10 251
332	Fabricated metal product manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
3329	Other fabricated metal product manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
33291	Metal valve manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
332912	Fluid power valve and hose fitting manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
<b>OWOSSO</b>													
31-33	Manufacturing .....	—	35	14	1 444	43 249	1 064	2 074	26 575	128 087	108 978	235 051	4 452
335	Electrical equipment, appliance, and component manufacturing .....	—	3	3	559	16 102	456	930	11 878	39 871	24 868	62 938	2 615
3353	Electrical equipment manufacturing .....	—	3	3	559	16 102	456	930	11 878	39 871	24 868	62 938	2 615
33531	Electrical equipment manufacturing .....	—	3	3	559	16 102	456	930	11 878	39 871	24 868	62 938	2 615
335312	Motor and generator manufacturing .....	—	3	3	559	16 102	456	930	11 878	39 871	24 868	62 938	2 615

See footnotes at end of table.

**Table 4. Industry Statistics for Places: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>OXFORD TOWNSHIP (BALANCE)</b>													
31-33	Manufacturing .....	2	32	16	1 110	46 155	866	1 804	32 402	110 519	98 853	208 009	11 060
332	Fabricated metal product manufacturing .....	1	13	8	593	26 785	475	1 000	19 757	61 338	48 064	108 092	4 148
<b>PETOSKEY</b>													
31-33	Manufacturing .....	—	20	6	743	24 044	565	1 056	16 409	81 106	87 814	169 870	2 278
<b>PITTSFIELD</b>													
31-33	Manufacturing .....	—	62	22	4 216	194 698	3 241	5 924	141 986	589 885	1 344 236	1 917 529	15 827
334	Computer and electronic product manufacturing .....	—	12	6	h	D	D	D	D	D	D	D	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	—	7	4	h	D	D	D	D	D	D	D	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing .....	—	7	4	h	D	D	D	D	D	D	D	D
334514	Totalizing fluid meter and counting device manufacturing .....	—	1	1	g	D	D	D	D	D	D	D	D
<b>PLAINFIELD</b>													
31-33	Manufacturing .....	—	54	12	1 458	59 208	1 075	2 257	36 700	153 047	58 816	210 677	9 584
<b>PLYMOUTH CITY</b>													
31-33	Manufacturing .....	2	40	15	2 148	96 257	1 340	2 568	46 147	205 973	110 255	313 300	9 305
334	Computer and electronic product manufacturing .....	—	3	1	f	D	D	D	D	D	D	D	D
3341	Computer and peripheral equipment manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
33411	Computer and peripheral equipment manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
334111	Electronic computer manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
<b>PLYMOUTH TOWNSHIP</b>													
31-33	Manufacturing .....	—	72	44	3 775	178 349	2 486	4 693	95 349	410 360	529 348	941 411	19 647
326	Plastics and rubber products manufacturing .....	—	4	3	f	D	D	D	D	D	D	D	D
3261	Plastics product manufacturing .....	—	3	3	f	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	—	3	3	f	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing .....	—	3	3	f	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	1	19	14	1 022	56 064	593	1 129	26 348	142 586	184 067	328 214	9 652
336	Transportation equipment manufacturing .....	—	11	11	1 110	48 364	794	1 425	28 147	85 380	236 248	325 428	5 217
3363	Motor vehicle parts manufacturing .....	—	9	9	f	D	D	D	D	D	D	D	D
<b>PONTIAC</b>													
31-33	Manufacturing .....	—	63	19	i	D	D	D	D	D	D	D	48 668
336	Transportation equipment manufacturing .....	—	6	6	i	D	D	D	D	D	D	D	D
3361	Motor vehicle manufacturing .....	—	1	1	i	D	D	D	D	D	D	D	D
33611	Automobile and light duty motor vehicle manufacturing .....	—	1	1	i	D	D	D	D	D	D	D	D
336112	Light truck and utility vehicle manufacturing .....	—	1	1	i	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	—	5	5	g	D	D	D	D	D	D	D	D
33637	Motor vehicle metal stamping .....	—	2	2	g	D	D	D	D	D	D	D	D
336370	Motor vehicle metal stamping .....	—	2	2	g	D	D	D	D	D	D	D	D

See footnotes at end of table.

**Table 4. Industry Statistics for Places: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>PORTAGE</b>													
31-33	Manufacturing .....	-	'78	'31	'4 805	'211 703	'2 950	'6 157	'102 728	'2 955 345	'458 212	'3 392 430	'100 114
325	Chemical manufacturing .....	-	4	3	g	D	D	D	D	D	D	D	D
3254	Pharmaceutical and medicine manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
32541	Pharmaceutical and medicine manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	-	'9	'6	'596	'17 766	'486	'955	'11 750	'54 447	'45 850	'99 386	D
3261	Plastics product manufacturing ..	-	'9	'6	'596	'17 766	'486	'955	'11 750	'54 447	'45 850	'99 386	D
339	Miscellaneous manufacturing .....	4	8	4	f	D	D	D	D	D	D	D	D
3391	Medical equipment and supplies manufacturing .....	4	6	3	f	D	D	D	D	D	D	D	D
33911	Medical equipment and supplies manufacturing .....	4	6	3	f	D	D	D	D	D	D	D	D
339113	Surgical appliance and supplies manufacturing .....	-	3	2	f	D	D	D	D	D	D	D	D
<b>PORT HURON</b>													
31-33	Manufacturing .....	-	67	38	4 833	201 134	3 550	7 159	124 915	555 316	713 378	1 287 179	19 011
322	Paper manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
3221	Pulp, paper, and paperboard mills .....	-	2	2	f	D	D	D	D	D	D	D	D
32212	Paper mills .....	-	2	2	f	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills .....	-	2	2	f	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	-	6	5	943	27 499	838	1 507	21 577	75 948	72 122	149 009	2 358
3261	Plastics product manufacturing ..	-	6	5	943	27 499	838	1 507	21 577	75 948	72 122	149 009	2 358
32619	Other plastics product manufacturing .....	-	5	4	f	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing .....	-	5	4	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	-	16	9	905	32 775	708	1 482	21 085	87 199	83 761	174 396	2 979
336	Transportation equipment manufacturing .....	-	8	8	1 152	43 847	779	1 501	25 431	154 259	200 096	354 199	6 427
3363	Motor vehicle parts manufacturing .....	-	8	8	1 152	43 847	779	1 501	25 431	154 259	200 096	354 199	6 427
<b>REDFORD</b>													
31-33	Manufacturing .....	6	106	28	2 306	94 176	1 694	3 391	61 467	185 314	118 788	303 235	12 172
332	Fabricated metal product manufacturing .....	6	31	12	679	26 689	490	972	17 808	57 747	37 313	94 788	7 272
<b>ROCHESTER</b>													
31-33	Manufacturing .....	2	33	8	1 370	57 879	843	1 670	28 134	111 748	123 382	233 329	18 790
325	Chemical manufacturing .....	-	3	2	f	D	D	D	D	D	D	D	D
3254	Pharmaceutical and medicine manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
32541	Pharmaceutical and medicine manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D

See footnotes at end of table.

**Table 4. Industry Statistics for Places: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E1	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>ROCHESTER HILLS</b>													
31-33	Manufacturing .....	1	126	57	8 883	330 859	6 995	13 371	207 801	631 487	579 388	1 202 502	61 363
316	Leather and allied product manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
3161	Leather and hide tanning and finishing.....	-	1	1	f	D	D	D	D	D	D	D	D
31611	Leather and hide tanning and finishing.....	-	1	1	f	D	D	D	D	D	D	D	D
316110	Leather and hide tanning and finishing.....	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	-	19	13	3 650	110 458	3 083	5 865	83 159	129 164	85 824	215 184	5 304
3325	Hardware manufacturing .....	-	1	1	h	D	D	D	D	D	D	D	D
33251	Hardware manufacturing .....	-	1	1	h	D	D	D	D	D	D	D	D
332510	Hardware manufacturing .....	-	1	1	h	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	1	35	19	1 786	89 678	1 246	2 621	53 547	168 891	87 605	250 504	13 187
3335	Metalworking machinery manufacturing .....	-	23	11	1 271	64 787	956	2 041	44 705	117 778	48 819	161 753	6 237
33351	Metalworking machinery manufacturing .....	-	23	11	1 271	64 787	956	2 041	44 705	117 778	48 819	161 753	6 237
333514	Special die and tool, die set, jig, and fixture manufacturing .....	-	10	6	768	34 344	599	1 213	23 847	62 906	19 623	82 721	5 333
336	Transportation equipment manufacturing .....	-	10	8	1 634	67 783	1 298	2 211	30 851	210 563	324 117	530 150	37 246
3363	Motor vehicle parts manufacturing .....	-	10	8	1 634	67 783	1 298	2 211	30 851	210 563	324 117	530 150	37 246
33636	Motor vehicle seating and interior trim manufacturing .....	-	3	2	f	D	D	D	D	D	D	D	D
336360	Motor vehicle seating and interior trim manufacturing .....	-	3	2	f	D	D	D	D	D	D	D	D
<b>ROCKFORD</b>													
31-33	Manufacturing .....	-	21	11	1 356	44 079	1 096	2 222	29 858	123 214	112 570	232 238	5 943
335	Electrical equipment, appliance, and component manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
3359	Other electrical equipment and component manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
<b>ROMEO</b>													
31-33	Manufacturing .....	-	38	15	3 064	191 679	2 502	5 385	152 350	426 601	1 211 074	1 655 613	D
326	Plastics and rubber products manufacturing .....	2	5	2	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	4	3	g	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	-	4	3	g	D	D	D	D	D	D	D	D
33631	Motor vehicle gasoline engine and engine parts manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
336312	Gasoline engine and engine parts manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
<b>ROMULUS</b>													
31-33	Manufacturing .....	-	86	42	6 592	364 532	5 141	10 420	274 793	857 715	2 411 449	3 257 435	44 496
326	Plastics and rubber products manufacturing .....	1	7	5	646	24 137	517	881	17 475	48 562	58 758	106 434	4 225
3261	Plastics product manufacturing ..	-	6	5	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	5	33	13	971	41 598	659	1 336	23 133	105 330	71 399	176 509	4 599
336	Transportation equipment manufacturing .....	-	10	9	3 689	251 096	3 006	6 235	204 618	537 302	2 184 706	2 715 613	26 410
3363	Motor vehicle parts manufacturing .....	-	8	7	h	D	D	D	D	D	D	D	D
33631	Motor vehicle gasoline engine and engine parts manufacturing .....	-	2	2	h	D	D	D	D	D	D	D	D
336312	Gasoline engine and engine parts manufacturing .....	-	2	2	h	D	D	D	D	D	D	D	D

See footnotes at end of table.

**Table 4. Industry Statistics for Places: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E1	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>ROSEVILLE</b>													
31-33	Manufacturing .....	1	168	51	5 120	220 246	3 952	6 861	153 302	384 286	244 350	615 459	15 672
327	Nonmetallic mineral product manufacturing .....	-	6	2	f	D	D	D	D	D	D	D	421
3273	Cement and concrete product manufacturing .....	-	4	2	f	D	D	D	D	D	D	D	D
32739	Other concrete product manufacturing .....	-	3	2	f	D	D	D	D	D	D	D	D
327390	Other concrete product manufacturing .....	-	3	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	1	61	14	1 604	67 721	1 285	2 443	50 032	129 247	61 719	192 344	5 291
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	3	37	7	638	23 054	500	895	15 771	45 304	19 638	65 256	2 305
3329	Other fabricated metal product manufacturing .....	-	8	3	622	33 404	529	1 106	27 550	59 615	31 641	92 011	D
33299	All other fabricated metal product manufacturing .....	-	8	3	622	33 404	529	1 106	27 550	59 615	31 641	92 011	D
332997	Industrial pattern manufacturing .....	-	3	1	f	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	1	40	15	1 505	81 155	1 043	2 161	54 419	128 962	60 792	181 248	5 233
3335	Metalworking machinery manufacturing .....	1	30	11	1 324	72 847	923	1 977	50 156	114 962	48 015	150 334	D
33351	Metalworking machinery manufacturing .....	1	30	11	1 324	72 847	923	1 977	50 156	114 962	48 015	150 334	D
333514	Special die and tool, die set, jig, and fixture manufacturing .....	-	15	5	709	38 734	499	1 104	28 037	69 707	18 654	77 761	2 610
<b>ROYAL OAK</b>													
31-33	Manufacturing .....	2	85	17	1 979	82 356	1 410	2 611	50 518	219 067	241 522	459 202	6 806
332	Fabricated metal product manufacturing .....	1	15	3	535	27 141	366	812	15 611	101 464	123 642	223 606	1 930
336	Transportation equipment manufacturing .....	5	6	4	664	25 879	541	765	19 342	55 282	62 200	117 141	3 367
3363	Motor vehicle parts manufacturing .....	5	6	4	664	25 879	541	765	19 342	55 282	62 200	117 141	3 367
<b>SAGINAW CITY</b>													
31-33	Manufacturing .....	-	69	32	7 331	400 548	5 887	11 843	329 253	1 414 785	1 133 982	2 551 170	131 025
331	Primary metal manufacturing .....	-	3	2	h	D	D	D	D	D	D	D	D
3315	Foundries .....	-	3	2	h	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries .....	-	3	2	h	D	D	D	D	D	D	D	D
331511	Iron foundries .....	-	3	2	h	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	-	17	7	f	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	4	11	9	g	D	D	D	D	D	D	D	3 091
3335	Metalworking machinery manufacturing .....	6	5	4	f	D	D	D	D	D	D	D	D
33351	Metalworking machinery manufacturing .....	6	5	4	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	6	5	g	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	-	6	5	g	D	D	D	D	D	D	D	D
33634	Motor vehicle brake system manufacturing .....	-	2	2	g	D	D	D	D	D	D	D	D
336340	Motor vehicle brake system manufacturing .....	-	2	2	g	D	D	D	D	D	D	D	D
<b>ST. CLAIR</b>													
31-33	Manufacturing .....	2	20	14	1 286	44 714	1 037	2 033	31 267	102 320	113 768	213 667	8 934
326	Plastics and rubber products manufacturing .....	-	7	7	770	25 036	612	1 101	16 010	55 524	45 485	100 735	D
3261	Plastics product manufacturing ..	-	7	7	770	25 036	612	1 101	16 010	55 524	45 485	100 735	D
32619	Other plastics product manufacturing .....	-	7	7	770	25 036	612	1 101	16 010	55 524	45 485	100 735	D
326199	All other plastics product manufacturing .....	-	7	7	770	25 036	612	1 101	16 010	55 524	45 485	100 735	D

See footnotes at end of table.



**Table 4. Industry Statistics for Places: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E1	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>ST. CLAIR SHORES</b>													
31-33	Manufacturing .....	-	52	9	2 599	87 012	2 023	2 820	55 004	283 247	199 522	483 267	12 948
336	Transportation equipment manufacturing .....	-	2	1	g	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	-	2	1	g	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts manufacturing .....	-	2	1	g	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts manufacturing .....	-	2	1	g	D	D	D	D	D	D	D	D
<b>ST. JOHNS</b>													
31-33	Manufacturing .....	1	16	6	g	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	1	7	4	f	D	D	D	D	D	D	D	D
3336	Engine, turbine, and power transmission equipment manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
33361	Engine, turbine, and power transmission equipment manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
333613	Mechanical power transmission equipment manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>ST. JOSEPH CITY</b>													
31-33	Manufacturing .....	-	29	13	2 122	80 288	1 391	2 796	44 452	172 249	114 224	292 764	11 463
323	Printing and related support activities .....	-	6	1	f	D	D	D	D	D	D	D	D
3231	Printing and related support activities .....	-	6	1	f	D	D	D	D	D	D	D	D
32311	Printing .....	-	5	1	f	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing .....	-	3	1	f	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
334516	Analytical laboratory instrument manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>SALINE</b>													
31-33	Manufacturing .....	-	23	12	1 377	57 963	893	1 901	29 062	109 209	125 538	235 422	4 573
<b>SANDUSKY</b>													
31-33	Manufacturing .....	-	11	3	504	13 659	460	959	11 038	62 313	61 232	123 015	3 300
<b>SAULT STE. MARIE</b>													
31-33	Manufacturing .....	5	13	6	552	15 852	454	791	10 951	39 783	28 426	67 705	5 236
<b>SCIO</b>													
31-33	Manufacturing .....	2	95	39	4 631	196 152	2 670	5 468	87 544	438 625	355 825	782 910	25 179
323	Printing and related support activities .....	-	10	4	636	23 341	448	887	14 973	44 629	23 000	67 447	D
3231	Printing and related support activities .....	-	10	4	636	23 341	448	887	14 973	44 629	23 000	67 447	D
332	Fabricated metal product manufacturing .....	-	17	7	520	25 110	383	897	16 396	58 801	55 170	112 505	5 097
333	Machinery manufacturing .....	3	12	5	1 391	62 571	546	1 153	16 336	149 131	106 121	250 321	6 750
3339	Other general purpose machinery manufacturing .....	4	5	3	g	D	D	D	D	D	D	D	D
33399	All other general purpose machinery manufacturing .....	4	5	3	g	D	D	D	D	D	D	D	D
333999	All other miscellaneous general purpose machinery manufacturing .....	4	4	2	g	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing .....	1	17	6	563	26 585	299	573	7 208	56 966	46 094	98 609	1 300
336	Transportation equipment manufacturing .....	1	7	5	598	24 101	446	896	16 412	42 743	69 463	112 157	1 176
3363	Motor vehicle parts manufacturing .....	-	5	4	f	D	D	D	D	D	D	D	D

See footnotes at end of table.

**Table 4. Industry Statistics for Places: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
		E <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)					Wages (\$1,000)
<b>SHELBY</b>													
31-33	Manufacturing .....	-	133	48	6 005	225 221	4 769	7 313	153 316	615 655	465 164	1 065 815	29 674
326	Plastics and rubber products manufacturing .....	3	'7	5	'625	'22 305	'507	'1 096	'14 544	'60 845	'49 191	'109 153	'9 506
3261	Plastics product manufacturing ..	3	'7	5	'625	'22 305	'507	'1 096	'14 544	'60 845	'49 191	'109 153	'9 506
332	Fabricated metal product manufacturing .....	2	26	8	573	19 075	409	829	11 495	49 023	26 706	76 225	4 542
333	Machinery manufacturing .....	-	'44	18	'1 163	'63 982	'790	'1 636	'40 753	'131 737	'81 573	'210 210	'3 827
336	Transportation equipment manufacturing .....	-	11	6	3 014	99 406	2 567	2 789	72 425	332 166	265 385	586 001	9 519
3363	Motor vehicle parts manufacturing .....	-	8	5	2 974	97 342	2 545	2 732	71 641	323 805	260 296	572 357	D
33636	Motor vehicle seating and interior trim manufacturing ....	-	2	1	g	D	D	D	D	D	D	D	D
336360	Motor vehicle seating and interior trim manufacturing ..	-	2	1	g	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts manufacturing .....	-	5	4	f	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts manufacturing .....	-	5	4	f	D	D	D	D	D	D	D	D
<b>SOUTHFIELD</b>													
31-33	Manufacturing .....	1	103	25	3 717	190 806	2 132	4 161	81 218	395 607	547 775	878 302	15 873
333	Machinery manufacturing .....	-	12	3	g	D	D	D	D	D	D	D	D
3339	Other general purpose machinery manufacturing .....	-	4	2	g	D	D	D	D	D	D	D	D
33399	All other general purpose machinery manufacturing ....	-	4	2	g	D	D	D	D	D	D	D	D
333992	Welding and soldering equipment manufacturing ..	-	1	1	g	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	7	4	831	36 717	694	1 241	20 823	41 798	165 604	206 258	6 338
3363	Motor vehicle parts manufacturing .....	-	7	4	831	36 717	694	1 241	20 823	41 798	165 604	206 258	6 338
<b>SOUTH HAVEN</b>													
31-33	Manufacturing .....	-	22	8	879	29 505	628	1 349	15 903	84 822	49 338	125 985	6 983
<b>SPARTA</b>													
31-33	Manufacturing .....	-	23	11	901	32 006	673	1 240	19 999	167 467	144 691	309 747	8 226
<b>SPRING LAKE TOWN (BALANCE)</b>													
31-33	Manufacturing .....	7	41	21	3 199	105 026	2 548	4 949	72 818	377 012	268 619	644 596	11 899
337	Furniture and related product manufacturing .....	9	11	6	1 998	67 521	1 649	3 152	49 170	277 299	164 374	441 660	7 220
3372	Office furniture (including fixtures) manufacturing .....	9	7	5	g	D	D	D	D	D	D	D	D
33721	Office furniture (including fixtures) manufacturing .....	9	7	5	g	D	D	D	D	D	D	D	D
337214	Office furniture (except wood) manufacturing .....	9	2	2	g	D	D	D	D	D	D	D	D
<b>STERLING HEIGHTS</b>													
31-33	Manufacturing .....	-	'297	101	'20 847	'1 198 536	'17 049	'36 457	'948 507	'2 760 117	'5 286 532	'8 048 876	'179 321
326	Plastics and rubber products manufacturing .....	-	22	14	1 790	64 967	1 375	2 607	38 343	147 701	128 179	275 751	10 795
3261	Plastics product manufacturing ..	-	21	14	g	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	-	20	14	g	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing .....	-	20	14	g	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	2	77	19	1 447	59 421	1 065	2 180	37 380	134 307	61 915	196 920	6 347
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	4	36	8	555	22 770	417	837	15 058	56 478	23 101	79 846	2 440

See footnotes at end of table.

**Table 4. Industry Statistics for Places: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E1	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>STERLING HEIGHTS—Con.</b>													
333	Machinery manufacturing .....	4	89	34	2 853	139 760	1 599	3 300	65 093	301 918	238 136	562 200	8 775
3335	Metalworking machinery manufacturing .....	4	66	24	2 326	115 048	1 273	2 618	52 521	256 944	194 786	473 461	7 262
33351	Metalworking machinery manufacturing .....	4	66	24	2 326	115 048	1 273	2 618	52 521	256 944	194 786	473 461	7 262
333514	Special die and tool, die set, jig, and fixture manufacturing .....	—	28	7	756	47 045	407	864	22 042	75 685	88 662	171 387	2 601
333518	Other metalworking machinery manufacturing ..	7	10	6	863	31 373	377	722	9 081	112 976	80 760	204 521	3 312
336	Transportation equipment manufacturing .....	—	31	26	13 684	897 107	12 215	27 121	782 581	2 095 812	4 793 057	6 866 680	151 126
3361	Motor vehicle manufacturing .....	—	1	1	h	D	D	D	D	D	D	D	D
33611	Automobile and light duty motor vehicle manufacturing .....	—	1	1	h	D	D	D	D	D	D	D	D
336111	Automobile manufacturing .....	—	1	1	h	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	—	27	23	j	D	D	D	D	D	D	D	D
33633	Motor vehicle steering and suspension component (except spring) manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
336330	Motor vehicle steering and suspension component (except spring) manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
33635	Motor vehicle transmission and power train parts manufacturing .....	—	6	6	i	D	D	D	D	D	D	D	105 880
336350	Motor vehicle transmission and power train parts manufacturing .....	—	6	6	i	D	D	D	D	D	D	D	105 880
33637	Motor vehicle metal stamping ..	—	14	12	h	D	D	D	D	D	D	D	D
336370	Motor vehicle metal stamping .....	—	14	12	h	D	D	D	D	D	D	D	D
<b>STURGIS</b>													
31-33	Manufacturing .....	—	44	24	2 616	102 394	1 998	4 391	68 958	660 986	323 281	968 765	17 123
311	Food manufacturing .....	—	3	1	f	D	D	D	D	D	D	D	D
3115	Dairy product manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
311514	Dry, condensed, and evaporated dairy product manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	—	7	5	f	D	D	D	D	D	D	D	D
3261	Plastics product manufacturing ..	—	6	5	f	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	—	5	5	f	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing .....	—	5	5	f	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	—	9	6	559	25 448	449	993	19 520	46 728	23 057	72 370	4 684
<b>SUMMIT</b>													
31-33	Manufacturing .....	—	20	9	1 171	54 236	865	1 804	35 802	129 965	181 327	309 441	31 388
<b>TAYLOR</b>													
31-33	Manufacturing .....	1	104	35	3 018	115 767	2 246	4 367	73 065	333 147	424 551	755 953	15 166
332	Fabricated metal product manufacturing .....	2	37	13	796	31 564	606	1 221	19 961	77 061	37 950	114 830	1 678
336	Transportation equipment manufacturing .....	—	11	4	598	25 548	469	911	18 014	94 469	250 320	345 261	3 775
<b>TECUMSEH</b>													
31-33	Manufacturing .....	—	28	11	1 440	53 322	1 132	2 124	38 752	82 104	125 624	220 870	2 669
333	Machinery manufacturing .....	—	5	2	f	D	D	D	D	D	D	D	797
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
333415	Air-conditioning and warm air heating equipment and commercial and industrial refrigeration equipment manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D

See footnotes at end of table.

**Table 4. Industry Statistics for Places: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>THREE RIVERS</b>													
31-33	Manufacturing .....	-	33	13	2 640	147 902	2 073	4 487	111 500	322 950	363 220	682 796	61 750
336	Transportation equipment manufacturing .....	-	3	2	g	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	-	3	2	g	D	D	D	D	D	D	D	D
33635	Motor vehicle transmission and power train parts manufacturing .....	-	2	2	g	D	D	D	D	D	D	D	D
336350	Motor vehicle transmission and power train parts manufacturing .....	-	2	2	g	D	D	D	D	D	D	D	D
<b>TRAVERSE CITY</b>													
31-33	Manufacturing .....	1	85	27	2 143	80 635	1 208	2 371	33 904	191 806	126 532	316 823	15 672
333	Machinery manufacturing .....	-	10	7	742	28 639	374	785	11 597	70 996	53 265	123 122	2 064
<b>TRENTON</b>													
31-33	Manufacturing .....	-	18	7	h	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	1	1	h	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	-	1	1	h	D	D	D	D	D	D	D	D
33631	Motor vehicle gasoline engine and engine parts manufacturing .....	-	1	1	h	D	D	D	D	D	D	D	D
336312	Gasoline engine and engine parts manufacturing .....	-	1	1	h	D	D	D	D	D	D	D	D
<b>TROY</b>													
31-33	Manufacturing .....	2	'320	'120	'9 211	'374 546	'6 367	'12 436	'218 366	'840 392	'778 081	'1 620 269	'63 672
323	Printing and related support activities .....	-	38	9	569	21 802	392	752	12 198	47 152	23 204	70 696	6 321
3231	Printing and related support activities .....	-	38	9	569	21 802	392	752	12 198	47 152	23 204	70 696	6 321
32311	Printing .....	-	33	8	530	19 288	370	710	11 047	42 266	22 590	65 261	D
326	Plastics and rubber products manufacturing .....	'2	'16	'8	'891	'26 900	'610	'1 082	'14 414	'53 381	'61 245	'115 692	'5 465
3261	Plastics product manufacturing ..	'3	'15	'7	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	1	72	26	1 951	78 611	1 422	2 946	50 830	175 194	93 826	273 102	11 099
3323	Architectural and structural metals manufacturing .....	-	9	4	503	16 174	351	709	8 880	28 415	17 025	45 730	914
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	1	35	14	909	41 315	714	1 542	30 221	76 219	41 139	119 805	8 058
33272	Turned product and screw, nut, and bolt manufacturing .....	-	11	8	586	25 208	464	988	19 105	45 863	30 539	78 920	3 285
333	Machinery manufacturing .....	3	62	27	1 672	81 512	1 174	2 528	49 594	156 307	80 698	239 007	13 252
3335	Metalworking machinery manufacturing .....	5	43	21	1 158	58 551	842	1 819	38 013	103 994	49 238	153 996	6 310
33351	Metalworking machinery manufacturing .....	5	43	21	1 158	58 551	842	1 819	38 013	103 994	49 238	153 996	6 310
333514	Special die and tool, die set, jig, and fixture manufacturing .....	5	22	14	749	37 562	573	1 267	26 880	74 475	30 827	105 005	2 225
334	Computer and electronic product manufacturing .....	2	20	8	509	22 951	221	420	6 338	44 565	24 486	65 526	1 419
336	Transportation equipment manufacturing .....	2	26	15	1 630	63 162	1 297	2 208	44 847	184 322	321 769	506 046	15 692
3363	Motor vehicle parts manufacturing .....	2	21	14	1 541	58 055	1 228	2 065	40 823	177 819	312 363	490 265	15 450
33639	Other motor vehicle parts manufacturing .....	-	7	5	583	27 591	468	758	20 440	91 842	180 674	271 925	10 016
<b>VAN BUREN</b>													
31-33	Manufacturing .....	-	32	12	1 809	67 503	1 287	2 586	41 627	227 270	270 232	495 925	14 559
336	Transportation equipment manufacturing .....	1	5	5	1 026	36 742	869	1 796	27 767	118 213	74 312	191 435	9 733
3363	Motor vehicle parts manufacturing .....	1	5	5	1 026	36 742	869	1 796	27 767	118 213	74 312	191 435	9 733
33637	Motor vehicle metal stamping ..	-	4	4	f	D	D	D	D	D	D	D	D
336370	Motor vehicle metal stamping .....	-	4	4	f	D	D	D	D	D	D	D	D

See footnotes at end of table.

**Table 4. Industry Statistics for Places: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E1	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>VASSAR</b>													
31-33	Manufacturing .....	-	10	6	760	24 336	637	1 131	18 599	65 843	53 888	119 509	927
<b>WALKER</b>													
31-33	Manufacturing .....	1	'99	53	'5 574	'248 008	'3 995	'7 518	'157 869	'505 115	'552 087	'1 051 573	'36 059
333	Machinery manufacturing .....	-	32	17	1 458	64 280	1 109	2 341	44 766	160 407	101 805	255 787	7 724
3335	Metalworking machinery manufacturing .....	-	19	13	1 170	51 570	980	2 049	39 818	126 506	76 518	199 676	5 345
33351	Metalworking machinery manufacturing .....	-	19	13	1 170	51 570	980	2 049	39 818	126 506	76 518	199 676	5 345
333514	Special die and tool, die set, jig, and fixture manufacturing .....	-	16	12	1 123	49 734	945	1 988	38 561	123 780	75 085	195 333	5 284
336	Transportation equipment manufacturing .....	-	6	4	1 996	96 126	1 374	2 252	63 292	138 588	292 129	431 180	D
3363	Motor vehicle parts manufacturing .....	-	6	4	1 996	96 126	1 374	2 252	63 292	138 588	292 129	431 180	D
33637	Motor vehicle metal stamping ..	-	3	1	f	D	D	D	D	D	D	D	D
336370	Motor vehicle metal stamping ..	-	3	1	f	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts manufacturing .....	-	2	2	g	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts manufacturing .....	-	2	2	g	D	D	D	D	D	D	D	D
<b>WALLED LAKE</b>													
31-33	Manufacturing .....	1	34	9	g	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	6	2	f	D	D	D	D	D	D	D	D
3364	Aerospace product and parts manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
336412	Aircraft engine and engine parts manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>WARREN</b>													
31-33	Manufacturing .....	-	454	145	20 144	1 055 708	15 722	31 705	801 766	2 439 496	6 044 623	8 480 272	141 179
326	Plastics and rubber products manufacturing .....	1	11	8	564	16 490	348	674	7 897	41 199	29 286	70 516	895
3261	Plastics product manufacturing ..	-	8	6	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	3	164	39	3 469	128 121	2 441	4 997	84 937	306 038	252 034	557 800	66 455
3323	Architectural and structural metals manufacturing .....	1	26	8	855	26 175	436	945	16 964	55 109	60 735	117 324	D
33231	Plate work and fabricated structural product manufacturing .....	-	12	4	657	19 647	319	697	13 804	40 767	48 310	90 277	D
332313	Plate work manufacturing ...	-	6	4	632	18 601	305	671	13 395	38 410	45 368	84 978	D
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	4	80	15	1 589	66 065	1 201	2 423	44 278	158 804	149 951	308 806	47 251
33271	Machine shops .....	1	66	8	897	34 939	688	1 362	22 219	79 596	74 808	153 809	D
332710	Machine shops .....	1	66	8	897	34 939	688	1 362	22 219	79 596	74 808	153 809	D
33272	Turned product and screw, nut, and bolt manufacturing .....	6	14	7	692	31 126	513	1 061	22 059	79 208	75 143	154 997	D
3328	Coating, engraving, heat treating, and allied activities .....	1	34	12	723	23 798	595	1 212	16 974	59 057	18 973	76 537	4 087
33281	Coating, engraving, heat treating, and allied activities ..	1	34	12	723	23 798	595	1 212	16 974	59 057	18 973	76 537	4 087
333	Machinery manufacturing .....	1	114	38	2 879	143 546	1 975	4 203	89 227	415 238	199 997	621 130	15 261
3335	Metalworking machinery manufacturing .....	-	86	28	1 966	95 822	1 396	2 925	63 729	302 992	120 155	431 627	10 300
33351	Metalworking machinery manufacturing .....	-	86	28	1 966	95 822	1 396	2 925	63 729	302 992	120 155	431 627	10 300
333514	Special die and tool, die set, jig, and fixture manufacturing .....	-	36	9	629	33 732	383	849	20 905	73 101	22 418	94 435	4 898
333515	Cutting tool and machine tool accessory manufacturing...	-	23	6	549	22 093	407	773	14 898	75 722	42 187	120 066	3 685
3339	Other general purpose machinery manufacturing .....	3	16	7	701	36 822	447	1 012	19 904	82 148	61 402	143 827	D

See footnotes at end of table.

**Table 4. Industry Statistics for Places: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>WARREN—Con.</b>													
336	Transportation equipment manufacturing .....	-	38	25	10 330	655 711	8 942	17 998	557 090	1 386 683	5 308 485	6 684 626	49 944
3361	Motor vehicle manufacturing .....	-	1	1	h	D	D	D	D	D	D	D	D
33611	Automobile and light duty motor vehicle manufacturing .....	-	1	1	h	D	D	D	D	D	D	D	D
336112	Light truck and utility vehicle manufacturing .....	-	1	1	h	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	-	32	22	i	D	D	D	D	D	D	D	D
33635	Motor vehicle transmission and power train parts manufacturing .....	-	2	2	g	D	D	D	D	D	D	D	D
336350	Motor vehicle transmission and power train parts manufacturing .....	-	2	2	g	D	D	D	D	D	D	D	D
33637	Motor vehicle metal stamping ..	1	16	12	h	D	D	D	D	D	D	D	D
336370	Motor vehicle metal stamping .....	1	16	12	h	D	D	D	D	D	D	D	D
<b>WATERFORD</b>													
31-33	Manufacturing .....	1	54	14	837	33 868	588	1 234	20 409	86 623	57 703	143 478	1 923
<b>WAYNE</b>													
31-33	Manufacturing .....	-	27	12	i	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	2	2	i	D	D	D	D	D	D	D	D
3361	Motor vehicle manufacturing .....	-	2	2	i	D	D	D	D	D	D	D	D
33611	Automobile and light duty motor vehicle manufacturing .....	-	2	2	i	D	D	D	D	D	D	D	D
336111	Automobile manufacturing .....	-	1	1	h	D	D	D	D	D	D	D	D
336112	Light truck and utility vehicle manufacturing .....	-	1	1	h	D	D	D	D	D	D	D	D
<b>WESTLAND</b>													
31-33	Manufacturing .....	1	82	22	1 768	74 767	1 355	2 831	50 127	159 296	183 858	342 449	7 061
<b>WHITEHALL</b>													
31-33	Manufacturing .....	-	12	7	g	D	D	D	D	D	D	D	D
331	Primary metal manufacturing .....	-	4	3	g	D	D	D	D	D	D	D	D
3315	Foundries .....	-	3	2	g	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries .....	-	1	1	g	D	D	D	D	D	D	D	D
331512	Steel investment foundries ..	-	1	1	g	D	D	D	D	D	D	D	D
<b>WIXOM</b>													
31-33	Manufacturing .....	-	113	45	6 557	353 512	5 183	9 978	262 814	1 131 599	2 841 439	3 970 753	43 596
332	Fabricated metal product manufacturing .....	1	30	7	f	D	D	D	D	D	D	D	D
3329	Other fabricated metal product manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
33291	Metal valve manufacturing ....	-	2	2	f	D	D	D	D	D	D	D	D
332912	Fluid power valve and hose fitting manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	1	33	15	971	51 725	552	1 173	24 113	154 947	156 044	309 074	D
336	Transportation equipment manufacturing .....	-	9	7	h	D	D	D	D	D	D	D	D
3361	Motor vehicle manufacturing .....	-	1	1	h	D	D	D	D	D	D	D	D
33611	Automobile and light duty motor vehicle manufacturing .....	-	1	1	h	D	D	D	D	D	D	D	D
336111	Automobile manufacturing .....	-	1	1	h	D	D	D	D	D	D	D	D
<b>WOODHAVEN</b>													
31-33	Manufacturing .....	-	5	2	h	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	2	1	h	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	-	1	1	h	D	D	D	D	D	D	D	D
33637	Motor vehicle metal stamping ..	-	1	1	h	D	D	D	D	D	D	D	D
336370	Motor vehicle metal stamping .....	-	1	1	h	D	D	D	D	D	D	D	D

See footnotes at end of table.

**Table 4. Industry Statistics for Places: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E1	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>WYANDOTTE</b>													
31-33	Manufacturing .....	1	43	9	1 567	87 657	712	1 509	31 390	176 409	264 163	443 886	14 486
325	Chemical manufacturing .....	-	5	2	f	D	D	D	D	D	D	D	D
3252	Resin, synthetic rubber, and artificial synthetic fibers and filaments manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
32521	Resin and synthetic rubber manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
325211	Plastics material and resin manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	3	14	6	505	18 558	353	789	12 448	42 548	24 195	67 057	D
<b>WYOMING</b>													
31-33	Manufacturing .....	-	186	82	10 097	472 649	7 896	15 905	342 737	1 218 721	1 027 173	2 211 597	51 237
311	Food manufacturing .....	-	7	5	918	33 814	663	1 446	20 119	93 572	178 220	271 539	12 371
326	Plastics and rubber products manufacturing .....	1	17	8	830	28 880	642	1 436	18 047	60 802	54 596	116 608	3 954
3261	Plastics product manufacturing ..	1	16	7	f	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	1	11	5	680	23 194	550	1 224	15 199	48 283	40 075	89 311	2 395
326199	All other plastics product manufacturing .....	1	11	5	680	23 194	550	1 224	15 199	48 283	40 075	89 311	2 395
332	Fabricated metal product manufacturing .....	-	45	14	1 021	35 421	797	1 513	22 902	81 053	38 055	119 091	3 472
333	Machinery manufacturing .....	-	36	20	1 813	80 036	1 347	2 708	52 180	159 753	91 140	223 794	6 452
3335	Metalworking machinery manufacturing .....	-	23	12	1 433	64 741	1 091	2 154	43 472	129 486	66 711	168 272	5 671
33351	Metalworking machinery manufacturing .....	-	23	12	1 433	64 741	1 091	2 154	43 472	129 486	66 711	168 272	5 671
333514	Special die and tool, die set, jig, and fixture manufacturing .....	-	11	6	571	33 021	434	925	22 321	69 198	34 238	84 346	4 444
336	Transportation equipment manufacturing .....	-	9	6	3 602	223 993	3 043	6 109	185 869	646 785	490 068	1 130 460	18 061
3363	Motor vehicle parts manufacturing .....	-	6	4	h	D	D	D	D	D	D	D	D
33631	Motor vehicle gasoline engine and engine parts manufacturing .....	-	3	2	g	D	D	D	D	D	D	D	D
336312	Gasoline engine and engine parts manufacturing .....	-	3	2	g	D	D	D	D	D	D	D	D
33637	Motor vehicle metal stamping ..	-	3	2	g	D	D	D	D	D	D	D	D
336370	Motor vehicle metal stamping .....	-	3	2	g	D	D	D	D	D	D	D	D
<b>YPSILANTI CITY</b>													
31-33	Manufacturing .....	-	18	4	g	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	3	2	g	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	-	3	2	g	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical and electronic equipment manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
336322	Other motor vehicle electrical and electronic equipment manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
<b>YPSILANTI TOWNSHIP</b>													
31-33	Manufacturing .....	-	22	5	i	D	D	D	D	D	D	D	19 752
336	Transportation equipment manufacturing .....	-	2	2	i	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	-	2	2	i	D	D	D	D	D	D	D	D
33631	Motor vehicle gasoline engine and engine parts manufacturing .....	-	1	1	h	D	D	D	D	D	D	D	D
336312	Gasoline engine and engine parts manufacturing .....	-	1	1	h	D	D	D	D	D	D	D	D
33635	Motor vehicle transmission and power train parts manufacturing .....	-	1	1	h	D	D	D	D	D	D	D	D
336350	Motor vehicle transmission and power train parts manufacturing .....	-	1	1	h	D	D	D	D	D	D	D	D

See footnotes at end of table.

**Table 4. Industry Statistics for Places: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E1	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>ZEELAND</b>													
31-33	Manufacturing .....	-	50	32	8 369	355 403	6 076	12 385	179 553	1 607 359	1 068 747	2 668 106	74 201
311	Food manufacturing .....	-	5	4	g	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	-	1	1	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing .....	-	1	1	f	D	D	D	D	D	D	D	D
311615	Poultry processing .....	-	1	1	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing .....	-	2	2	g	D	D	D	D	D	D	D	D
3272	Glass and glass product manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
32721	Glass and glass product manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
327215	Glass product manufacturing made of purchased glass ..	-	1	1	g	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing .....	-	3	2	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	-	3	2	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing ..	-	3	2	f	D	D	D	D	D	D	D	D
334518	Watch, clock, and part manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	6	6	795	34 629	574	1 097	20 621	106 672	75 985	182 478	3 520
3363	Motor vehicle parts manufacturing .....	-	5	5	f	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	-	4	4	g	D	D	D	D	D	D	D	D
3372	Office furniture (including fixtures) manufacturing .....	-	3	3	g	D	D	D	D	D	D	D	D
33721	Office furniture (including fixtures) manufacturing .....	-	3	3	g	D	D	D	D	D	D	D	D
337214	Office furniture (except wood) manufacturing .....	-	2	2	g	D	D	D	D	D	D	D	D
<b>BALANCE OF ALLEGAN COUNTY</b>													
31-33	Manufacturing .....	1	112	36	3 585	113 827	2 791	5 602	75 928	315 466	594 246	907 077	13 196
311	Food manufacturing .....	-	13	7	g	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	-	3	2	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing .....	-	3	2	g	D	D	D	D	D	D	D	D
311611	Animal (except poultry) slaughtering .....	-	1	1	g	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	3	33	9	600	17 483	479	935	11 549	31 940	15 884	47 937	1 469
<b>BALANCE OF ANTRIM COUNTY</b>													
31-33	Manufacturing .....	2	55	13	1 218	44 226	799	1 668	26 994	103 212	104 656	202 448	5 261
<b>BALANCE OF ARENAC COUNTY</b>													
31-33	Manufacturing .....	2	32	12	576	17 980	465	903	12 632	43 358	43 279	87 433	3 043
<b>BALANCE OF BARRY COUNTY</b>													
31-33	Manufacturing .....	1	39	6	f	D	D	D	D	D	D	D	D
<b>BALANCE OF BAY COUNTY</b>													
31-33	Manufacturing .....	5	39	6	799	29 208	591	1 276	19 094	101 625	67 104	167 751	3 380

See footnotes at end of table.



**Table 4. Industry Statistics for Places: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>BALANCE OF BERRIEN COUNTY</b>													
31-33	Manufacturing .....	2	137	37	2 971	97 252	2 038	4 025	59 516	196 253	192 527	396 301	18 725
326	Plastics and rubber products manufacturing .....	1	'10	'4	f	D	D	D	D	D	D	D	D
3261	Plastics product manufacturing ..	1	'9	'4	'525	'8 003	'267	'549	'5 164	'17 428	'16 064	'33 509	'536
32619	Other plastics product manufacturing .....	1	'9	'4	'525	'8 003	'267	'549	'5 164	'17 428	'16 064	'33 509	'536
326199	All other plastics product manufacturing .....	1	'9	'4	'525	'8 003	'267	'549	'5 164	'17 428	'16 064	'33 509	'536
331	Primary metal manufacturing .....	1	13	11	809	28 665	607	1 307	17 957	64 856	61 019	124 389	8 090
3315	Foundries .....	2	12	10	f	D	D	D	D	D	D	D	D
33152	Nonferrous metal foundries ....	1	10	8	f	D	D	D	D	D	D	D	D
<b>BALANCE OF BRANCH COUNTY</b>													
31-33	Manufacturing .....	-	49	17	1 561	48 981	1 211	2 096	32 311	118 675	109 913	225 297	D
336	Transportation equipment manufacturing .....	-	7	4	759	23 556	590	889	15 303	37 280	54 001	89 401	D
3363	Motor vehicle parts manufacturing .....	-	6	4	f	D	D	D	D	D	D	D	D
<b>BALANCE OF CALHOUN COUNTY</b>													
31-33	Manufacturing .....	-	34	13	1 725	56 768	1 270	2 563	36 458	131 206	146 969	278 998	21 681
336	Transportation equipment manufacturing .....	-	3	3	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	-	3	3	f	D	D	D	D	D	D	D	D
<b>BALANCE OF CASS COUNTY</b>													
31-33	Manufacturing .....	-	63	20	2 028	62 941	1 600	3 128	39 823	150 124	217 331	368 826	6 319
326	Plastics and rubber products manufacturing .....	-	9	5	572	15 080	472	881	10 279	39 240	29 555	68 243	1 864
3261	Plastics product manufacturing ..	-	8	5	f	D	D	D	D	D	D	D	D
<b>BALANCE OF CLINTON COUNTY</b>													
31-33	Manufacturing .....	-	37	12	g	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	3	1	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
<b>BALANCE OF CRAWFORD COUNTY</b>													
31-33	Manufacturing .....	1	18	9	641	23 165	470	908	15 356	61 047	87 485	147 024	5 918
<b>BALANCE OF DELTA COUNTY</b>													
31-33	Manufacturing .....	-	21	6	g	D	D	D	D	D	D	D	D
322	Paper manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
3221	Pulp, paper, and paperboard mills .....	-	1	1	g	D	D	D	D	D	D	D	D
32212	Paper mills .....	-	1	1	g	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills .....	-	1	1	g	D	D	D	D	D	D	D	D
<b>BALANCE OF DICKINSON COUNTY</b>													
31-33	Manufacturing .....	-	11	6	845	45 039	667	1 407	33 776	233 978	215 787	456 615	11 705
322	Paper manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
3221	Pulp, paper, and paperboard mills .....	-	1	1	f	D	D	D	D	D	D	D	D
32212	Paper mills .....	-	1	1	f	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>BALANCE OF EATON COUNTY</b>													
31-33	Manufacturing .....	3	36	9	f	D	D	D	D	D	D	D	D

See footnotes at end of table.

**Table 4. Industry Statistics for Places: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
31-33	<b>BALANCE OF EMMET COUNTY</b> Manufacturing .....	1	46	8	1 022	36 981	666	1 307	18 912	87 571	47 445	134 234	3 984
31-33	<b>BALANCE OF GENESEE COUNTY</b> Manufacturing .....	1	35	8	f	D	D	D	D	D	D	D	2 473
31-33	<b>BALANCE OF GLADWIN COUNTY</b> Manufacturing .....	3	32	11	803	29 346	583	1 025	16 952	68 338	46 859	113 648	D
31-33	<b>BALANCE OF GRAND TRAVERSE COUNTY</b> Manufacturing .....	2	43	9	618	19 659	436	857	12 012	45 640	32 735	77 867	3 628
31-33	<b>BALANCE OF HILLSDALE COUNTY</b> Manufacturing .....	—	77	32	4 309	143 499	3 529	7 355	105 707	356 540	663 968	1 019 720	40 295
326	Plastics and rubber products manufacturing .....	—	6	3	f	D	D	D	D	D	D	D	D
3261	Plastics product manufacturing ..	—	5	3	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	3	27	14	831	24 478	651	1 275	16 496	57 018	38 329	96 506	3 504
336	Transportation equipment manufacturing .....	—	10	8	g	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	—	10	8	g	D	D	D	D	D	D	D	D
33635	Motor vehicle transmission and power train parts manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
336350	Motor vehicle transmission and power train parts manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts manufacturing .....	—	4	4	1 264	40 894	1 075	2 291	31 898	117 509	416 071	534 877	14 502
336399	All other motor vehicle parts manufacturing .....	—	4	4	1 264	40 894	1 075	2 291	31 898	117 509	416 071	534 877	14 502
31-33	<b>BALANCE OF HOUGHTON COUNTY</b> Manufacturing .....	3	37	8	651	20 397	505	1 011	12 926	52 453	74 824	132 385	D
31-33	<b>BALANCE OF HURON COUNTY</b> Manufacturing .....	1	64	19	2 612	90 509	2 096	4 057	65 269	262 503	229 551	497 212	18 393
336	Transportation equipment manufacturing .....	1	6	5	g	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	1	5	5	g	D	D	D	D	D	D	D	D
33637	Motor vehicle metal stamping ..	—	2	2	f	D	D	D	D	D	D	D	D
336370	Motor vehicle metal stamping .....	—	2	2	f	D	D	D	D	D	D	D	D
31-33	<b>BALANCE OF INGHAM COUNTY</b> Manufacturing .....	—	66	22	3 699	191 787	2 502	5 060	134 988	305 853	539 143	832 236	24 734
326	Plastics and rubber products manufacturing .....	—	6	3	f	D	D	D	D	D	D	D	D
3261	Plastics product manufacturing ..	—	6	3	f	D	D	D	D	D	D	D	D
32614	Polystyrene foam product manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
326140	Polystyrene foam product manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	—	7	3	g	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	—	4	2	g	D	D	D	D	D	D	D	D
33637	Motor vehicle metal stamping ..	—	2	1	g	D	D	D	D	D	D	D	D
336370	Motor vehicle metal stamping .....	—	2	1	g	D	D	D	D	D	D	D	D
31-33	<b>BALANCE OF IONIA COUNTY</b> Manufacturing .....	—	42	11	969	31 817	730	1 437	19 413	109 554	139 621	247 984	D

See footnotes at end of table.

**Table 4. Industry Statistics for Places: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E1	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>BALANCE OF IOSCO COUNTY</b>													
31-33	Manufacturing .....	1	36	9	g	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	-	3	3	f	D	D	D	D	D	D	D	D
3261	Plastics product manufacturing ..	-	3	3	f	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
<b>BALANCE OF ISABELLA COUNTY</b>													
31-33	Manufacturing .....	-	34	8	1 801	63 201	1 169	2 186	34 884	153 138	120 944	274 903	D
333	Machinery manufacturing .....	-	5	3	g	D	D	D	D	D	D	D	D
3332	Industrial machinery manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
33321	Sawmill and woodworking machinery manufacturing ....	-	1	1	f	D	D	D	D	D	D	D	D
333210	Sawmill and woodworking machinery manufacturing ..	-	1	1	f	D	D	D	D	D	D	D	D
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
333415	Air-conditioning and warm air heating equipment and commercial and industrial refrigeration equipment manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
<b>BALANCE OF JACKSON COUNTY</b>													
31-33	Manufacturing .....	-	82	31	2 625	100 323	1 805	3 554	57 063	265 893	510 379	775 081	48 768
332	Fabricated metal product manufacturing .....	'3	'37	'12	'807	'28 235	'634	'1 227	'19 108	'57 939	'27 115	'83 916	D
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	2	26	9	617	22 110	498	958	15 525	45 775	17 226	61 701	D
336	Transportation equipment manufacturing .....	-	5	4	g	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	-	5	4	g	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
336391	Motor vehicle air-conditioning manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>BALANCE OF KALAMAZOO COUNTY</b>													
31-33	Manufacturing .....	-	103	28	2 643	95 274	1 992	3 974	59 010	242 829	224 217	464 322	13 455
322	Paper manufacturing .....	-	4	4	557	19 380	422	838	11 603	52 602	75 313	126 682	2 489
3222	Converted paper product manufacturing .....	-	3	3	f	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	-	6	4	f	D	D	D	D	D	D	D	D
3261	Plastics product manufacturing ..	-	6	4	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	-	24	6	628	26 065	454	979	15 424	54 422	33 130	87 558	1 865
<b>BALANCE OF KALKASKA COUNTY</b>													
31-33	Manufacturing .....	-	17	9	790	24 406	608	1 186	15 696	49 276	36 197	85 524	8 733

See footnotes at end of table.

**Table 4. Industry Statistics for Places: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E1	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>BALANCE OF KENT COUNTY</b>													
31-33	Manufacturing .....	-	65	13	5 833	251 144	4 596	8 136	186 772	210 909	619 902	856 085	36 587
325	Chemical manufacturing .....	-	1	1	h	D	D	D	D	D	D	D	D
3256	Soap, cleaning compound, and toilet preparation manufacturing ..	-	1	1	h	D	D	D	D	D	D	D	D
32562	Toilet preparation manufacturing .....	-	1	1	h	D	D	D	D	D	D	D	D
325620	Toilet preparation manufacturing .....	-	1	1	h	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	5	3	835	24 243	661	526	11 821	74 011	56 246	128 893	D
3363	Motor vehicle parts manufacturing .....	-	3	3	f	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>BALANCE OF LAPEER COUNTY</b>													
31-33	Manufacturing .....	-	75	14	2 038	72 349	1 574	3 219	46 349	182 863	185 198	368 154	31 566
326	Plastics and rubber products manufacturing .....	-	4	2	f	D	D	D	D	D	D	D	D
3261	Plastics product manufacturing ..	-	3	2	f	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	8	4	761	22 777	570	1 076	14 039	48 063	68 601	115 951	D
3363	Motor vehicle parts manufacturing .....	-	5	3	f	D	D	D	D	D	D	D	D
<b>BALANCE OF LENAWEE COUNTY</b>													
31-33	Manufacturing .....	-	93	31	3 691	155 195	2 644	5 166	95 884	519 989	523 188	1 036 351	46 124
325	Chemical manufacturing .....	-	6	5	633	36 998	265	516	11 871	128 543	142 792	266 648	D
3251	Basic chemical manufacturing ..	-	3	3	f	D	D	D	D	D	D	D	D
32519	Other basic organic chemical manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
325199	All other basic organic chemical manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	-	10	3	887	38 803	702	1 448	30 212	156 397	169 467	325 961	D
3261	Plastics product manufacturing ..	-	9	3	f	D	D	D	D	D	D	D	5 183
32619	Other plastics product manufacturing .....	-	6	3	849	37 770	669	1 396	29 452	154 325	167 799	322 218	D
326199	All other plastics product manufacturing .....	-	6	3	849	37 770	669	1 396	29 452	154 325	167 799	322 218	D
332	Fabricated metal product manufacturing .....	-	22	7	547	22 856	411	890	14 749	45 077	37 649	82 810	D
<b>BALANCE OF LIVINGSTON COUNTY</b>													
31-33	Manufacturing .....	1	58	17	2 716	109 311	1 841	3 848	67 061	366 849	398 901	769 682	21 780
332	Fabricated metal product manufacturing .....	3	19	5	1 001	37 789	751	1 602	26 776	118 174	91 402	208 779	5 561
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	8	12	3	f	D	D	D	D	D	D	D	D
33271	Machine shops .....	8	11	3	580	22 427	494	1 025	18 773	49 614	41 226	91 052	D
332710	Machine shops .....	8	11	3	580	22 427	494	1 025	18 773	49 614	41 226	91 052	D
336	Transportation equipment manufacturing .....	-	4	3	945	43 551	615	1 353	27 213	191 448	265 114	461 362	D
3363	Motor vehicle parts manufacturing .....	-	4	3	945	43 551	615	1 353	27 213	191 448	265 114	461 362	D
<b>BALANCE OF MACOMB COUNTY</b>													
31-33	Manufacturing .....	1	39	7	855	34 874	563	1 184	20 208	119 011	42 233	160 884	3 229
<b>BALANCE OF MENOMINEE COUNTY</b>													
31-33	Manufacturing .....	1	33	10	601	17 551	484	923	11 609	51 940	34 247	87 064	1 324

See footnotes at end of table.

**Table 4. Industry Statistics for Places: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>BALANCE OF MIDLAND COUNTY</b>													
31-33	Manufacturing .....	4	27	7	f	D	D	D	D	D	D	D	D
<b>BALANCE OF MONROE COUNTY</b>													
31-33	Manufacturing .....	1	48	15	1 480	55 837	1 127	1 949	34 063	164 159	100 016	274 099	28 107
327	Nonmetallic mineral product manufacturing .....	—	7	3	730	34 186	536	1 138	20 990	113 354	58 938	180 993	D
3272	Glass and glass product manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
32721	Glass and glass product manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
327211	Flat glass manufacturing ....	—	1	1	f	D	D	D	D	D	D	D	D
<b>BALANCE OF MONTCALM COUNTY</b>													
31-33	Manufacturing .....	1	52	11	1 054	33 375	834	1 491	23 573	77 665	62 069	148 523	8 617
<b>BALANCE OF MUSKEGON COUNTY</b>													
31-33	Manufacturing .....	—	76	18	2 441	91 423	1 854	3 795	61 157	252 949	243 289	495 994	35 918
331	Primary metal manufacturing .....	—	9	5	550	17 242	442	1 004	11 892	59 333	25 216	84 666	3 414
3315	Foundries .....	—	7	5	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	—	3	1	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	—	3	1	f	D	D	D	D	D	D	D	D
33631	Motor vehicle gasoline engine and engine parts manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
336312	Gasoline engine and engine parts manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
<b>BALANCE OF NEWAYGO COUNTY</b>													
31-33	Manufacturing .....	—	30	6	f	D	D	D	D	D	D	D	D
<b>BALANCE OF OAKLAND COUNTY</b>													
31-33	Manufacturing .....	3	68	18	1 317	52 238	919	1 888	30 935	128 735	110 485	240 326	6 864
<b>BALANCE OF OCEANA COUNTY</b>													
31-33	Manufacturing .....	—	42	10	1 417	36 713	1 160	2 165	24 890	124 170	131 786	258 881	6 545
311	Food manufacturing .....	—	7	4	708	15 661	621	1 145	10 998	69 176	63 024	135 269	3 776
<b>BALANCE OF OGEMAW COUNTY</b>													
31-33	Manufacturing .....	3	34	10	1 040	31 182	713	1 085	19 476	61 517	36 827	101 540	4 155
<b>BALANCE OF OSCEOLA COUNTY</b>													
31-33	Manufacturing .....	—	49	18	3 062	96 296	2 377	4 980	66 602	335 341	337 719	678 100	33 269
311	Food manufacturing .....	—	4	2	f	D	D	D	D	D	D	D	D
3115	Dairy product manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
311511	Fluid milk manufacturing ....	—	2	2	f	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	—	4	3	g	D	D	D	D	D	D	D	D
3261	Plastics product manufacturing ..	—	4	3	g	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	—	4	3	g	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing .....	—	4	3	g	D	D	D	D	D	D	D	D

See footnotes at end of table.

**Table 4. Industry Statistics for Places: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E1	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>BALANCE OF OTTAWA COUNTY</b>													
31-33	Manufacturing .....	2	100	18	2 044	70 385	1 610	3 239	47 094	149 020	113 408	257 739	8 616
326	Plastics and rubber products manufacturing .....	3	6	4	982	32 514	809	1 687	20 287	73 386	58 581	129 694	3 186
3261	Plastics product manufacturing ..	3	6	4	982	32 514	809	1 687	20 287	73 386	58 581	129 694	3 186
32619	Other plastics product manufacturing .....	3	4	4	f	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing .....	3	4	4	f	D	D	D	D	D	D	D	D
<b>BALANCE OF SAGINAW COUNTY</b>													
31-33	Manufacturing .....	1	79	17	g	D	D	D	D	D	D	D	8 163
<b>BALANCE OF ST. CLAIR COUNTY</b>													
31-33	Manufacturing .....	4	137	26	1 600	58 885	1 112	2 125	35 656	127 614	101 051	227 976	9 777
333	Machinery manufacturing .....	1	29	9	524	20 642	329	610	10 336	44 138	22 628	65 504	5 824
<b>BALANCE OF ST. JOSEPH COUNTY</b>													
31-33	Manufacturing .....	-	80	33	3 721	136 349	2 848	5 735	94 223	310 755	382 152	689 836	21 237
326	Plastics and rubber products manufacturing .....	-	12	6	838	29 356	722	1 495	22 741	80 184	72 690	152 411	9 418
3261	Plastics product manufacturing ..	-	12	6	838	29 356	722	1 495	22 741	80 184	72 690	152 411	9 418
32619	Other plastics product manufacturing .....	-	10	5	f	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing .....	-	10	5	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	12	10	g	D	D	D	D	D	D	D	D
3362	Motor vehicle body and trailer manufacturing .....	1	10	9	g	D	D	D	D	D	D	D	D
33621	Motor vehicle body and trailer manufacturing .....	1	10	9	g	D	D	D	D	D	D	D	D
336214	Travel trailer and camper manufacturing .....	2	8	7	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>BALANCE OF SANILAC COUNTY</b>													
31-33	Manufacturing .....	1	72	27	2 838	89 867	1 994	3 496	55 166	198 549	183 044	384 681	17 556
326	Plastics and rubber products manufacturing .....	-	10	8	f	D	D	D	D	D	D	D	D
3261	Plastics product manufacturing ..	-	10	8	f	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	-	8	7	f	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing .....	-	8	7	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	1	20	8	f	D	D	D	D	D	D	D	D
<b>BALANCE OF SHIAWASSEE COUNTY</b>													
31-33	Manufacturing .....	-	35	11	g	D	D	D	D	D	D	D	2 431
326	Plastics and rubber products manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
3261	Plastics product manufacturing ..	-	2	2	f	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
<b>BALANCE OF TUSCOLA COUNTY</b>													
31-33	Manufacturing .....	1	34	6	663	18 859	496	866	11 154	48 977	26 554	75 879	5 455

See footnotes at end of table.

**Table 4. Industry Statistics for Places: 2002—Con.**

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E1	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>BALANCE OF VAN BUREN COUNTY</b>													
31-33	Manufacturing .....	-	70	22	2 269	76 358	1 809	3 398	54 877	542 557	327 071	870 007	31 342
312	Beverage and tobacco product manufacturing .....	-	3	2	f	D	D	D	D	D	D	D	D
3121	Beverage manufacturing .....	-	3	2	f	D	D	D	D	D	D	D	D
31211	Soft drink and ice manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
312111	Soft drink manufacturing ....	-	2	2	f	D	D	D	D	D	D	D	D
<b>BALANCE OF WASHTENAW COUNTY</b>													
31-33	Manufacturing .....	-	69	22	4 713	231 530	3 534	6 746	171 306	727 430	814 347	1 535 526	28 636
326	Plastics and rubber products manufacturing .....	-	3	2	f	D	D	D	D	D	D	D	D
3261	Plastics product manufacturing ..	-	2	2	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	5	5	2 621	147 005	2 124	4 160	117 407	540 599	637 082	1 176 002	18 608
3363	Motor vehicle parts manufacturing .....	-	5	5	2 621	147 005	2 124	4 160	117 407	540 599	637 082	1 176 002	18 608
33639	Other motor vehicle parts manufacturing .....	-	2	2	g	D	D	D	D	D	D	D	D
336391	Motor vehicle air-conditioning manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D

<sup>1</sup>Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data 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.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Industries with 500 employees or more are shown. Some statistics are withheld to avoid disclosing data for individual companies. If employment is 500 or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: f–500 to 999 employees; g–1,000 to 2,499 employees; h–2,500 to 4,999 employees; i–5,000 to 9,999 employees; j–10,000 to 24,999 employees; k–25,000 to 49,999 employees; l–50,000 to 99,999 employees; m–100,000 employees or more.

<sup>4</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

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 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. Detailed Statistics for the State: 2002**

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
<b>MICHIGAN</b>	
Companies <sup>1</sup> .....	N
All establishments <sup>2</sup> .....	'15 193
Establishments with 1 to 19 employees .....	'10 047
Establishments with 20 to 99 employees .....	'3 702
Establishments with 100 employees or more .....	'1 444
All employees <sup>3</sup> .....	'736 259
Total compensation .....	\$1,000.. '43 045 917
Annual payroll .....	\$1,000.. '33 171 232
Total fringe benefits .....	\$1,000.. '9 874 685
Production workers, average for year .....	'549 621
Production workers on March 12 .....	'546 002
Production workers on May 12 .....	'553 713
Production workers on August 12 .....	'552 022
Production workers on November 12 .....	'545 799
Production worker hours .....	'1 087 100
Production worker wages .....	\$1,000.. '22 571 995
Total cost of materials .....	\$1,000.. '124 086 616
Materials, parts, containers, packaging, etc., used .....	\$1,000.. '115 348 341
Resales .....	\$1,000.. '3 149 048
Purchased fuels .....	\$1,000.. '1 101 833
Purchased electricity .....	\$1,000.. '1 639 125
Contract work .....	\$1,000.. '2 848 269
Quantity of electricity purchased for heat and power .....	1,000 kWh.. '32 393 631
Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. 1 843 901
Total value of shipments .....	\$1,000.. '221 433 262
Value of resales .....	\$1,000.. '4 090 697
Value added .....	\$1,000.. '97 575 395
Total inventories, beginning of year .....	\$1,000.. '13 944 556
Finished goods inventories .....	\$1,000.. '4 229 634
Work-in-process inventories .....	\$1,000.. '4 141 369
Materials and supplies inventories .....	\$1,000.. '5 573 553
Total inventories, end of year .....	\$1,000.. '14 207 671
Finished goods inventories .....	\$1,000.. '4 276 378
Work-in-process inventories .....	\$1,000.. '4 307 717
Materials and supplies inventories .....	\$1,000.. '5 623 576
Gross value of depreciable assets (acquisition costs) at beginning of year .....	\$1,000.. '88 775 661
Total capital expenditures (new and used) .....	\$1,000.. '5 699 658
Buildings and other structures (new and used) .....	\$1,000.. '644 600
Machinery and equipment (new and used) .....	\$1,000.. '5 055 058
Automobiles, trucks, etc., for highway use .....	\$1,000.. '125 435
Computers and peripheral data processing equipment .....	\$1,000.. '307 759
All other expenditures for machinery and equipment .....	\$1,000.. '4 621 864
Total retirements .....	\$1,000.. '4 124 517
Gross value of depreciable assets at end of year .....	\$1,000.. '90 350 802
Depreciation charges during year .....	\$1,000.. '6 197 676
Total rental payments .....	\$1,000.. '1 826 588
Buildings and other structures .....	\$1,000.. '929 411
Machinery and equipment .....	\$1,000.. '897 177

<sup>1</sup>For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

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 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.