

Table 176. Occupation of the Female Experienced Civilian Labor Force by Earnings in 1969 and Race: 1970

[Data based on sample, see text. For minimum base for derived figures (percent, median, etc.) and meaning of symbols, see text.]

The State  
Standard Metropolitan Statistical Areas  
of 250,000 or More

THE STATE

Total

	Females with earnings in 1969											Median earnings (dollars)	
	Total, 16 years old and over	\$1 to \$499 or less	\$500 to \$999	\$1,000 to \$1,999	\$2,000 to \$2,999	\$3,000 to \$3,999	\$4,000 to \$4,999	\$5,000 to \$5,999	\$6,000 to \$6,999	\$7,000 to \$9,999	\$10,000 or more	All earners	Earners worked 50 to 52 weeks
<b>Experienced civilian labor force</b> .....	1 164 058	93 738	90 062	145 835	126 215	141 014	141 679	123 475	97 387	150 542	54 111	3 895	5 236
<b>Professional, technical, and kindred workers</b> .....	174 573	7 949	8 112	14 273	13 556	12 839	11 244	11 903	13 989	49 150	31 558	6 530	7 541
Accountants .....	6 676	218	250	492	395	478	639	834	790	1 809	771	6 041	7 182
Computer specialists .....	1 624	15	16	80	88	96	80	128	128	205	152	384	7 715
Librarians .....	3 667	292	234	387	345	242	210	186	119	812	840	5 664	7 794
Mathematical specialists .....	265	7	18	20	14	14	6	21	35	85	59	7 404	8 288
Life and physical scientists .....	955	16	52	47	54	59	60	46	45	297	279	7 995	9 123
Registered nurses, dietitians, and therapists .....	33 934	819	1 044	2 300	2 956	3 197	3 206	3 212	3 416	9 997	3 787	6 068	7 500
Dietitians .....	1 406	46	55	122	151	128	204	231	112	205	152	4 985	5 724
Registered nurses .....	30 353	728	925	2 002	2 592	2 856	2 788	2 778	3 114	9 191	3 379	6 163	7 602
Health technologists and technicians .....	8 001	231	367	553	592	777	917	1 086	973	1 808	1 038	6 457	6 552
Social scientists .....	682	15	31	65	50	26	39	47	123	230	230	7 293	8 931
Social and recreation workers .....	6 039	303	189	310	293	401	329	550	532	1 931	1 201	7 175	8 320
Teachers: College and university .....	5 428	273	377	608	491	423	395	206	248	975	1 432	5 714	8 916
Elementary and prekindergarten .....	53 809	2 004	2 029	4 136	3 998	3 251	2 169	2 424	3 841	17 593	12 364	7 521	8 129
Secondary .....	20 293	783	739	1 498	1 711	1 272	169	783	1 303	7 032	4 398	7 548	8 332
Other teachers .....	4 624	847	677	768	426	397	286	206	214	523	280	2 047	4 744
Engineering and science technicians .....	2 598	117	144	196	160	182	295	299	345	597	263	5 686	6 833
Technicians, except health, and engineering and science .....	503	22	17	46	31	51	51	55	75	109	46	5 609	6 184
Writers, artists, and entertainers .....	7 332	1 032	913	1 095	610	667	555	498	392	975	595	3 024	5 836
Actors and dancers .....	305	28	24	38	41	64	30	14	15	40	11	3 336	4 336
Authors, editors, and reporters .....	1 734	175	114	226	112	204	95	158	126	356	168	4 379	6 839
Other professional, technical, and kindred workers .....	18 143	955	1 022	1 674	1 336	1 306	1 244	1 313	1 439	3 922	3 932	6 154	7 384
<b>Managers and administrators, except farm</b> .....	34 396	1 396	1 234	2 569	2 568	3 085	3 603	3 902	3 576	6 631	5 832	5 703	6 390
Buyers, purchasing agents, and sales managers .....	4 923	87	84	214	320	561	722	754	633	1 064	484	5 628	6 086
Restaurant, cafeteria, and bar managers .....	3 337	198	213	334	269	458	429	378	327	342	389	4 458	5 566
School administrators .....	2 237	133	81	286	311	71	66	65	64	205	955	7 607	7 850
Other specified managers and administrators .....	8 330	345	391	670	499	640	704	915	919	1 987	1 260	6 601	6 660
Managers and administrators, n.e.c., salaried .....	11 795	265	237	563	758	1 045	1 354	1 453	1 432	2 584	2 104	6 155	6 801
Wholesale and retail trade .....	4 074	89	82	187	285	470	608	541	501	811	500	5 584	6 162
Managers and administrators, n.e.c., self-employed .....	3 774	368	228	502	411	310	328	337	201	449	640	4 207	4 833
Wholesale and retail trade .....	2 334	258	142	321	263	214	206	203	112	297	318	3 855	4 567
<b>Sales workers</b> .....	92 454	12 193	11 523	17 872	14 134	13 783	9 645	5 155	2 638	3 412	2 099	2 328	3 749
Demonstrators, hucksters, and peddlers .....	4 524	1 219	1 055	992	492	304	212	84	63	44	59	994	1 764
Insurance, real estate agents, and brokers .....	5 237	267	250	485	444	506	673	663	451	813	685	4 990	5 893
Sales clerks, retail trade .....	67 671	8 765	8 363	13 922	11 181	11 177	7 508	3 347	1 325	1 471	612	2 249	3 592
Salesmen, retail trade .....	2 943	277	294	506	413	426	239	261	169	224	134	2 955	4 478
Other sales workers .....	12 079	1 665	1 561	1 967	1 604	1 370	1 013	800	630	860	609	2 528	4 364
<b>Clerical and kindred workers</b> .....	405 231	23 198	25 460	44 727	39 299	46 247	60 369	60 024	46 431	51 845	7 631	4 392	5 509
Bank tellers .....	10 527	287	381	1 229	1 287	1 616	2 487	1 749	937	500	54	4 186	4 836
Bookkeepers .....	46 590	1 491	2 010	4 077	4 075	5 503	7 530	7 731	5 789	6 964	1 419	4 815	5 511
Cashiers .....	32 539	3 368	3 840	6 218	4 957	4 627	3 763	3 029	1 595	920	222	2 574	4 201
Counter clerks, except food .....	7 369	776	849	1 392	944	1 125	926	629	377	336	21	2 713	4 194
Enumerators and interviewers .....	1 231	295	194	257	95	69	60	95	37	103	24	1 484	5 543
File clerks .....	11 168	1 133	1 059	1 701	1 311	1 330	1 413	1 227	1 015	889	90	3 286	5 120
Office machine operators .....	18 037	696	710	1 377	1 586	1 750	2 809	2 879	2 698	3 300	232	5 031	5 999
Bookkeeping and billing machine operators .....	2 334	95	141	223	271	259	441	402	292	200	10	4 404	5 358
Key punch operators .....	10 649	370	369	747	943	987	1 729	1 756	1 641	1 981	126	5 102	6 055
Payroll and timekeeping clerks .....	4 783	120	173	242	263	343	669	988	823	1 014	148	5 589	6 162
Receptionists .....	13 083	1 209	1 386	1 938	1 542	1 925	2 154	1 612	663	561	93	3 242	4 592
Secretaries .....	104 063	3 589	4 770	8 422	8 386	10 492	15 692	18 021	14 611	18 128	2 552	5 071	5 868
Stenographers .....	5 044	97	134	237	330	391	615	884	1 020	1 193	143	5 812	6 344
Telephone operators .....	14 419	664	694	1 490	1 399	1 622	2 265	2 909	1 846	1 245	283	4 591	5 504
Typists .....	39 316	2 717	2 883	4 573	3 779	4 420	6 239	6 024	4 674	3 745	262	4 206	5 399
Other clerical and kindred workers .....	97 062	6 756	6 978	11 574	9 345	11 034	13 747	12 247	10 346	12 947	2 088	4 207	5 511
<b>Craftsmen and kindred workers</b> .....	20 853	949	861	1 724	1 866	2 586	2 669	2 569	1 959	3 447	2 223	4 914	6 075
Foremen, n.e.c. ....	3 809	49	54	170	170	319	550	497	462	928	610	6 207	6 854
<b>Operatives, except transport</b> .....	162 559	6 620	7 688	14 218	15 764	24 486	26 189	22 339	17 854	25 391	2 010	4 477	5 423
Assemblers .....	31 935	836	1 185	2 278	2 672	4 083	4 981	4 354	4 469	6 846	231	4 986	6 023
Bottling and canning operatives .....	701	71	66	92	163	87	95	45	34	—	—	2 745	5 125
Checkers, examiners, and inspectors, manufacturing .....	14 429	283	333	717	927	1 582	2 187	2 374	2 425	3 354	247	5 499	6 066
Dressmakers and seamstresses, except factory .....	3 229	221	289	569	486	642	515	296	94	83	34	3 077	3 915
Laundry and drycleaning operatives, including ironers .....	9 101	739	665	1 026	1 371	2 458	1 532	646	362	223	79	3 305	3 799
Graders and sorters, manufacturing .....	745	65	72	176	119	71	76	95	43	21	4	2 500	5 179
Packers and wrappers, except produce .....	14 543	891	968	1 507	1 501	2 389	2 240	2 376	1 439	1 155	77	4 007	5 231
Sewers and stitchers .....	11 959	333	396	894	1 237	2 063	1 755	1 383	1 433	2 385	80	4 602	5 293
Textile operatives .....	431	19	12	39	61	71	85	76	48	20	—	4 159	5 276
Other specified operatives .....	40 828	1 756	2 022	3 682	3 740	6 027	6 721	5 610	4 025	6 401	844	4 474	5 415
Miscellaneous and not specified operatives .....	34 658	1 406	1 680	3 238	3 487	5 013	6 002	5 084	4 469	4 869	414	4 417	5 427
Manufacturing .....	31 409	1 088	1 354	2 795	3 032	4 509	5 583	4 743	3 275	4 664	366	4 524	5 490
Durable goods .....	18 630	531	570	1 490	1 622	2 486	2 932	2 834	2 269	3 654	242	4 892	5 857
Machinery, including electrical .....	4 334	120	138	351	448	680	601	601	460	879	56	4 715	5 918
Other durable goods .....	14 296	411	432	1 139	1 174	1 806	2 331	2 233	1 809	2 775	186	4 938	5 843
Nondurable goods, including not specified manufacturing .....	12 779	557	784	1 305	1 410	2 023	2 651	1 909	1 064	1 010	124	4 117	5 016
Food and kindred products .....	1 793	110	221	248	210	241	235	230	148	140	10	3 446	5 341
Apparel and other fabricated textile products .....	781	47	37	64	83	150	208	73	59	56	4	4 046	4 539
Nonmanufacturing industries .....	3 249	318	326	443	455	504	419	341	190	205	48	3 164	4 646
Transport equipment operatives .....	8 393	568	782	1 627	1 623	1 233	824	485	357	596	298	2 751	5 489
Laborers, except farm .....	12 576	1 356	1 258	1 632	1 466	1 762	1 720	1 162	896</				

Table 176. Occupation of the Female Experienced Civilian Labor Force by Earnings in 1969 and Race: 1970—Continued

[Data based on sample, see text. For minimum base for derived figures (percent, median, etc.) and meaning of symbols, see text]

The State  
Standard Metropolitan Statistical Areas  
of 250,000 or More

THE STATE—Continued

Negro

	Females with earnings in 1969											Median earnings (dollars)	
	Total, 16 years old and over	\$1 to \$499 or loss	\$500 to \$999	\$1,000 to \$1,999	\$2,000 to \$2,999	\$3,000 to \$3,999	\$4,000 to \$4,999	\$5,000 to \$5,999	\$6,000 to \$6,999	\$7,000 to \$9,999	\$10,000 or more	All earners	Earners worked 50 to 52 weeks
<b>Experienced civilian labor force</b>	<b>137 898</b>	<b>10 274</b>	<b>10 655</b>	<b>15 917</b>	<b>15 507</b>	<b>19 176</b>	<b>18 496</b>	<b>14 113</b>	<b>12 155</b>	<b>16 250</b>	<b>5 355</b>	<b>3 865</b>	<b>4 893</b>
<b>Professional, technical, and kindred workers</b>	<b>14 893</b>	<b>447</b>	<b>455</b>	<b>832</b>	<b>778</b>	<b>858</b>	<b>1 096</b>	<b>1 327</b>	<b>1 356</b>	<b>4 303</b>	<b>3 441</b>	<b>2 207</b>	<b>7 367</b>
Accountants	575	30	8	48	15	64	38	72	53	185	62	6 236	7 408
Computer specialists	171	10	6	22	—	4	6	19	5	52	47	7 779	8 883
Librarians	165	13	12	21	10	7	12	18	3	4	65	5 417	—
Mathematical specialists	23	—	—	—	5	—	—	—	6	7	5	—	—
Life and physical scientists	64	—	—	5	9	10	4	—	8	10	18	—	—
Registered nurses, dietitians, and therapists	2 942	29	77	115	180	163	365	316	357	861	479	6 433	7 553
Dietitians	412	5	16	34	65	28	90	65	33	56	20	4 444	5 500
Registered nurses	2 344	24	61	74	111	115	255	225	287	756	436	7 079	7 926
Health technologists and technicians	1 074	13	18	54	27	89	166	247	128	239	93	5 688	5 873
Social scientists	82	—	—	7	10	—	15	4	14	9	23	—	—
Social and recreation workers	1 245	51	50	61	52	62	51	160	148	312	298	6 916	8 131
Teachers: College and university	180	—	20	8	—	17	21	19	27	17	51	6 185	—
Elementary and prekindergarten	4 459	107	115	249	209	252	199	201	250	1 381	1 496	8 407	7 939
Secondary	1 396	27	14	65	72	53	23	49	99	600	394	8 480	8 074
Other teachers	197	33	37	5	5	5	12	26	15	50	9	5 058	—
Engineering and science technicians	136	6	4	14	8	9	11	32	23	25	4	5 500	—
Technicians, except health, and engineering and science	63	11	—	11	—	4	3	—	6	28	—	—	—
Writers, artists, and entertainers	351	37	14	54	34	26	35	31	25	80	15	4 300	7 092
Actors and dancers	25	7	—	—	6	6	—	—	—	—	6	—	—
Authors, editors, and reporters	78	5	10	8	—	16	—	9	—	30	—	—	—
Other professional, technical, and kindred workers	1 770	80	80	93	142	93	135	133	189	443	382	6 683	7 127
<b>Managers and administrators, except farm</b>	<b>2 252</b>	<b>86</b>	<b>90</b>	<b>178</b>	<b>154</b>	<b>228</b>	<b>233</b>	<b>254</b>	<b>223</b>	<b>413</b>	<b>393</b>	<b>5 618</b>	<b>6 178</b>
Buyers, purchasing agents, and sales managers	273	—	16	19	6	41	46	52	51	25	17	5 163	5 467
Restaurant, cafeteria, and bar managers	231	11	30	35	10	27	37	30	7	22	22	4 068	4 688
School administrators	155	5	—	7	18	9	8	5	—	29	74	9 638	—
Other specified managers and administrators	887	40	41	66	46	59	91	79	113	198	154	6 190	6 628
Managers and administrators, n.e.c., salaried	502	10	3	42	27	61	32	73	46	111	97	6 065	7 000
Wholesale and retail trade	143	—	—	15	9	16	12	24	—	45	22	5 813	—
Managers and administrators, n.e.c., self-employed	204	20	—	9	47	31	19	15	6	28	29	3 839	4 789
Wholesale and retail trade	131	13	—	9	41	17	12	15	6	9	9	3 147	—
<b>Sales workers</b>	<b>5 333</b>	<b>648</b>	<b>588</b>	<b>630</b>	<b>836</b>	<b>1 045</b>	<b>649</b>	<b>451</b>	<b>253</b>	<b>186</b>	<b>67</b>	<b>2 969</b>	<b>4 039</b>
Demonstrators, hucksters, and peddlers	118	31	11	10	20	14	22	6	4	—	—	2 350	—
Insurance, real estate agents, and brokers	279	4	13	16	30	9	52	85	43	21	6	5 182	5 340
Sales clerks, retail trade	3 899	475	473	507	583	849	485	250	163	76	38	2 848	3 851
Salesmen, retail trade	141	4	5	25	25	20	4	47	11	—	—	3 575	—
Other sales workers	916	134	86	72	178	153	86	63	32	89	23	2 933	4 288
<b>Clerical and kindred workers</b>	<b>38 394</b>	<b>2 813</b>	<b>2 569</b>	<b>3 860</b>	<b>3 841</b>	<b>4 362</b>	<b>5 850</b>	<b>5 389</b>	<b>4 764</b>	<b>4 442</b>	<b>504</b>	<b>4 299</b>	<b>5 513</b>
Bank tellers	597	27	4	58	42	95	120	142	76	28	5	4 404	5 533
Bookkeepers	2 006	92	105	177	168	231	421	312	211	255	34	4 546	5 295
Cashiers	2 850	324	293	444	463	379	403	216	194	113	21	2 784	4 223
Counter clerks, except food	748	131	77	132	106	101	87	57	24	33	—	2 321	4 182
Enumerators and interviewers	173	18	34	31	11	5	12	23	16	18	5	2 318	—
File clerks	1 542	152	188	224	196	187	214	185	142	48	6	3 059	4 294
Office machine operators	2 618	124	121	175	233	193	508	472	379	388	25	4 911	5 746
Bookkeeping and billing machine operators	258	13	22	21	38	22	55	29	29	29	—	4 236	5 293
Keypunch operators	1 701	71	64	91	158	119	335	357	240	230	16	5 035	5 780
Payroll and timekeeping clerks	264	4	13	15	15	10	27	58	49	73	—	5 828	6 488
Receptionists	945	70	100	77	93	146	169	167	82	36	5	3 908	4 738
Secretaries	4 490	257	222	289	375	409	626	820	724	691	77	5 082	5 754
Stenographers	442	5	26	23	27	10	57	81	71	122	20	5 901	6 406
Telephone operators	2 229	145	136	214	260	256	471	375	206	147	19	4 220	5 121
Typists	4 772	318	250	515	466	522	746	769	767	397	22	4 422	5 564
Other clerical and kindred workers	14 718	1 146	1 000	1 486	1 386	1 818	1 989	1 712	1 823	2 093	265	4 263	5 824
<b>Craftsmen and kindred workers</b>	<b>1 964</b>	<b>93</b>	<b>123</b>	<b>140</b>	<b>168</b>	<b>334</b>	<b>269</b>	<b>238</b>	<b>166</b>	<b>360</b>	<b>73</b>	<b>4 461</b>	<b>5 561</b>
Foremen, n.e.c.	294	5	—	23	13	36	75	25	23	71	23	4 933	4 992
<b>Operatives, except transport</b>	<b>23 805</b>	<b>1 092</b>	<b>1 213</b>	<b>2 219</b>	<b>2 400</b>	<b>3 860</b>	<b>3 538</b>	<b>2 514</b>	<b>2 717</b>	<b>3 875</b>	<b>377</b>	<b>4 316</b>	<b>5 026</b>
Assemblers	4 205	140	156	271	412	468	531	452	727	1 004	44	5 275	6 441
Bottling and canning operatives	58	5	7	—	19	11	12	—	4	—	—	—	—
Checkers, examiners, and inspectors; manufacturing	1 321	26	43	123	112	166	161	159	197	304	30	5 186	6 469
Dressmakers and seamstresses, except factory	3 771	7	20	59	54	82	64	50	16	13	6	3 555	3 765
Laundry and drycleaning operatives, including ironers	3 763	239	200	301	458	1 116	734	339	186	153	37	3 612	3 976
Graders and sorters, manufacturing	39	4	—	12	3	10	2	—	4	4	—	—	—
Packers and wrappers, except produce	1 623	164	152	192	182	293	226	152	132	123	7	3 415	4 576
Sewers and stitchers	1 505	33	65	99	86	190	253	194	208	361	16	5 137	5 472
Textile operatives	45	5	7	9	—	14	4	6	—	—	—	—	—
Other specified operatives	6 232	281	318	623	600	901	888	680	688	1 092	161	4 443	5 257
Miscellaneous and not specified operatives	4 643	188	245	530	474	609	663	482	555	821	76	4 416	5 747
<b>Manufacturing</b>	<b>4 035</b>	<b>130</b>	<b>200</b>	<b>428</b>	<b>415</b>	<b>498</b>	<b>585</b>	<b>410</b>	<b>505</b>	<b>797</b>	<b>67</b>	<b>4 592</b>	<b>5 990</b>
Durable goods	2 589	71	101	234	262	281	353	257	370	612	48	4 979	6 390
Machinery, including electrical	306	5	12	35	60	38	26	26	40	57	7	4 115	—
Other durable goods	2 283	66	89	199	202	243	327	231	330	555	41	5 067	6 459
Nondurable goods, including not specified manufacturing	1 446	59	99	194	153	217	232	153	135	185	19	4 004	5 012
Food and kindred products	145	—	23	42	6	24	13	15	9	—	—	3 063	—
Apparel and other fabricated textile products	126	11	5	22	13	33	13	15	6	4	4	3 364	—
Nonmanufacturing industries	608	58	45	102	59	111	78	72	50	24	9	3 360	4 319
<b>Transport equipment operatives</b>	<b>591</b>	<b>24</b>	<b>26</b>	<b>59</b>	<b>63</b>	<b>91</b>	<b>68</b>	<b>94</b>	<b>42</b>	<b>87</b>	<b>37</b>	<b>4 478</b>	<b>5 707</b>
<b>Laborers, except farm</b>	<b>2 378</b>	<b>176</b>	<b>220</b>	<b>282</b>	<b>214</b>	<b>386</b>	<b>348</b>	<b>269</b>	<b>202</b>	<b>267</b>	<b>14</b>	<b>3 769</b>	<b>4 937</b>
Farmers and farm managers	161	—	—	23	17	33	37	14	15	22	—	4 203	4 203
<b>Farm laborers and farm foremen</b>	<b>303</b>	<b>33</b>	<b>51</b>	<b>56</b>	<b>22</b>	<b>57</b>	<b>33</b>	<b>14</b>	<b>13</b>	<b>14</b>	<b>10</b>	<b>2 523</b>	<b>—</b>
Paid farm laborers and farm foremen	299	33	51	52	22	57	33	14	13	14	10	2 614	—
Unpaid family workers	4	—	—	4	—	—	—	—	—	—	—	—	—
<b>Service workers, except private household<sup>1</sup></b>	<b>37 315</b>	<b>3 088</b>	<b>3 055</b>	<b>4 670</b>	<b>5 098</b>	<b>7 034</b>	<b>5 992</b>	<b>3 402</b>	<b>2 354</b>	<b>2 211</b>	<b>411</b>	<b>3 390</b>	<b>4 258</b>
Cleaning service workers	7 607	506	576	1 019	1 197	1 682							

Table 176. Occupation of the Female Experienced Civilian Labor Force by Earnings in 1969 and Race: 1970—Continued

[Data based on sample, see text. For minimum base for derived figures (percent, median, etc.) and meaning of symbols, see text]

The State  
Standard Metropolitan Statistical Areas  
of 250,000 or More

THE STATE—Continued

Persons of Spanish Language

	Females with earnings in 1969											Median earnings (dollars)	
	Total, 16 years old and over	\$1 to \$499 or loss	\$500 to \$999	\$1,000 to \$1,999	\$2,000 to \$2,999	\$3,000 to \$3,999	\$4,000 to \$4,999	\$5,000 to \$5,999	\$6,000 to \$6,999	\$7,000 to \$9,999	\$10,000 or more	All earners	Earners worked 50 to 52 weeks
<b>Experienced civilian labor force</b> .....	11 955	1 118	1 021	1 537	1 685	1 561	1 536	1 182	798	1 161	356	3 395	4 805
<b>Professional, technical, and kindred workers</b> .....	1 356	83	89	104	142	113	75	108	125	294	223	5 667	6 896
Accountants .....	74	—	22	7	—	—	—	7	24	6	8	...	...
Computer specialists .....	12	—	—	—	—	—	—	—	—	5	7	...	...
Librarians .....	22	—	8	—	—	—	9	—	—	5	—	...	...
Mathematical specialists .....	—	—	—	—	—	—	—	—	—	—	—	...	...
Life and physical scientists .....	3	—	—	—	—	—	—	—	—	—	3	...	...
Registered nurses, dietitians, and therapists .....	271	14	7	23	28	16	13	25	25	88	32	6 380	7 713
Dietitians .....	13	7	—	—	—	—	—	6	—	—	—	...	...
Registered nurses .....	230	7	7	17	28	16	6	16	19	82	32	6 947	8 033
Health technologists and technicians .....	88	—	11	—	8	—	—	22	22	25	—	...	...
Social scientists .....	—	—	—	—	—	—	—	—	—	—	—	...	...
Social and recreation workers .....	60	5	10	—	13	11	7	8	6	—	—	...	...
Teachers: College and university .....	105	—	12	6	—	13	—	—	10	—	64	10000+	...
Elementary and prekindergarten .....	271	23	12	20	54	20	5	21	—	78	38	5 071	...
Secondary .....	140	7	—	7	6	7	6	14	24	43	26	6 958	...
Other teachers .....	68	20	—	12	29	—	7	—	—	—	—	...	...
Engineering and science technicians .....	29	—	—	7	—	—	—	—	—	22	—	...	...
Technicians, except health, and engineering and science .....	—	—	—	—	—	—	—	—	—	—	—	...	...
Writers, artists, and entertainers .....	53	9	—	—	—	17	9	6	7	—	5	...	...
Actors and dancers .....	20	—	—	—	—	11	9	—	—	—	—	...	...
Authors, editors, and reporters .....	15	9	—	—	—	6	—	—	—	—	—	...	...
Other professional, technical, and kindred workers .....	160	5	7	22	4	29	19	5	7	22	40	4 684	...
<b>Managers and administrators, except farm</b> .....	258	21	—	8	43	13	31	17	6	107	12	5 765	7 000
Buyers, purchasing agents, and sales managers .....	16	—	—	—	—	—	—	—	—	9	7	...	...
Restaurant, cafeteria, and bar managers .....	12	—	—	—	—	—	—	—	—	12	—	...	...
School administrators .....	8	—	—	—	8	—	—	—	—	—	—	...	...
Other specified managers and administrators .....	84	15	—	—	—	6	15	6	—	37	5	...	...
Managers and administrators, n.e.c., salaried .....	103	6	—	—	19	7	16	—	6	49	—	6 583	...
Wholesale and retail trade .....	36	6	—	—	14	—	7	—	—	9	—	...	...
Managers and administrators, n.e.c., self-employed .....	35	—	—	8	16	—	—	11	—	—	—	...	...
Wholesale and retail trade .....	17	—	—	8	9	—	—	—	—	—	—	...	...
<b>Sales workers</b> .....	702	183	82	128	86	89	73	22	13	16	10	1 672	3 713
Demonstrators, hucksters, and peddlers .....	31	8	9	7	7	—	—	—	—	—	—	...	...
Insurance, real estate agents, and brokers .....	35	13	—	—	7	4	—	—	7	4	—	...	...
Sales clerks, retail trade .....	497	137	44	104	72	85	39	10	6	—	—	1 649	3 210
Salesmen, retail trade .....	—	—	—	—	—	—	—	—	—	—	—	...	...
Other sales workers .....	139	25	29	17	—	—	34	12	—	12	10	1 912	...
<b>Clerical and kindred workers</b> .....	3 589	267	214	418	416	298	559	580	422	367	48	4 325	5 409
Bank tellers .....	76	—	—	7	16	11	22	12	8	—	—	...	...
Bookkeepers .....	320	11	12	12	36	36	81	56	31	25	20	4 654	4 872
Cashiers .....	292	33	47	64	27	58	21	42	—	—	—	2 074	...
Counter clerks, except food .....	61	14	—	31	6	—	10	—	—	—	—	...	...
Enumerators and interviewers .....	20	7	—	7	—	—	—	6	—	—	6	...	...
File clerks .....	109	18	10	7	32	15	13	6	8	—	—	2 609	...
Office machine operators .....	197	3	9	23	12	47	26	25	33	19	—	4 173	5 444
Bookkeeping and billing machine operators .....	27	3	—	7	5	—	6	—	—	—	—	...	...
Keypunch operators .....	141	—	9	16	7	34	20	20	16	19	—	4 225	...
Payroll and timekeeping clerks .....	52	—	—	—	—	—	—	24	6	22	—	...	...
Receptionists .....	151	21	16	13	6	12	21	54	8	—	—	4 357	...
Secretaries .....	849	19	25	84	115	33	127	172	148	118	8	5 125	5 827
Stenographers .....	23	—	—	—	5	—	5	—	—	13	—	...	...
Telephone operators .....	76	12	13	12	8	12	6	13	—	—	—	...	...
Typists .....	364	25	13	47	32	7	74	61	44	61	—	4 784	5 520
Other clerical and kindred workers .....	999	104	69	111	121	67	153	115	136	109	14	4 180	5 319
<b>Craftsmen and kindred workers</b> .....	247	28	10	4	53	39	32	16	—	65	—	3 731	4 708
Foremen, n.e.c. ....	38	—	—	—	—	—	21	—	—	17	—	...	...
<b>Operatives, except transport</b> .....	2 756	143	194	305	395	562	442	296	140	239	40	3 607	4 583
Assemblers .....	400	19	30	41	61	65	63	47	38	36	—	3 754	4 784
Bottling and canning operatives .....	48	10	7	7	5	5	7	—	7	—	—	...	...
Checkers, examiners, and inspectors; manufacturing .....	223	5	19	8	19	25	65	32	8	42	—	4 546	...
Dressmakers and seamstresses, except factory .....	72	—	—	31	—	9	23	9	—	—	—	...	...
Laundry and drycleaning operatives, including ironers .....	163	5	15	17	62	39	19	—	6	—	—	2 718	...
Graders and sorters, manufacturing .....	44	6	—	23	7	—	—	8	—	—	—	...	...
Packers and wrappers, except produce .....	340	38	46	54	48	46	51	42	8	7	—	2 667	...
Sewers and stitchers .....	225	12	10	40	10	82	31	21	—	19	—	3 494	...
Textile operatives .....	—	—	—	—	—	—	—	—	—	—	—	...	...
Other specified operatives .....	690	35	34	35	62	187	119	51	60	93	14	3 957	5 027
Miscellaneous and not specified operatives .....	551	13	33	49	121	104	64	86	13	42	26	3 572	4 729
Manufacturing .....	498	6	33	44	93	91	64	86	13	42	26	3 802	4 938
Durable goods .....	285	6	13	13	42	41	33	67	13	42	15	4 833	5 579
Machinery, including electrical .....	70	6	—	7	24	7	7	13	6	—	—	...	...
Other durable goods .....	215	—	13	6	18	34	26	54	7	42	15	5 194	...
Nondurable goods, including not specified manufacturing .....	213	—	20	31	51	50	31	19	—	—	11	3 090	...
Food and kindred products .....	46	—	6	5	22	13	—	—	—	—	—	...	...
Apparel and other fabricated textile products .....	—	—	—	—	—	—	—	—	—	—	—	...	...
Nonmanufacturing industries .....	53	7	—	5	28	13	—	—	—	—	—	...	...
Transport equipment operatives .....	71	15	—	28	6	—	15	—	—	—	7	...	...
<b>Laborers, except farm</b> .....	140	18	17	10	24	38	17	4	—	12	—	3 026	...
Farmers and farm managers .....	—	—	—	—	—	—	—	—	—	—	—	...	...
Farm laborers and farm foremen .....	138	45	29	17	33	—	8	6	—	—	—	914	...
Paid farm laborers and farm foremen .....	138	45	29	17	33	—	8	6	—	—	—	914	...
Unpaid family workers .....	—	—	—	—	—	—	—	—	—	—	—	...	...
<b>Service workers, except private household</b> .....	2 483	259	330	465	453	399	275	133	92	61	16	2 414	3 536
Cleaning service workers .....	361	28	12	43	84	94	38	20	34	8	—	3 144	3 651
Chambermaids and maids .....	74	9	—	17	11	19	5	13	—	—	—	...	...
Food service workers .....	1 045	155	193	286	129	110	96	52	13	—	11	1 610	2 952
Cooks, except private household .....	275	35	38	77	32	28	46	16	3	—	—	1 838	...
Waiters and food counter workers .....	416	73	103	144	61	21	27	23	10	—	—	1 399	2 276
Health service workers .....	518	16	63	72	84	135	59	39	27	18	5	3 178	4 024
Nursing aides, orderlies, and attendants .....	365	12	44	72	67	93	48	22	7	—	—	2 813	3 724
Practical nurses .....	73	—	—	—	—	16	11	10	6	18	5	...	...
Personal service workers .....	389	60	28	48	82	43	65	22	6	35	—	2 713	4 514
Hairdressers and cosmetologists .....	191	8	13	12	56	15	44	22	—	21	—	3 433	4 161
<b>Private household workers</b> .....	215	56	56	50	34	10	9	—	—	—	—	960	...
Private household workers, living in .....	7	—	—	—	7	—	—	—	—	—	—	...	...
Private household workers, living out .....	208	56	56	50	27	10	9	—	—	—	—	929	...

Includes protective service workers and allocated cases not shown separately.

Table 176. Occupation of the Female Experienced Civilian Labor Force by Earnings in 1969 and Race: 1970—Continued

(Data based on sample, see text. For minimum base for derived figures (percent, median, etc.) and meaning of symbols, see text)

The State  
Standard Metropolitan Statistical Areas  
of 250,000 or More

DETROIT SMSA

Total

	Females with earnings in 1969											Median earnings (dollars)	
	Total, 16 years old and over	\$1 to \$499 or loss	\$500 to \$999	\$1,000 to \$1,999	\$2,000 to \$2,999	\$3,000 to \$3,999	\$4,000 to \$4,999	\$5,000 to \$5,999	\$6,000 to \$6,999	\$7,000 to \$9,999	\$10,000 or more	All earners	Earners worked 50 to 52 weeks
<b>Experienced civilian labor force</b>	<b>556 784</b>	<b>38 336</b>	<b>36 610</b>	<b>61 985</b>	<b>57 834</b>	<b>63 536</b>	<b>66 743</b>	<b>62 074</b>	<b>53 166</b>	<b>84 237</b>	<b>32 263</b>	<b>4 301</b>	<b>5 623</b>
<b>Professional, technical, and kindred workers</b>	<b>80 590</b>	<b>3 066</b>	<b>3 094</b>	<b>6 378</b>	<b>5 851</b>	<b>5 599</b>	<b>4 694</b>	<b>5 492</b>	<b>5 807</b>	<b>22 018</b>	<b>18 591</b>	<b>7 043</b>	<b>7 966</b>
Accountants	3 678	113	107	226	212	264	263	429	372	1 141	551	4 605	7 751
Computer specialists	897	15	11	31	28	53	29	75	295	291	8 398	9 431	
Librarians	1 250	83	78	94	97	54	40	62	14	334	394	7 925	8 717
Mathematical specialists	181	7	9	14	10	10	6	16	19	64	44	7 820	8 570
Life and physical scientists	345	—	—	—	20	15	13	—	—	140	125	8 982	9 881
Registered nurses, dietitians, and therapists	14 831	318	359	833	1 112	1 159	1 278	1 319	1 470	4 446	2 537	6 706	8 126
Dietitians	702	21	17	62	74	51	121	104	73	88	89	5 029	5 930
Registered nurses	13 213	288	326	705	964	1 019	1 078	1 123	1 296	4 089	2 325	4 851	8 252
Health technologists and technicians	4 015	92	145	252	273	340	454	583	430	975	471	5 774	6 789
Social scientists	3 325	—	—	21	14	14	11	14	22	65	142	9 054	9 289
Social and recreation workers	3 087	142	95	179	125	215	152	294	281	882	722	7 206	8 643
Teachers: College and university	1 564	63	68	125	89	101	142	74	74	296	532	7 466	10000+
Elementary and kindergarten	24 646	889	899	2 169	1 822	1 561	922	1 089	1 206	6 946	7 143	7 763	8 248
Secondary	9 616	379	307	851	787	585	336	353	482	3 084	2 452	7 708	8 263
Other teachers	1 919	263	266	316	180	185	127	89	77	244	172	2 636	5 855
Engineering and science technicians	1 196	26	24	67	75	85	104	121	185	355	154	6 519	7 543
Technicians, except health, and engineering and science	291	11	9	15	24	28	27	33	53	63	28	5 955	6 594
Writers, artists, and entertainers	3 800	325	352	548	359	356	328	281	226	596	429	3 888	6 542
Actors and dancers	271	12	20	33	41	44	30	10	15	35	11	3 461	...
Authors, editors, and reporters	745	47	28	69	45	61	45	95	59	177	119	5 816	7 683
Other professional, technical, and kindred workers	8 949	340	343	632	624	574	462	660	818	2 092	2 404	7 031	7 929
<b>Managers and administrators, except farm</b>	<b>16 724</b>	<b>539</b>	<b>561</b>	<b>1 059</b>	<b>1 047</b>	<b>1 232</b>	<b>1 554</b>	<b>1 924</b>	<b>1 760</b>	<b>3 666</b>	<b>3 382</b>	<b>6 253</b>	<b>6 913</b>
Buyers, purchasing agents, and sales managers	2 581	42	52	67	109	233	328	375	315	736	324	6 268	6 817
Restaurant, cafeteria, and bar managers	1 584	70	111	131	87	188	250	242	152	180	173	4 820	5 726
School administrators	1 114	45	35	189	159	9	29	20	30	71	527	8 732	7 188
Other specified managers and administrators	3 795	157	210	259	202	277	225	359	415	991	700	6 502	7 041
Managers and administrators, n.e.c., salaried	6 137	111	96	245	305	409	597	791	777	1 517	1 289	6 662	7 372
Wholesale and retail trade	1 933	51	19	60	74	139	250	291	275	477	297	6 300	6 759
Managers and administrators, n.e.c., self-employed	1 513	114	57	168	185	116	125	137	71	171	369	4 932	5 565
Wholesale and retail trade	915	88	31	98	130	101	62	76	41	108	180	4 153	5 045
<b>Sales workers</b>	<b>47 035</b>	<b>5 662</b>	<b>5 144</b>	<b>8 207</b>	<b>6 660</b>	<b>6 931</b>	<b>6 063</b>	<b>3 252</b>	<b>1 639</b>	<b>2 196</b>	<b>1 281</b>	<b>2 674</b>	<b>4 172</b>
Demonstrators, hucksters, and peddlers	1 611	439	331	345	193	129	80	25	13	27	29	1 103	1 941
Insurance, real estate agents, and brokers	3 021	131	154	230	216	308	395	432	29	453	403	5 177	5 913
Sales clerks, retail trade	34 858	4 229	3 836	6 478	5 375	5 537	4 899	2 171	896	1 048	389	2 533	3 968
Salesmen, retail trade	1 554	127	120	261	247	262	104	157	103	101	72	3 084	4 896
Other sales workers	5 991	736	703	893	629	695	585	467	328	567	388	3 050	4 905
<b>Clerical and kindred workers</b>	<b>214 759</b>	<b>11 175</b>	<b>11 462</b>	<b>20 102</b>	<b>19 100</b>	<b>21 877</b>	<b>29 023</b>	<b>32 607</b>	<b>29 064</b>	<b>35 160</b>	<b>5 189</b>	<b>4 815</b>	<b>5 907</b>
Bank tellers	5 369	122	147	558	724	724	1 035	997	669	361	32	4 396	5 224
Bookkeepers	22 938	584	902	1 587	1 625	2 349	3 266	3 803	3 271	4 552	999	5 304	6 016
Cashiers	17 010	1 766	1 937	2 926	2 492	2 279	2 159	1 788	995	555	113	2 753	4 505
Counter clerks, except food	3 909	406	412	651	519	573	511	375	226	221	15	2 935	4 335
Enumerators and interviewers	4 493	76	89	87	52	17	22	51	22	62	15	1 937	5 529
File clerks	6 704	642	579	967	680	787	821	782	684	695	67	3 615	5 418
Office machine operators	11 128	362	444	756	925	926	1 517	1 693	1 824	2 487	194	5 374	6 364
Bookkeeping and billing machine operators	1 345	37	93	121	141	109	239	261	201	138	5	4 718	5 678
Keypunch operators	6 500	197	249	418	510	496	947	1 032	1 093	1 455	103	5 420	6 399
Payroll and timekeeping clerks	2 455	63	91	108	110	147	292	452	436	662	94	5 921	6 525
Receptionists	6 490	585	597	882	812	924	1 039	839	411	347	54	3 399	4 737
Secretaries	52 265	1 463	1 479	3 323	3 521	4 275	6 230	8 995	9 006	12 169	1 804	5 649	6 390
Stenographers	2 986	62	70	125	183	206	305	487	638	808	102	6 086	6 639
Telephone operators	7 961	331	309	734	717	846	1 243	1 636	1 192	772	181	4 840	5 660
Typists	23 104	1 429	1 441	2 564	2 138	2 484	3 435	3 701	3 069	2 701	142	4 432	5 624
Other clerical and kindred workers	51 947	3 284	2 965	4 834	4 602	5 340	7 148	7 008	6 621	8 768	1 377	4 696	5 929
<b>Craftsmen and kindred workers</b>	<b>8 992</b>	<b>314</b>	<b>369</b>	<b>609</b>	<b>762</b>	<b>925</b>	<b>1 014</b>	<b>1 123</b>	<b>1 027</b>	<b>1 708</b>	<b>1 141</b>	<b>5 448</b>	<b>6 564</b>
Foremen, n.e.c.	2 002	30	22	86	70	160	274	284	225	495	356	6 333	7 000
<b>Operatives, except transport</b>	<b>66 547</b>	<b>2 446</b>	<b>2 757</b>	<b>5 219</b>	<b>5 918</b>	<b>8 866</b>	<b>9 798</b>	<b>9 021</b>	<b>8 030</b>	<b>13 391</b>	<b>1 101</b>	<b>4 823</b>	<b>5 808</b>
Assemblers	11 833	317	424	762	917	1 141	1 511	1 545	1 825	3 282	109	5 547	6 510
Bottling and canning operatives	164	11	15	5	15	22	53	15	24	4	—	4 264	...
Checkers, examiners, and inspectors, manufacturing	5 339	114	118	225	250	442	591	795	1 015	1 685	104	6 133	6 755
Dressmakers and seamstresses, except factory	1 726	79	140	229	262	372	319	185	54	71	15	3 411	4 238
Laundry and drycleaning operatives, including ironers	4 422	238	236	371	614	1 193	899	434	211	176	50	3 630	4 070
Graders and sorters, manufacturing	96	12	10	10	8	10	15	16	9	6	—	...	...
Packers and wrappers, except produce	6 286	367	405	549	584	972	906	1 098	717	652	36	4 294	5 463
Sewers and stitchers	5 723	130	159	280	476	739	704	702	775	1 696	62	5 532	6 373
Textile operatives	102	5	7	15	4	33	12	6	—	20	—	3 606	...
Other specified operatives	17 326	650	692	1 455	1 445	2 195	2 514	2 501	1 947	3 425	502	4 885	5 906
Miscellaneous and not specified operatives	13 530	523	551	1 318	1 343	1 747	2 274	1 724	1 453	2 374	223	4 564	5 663
Manufacturing	11 929	376	424	1 098	1 169	1 506	2 054	1 548	1 315	2 251	188	4 777	5 766
Durable goods	7 355	167	228	679	637	827	1 109	968	905	1 681	154	5 032	6 222
Machinery, including electrical	1 715	26	50	153	152	205	199	183	187	518	42	5 396	6 971
Other durable goods	5 640	141	178	526	485	622	910	785	718	1 163	112	4 954	6 023
Nondurable goods, including not specified manufacturing	4 574	209	196	419	532	679	945	580	410	570	34	4 267	5 066
Food and kindred products	446	16	17	44	30	42	80	65	81	71	—	4 925	6 183
Apparel and other fabricated textile products	323	16	10	34	30	66	77	40	20	26	4	4 071	4 300
Nonmanufacturing industries	1 601	147	127	220	174	241	220	176	138	123	35	3 550	4 828
<b>Transport equipment operatives</b>	<b>2 914</b>	<b>179</b>	<b>204</b>	<b>280</b>	<b>431</b>	<b>499</b>	<b>400</b>	<b>219</b>	<b>199</b>	<b>324</b>	<b>179</b>	<b>3 727</b>	<b>6 463</b>
Laborers, except farm	5 665	532	611	673	584	748	809	585	438	618	67	3 578	4 917
Farmers and farm managers	270	63	13	23	14	36	39	10	23	33</			

Table 176. Occupation of the Female Experienced Civilian Labor Force by Earnings in 1969 and Race: 1970—Continued

[Data based on sample, see text. For minimum base for derived figures (percent, median, etc.) and meaning of symbols, see text]

The State  
Standard Metropolitan Statistical Areas  
of 250,000 or More

DETROIT SMSA—Continued

	Females with earnings in 1969											Median earnings (dollars)	
	Total, 16 years old and over	\$1 to \$499 or less	\$500 to \$999	\$1,000 to \$1,999	\$2,000 to \$2,999	\$3,000 to \$3,999	\$4,000 to \$4,999	\$5,000 to \$5,999	\$6,000 to \$6,999	\$7,000 to \$9,999	\$10,000 or more	All earners	Earners worked 50 to 52 weeks
<b>Negro</b>													
<b>Experienced civilian labor force</b> .....	107 595	7 582	7 894	11 777	11 929	14 693	14 661	11 108	10 000	13 393	4 558	3 995	4 983
<b>Professional, technical, and kindred workers</b> .....	11 889	339	318	605	543	661	822	1 023	1 120	3 482	2 976	7 442	7 455
Accountants .....	522	21	8	31	15	64	25	63	53	180	62	6 642	7 588
Computer specialists .....	145	10	6	18	—	—	—	16	5	47	43	8 117	9 170
Librarians .....	109	9	12	17	—	7	7	—	3	4	50	6 833	—
Mathematical specialists .....	23	—	—	—	5	—	—	—	6	7	5	—	—
Life and physical scientists .....	39	—	—	5	—	10	—	—	4	10	10	—	—
Registered nurses, dietitians, and therapists .....	2 348	26	58	96	130	109	278	234	322	682	413	6 755	7 614
Dietitians .....	282	5	8	34	42	23	61	49	28	21	11	4 475	5 500
Registered nurses .....	1 898	21	50	55	84	66	197	159	257	621	388	7 290	8 018
Health technologists and technicians .....	875	11	13	32	16	69	139	210	120	189	76	5 750	5 912
Social scientists .....	62	—	—	7	4	—	11	4	14	4	18	—	—
Social and recreation workers .....	1 039	34	24	56	34	59	46	119	121	273	273	7 291	8 534
Teachers: College and university .....	70	—	4	—	—	10	10	9	7	11	19	—	—
Elementary and kindergarten .....	3 499	74	98	177	137	178	155	161	169	1 056	1 294	8 706	8 023
Secondary .....	1 086	27	9	44	54	37	5	27	60	475	348	8 768	8 096
Other teachers .....	153	28	27	5	5	4	21	9	45	9	4	5 357	—
Engineering and science technicians .....	102	—	—	6	8	4	11	32	18	19	4	5 688	—
Technicians, except health, and engineering and science .....	47	11	—	—	4	3	—	—	6	23	—	—	—
Writers, artists, and entertainers .....	297	27	5	45	34	26	30	26	25	64	15	4 383	—
Actors and dancers .....	25	7	—	—	6	—	—	—	—	—	—	—	—
Authors, editors, and reporters .....	52	—	5	8	—	16	—	9	—	14	—	—	—
Other professional, technical, and kindred workers .....	1 473	61	54	66	101	84	98	101	178	393	337	6 963	7 180
<b>Managers and administrators, except farm</b> .....	1 860	62	86	161	117	187	171	196	177	372	331	5 745	6 241
Buyers, purchasing agents, and sales managers .....	199	—	16	13	—	35	28	31	41	25	10	5 242	5 820
Restaurant, cafeteria, and bar managers .....	196	6	26	29	—	22	37	30	7	22	17	4 405	5 125
School administrators .....	114	—	—	7	12	5	4	—	—	24	62	10000+	—
Other specified managers and administrators .....	742	40	41	66	33	53	63	62	82	178	124	6 159	6 471
Managers and administrators, n.e.c., salaried .....	444	3	3	37	25	61	27	58	41	100	89	6 195	6 879
Wholesale and retail trade .....	129	—	—	10	9	16	7	20	—	45	22	7 167	—
Managers and administrators, n.e.c., self-employed .....	165	13	—	9	47	11	12	15	6	23	29	4 208	—
Wholesale and retail trade .....	115	13	—	9	41	6	12	15	6	4	9	2 866	—
<b>Sales workers</b> .....	4 357	495	471	478	642	853	585	382	225	172	54	3 108	4 178
Demonstrators, hucksters, and peddlers .....	97	23	8	10	16	14	16	6	4	—	—	—	—
Insurance, real estate agents, and brokers .....	237	4	13	11	30	5	52	61	34	21	6	5 057	5 317
Sales clerks, retail trade .....	3 184	372	374	380	455	687	437	227	144	76	32	3 016	3 963
Salesmen, retail trade .....	110	—	5	9	18	20	4	43	11	—	—	4 750	—
Other sales workers .....	729	96	71	68	123	127	76	45	32	75	16	3 051	4 358
<b>Clerical and kindred workers</b> .....	32 202	2 220	2 052	2 874	3 121	3 568	4 946	4 556	4 320	4 094	451	4 458	5 619
Bank tellers .....	492	22	4	54	22	67	92	122	76	28	5	4 837	5 691
Bookkeepers .....	1 786	79	89	160	142	203	401	266	174	244	28	4 549	5 282
Cashiers .....	2 261	248	234	325	374	289	327	178	173	92	21	2 865	4 302
Counter clerks, except food .....	677	113	77	121	95	71	52	24	33	—	—	2 289	4 200
Enumerators and interviewers .....	153	18	34	26	11	—	8	17	16	18	5	1 942	—
File clerks .....	1 336	129	144	168	153	156	209	181	142	48	6	3 474	4 840
Office machine operators .....	2 349	87	111	121	214	178	457	438	356	362	25	5 015	5 771
Bookkeeping and billing machine operators .....	2 509	9	22	21	38	22	51	29	29	—	—	4 255	5 362
Keypunch operators .....	1 501	48	64	54	144	107	292	329	239	208	16	5 126	5 808
Payroll and timekeeping clerks .....	247	4	13	11	11	10	27	58	44	69	—	5 819	6 543
Receptionists .....	779	62	74	52	79	121	152	132	71	31	5	4 010	4 732
Secretaries .....	3 523	173	116	222	315	297	467	593	641	632	67	5 289	5 959
Stenographers .....	379	5	22	23	22	10	51	46	68	112	20	6 154	6 574
Telephone operators .....	1 882	116	113	168	201	227	419	302	186	131	19	4 277	5 119
Typists .....	4 213	285	219	459	394	464	646	673	684	374	15	4 442	5 638
Other clerical and kindred workers .....	12 125	879	802	964	1 088	1 455	1 619	1 498	1 665	1 920	235	4 540	5 990
<b>Craftsmen and kindred workers</b> .....	1 503	83	89	115	132	228	198	197	134	282	45	4 528	5 573
Foremen, n.e.c. .....	222	5	—	23	13	23	63	19	16	55	5	4 746	4 819
<b>Operatives, except transport</b> .....	16 752	742	745	1 517	1 660	2 734	2 614	1 790	1 898	2 763	289	4 374	4 994
Assemblers .....	2 636	64	94	179	229	254	355	274	445	711	31	5 522	6 687
Bottling and canning operatives .....	37	—	—	—	10	11	12	—	4	—	—	—	—
Checkers, examiners, and inspectors; manufacturing .....	778	15	25	83	58	96	91	88	144	173	5	5 239	6 494
Dressmakers and seamstresses, except factory .....	294	2	13	41	44	78	49	32	16	13	6	3 603	3 656
Laundry and drycleaning operatives, including ironers .....	2 921	138	100	239	364	878	618	272	144	131	37	3 706	4 063
Graders and sorters, manufacturing .....	22	—	—	5	3	10	—	—	4	—	—	—	—
Packers and wrappers, except produce .....	1 225	129	114	124	146	261	173	115	95	65	3	3 381	4 448
Sewers and stitchers .....	1 308	28	61	82	77	140	205	186	178	335	16	5 328	5 716
Textile operatives .....	45	5	7	9	—	14	4	6	—	—	—	—	—
Other specified operatives .....	4 257	205	195	393	383	577	638	471	474	786	135	4 589	5 393
Miscellaneous and not specified operatives .....	3 229	156	136	362	346	415	469	346	394	549	56	4 425	5 735
<b>Manufacturing</b> .....	2 720	104	103	287	305	319	407	279	344	525	47	4 595	6 005
Durable goods .....	1 790	55	75	178	177	188	244	186	264	386	37	4 910	6 259
Machinery, including electrical .....	200	5	12	25	44	23	26	10	27	21	7	3 609	—
Other durable goods .....	1 590	50	63	153	133	165	218	176	237	365	30	5 074	6 387
Nondurable goods, including not specified manufacturing .....	930	49	28	109	128	131	163	93	80	139	10	4 123	5 079
Food and kindred products .....	68	—	—	9	5	11	13	6	15	9	—	—	—
Apparel and other fabricated textile products .....	120	11	5	22	13	33	13	15	—	4	4	3 273	—
Nonmanufacturing industries .....	509	52	33	75	41	96	62	67	50	24	9	3 557	4 378
<b>Transport equipment operatives</b> .....	365	14	20	31	31	55	51	51	28	58	26	4 618	5 500
<b>Laborers, except farm</b> .....	1 901	146	164	208	164	348	290	197	159	211	14	3 772	4 927
<b>Farmers and farm managers</b> .....	121	—	—	5	10	28	31	10	15	22	—	4 565	4 565
<b>Farm laborers and farm foremen</b> .....	197	16	37	29	17	44	33	4	13	4	—	2 971	—
Paid farm laborers and farm foremen .....	197	16	37	29	17	44	33	4	13	4	—	2 971	—
Unpaid family workers .....	—	—	—	—	—	—	—	—	—	—	—	—	—
<b>Service workers, except private household<sup>1</sup></b> .....	28 073	2 139	2 138	3 420	3 877	5 214	4 630	2 564	1 869	1 874	348	3 472	4 335
<b>Cleaning service workers</b> .....	5 545	333	374	682	863	1 277	895	440	388	264	29	3 408	3 986
Chambermaids and maids .....	1 353	77	74	208	263	372	226	75	41	17	—	3 147	3 524
<b>Food service workers</b> .....	6 746	738	737	959	1 109	1 366	880	473	299	134	51	2 847	3 832
<b>Cooks, except private household</b> .....	2 330	122	134	277	411	528	381	238	134	76	29	3 419	4 155
Waiters and food counter workers .....	2 200	367	304	287	366	208	208	106	62	36	18	2 415	3 482
<b>Health service workers</b> .....	9 963	461	470	900	1 029	1 723	2 080	1 145	886	1 140	129	4 192	4 763
Nursing aides, orderlies, and attendants .....	6 633	364	360	628	783	1 338	1 588	783	382	372	35	3 883	4 431
Practical nurses .....	2 102	25	32	108	74	201	204	235	416	729	78	6 413	7 139
<b>Personal service workers</b> .....	2 551	309	268	404	379	348	270	234	139	135	65	2 777	4 287
Hairdressers and cosmetologists .....	979	84	99	209	172	143	71	70	53	52	26	2 567	4 000
<b>Private household workers</b> .....	8 375	1 326	1 774	2 334	1 615	773	290	138	42	59	2		

Table 176. Occupation of the Female Experienced Civilian Labor Force by Earnings in 1969 and Race: 1970—Continued

[Data based on sample, see text. For minimum base for derived figures (percent, median, etc.) and meaning of symbols, see text]

The State Standard Metropolitan Statistical Areas of 250,000 or More	Females with earnings in 1969											Median earnings (dollars)	
	Total, 16 years old and over	\$1 to \$499 or less	\$500 to \$999	\$1,000 to \$1,999	\$2,000 to \$2,999	\$3,000 to \$3,999	\$4,000 to \$4,999	\$5,000 to \$5,999	\$6,000 to \$6,999	\$7,000 to \$9,999	\$10,000 or more	All earners	Earners worked 50 to 52 weeks
<b>DETROIT SMSA — Continued</b>													
<b>Persons of Spanish Language</b>													
<b>Experienced civilian labor force</b>	5 867	432	452	632	710	682	723	666	525	819	226	4 035	5 302
<b>Professional, technical, and kindred workers</b>	782	28	57	40	90	47	31	67	113	184	125	6 274	6 663
Accountants	60	—	22	—	—	—	—	—	24	6	8	—	—
Computer specialists	—	—	—	—	—	—	—	—	—	—	—	—	—
Librarians	14	—	—	—	—	—	9	—	—	5	—	—	—
Mathematical specialists	—	—	—	—	—	—	—	—	—	—	—	—	—
Life and physical scientists	—	—	—	—	—	—	—	—	—	—	—	—	—
Registered nurses, dietitians, and therapists	158	—	7	12	14	—	6	25	25	61	8	6 600	—
Dietitians	6	—	—	—	—	—	—	—	6	—	—	—	—
Registered nurses	137	—	7	6	14	—	6	16	19	61	8	7 025	—
Health technologists and technicians	50	—	6	—	8	—	—	15	15	6	—	—	—
Social scientists	—	—	—	—	—	—	—	—	—	—	—	—	—
Social and recreation workers	47	5	5	—	13	11	7	—	6	—	—	—	—
Teachers: College and university	37	—	12	—	—	—	—	—	5	—	20	—	—
Elementary and prekindergarten	165	11	5	14	22	14	—	14	—	47	38	7 160	—
Secondary	107	7	—	7	—	—	—	7	24	43	19	7 593	—
Other teachers	29	—	—	—	29	—	—	—	—	—	—	—	—
Engineering and science technicians	11	—	—	—	—	—	—	—	—	11	—	—	—
Technicians, except health, and engineering and science	—	—	—	—	—	—	—	—	—	—	—	—	—
Writers, artists, and entertainers	38	—	—	—	—	11	9	6	7	—	5	—	—
Actors and dancers	20	—	—	—	—	11	9	—	—	—	—	—	—
Authors, editors, and reporters	—	—	—	—	—	—	—	—	—	—	—	—	—
Other professional, technical, and kindred workers	66	5	—	7	4	11	—	—	7	5	27	—	—
<b>Managers and administrators, except farm</b>	143	—	—	8	5	7	7	11	6	94	5	7 878	7 761
Buyers, purchasing agents, and sales managers	9	—	—	—	—	—	—	—	—	9	—	—	—
Restaurant, cafeteria, and bar managers	7	—	—	—	—	—	—	—	—	7	—	—	—
School administrators	—	—	—	—	—	—	—	—	—	—	—	—	—
Other specified managers and administrators	42	—	—	—	—	—	—	—	—	37	5	—	—
Managers and administrators, n.e.c., salaried	66	—	—	—	5	7	—	—	6	41	—	—	—
Wholesale and retail trade	16	—	—	—	—	7	—	—	—	9	—	—	—
Managers and administrators, n.e.c., self-employed	19	—	—	8	—	—	—	11	—	—	—	—	—
Wholesale and retail trade	8	—	—	8	—	—	—	—	—	—	—	—	—
Sales workers	367	101	26	49	59	37	47	15	7	16	10	2 127	4 234
Demonstrators, hucksters, and peddlers	7	—	—	—	7	—	—	—	—	—	—	—	—
Insurance, real estate agents, and brokers	24	13	—	—	—	—	—	—	7	4	—	—	—
Sales clerks, retail trade	274	82	26	32	52	37	35	10	—	—	—	1 906	—
Salesmen, retail trade	—	—	—	—	—	—	—	—	—	—	—	—	—
Other sales workers	62	6	—	17	—	—	12	5	—	12	10	—	—
<b>Clerical and kindred workers</b>	2 131	111	118	197	212	171	318	375	287	308	34	4 807	5 596
Bank tellers	30	—	—	7	5	11	7	—	—	—	—	—	—
Bookkeepers	182	—	—	—	22	26	50	34	19	25	6	4 860	4 875
Cashiers	161	13	23	43	—	31	21	30	—	—	—	3 048	—
Counter clerks, except food	32	14	—	6	6	—	6	—	—	—	—	—	—
Enumerators and interviewers	6	—	—	—	—	—	—	—	—	—	6	—	—
File clerks	74	13	10	—	20	11	6	6	8	—	—	—	—
Office machine operators	149	—	9	23	12	30	13	25	18	19	—	4 038	—
Bookkeeping and billing machine operators	24	—	—	7	5	—	6	—	6	—	—	—	—
Keypunch operators	114	—	9	16	7	24	7	20	12	19	—	4 143	—
Payroll and timekeeping clerks	38	—	—	—	—	—	—	10	6	22	—	—	—
Receptionists	95	14	16	5	6	8	5	33	8	—	—	—	—
Secretaries	496	14	11	39	44	13	52	109	105	101	8	5 688	6 112
Stenographers	23	—	—	—	5	—	5	—	—	13	—	—	—
Telephone operators	45	—	6	12	8	6	—	13	—	—	—	—	—
Typists	246	12	13	37	26	—	38	42	31	47	—	4 921	5 365
Other clerical and kindred workers	554	31	30	25	58	35	115	73	92	81	14	4 852	5 576
<b>Craftsmen and kindred workers</b>	135	17	—	4	22	18	15	5	—	54	—	4 433	—
Foremen, n.e.c.	26	—	—	—	—	—	15	—	—	11	—	—	—
<b>Operatives, except transport</b>	992	48	86	68	107	210	135	127	61	115	35	3 890	4 787
Assemblers	116	15	15	14	14	—	7	18	14	19	—	3 000	—
Bottling and canning operatives	14	—	7	—	—	—	7	—	—	—	—	—	—
Checkers, examiners, and inspectors, manufacturing	51	5	—	—	6	—	8	15	—	17	—	—	—
Dressmakers and seamstresses, except factory	34	—	—	7	—	—	18	9	—	—	—	—	—
Laundry and drycleaning operatives, including ironers	51	5	—	—	31	9	—	—	6	—	—	—	—
Graders and sorters, manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	—
Packers and wrappers, except produce	153	11	19	14	15	26	33	35	—	—	—	3 673	—
Sewers and stitchers	127	12	10	15	6	69	15	—	—	—	—	3 297	—
Textile operatives	—	—	—	—	—	—	—	—	—	—	—	—	—
Other specified operatives	289	—	20	8	9	73	30	21	35	79	14	5 214	6 414
Miscellaneous and not specified operatives	157	—	15	10	26	33	17	29	6	—	21	3 833	—
Manufacturing	150	—	15	10	26	26	17	29	6	—	21	3 923	—
Durable goods	84	—	6	—	20	19	—	18	6	—	15	—	—
Machinery, including electrical	22	—	—	—	9	—	—	7	6	—	—	—	—
Other durable goods	62	—	6	—	11	19	—	11	—	—	15	—	—
Nondurable goods, including not specified manufacturing	66	—	9	10	6	7	17	11	—	—	6	—	—
Food and kindred products	—	—	—	—	—	—	—	—	—	—	—	—	—
Apparel and other fabricated textile products	—	—	—	—	—	—	—	—	—	—	—	—	—
Nonmanufacturing industries	7	—	—	—	—	7	—	—	—	—	—	—	—
Transport equipment operatives	43	9	—	21	6	—	—	—	—	—	7	—	—
Laborers, except farm	62	10	—	6	24	13	9	—	—	—	—	—	—
Farmers and farm managers	—	—	—	—	—	—	—	—	—	—	—	—	—
Farm laborers and farm foremen	—	—	—	—	—	—	—	—	—	—	—	—	—
Paid farm laborers and farm foremen	—	—	—	—	—	—	—	—	—	—	—	—	—
Unpaid family workers	—	—	—	—	—	—	—	—	—	—	—	—	—
<b>Service workers, except private household<sup>1</sup></b>	1 126	101	135	220	161	173	161	66	51	48	10	2 665	4 145
Cleaning service workers	132	6	6	21	17	48	22	7	5	—	—	3 333	—
Chambermaids and maids	25	—	—	6	—	19	—	—	—	—	—	—	—
Food service workers	514	61	74	160	59	51	68	29	7	—	5	1 763	3 094
Cooks, except private household	112	8	6	47	10	13	25	—	3	—	—	1 894	—
Waiters and food counter workers	254	19	44	86	31	15	27	23	4	—	—	1 744	—
Health service workers	188	—	20	5	29	29	25	30	27	18	5	4 440	5 383
Nursing aides, orderlies, and attendants	117	—	15	5	23	29	25	13	7	—	—	3 534	—
Practical nurses	39	—	—	—	—	—	—	10	6	18	5	—	—
Personal service workers	214	34	21	23	21	39	46	—	—	30	—	3 205	—
Hairdressers and cosmetologists	103	8	6	6	15	15	32	—	—	21	—	4 047	—
<b>Private household workers</b>	86	7	30	19	24	6	—	—	—	—	—	—	—
Private household workers, living in	7	—	—	—	7	—	—	—	—	—	—	—	—
Private household workers, living out	79	7	30	19	17	6	—	—	—	—	—	—	—

<sup>1</sup>Includes protective service workers and allocated cases not shown separately.

Table 176. Occupation of the Female Experienced Civilian Labor Force by Earnings in 1969 and Race: 1970—Continued

[Data based on sample, see text. For minimum base for derived figures (percent, median, etc.) and meaning of symbols, see text]

The State  
Standard Metropolitan Statistical Areas  
of 250,000 or More

FLINT SMSA

Total

	Females with earnings in 1969											Median earnings (dollars)	
	Total, 16 years old and over	\$1 to \$499 or loss	\$500 to \$999	\$1,000 to \$1,999	\$2,000 to \$2,999	\$3,000 to \$3,999	\$4,000 to \$4,999	\$5,000 to \$5,999	\$6,000 to \$6,999	\$7,000 to \$9,999	\$10,000 or more	All earners	Earners worked 50 to 52 weeks
<b>Experienced civilian labor force</b> .....	<b>59 379</b>	<b>5 086</b>	<b>4 430</b>	<b>6 631</b>	<b>5 832</b>	<b>6 345</b>	<b>6 283</b>	<b>6 056</b>	<b>5 708</b>	<b>10 170</b>	<b>2 836</b>	<b>4 217</b>	<b>5 763</b>
<b>Professional, technical, and kindred workers</b> .....	<b>8 624</b>	<b>523</b>	<b>345</b>	<b>646</b>	<b>591</b>	<b>591</b>	<b>563</b>	<b>526</b>	<b>685</b>	<b>2 604</b>	<b>1 530</b>	<b>6 769</b>	<b>7 869</b>
Accountants .....	325	5	26	30	16	21	8	44	31	91	53	6 403	8 302
Computer specialists .....	51	—	—	—	—	—	6	—	9	27	9	—	—
Librarians .....	140	11	—	10	4	5	20	8	18	16	48	6 667	—
Mathematical specialists .....	5	—	—	—	—	—	—	—	—	5	—	—	—
Life and physical scientists .....	17	—	—	—	—	—	—	—	—	6	11	—	—
Registered nurses, dietitians, and therapists .....	1 793	37	58	132	133	127	166	158	149	598	235	6 574	8 190
Dietitians .....	81	—	4	4	20	—	—	14	—	19	20	—	—
Registered nurses .....	1 632	32	54	128	113	127	162	144	144	522	206	6 389	8 114
Health technologists and technicians .....	474	10	12	57	22	42	50	50	84	101	46	5 880	6 615
Social scientists .....	31	—	6	5	—	—	4	5	6	—	5	—	—
Social and recreation workers .....	254	16	—	4	10	15	14	35	30	104	26	7 087	7 694
Teachers: College and university .....	123	4	3	13	5	5	3	4	14	36	36	7 875	—
Elementary and prekindergarten .....	3 040	154	112	200	221	162	157	142	245	959	688	7 397	8 113
Secondary .....	1 213	66	46	64	70	133	47	24	39	475	249	7 742	8 784
Other teachers .....	270	98	24	29	24	29	16	—	20	25	5	1 448	—
Engineering and science technicians .....	57	—	—	11	10	—	—	5	10	10	11	—	—
Technicians, except health, and engineering and science .....	18	—	—	5	—	—	—	—	—	13	—	—	—
Writers, artists, and entertainers .....	248	66	30	44	23	20	17	10	5	26	7	1 636	—
Actors and dancers .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Authors, editors, and reporters .....	50	5	6	8	—	5	3	—	5	15	3	—	—
Other professional, technical, and kindred workers .....	565	56	28	42	53	32	55	41	25	112	121	5 402	6 875
<b>Managers and administrators, except farm</b> .....	<b>1 593</b>	<b>54</b>	<b>34</b>	<b>120</b>	<b>154</b>	<b>177</b>	<b>190</b>	<b>156</b>	<b>175</b>	<b>293</b>	<b>240</b>	<b>5 433</b>	<b>5 943</b>
Buyers, purchasing agents, and sales managers .....	281	15	—	—	31	55	44	42	47	25	22	4 898	5 518
Restaurant, cafeteria, and bar managers .....	190	12	7	33	23	16	11	18	27	19	24	4 364	5 833
School administrators .....	109	—	—	14	11	—	—	8	7	10	59	10000+	—
Other specified managers and administrators .....	355	4	17	38	27	15	55	38	28	83	50	5 566	5 941
Managers and administrators, n.e.c., salaried .....	531	17	5	18	38	81	59	34	56	151	72	6 241	6 931
Wholesale and retail trade .....	216	5	—	9	31	39	32	17	5	55	23	4 750	5 750
Managers and administrators, n.e.c., self-employed .....	127	6	5	17	24	10	21	16	10	5	13	4 071	—
Wholesale and retail trade .....	80	6	5	7	18	10	10	6	10	—	—	—	—
<b>Sales workers</b> .....	<b>4 932</b>	<b>713</b>	<b>661</b>	<b>897</b>	<b>876</b>	<b>787</b>	<b>382</b>	<b>182</b>	<b>144</b>	<b>149</b>	<b>141</b>	<b>2 223</b>	<b>3 618</b>
Demonstrators, hucksters, and peddlers .....	264	70	40	74	35	14	17	10	—	4	—	1 297	—
Insurance, real estate agents, and brokers .....	220	20	22	13	19	30	8	16	15	19	58	4 750	—
Sales clerks, retail trade .....	3 668	543	485	685	713	619	300	141	84	50	48	2 170	3 615
Salesmen, retail trade .....	189	10	33	32	23	33	11	9	10	22	6	2 848	—
Other sales workers .....	591	70	81	93	86	91	46	6	35	54	29	2 599	3 800
<b>Clerical and kindred workers</b> .....	<b>18 114</b>	<b>1 038</b>	<b>1 288</b>	<b>1 940</b>	<b>1 665</b>	<b>2 026</b>	<b>2 560</b>	<b>2 389</b>	<b>1 866</b>	<b>2 885</b>	<b>457</b>	<b>4 430</b>	<b>5 737</b>
Bank tellers .....	482	5	25	37	47	56	108	111	70	17	6	4 657	5 242
Bookkeepers .....	2 310	46	100	220	185	282	334	408	264	373	98	4 964	5 637
Cashiers .....	1 746	137	219	347	260	224	202	188	77	82	10	2 654	4 602
Counter clerks, except food .....	420	51	16	78	77	87	37	23	19	32	—	2 844	3 922
Enumerators and interviewers .....	36	6	—	6	—	5	7	8	—	—	4	—	—
File clerks .....	386	35	54	68	46	26	46	35	33	43	—	2 783	5 677
Office machine operators .....	751	37	23	50	66	38	133	57	75	260	12	5 500	7 040
Bookkeeping and billing machine operators .....	81	—	5	9	16	—	31	10	—	10	—	—	—
Keypunch operators .....	463	27	12	17	39	32	79	30	41	174	12	5 850	7 427
Payroll and timekeeping clerks .....	196	—	5	14	13	—	24	51	16	63	10	5 824	6 875
Receptionists .....	623	56	27	80	57	123	76	85	59	51	9	3 744	5 347
Secretaries .....	4 247	210	180	317	330	491	705	630	441	798	145	4 845	5 874
Stenographers .....	297	10	13	14	9	9	21	49	56	110	6	6 420	6 717
Telephone operators .....	553	29	21	68	71	74	77	113	72	28	—	4 175	5 418
Typists .....	1 566	85	170	179	140	103	163	181	242	271	32	4 650	6 194
Other clerical and kindred workers .....	4 501	331	435	462	364	508	627	450	442	757	125	4 240	5 919
<b>Craftsmen and kindred workers</b> .....	<b>1 038</b>	<b>39</b>	<b>42</b>	<b>79</b>	<b>92</b>	<b>126</b>	<b>75</b>	<b>93</b>	<b>105</b>	<b>219</b>	<b>168</b>	<b>5 710</b>	<b>6 868</b>
Foremen, n.e.c. .....	179	—	—	—	4	35	27	—	29	25	59	6 810	7 540
<b>Operatives, except transport</b> .....	<b>10 488</b>	<b>314</b>	<b>291</b>	<b>648</b>	<b>667</b>	<b>936</b>	<b>1 190</b>	<b>1 332</b>	<b>1 797</b>	<b>3 177</b>	<b>136</b>	<b>5 899</b>	<b>6 757</b>
Assemblers .....	3 597	44	86	127	211	274	346	541	726	1 216	26	6 233	6 970
Bottling and canning operatives .....	34	5	—	5	6	—	15	—	—	3	—	—	—
Checkers, examiners, and inspectors, manufacturing .....	882	21	—	35	27	64	41	80	187	388	39	6 925	7 604
Dressmakers and seamstresses, except factory .....	218	13	18	63	25	36	36	16	11	—	—	2 600	—
Laundry and drycleaning operatives, including ironers .....	482	58	34	62	60	98	104	20	29	12	5	3 276	4 281
Graders and sorters, manufacturing .....	40	—	—	10	—	4	9	11	—	6	—	—	—
Packers and wrappers, except produce .....	546	51	19	30	40	59	92	54	108	88	5	4 804	6 242
Sewers and stitchers .....	261	5	25	46	18	54	50	11	36	16	—	3 676	4 821
Textile operatives .....	7	—	—	—	7	—	—	—	—	—	—	—	—
Other specified operatives .....	2 245	53	66	176	152	186	257	290	346	664	55	5 802	6 733
Miscellaneous and not specified operatives .....	2 176	64	43	94	121	161	240	309	354	784	6	6 158	7 003
<b>Manufacturing</b> .....	<b>1 983</b>	<b>35</b>	<b>33</b>	<b>76</b>	<b>93</b>	<b>141</b>	<b>199</b>	<b>282</b>	<b>347</b>	<b>771</b>	<b>6</b>	<b>6 382</b>	<b>7 168</b>
Durable goods .....	1 642	35	23	36	66	92	111	216	303	754	6	6 799	7 506
Machinery, including electrical .....	170	4	4	5	—	20	4	22	44	67	—	6 591	—
Other durable goods .....	1 472	31	19	31	66	72	107	194	259	687	6	6 834	7 508
Nondurable goods, including not specified manufacturing .....	341	—	10	40	27	49	88	66	44	17	—	4 506	5 361
Food and kindred products .....	28	—	5	—	—	6	—	12	—	5	—	—	—
Apparel and other fabricated textile products .....	92	—	—	5	14	13	51	9	—	—	—	—	—
<b>Nonmanufacturing industries</b> .....	<b>193</b>	<b>29</b>	<b>10</b>	<b>18</b>	<b>28</b>	<b>20</b>	<b>41</b>	<b>27</b>	<b>7</b>	<b>13</b>	<b>—</b>	<b>3 575</b>	<b>—</b>
Transport equipment operatives .....	621	41	76	154	141	70	41	26	27	32	13	2 280	—
<b>Laborers, except farm</b> .....	<b>592</b>	<b>59</b>	<b>28</b>	<b>38</b>	<b>62</b>	<b>47</b>	<b>74</b>	<b>80</b>	<b>84</b>	<b>108</b>	<b>12</b>	<b>4 838</b>	<b>6 333</b>
Farmers and farm managers .....	40	—	12	5	5	—	—	4	5	4	—	—	—
Farm laborers and farm foremen .....	39	9	14	11	5	—	—	—	—	—	—	—	—
Paid farm laborers and farm foremen .....	34	9	14	11	—	—	—	—	—	—	—	—	—
Unpaid family workers .....	5	—	—	—	5	—	—	—	—	—	—	—	—
<b>Service workers, except private household<sup>1</sup></b> .....	<b>11 919</b>	<b>1 694</b>	<b>1 326</b>	<b>1 800</b>	<b>1 462</b>	<b>1 549</b>	<b>1 189</b>	<b>1 263</b>	<b>820</b>	<b>699</b>	<b>117</b>	<b>2 779</b>	<b>4 671</b>
Cleaning service workers .....	1 538	169	127	222	186	210	202	247	87	68	20	3 310	4 398
Chambermaids and maids .....	186	21	19	27	31	29	23	23	10				

Table 176. Occupation of the Female Experienced Civilian Labor Force by Earnings in 1969 and Race: 1970—Continued

(Data based on sample, see text. For minimum base for derived figures (percent, median, etc.) and meaning of symbols, see text)

**The State  
Standard Metropolitan Statistical Areas  
of 250,000 or More**

**FLINT SMSA—Continued**

**Negro**

	Females with earnings in 1969											Median earnings (dollars)	
	Total, 16 years old and over	\$1 to \$499 or less	\$500 to \$999	\$1,000 to \$1,999	\$2,000 to \$2,999	\$3,000 to \$3,999	\$4,000 to \$4,999	\$5,000 to \$5,999	\$6,000 to \$6,999	\$7,000 to \$9,999	\$10,000 or more	All earners	Earners worked 50 to 52 weeks
<b>Experienced civilian labor force</b>	7 652	658	614	807	804	1 023	978	779	710	1 064	215	3 922	5 074
<b>Professional, technical, and kindred workers</b>	675	15	8	74	40	14	58	57	47	250	112	7 294	8 203
Accountants	—	—	—	—	—	—	—	—	—	—	—	—	—
Computer specialists	4	—	—	—	—	—	—	—	—	—	4	—	—
Librarians	12	—	—	4	—	—	5	3	—	—	—	—	—
Mathematical specialists	—	—	—	—	—	—	—	—	—	—	—	—	—
Life and physical scientists	—	—	—	—	—	—	—	—	—	—	—	—	—
Registered nurses, dietitians, and therapists	134	—	4	12	9	—	30	15	4	42	18	5 800	—
Dietitians	21	—	4	—	9	—	—	4	—	4	—	—	—
Registered nurses	108	—	—	12	—	—	30	11	4	33	18	6 250	—
Health technologists and technicians	48	—	—	10	4	—	—	—	3	26	5	—	—
Social scientists	—	—	—	—	—	—	—	—	—	—	—	—	—
Social and recreation workers	31	6	—	—	—	—	—	7	6	12	—	—	—
Teachers: College and university	4	—	—	—	—	—	—	—	—	—	—	—	—
Elementary and prekindergarten	295	—	—	39	12	6	19	23	20	113	63	7 757	—
Secondary	71	—	—	4	—	8	—	4	6	44	5	—	—
Other teachers	—	—	—	—	—	—	—	—	—	—	—	—	—
Engineering and science technicians	—	—	—	—	—	—	—	—	—	—	—	—	—
Technicians, except health, and engineering and science	5	—	—	5	—	—	—	—	—	—	—	—	—
Writers, artists, and entertainers	—	—	—	—	—	—	—	—	—	—	—	—	—
Actors and dancers	—	—	—	—	—	—	—	—	—	—	—	—	—
Authors, editors, and reporters	—	—	—	—	—	—	—	—	—	—	—	—	—
Other professional, technical, and kindred workers	71	9	4	—	15	—	4	5	4	13	17	—	—
<b>Managers and administrators, except farm</b>	77	—	—	—	18	5	17	4	11	5	17	—	—
Buyers, purchasing agents, and sales managers	30	—	—	—	6	—	7	4	6	—	7	—	—
Restaurant, cafeteria, and bar managers	9	—	—	—	4	—	—	—	—	—	5	—	—
School administrators	11	—	—	—	6	—	—	—	—	5	—	—	—
Other specified managers and administrators	15	—	—	—	—	—	5	—	5	—	5	—	—
Managers and administrators, n.e.c., salaried	7	—	—	—	2	—	5	—	—	—	—	—	—
Wholesale and retail trade	5	—	—	—	—	—	5	—	—	—	—	—	—
Managers and administrators, n.e.c., self-employed	5	—	—	—	—	—	—	—	—	—	—	—	—
Wholesale and retail trade	5	—	—	—	—	—	—	—	—	—	—	—	—
<b>Sales workers</b>	298	38	35	34	80	60	26	6	10	9	—	2 525	—
Demonstrators, hucksters, and peddlers	3	—	3	—	—	—	—	—	—	—	—	—	—
Insurance, real estate agents, and brokers	—	—	—	—	—	—	—	—	—	—	—	—	—
Sales clerks, retail trade	235	34	22	28	54	55	26	6	10	—	—	2 620	—
Salesmen, retail trade	13	—	—	6	7	—	—	—	—	—	—	—	—
Other sales workers	47	4	10	—	19	5	—	—	—	9	—	—	—
<b>Clerical and kindred workers</b>	1 591	129	154	167	169	253	260	179	146	123	11	3 698	5 226
Bank tellers	44	5	—	—	7	6	13	13	—	—	—	—	—
Bookkeepers	52	—	6	7	4	6	6	5	12	—	6	—	—
Cashiers	185	13	19	45	22	42	28	5	6	5	—	2 705	—
Counter clerks, except food	5	—	—	—	5	—	—	—	—	—	—	—	—
Enumerators and interviewers	—	—	—	—	—	—	—	—	—	—	—	—	—
File clerks	22	—	5	9	—	3	5	—	—	—	—	—	—
Office machine operators	56	5	—	—	6	7	15	5	2	16	—	—	—
Bookkeeping and billing machine operators	—	—	—	—	—	—	—	—	—	—	—	—	—
Keypunch operators	41	—	—	—	6	7	11	5	—	12	—	—	—
Payroll and timekeeping clerks	8	—	—	4	—	—	—	—	—	4	—	—	—
Receptionists	45	—	—	—	8	13	11	6	2	5	—	—	—
Secretaries	160	19	17	—	8	30	32	26	14	9	5	4 188	—
Stenographers	29	—	—	—	—	—	—	21	3	5	—	—	—
Telephone operators	109	7	5	10	22	14	20	20	11	—	—	3 750	—
Typists	132	6	10	8	27	19	10	14	33	5	—	3 789	—
Other clerical and kindred workers	744	74	92	84	60	113	120	64	63	74	—	3 549	5 541
<b>Craftsmen and kindred workers</b>	169	4	10	11	8	35	19	13	14	37	18	4 868	—
Foremen, n.e.c.	25	—	—	—	—	5	7	—	—	—	—	—	—
<b>Operatives, except transport</b>	1 957	65	55	101	172	235	283	220	295	484	47	5 307	6 347
Assemblers	685	12	20	20	68	85	85	91	139	157	8	5 577	6 302
Battling and canning operatives	5	5	—	—	—	—	—	—	—	—	—	—	—
Checkers, examiners, and inspectors; manufacturing	186	—	—	—	5	26	19	19	25	70	22	6 960	—
Dressmakers and seamstresses, except factory	26	5	—	6	4	—	5	6	—	—	—	—	—
Laundry and drycleaning operatives, including ironers	203	32	14	15	25	42	40	9	14	12	—	3 369	—
Graders and sorters, manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	—
Packers and wrappers, except produce	51	—	—	—	—	—	15	10	20	6	—	—	—
Sawyers and stitchers	25	—	4	4	—	12	5	—	—	—	—	—	—
Textile operatives	—	—	—	—	—	—	—	—	—	—	—	—	—
Other specified operatives	408	6	14	29	43	44	65	55	37	98	17	5 055	6 238
Miscellaneous and not specified operatives	368	5	3	27	27	26	49	30	60	141	—	6 283	6 984
Manufacturing	354	5	3	22	27	23	43	30	60	141	—	6 400	6 984
Durable goods	322	5	3	17	27	23	35	19	55	138	—	6 582	7 321
Machinery, including electrical	31	—	—	5	—	—	—	—	5	21	—	—	—
Other durable goods	291	5	3	12	27	23	35	19	50	117	—	6 430	6 981
Nondurable goods, including not specified manufacturing	32	—	—	—	—	—	8	11	5	3	—	—	—
Food and kindred products	7	—	—	—	—	—	—	7	—	—	—	—	—
Apparel and other fabricated textile products	—	—	—	—	—	—	—	—	—	—	—	—	—
Nonmanufacturing industries	14	—	—	5	—	3	6	—	—	—	—	—	—
Transport equipment operatives	39	5	—	—	—	6	7	12	9	—	—	—	—
Laborers, except farm	141	4	11	—	11	12	6	40	17	40	—	5 663	—
Farmers and farm managers	4	—	—	—	—	—	—	4	—	—	—	—	—
Farm laborers and farm foremen	5	—	5	—	—	—	—	—	—	—	—	—	—
Paid farm laborers and farm foremen	5	—	5	—	—	—	—	—	—	—	—	—	—
Unpaid family workers	—	—	—	—	—	—	—	—	—	—	—	—	—
<b>Service workers, except private household<sup>1</sup></b>	2 272	290	253	279	240	396	287	244	161	116	6	3 187	4 228
Cleaning service workers	445	52	43	79	68	65	39	64	15	20	—	2 713	3 711
Chambermaids and maids	108	10	15	27	21	15	8	5	4	3	—	2 095	—
Food service workers	514	81	72	79	82	80	58	14	26	22	—	2 305	3 857
Cooks, except private household	175	16	15	22	25	40	20	10	5	22	—	3 238	—
Waiters and food counter workers	185	47	43	24	48	9	7	—	7	—	—	1 104	—
Health service workers	909	43	78	90	73	200	146	127	89	57	6	3 853	4 840
Nursing aides, orderlies, and attendants	674	40	61	75	66	138	111	88	66	29	—	3 688	4 786
Practical nurses	113	3	—	7	—	17	10	24	23	23	6	5 813	—
Personal service workers	134	36	12	17	—	9	22	18	7	13	—	3 222	—
Hairdressers and cosmetologists	42	14	6	7	—	—	—	10	—	5	—	—	—
<b>Private household workers</b>	424	108	83	141	66	7	15	—	—	—	4	1 149	1 331
Private household workers, living in	4	—	—	4	—	—	—	—	—	—	—	—	—
Private household workers, living out	420	108	83	137	66	7	15	—	—	—	4	1 139	1 320

<sup>1</sup>Includes protective service workers and allocated cases not shown separately.



Table 176. Occupation of the Female Experienced Civilian Labor Force by Earnings in 1969 and Race: 1970—Continued

(Data based on sample, see text. For minimum base for derived figures (percent, median, etc.) and meaning of symbols, see text)

The State  
Standard Metropolitan Statistical Areas  
of 250,000 or More

GRAND RAPIDS SMSA

	Females with earnings in 1969											Median earnings (dollars)	
	Total, 16 years old and over	\$1 to \$499 or less	\$500 to \$999	\$1,000 to \$1,999	\$2,000 to \$2,999	\$3,000 to \$3,999	\$4,000 to \$4,999	\$5,000 to \$5,999	\$6,000 to \$6,999	\$7,000 to \$9,999	\$10,000 or more	All earners	Earners worked 50 to 52 weeks
<b>Total</b>	77 584	7 078	7 243	11 180	8 874	9 681	10 161	8 130	5 760	7 344	2 133	3 456	4 825
<b>Experienced civilian labor force</b>	77 584	7 078	7 243	11 180	8 874	9 681	10 161	8 130	5 760	7 344	2 133	3 456	4 825
<b>Professional, technical, and kindred workers</b>	10 844	610	685	958	973	934	761	854	1 023	2 908	1 138	5 587	6 749
Accountants	396	29	11	31	20	22	56	68	57	80	22	5 426	6 309
Computer specialists	37	—	—	9	6	—	8	—	4	10	—	—	—
Librarians	252	32	27	25	20	29	15	4	3	54	43	3 759	4 278
Mathematical specialists	21	—	—	5	—	4	—	5	—	7	—	—	—
Life and physical scientists	50	—	—	2	—	4	5	4	—	22	13	—	—
Registered nurses, dietitians, and therapists	2 259	105	132	187	297	256	227	261	188	546	60	4 672	6 315
Dietitians	67	6	15	13	4	—	5	11	—	13	—	—	—
Registered nurses	2 073	99	111	150	289	228	217	231	188	504	56	4 735	6 391
Health technologists and technicians	407	11	8	34	19	79	59	61	67	64	5	4 890	5 649
Social scientists	21	—	3	13	—	—	—	—	—	—	—	—	—
Social and recreation workers	360	16	8	—	34	23	24	18	25	158	54	7 608	8 436
Teachers: College and university	288	—	23	49	15	25	22	9	8	64	73	6 125	7 630
Elementary and prekindergarten	3 533	143	130	267	309	206	145	184	410	1 228	511	6 933	7 727
Secondary	1 234	29	82	105	136	85	55	81	82	375	204	6 537	7 727
Other teachers	400	74	93	64	20	42	10	5	26	58	8	1 516	6 048
Engineering and science technicians	199	24	19	24	—	23	15	24	37	30	3	4 633	—
Technicians, except health, and engineering and science	16	6	—	—	—	—	—	—	—	4	6	—	—
Writers, artists, and entertainers	483	84	96	79	40	35	30	21	34	54	10	1 778	5 900
Actors and dancers	5	—	—	—	—	—	—	—	—	5	—	—	—
Authors, editors, and reporters	108	14	—	26	14	22	5	—	—	27	—	3 000	—
Other professional, technical, and kindred workers	888	57	53	64	57	101	90	109	82	154	121	5 202	6 042
<b>Managers and administrators, except farm</b>	1 952	39	48	178	217	186	221	211	214	329	309	5 412	6 301
Buyers, purchasing agents, and sales managers	395	5	4	40	46	38	66	48	76	51	21	4 977	5 820
Restaurant, cafeteria, and bar managers	160	—	9	30	44	30	18	4	15	6	4	2 932	—
School administrators	129	6	—	16	20	6	—	10	—	11	60	8 773	—
Other specified managers and administrators	347	9	—	14	37	22	31	29	34	111	60	6 926	7 617
Managers and administrators, n.e.c., salaried	713	4	14	48	37	63	91	98	89	133	136	6 017	6 762
Wholesale and retail trade	177	—	4	20	11	23	53	15	9	26	16	4 575	5 033
Managers and administrators, n.e.c., self-employed	208	15	21	30	33	27	15	22	—	17	28	3 185	3 648
Wholesale and retail trade	113	15	15	16	9	10	15	12	—	11	10	3 150	—
Sales workers	6 488	974	902	1 609	1 036	866	476	201	166	139	119	1 850	3 274
Demonstrators, hucksters, and peddlers	358	105	103	55	24	19	32	5	10	5	—	859	1 750
Insurance, real estate agents, and brokers	331	18	14	29	63	14	44	31	39	48	31	4 625	6 300
Sales clerks, retail trade	4 841	688	668	1 358	822	751	304	121	67	43	19	1 784	3 021
Salesmen, retail trade	149	9	25	31	10	8	34	5	12	8	7	2 950	—
Other sales workers	809	154	92	136	117	74	62	39	38	35	62	2 192	4 413
<b>Clerical and kindred workers</b>	25 062	1 565	1 924	3 390	2 884	3 300	4 356	3 643	2 023	1 786	191	3 839	4 878
Bank tellers	614	5	43	94	118	78	125	98	36	11	6	3 603	4 343
Bookkeepers	2 818	93	137	318	317	341	474	516	300	279	43	4 428	5 125
Cashiers	2 096	268	344	459	322	343	185	100	36	34	5	1 950	3 454
Counter clerks, except food	456	58	69	121	36	63	50	27	17	15	—	1 835	3 865
Enumerators and interviewers	102	26	12	116	107	78	111	98	34	29	5	2 100	—
File clerks	633	65	90	108	115	94	181	221	96	46	5	4 395	5 162
Office machine operators	955	65	24	108	115	94	181	221	96	46	5	3 429	—
Bookkeeping and billing machine operators	148	22	—	35	30	14	26	13	16	6	5	4 671	5 225
Keypunch operators	575	17	13	55	72	44	129	150	59	36	—	4 839	5 522
Payroll and timekeeping clerks	325	—	5	34	6	45	84	46	56	38	9	3 471	4 393
Receptionists	895	52	101	123	90	173	166	126	28	36	—	4 483	5 272
Secretaries	7 220	241	412	651	727	900	1 406	1 354	747	741	41	4 532	5 450
Stenographers	245	—	7	34	16	49	31	45	32	25	6	3 972	4 905
Telephone operators	997	66	41	159	112	124	178	172	69	60	16	3 585	4 640
Typists	2 172	209	180	296	234	282	452	252	192	67	6	3 510	4 771
Other clerical and kindred workers	5 534	406	459	865	670	719	926	631	385	424	49	6 700	6 960
<b>Craftsman and kindred workers</b>	1 645	82	48	155	145	208	290	191	178	246	102	4 346	5 319
Foremen, n.e.c.	243	—	4	—	10	20	43	27	25	96	18	4 488	5 664
<b>Operatives, except transport</b>	14 538	646	841	1 295	1 318	2 250	2 655	2 166	1 682	1 555	130	3 786	5 096
Assemblers	3 027	86	121	273	248	506	573	464	423	309	24	4 338	5 281
Bottling and canning operatives	39	—	5	6	—	14	10	4	—	—	—	—	—
Checkers, examiners, and inspectors, manufacturing	1 340	38	51	77	109	157	292	220	209	177	10	4 815	5 630
Dressmakers and seamstresses, except factory	228	17	21	32	42	28	34	42	—	—	12	3 071	—
Laundry and drycleaning operatives, including ironers	671	79	107	101	58	192	75	34	20	5	—	2 836	3 461
Graders and sorters, manufacturing	44	—	11	8	4	—	13	4	—	—	—	—	—
Packers and wrappers, except produce	1 420	110	140	174	154	168	255	254	134	31	—	3 786	5 096
Sewers and stitchers	1 397	25	38	92	94	223	174	176	271	296	8	5 298	6 011
Textile operatives	149	9	—	—	15	18	31	53	25	—	—	5 066	—
Other specified operatives	3 811	193	196	308	343	606	767	458	355	530	55	4 338	5 281
Miscellaneous and not specified operatives	2 412	89	151	224	251	340	440	448	241	207	21	4 343	5 309
Manufacturing	2 113	61	121	197	174	304	400	414	219	202	21	4 499	5 390
Durable goods	1 191	33	51	78	127	149	189	222	149	172	21	4 833	5 716
Machinery, including electrical	306	9	28	16	60	46	33	36	36	38	4	3 870	5 760
Other durable goods	885	24	23	62	67	103	156	186	113	134	17	5 040	5 709
Nondurable goods, including not specified manufacturing	922	28	70	119	47	155	211	192	70	30	—	4 199	5 020
Food and kindred products	184	4	5	16	10	43	42	40	24	—	—	4 333	4 971
Apparel and other fabricated textile products	66	11	4	6	5	8	17	—	15	—	—	—	—
Nonmanufacturing industries	299	28	30	27	77	36	40	34	22	5	—	2 838	4 529
Transport equipment operatives	590	62	97	142	104	65	32	19	30	33	6	1 958	4 526
Laborers, except farm	1 146	130	101	144	142	159	189	96	112	64	9	3 352	4 696
Farmers and farm managers	55	10	16	17	7	—	—	—	—	—	—	—	—
Farm laborers and farm foremen	248	114	56	23	26	8	5	12	—	—	4	589	—
Paid farm laborers and farm foremen	244	110	56	23	26	8	5	12	—	—	4	607	—
Unpaid family workers	4	4	—	—	—	—	—	—	—	—	—	—	—
<b>Service workers, except private household<sup>1</sup></b>	13 457	2 182	2 213	2 934	1 857	1 663	1 149	732	323	284	120	1 795	3 460
Cleaning service workers	1 705	297	213	435	257	261	122	38	22	10	32	1 746	2 750
Chambermaids and maids	386	41	45	111	64	70	34	5	5	—	11	1 964	3 449
Food service workers	5 748	1 133	1 260	1 395	823	548	310	149	72	38	20	1 345	2 963
Cooks, except private household	1 109	164	132	288	246	144	74	25	20				

Table 176. Occupation of the Female Experienced Civilian Labor Force by Earnings in 1969 and Race: 1970—Continued

(Data based on sample, see text. For minimum base for derived figures (percent, median, etc.) and meaning of symbols, see text)

The State  
Standard Metropolitan Statistical Areas  
of 250,000 or More

LANSING SMSA

Total

	Females with earnings in 1969											Median earnings (dollars)	
	Total, 16 years old and over	\$1 to \$499 or less	\$500 to \$999	\$1,000 to \$1,999	\$2,000 to \$2,999	\$3,000 to \$3,999	\$4,000 to \$4,999	\$5,000 to \$5,999	\$6,000 to \$6,999	\$7,000 to \$9,999	\$10,000 or more	All earners	Earners worked 50 to 52 weeks
<b>Experienced civilian labor force</b> .....	<b>57 482</b>	<b>5 063</b>	<b>5 228</b>	<b>8 280</b>	<b>5 827</b>	<b>6 230</b>	<b>6 219</b>	<b>5 883</b>	<b>4 460</b>	<b>7 673</b>	<b>2 619</b>	<b>3 697</b>	<b>5 452</b>
<b>Professional, technical, and kindred workers</b> .....	<b>9 965</b>	<b>480</b>	<b>712</b>	<b>882</b>	<b>973</b>	<b>791</b>	<b>562</b>	<b>679</b>	<b>781</b>	<b>2 556</b>	<b>1 549</b>	<b>5 858</b>	<b>7 430</b>
Accountants .....	408	6	16	21	25	17	41	50	70	131	57	6 371	7 080
Computer specialists .....	398	46	41	40	27	20	27	24	26	48	10	6 577	8 125
Librarians .....	19	—	—	—	—	—	—	—	—	—	—	4 926	8 125
Mathematical specialists .....	127	—	20	5	6	11	—	—	—	25	22	5 500	—
Life and physical scientists .....	121	—	—	—	11	—	—	—	—	—	—	5 473	7 000
Registered nurses, dietitians, and therapists .....	1 493	33	54	102	152	202	141	132	167	396	114	5 529	7 115
Dietitians .....	32	—	4	—	—	10	4	—	—	9	5	5 625	6 884
Registered nurses .....	1 366	29	46	98	133	187	127	119	153	377	97	5 529	7 115
Health technologists and technicians .....	405	5	41	19	28	48	49	20	75	111	9	5 625	6 884
Social scientists .....	35	—	—	—	13	8	—	—	—	—	—	—	—
Social and recreation workers .....	324	25	18	19	8	8	12	43	25	107	59	7 112	7 690
Teachers: College and university .....	949	40	119	130	175	101	48	31	45	86	174	3 104	6 455
Elementary and kindergarten .....	2 414	80	95	195	177	161	79	115	162	834	516	7 514	8 489
Secondary .....	1 053	23	47	50	128	29	50	57	96	348	225	7 401	8 460
Other teachers .....	197	52	25	30	30	17	7	15	—	9	12	7 171	—
Engineering and science technicians .....	201	25	36	34	15	9	3	20	11	43	5	2 367	—
Technicians, except health, and engineering and science .....	42	—	—	11	—	—	—	—	—	—	—	1 878	—
Writers, artists, and entertainers .....	474	78	73	98	38	22	27	32	17	46	43	1 878	6 289
Actors and dancers .....	5	—	—	—	—	—	—	—	—	—	—	—	—
Authors, editors, and reporters .....	181	20	32	40	11	5	11	14	4	24	20	1 963	—
Other professional, technical, and kindred workers .....	1 278	62	122	103	140	124	58	98	48	286	237	5 306	7 697
<b>Managers and administrators, except farm</b> .....	<b>1 617</b>	<b>92</b>	<b>78</b>	<b>137</b>	<b>84</b>	<b>104</b>	<b>148</b>	<b>173</b>	<b>170</b>	<b>365</b>	<b>266</b>	<b>5 957</b>	<b>6 864</b>
Buyers, purchasing agents, and sales managers .....	185	5	5	22	13	30	26	21	17	39	7	4 673	5 682
Restaurant, cafeteria, and bar managers .....	150	3	4	12	6	13	12	32	26	8	34	5 781	6 038
School administrators .....	116	14	18	5	—	—	7	5	—	31	36	7 871	—
Other specified managers and administrators .....	459	32	25	30	5	28	27	57	59	133	63	6 432	7 064
Managers and administrators, n.e.c., salaried .....	594	22	26	35	55	24	69	54	68	139	102	6 176	7 246
Wholesale and retail trade .....	183	5	11	13	27	9	16	5	22	35	40	6 250	6 659
Managers and administrators, n.e.c., self-employed .....	113	16	—	33	5	9	7	4	—	15	24	3 278	—
Wholesale and retail trade .....	75	16	—	16	5	5	—	4	—	15	14	—	—
<b>Sales workers</b> .....	<b>4 504</b>	<b>731</b>	<b>676</b>	<b>989</b>	<b>615</b>	<b>578</b>	<b>411</b>	<b>262</b>	<b>76</b>	<b>101</b>	<b>65</b>	<b>1 854</b>	<b>3 708</b>
Demonstrators, hucksters, and peddlers .....	247	61	45	77	23	13	9	11	5	—	3	1 227	—
Insurance, real estate agents, and brokers .....	264	30	11	35	31	9	49	49	—	34	16	4 327	5 500
Sales clerks, retail trade .....	3 243	530	524	757	446	493	280	126	36	38	13	1 750	3 610
Salesmen, retail trade .....	114	10	6	5	10	16	20	22	—	11	14	4 500	—
Other sales workers .....	636	100	90	115	105	47	53	54	35	18	19	2 124	4 183
<b>Clerical and kindred workers</b> .....	<b>23 469</b>	<b>1 444</b>	<b>1 633</b>	<b>3 106</b>	<b>2 110</b>	<b>2 426</b>	<b>3 249</b>	<b>3 438</b>	<b>2 581</b>	<b>2 979</b>	<b>503</b>	<b>4 313</b>	<b>5 634</b>
Bank tellers .....	425	12	20	96	24	69	113	76	4	11	—	3 877	4 747
Bookkeepers .....	2 383	84	101	238	178	317	294	475	281	374	41	4 930	5 657
Cashiers .....	1 563	195	197	446	169	195	158	85	99	15	4	1 873	4 097
Counter clerks, except food .....	333	18	4	60	54	32	55	19	21	25	—	2 731	4 645
Enumerators and interviewers .....	37	18	4	5	—	—	—	—	—	5	—	—	—
File clerks .....	899	75	100	149	93	100	120	101	90	58	13	3 325	4 864
Office machine operators .....	1 069	63	28	106	111	70	157	121	213	195	5	4 997	6 305
Bookkeeping and billing machine operators .....	131	4	9	12	5	11	18	31	26	15	—	5 210	—
Keypunch operators .....	665	27	4	67	84	51	107	71	119	135	—	4 930	6 305
Payroll and timekeeping clerks .....	225	5	4	9	9	9	36	25	77	36	15	6 201	6 331
Receptionists .....	856	104	136	149	90	90	169	62	27	19	10	2 433	4 512
Secretaries .....	6 617	212	301	610	566	643	956	1 161	831	1 147	190	5 018	5 936
Stenographers .....	433	8	20	14	30	27	70	74	94	86	10	5 642	6 151
Telephone operators .....	629	41	21	66	90	55	78	147	68	58	5	4 532	5 382
Typists .....	2 559	153	200	274	195	241	371	492	313	295	25	4 584	5 635
Other clerical and kindred workers .....	5 441	456	452	884	501	578	672	600	458	655	185	3 740	5 517
<b>Craftsman and kindred workers</b> .....	<b>853</b>	<b>75</b>	<b>22</b>	<b>105</b>	<b>104</b>	<b>101</b>	<b>103</b>	<b>82</b>	<b>65</b>	<b>137</b>	<b>59</b>	<b>4 189</b>	<b>5 907</b>
Foremen, n.e.c. ....	151	—	—	22	5	9	17	5	32	40	21	6 547	7 300
<b>Operatives, except transport</b> .....	<b>4 687</b>	<b>187</b>	<b>233</b>	<b>451</b>	<b>372</b>	<b>625</b>	<b>625</b>	<b>551</b>	<b>458</b>	<b>1 094</b>	<b>91</b>	<b>4 761</b>	<b>5 668</b>
Assemblers .....	1 014	18	39	54	92	75	114	100	102	415	5	6 147	7 402
Bottling and canning operatives .....	10	—	—	—	—	5	—	—	—	5	—	—	—
Checkers, examiners, and inspectors; manufacturing .....	654	10	—	31	44	68	121	95	78	176	31	5 558	6 261
Dressmakers and seamstresses, except factory .....	152	—	—	53	33	28	20	6	4	8	—	2 697	—
Laundry and drycleaning operatives, including ironers .....	423	17	48	47	38	168	71	24	4	6	—	3 366	3 688
Graders and sorters, manufacturing .....	24	—	5	—	6	8	—	—	5	—	—	—	—
Packers and wrappers, except produce .....	319	16	51	27	29	37	68	43	19	29	—	3 986	4 830
Sewers and stitchers .....	107	9	6	21	—	19	24	4	16	8	—	3 921	—
Textile operatives .....	11	—	—	11	—	—	—	—	—	—	—	—	—
Other textile operatives .....	1 183	78	27	126	86	125	140	155	131	288	27	5 061	6 026
Miscellaneous and not specified operatives .....	790	39	57	81	44	92	67	124	99	159	28	5 121	5 909
<b>Manufacturing</b> .....	<b>593</b>	<b>17</b>	<b>10</b>	<b>60</b>	<b>32</b>	<b>61</b>	<b>52</b>	<b>96</b>	<b>87</b>	<b>150</b>	<b>28</b>	<b>5 672</b>	<b>6 273</b>
Durable goods .....	437	4	5	28	5	48	36	74	82	140	15	6 226	6 718
Machinery, including electrical .....	80	—	—	11	—	14	18	10	7	20	—	—	—
Other durable goods .....	357	4	5	17	5	34	18	64	75	120	15	6 420	7 020
Nondurable goods, including not specified manufacturing .....	156	13	5	32	27	13	16	22	5	10	13	3 077	—
Food and kindred products .....	18	—	—	7	—	—	—	—	5	6	—	—	—
Apparel and other fabricated textile products .....	5	—	—	—	—	—	—	—	—	—	—	—	—
Nonmanufacturing industries .....	197	22	47	21	12	31	15	28	12	9	—	2 708	—
<b>Transport equipment operatives</b> .....	<b>473</b>	<b>46</b>	<b>27</b>	<b>76</b>	<b>126</b>	<b>74</b>	<b>47</b>	<b>5</b>	<b>23</b>	<b>38</b>	<b>11</b>	<b>2 694</b>	<b>—</b>
<b>Laborers, except farm</b> .....	<b>328</b>	<b>44</b>	<b>28</b>	<b>78</b>	<b>21</b>	<b>30</b>	<b>44</b>	<b>12</b>	<b>14</b>	<b>57</b>	<b>—</b>	<b>2 667</b>	<b>5 250</b>
<b>Farmers and farm managers</b> .....	<b>73</b>	<b>7</b>	<b>18</b>	<b>9</b>	<b>10</b>	<b>16</b>	<b>—</b>	<b>—</b>	<b>5</b>	<b>4</b>	<b>4</b>	<b>—</b>	<b>—</b>
<b>Farm laborers and farm foremen</b> .....	<b>84</b>	<b>20</b>	<b>9</b>	<b>21</b>	<b>13</b>	<b>6</b>	<b>4</b>	<b>5</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>6</b>	<b>—</b>
Paid farm laborers and farm foremen .....	77	13	9	21	13	6	4	5	—	—	—	6	—
Unpaid family workers .....	7	—	—	—	—	—	—	—	—	—	—	—	—
<b>Service workers, except private household</b> .....	<b>10 244</b>	<b>1 386</b>	<b>1 557</b>	<b>2 130</b>	<b>1 356</b>	<b>1 447</b>	<b>1 012</b>	<b>662</b>	<b>287</b>	<b>342</b>	<b>65</b>	<b>2 036</b>	<b>3 995</b>
Cleaning service workers .....	1 037	101	138	207	109	217	107	67	26	59	6	2 665	3 682
Chambermaids and maids .....	235	27	40	53	30	48	16	15	—	7	—	1 953	—
Food service workers .....	4 989												

Table 176. Occupation of the Female Experienced Civilian Labor Force by Earnings in 1969 and Race: 1970 - Continued

[Data based on sample, see text. For minimum base for derived figures (percent, median, etc.) and meaning of symbols, see text]

The State  
Standard Metropolitan Statistical Areas  
of 250,000 or More

TOLEDO, OHIO-MICH., SMSA

Total

	Females with earnings in 1969											Median earnings (dollars)	
	Total, 16 years old and over	\$1 to \$499 or loss	\$500 to \$999	\$1,000 to \$1,999	\$2,000 to \$2,999	\$3,000 to \$3,999	\$4,000 to \$4,999	\$5,000 to \$5,999	\$6,000 to \$6,999	\$7,000 to \$9,999	\$10,000 or more	All earners	Earners worked 50 to 52 weeks
<b>Experienced civilian labor force</b>	95 136	7 905	7 859	13 258	11 086	13 325	12 051	9 743	7 386	9 557	2 946	3 560	4 790
<b>Professional, technical, and kindred workers</b>	14 606	655	813	1 417	1 250	1 339	986	1 301	1 517	3 972	1 356	5 648	6 584
Accountants	445	15	20	14	23	65	25	73	50	105	55	5 829	6 522
Computer specialists	74	-	-	-	4	8	7	4	16	30	5	...	...
Librarians	349	26	39	62	10	10	32	37	47	53	33	4 859	5 919
Mathematical specialists	9	-	4	-	-	5	-	-	-	-	-	...	...
Life and physical scientists	32	-	-	-	5	-	5	-	-	9	13	...	...
Registered nurses, dietitians, and therapists	3 268	94	120	297	294	398	280	392	360	929	104	5 385	6 717
Dietitians	156	10	5	22	12	32	23	25	4	23	-	3 906	...
Registered nurses	2 907	84	115	246	259	329	227	352	330	877	88	5 550	6 876
Health technologists and technicians	673	15	18	49	62	87	99	87	92	136	28	5 075	6 049
Social scientists	37	-	-	6	-	3	5	-	9	4	10	...	...
Social and recreation workers	452	15	32	39	41	30	60	24	58	110	43	5 375	7 000
Teachers: College and university	485	15	39	60	62	55	18	46	11	102	77	4 639	...
Elementary and prekindergarten	4 239	173	206	320	369	320	182	270	491	1 446	462	6 569	6 780
Secondary	1 625	18	34	234	168	92	65	83	176	542	213	6 673	7 641
Other teachers	434	71	79	58	36	40	14	27	19	64	26	2 250	7 966
Engineering and science technicians	167	15	14	12	9	6	21	20	36	29	5	5 325	6 306
Technicians, except health, and engineering and science	55	-	-	-	-	-	14	12	5	24	-	...	...
Writers, artists, and entertainers	745	78	92	120	71	109	54	83	24	76	38	3 106	5 149
Actors and dancers	24	-	6	-	9	9	-	-	-	-	-	...	...
Authors, editors, and reporters	114	11	15	9	16	16	10	14	5	13	5	3 375	...
Other professional, technical, and kindred workers	1 517	120	116	146	96	111	105	143	123	313	244	5 451	6 524
<b>Managers and administrators, except farm</b>	3 182	86	88	243	241	284	376	440	398	518	508	5 620	6 073
Buyers, purchasing agents, and sales managers	601	5	11	8	33	31	123	64	106	135	85	6 241	6 387
Restaurant, cafeteria, and bar managers	449	40	19	54	80	53	37	54	40	35	37	3 594	5 122
School administrators	214	-	5	65	10	9	5	11	5	19	85	6 400	...
Other specified managers and administrators	590	14	30	38	32	49	57	93	52	127	98	5 806	6 311
Managers and administrators, n.e.c., salaried	1 094	4	15	57	71	113	145	172	195	181	141	5 825	6 150
Wholesale and retail trade	383	-	9	10	20	62	59	71	77	38	37	5 444	5 693
Managers and administrators, n.e.c., self-employed	234	23	8	21	15	29	9	46	-	21	62	5 261	5 652
Wholesale and retail trade	123	6	8	15	11	10	-	36	-	21	16	5 319	...
<b>Sales workers</b>	7 819	1 023	975	1 648	1 088	1 322	851	325	185	190	212	2 242	3 609
Demonstrators, hucksters, and peddlers	456	138	102	114	55	23	15	-	5	-	4	941	1 458
Insurance, real estate agents, and brokers	460	20	8	42	33	55	82	10	48	72	90	4 878	5 450
Sales clerks, retail trade	5 691	728	731	1 231	850	1 095	614	258	84	61	39	2 183	3 538
Salesmen, retail trade	181	9	9	41	28	39	18	6	6	19	6	3 090	...
Other sales workers	1 031	128	125	220	122	110	122	51	42	38	73	2 348	4 016
<b>Clerical and kindred workers</b>	32 817	1 985	2 186	4 061	3 292	4 477	5 642	4 907	3 090	2 800	377	4 072	5 005
Bank tellers	739	16	10	117	94	153	188	119	16	21	5	3 866	4 492
Bookkeepers	3 830	149	113	348	292	489	758	754	427	435	65	4 691	5 280
Cashiers	2 855	290	346	602	445	497	267	206	118	62	22	2 426	3 842
Counter clerks, except food	561	60	43	88	61	99	74	53	42	36	5	3 288	4 179
Enumerators and interviewers	103	37	13	27	-	9	-	-	-	-	-	1 056	...
File clerks	813	86	114	122	75	114	122	82	58	40	-	3 083	4 771
Office machine operators	1 332	46	63	154	116	203	270	230	142	93	15	4 311	5 074
Bookkeeping and billing machine operators	247	6	7	41	20	43	48	28	32	22	-	4 135	4 872
Keypunch operators	698	26	29	57	49	114	136	141	100	42	4	4 544	5 240
Payroll and timekeeping clerks	446	8	17	48	34	27	50	99	56	107	-	5 394	6 000
Receptionists	1 042	99	105	195	119	137	170	138	53	18	8	3 022	4 382
Secretaries	9 006	368	388	807	756	1 031	1 666	1 652	1 127	1 091	120	4 692	5 393
Stenographers	335	19	6	18	25	25	50	64	66	57	5	5 383	6 023
Telephone operators	1 324	54	85	193	171	159	235	223	151	42	11	4 000	4 976
Typists	3 141	255	228	461	318	454	614	449	199	147	16	3 680	4 673
Other clerical and kindred workers	7 290	498	655	881	786	1 080	1 178	832	630	645	105	3 764	4 811
<b>Craftsmen and kindred workers</b>	1 579	76	120	145	151	197	185	130	130	217	228	4 543	6 319
Foremen, n.e.c.	291	4	12	5	16	31	29	38	36	96	24	6 292	6 944
<b>Operatives, except transport</b>	11 241	494	501	1 009	1 161	2 190	1 750	1 289	1 351	1 392	104	4 152	5 183
Assemblers	2 038	97	72	140	191	482	224	172	275	365	20	4 165	6 022
Bottling and canning operatives	55	5	-	12	-	20	9	5	4	-	-	...	...
Checkers, examiners, and inspectors; manufacturing	1 339	12	43	39	97	208	237	177	262	238	26	5 189	6 327
Dressmakers and seamstresses, except factory	221	10	28	55	24	52	40	12	-	-	-	2 729	...
Laundry and drycleaning operatives, including ironers	895	118	98	86	210	229	78	45	10	21	-	2 693	3 387
Graders and sorters, manufacturing	59	13	5	24	-	12	-	-	-	-	-	...	...
Packers and wrappers, except produce	1 335	35	27	181	108	232	264	166	194	128	-	4 320	5 349
Sewers and stitchers	652	13	20	61	104	169	88	84	60	53	-	3 757	4 095
Textile operatives	21	-	-	-	10	-	-	5	-	6	-	...	...
Other specified operatives	2 377	122	94	238	203	392	349	337	292	301	49	4 400	5 447
Miscellaneous and not specified operatives	2 249	69	114	173	214	394	461	281	254	280	9	4 348	5 152
<b>Manufacturing</b>	1 996	58	76	140	181	362	402	268	239	261	9	4 450	5 262
Durable goods	1 017	31	25	35	78	162	187	134	139	217	9	4 949	5 802
Machinery, including electrical	371	-	9	6	15	71	63	53	59	95	-	5 406	6 391
Other durable goods	646	31	16	29	63	91	124	81	80	122	9	4 750	5 550
Nondurable goods, including not specified manufacturing	979	27	51	105	103	200	215	134	100	44	-	4 016	4 767
Food and kindred products	177	7	6	31	10	42	11	46	10	14	-	3 821	...
Apparel and other fabricated textile products	53	8	6	-	-	21	-	11	-	-	-	...	...
Nonmanufacturing industries	253	11	38	33	33	32	59	13	15	19	-	3 359	4 557
<b>Transport equipment operatives</b>	918	69	74	210	180	137	77	43	22	76	30	2 589	5 696
<b>Laborers, except farm</b>	991	87	51	166	185	197	121	66	38	70	10	3 033	4 073
<b>Farmers and farm managers</b>	79	12	13	14	14	10	-	4	-	7	5	...	...
<b>Farm laborers and farm foremen</b>	326	68	93	97	28	16	19	-	5	-	-	1 021	...
Paid farm laborers and farm foremen	326	68	93	97	28	16	19	-	5	-	-	1 021	...
Unpaid family workers	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Service workers, except private household<sup>1</sup></b>	19 240	2 635	2 497	3 570	3 160	3 060	2 005	1 230	650	309	124	2 291	3 654
Cleaning service workers	2 468	250	255	390	542	499	268	152	78	20	14	2 625	3 352
Chambermaids and maids	733	109	77	140	181	109	68	29	10	5	5	2 224	3 128
Food service workers	8 635	1 414	1 375	1 993	1 500	1 250	620	291	96	67	29	1 767	3 210
Cooks, except private household	1 958	156	133	381	399	456	234	142	41	16	-	2 774	3 645
Waiters and food counter workers	4 877	917	868	1 212	876	564	255	89	31	46	19	1 539	2 809
Health service workers	4 095	414	362	519	537	706	695	491	276	95	-	3 305	4 381
Nursing aides, orderlies, and attendants	1 991	291	178	343	267	398							

Table 176. Occupation of the Female Experienced Civilian Labor Force by Earnings in 1969 and Race: 1970—Continued

(Data based on sample, see text. For minimum base for derived figures (percent, median, etc.) and meaning of symbols, see text)

The State Standard Metropolitan Statistical Areas of 250,000 or More	Females with earnings in 1969											Median earnings (dollars)	
	Total, 16 years old and over	\$1 to \$499 or less	\$500 to \$999	\$1,000 to \$1,999	\$2,000 to \$2,999	\$3,000 to \$3,999	\$4,000 to \$4,999	\$5,000 to \$5,999	\$6,000 to \$6,999	\$7,000 to \$9,999	\$10,000 or more	All earners	Earnings worked 50 to 52 weeks
	<b>TOLEDO, OHIO-MICH., SMSA—Continued</b>												
<b>Negro</b>													
<b>Experienced civilian labor force</b>	8 890	1 084	797	1 324	1 362	1 534	977	549	517	564	182	2 910	3 849
<b>Professional, technical, and kindred workers</b>	1 067	48	59	61	88	139	107	111	66	277	111	5 284	5 608
Accountants	12	—	—	4	—	—	—	8	—	—	—	—	—
Computer specialists	—	—	—	—	—	—	—	—	—	—	—	—	—
Librarians	6	—	—	—	—	—	—	—	6	—	—	—	—
Mathematical specialists	—	—	—	—	—	—	—	—	—	—	—	—	—
Life and physical scientists	—	—	—	—	—	—	—	—	—	—	—	—	—
Registered nurses, dietitians, and therapists	153	13	10	15	6	31	28	26	10	14	—	4 054	—
Dietitians	31	5	5	5	6	10	—	—	—	—	—	—	—
Registered nurses	112	8	5	10	—	21	24	26	4	14	—	4 500	—
Health technologists and technicians	56	—	—	11	—	5	15	22	—	—	3	—	—
Social scientists	10	—	—	6	—	—	—	—	—	4	—	—	—
Social and recreation workers	118	6	19	11	9	11	12	11	4	21	14	4 250	—
Teachers: College and university	13	—	—	—	7	—	—	6	—	—	—	—	—
Elementary and prekindergarten	369	7	18	5	38	54	11	19	24	150	43	7 170	—
Secondary	62	—	—	—	11	13	—	—	6	22	10	—	—
Other teachers	21	5	—	4	5	—	—	—	—	—	7	—	—
Engineering and science technicians	11	—	—	—	—	—	—	5	6	—	—	—	—
Technicians, except health, and engineering and science	—	—	—	—	—	—	—	—	—	—	—	—	—
Writers, artists, and entertainers	23	12	—	—	—	—	—	—	4	7	—	—	—
Actors and dancers	—	—	—	—	—	—	—	—	—	7	—	—	—
Authors, editors, and reporters	7	—	—	—	—	—	—	—	—	7	—	—	—
Other professional, technical, and kindred workers	213	5	12	5	12	25	41	14	6	59	34	5 464	5 313
<b>Managers and administrators, except farm</b>	160	16	6	19	20	35	16	5	11	15	17	3 543	—
Buyers, purchasing agents, and sales managers	19	—	6	—	—	7	—	6	—	—	—	—	—
Restaurant, cafeteria, and bar managers	32	16	—	—	—	11	—	5	—	—	—	—	—
School administrators	—	—	—	—	—	—	—	—	—	—	—	—	—
Other specified managers and administrators	67	—	—	7	5	14	9	—	—	15	17	—	—
Managers and administrators, n.e.c., salaried	26	—	—	6	15	—	—	—	5	—	—	—	—
Wholesale and retail trade	16	—	—	6	—	10	—	—	—	—	—	—	—
Managers and administrators, n.e.c., self-employed	10	—	—	—	—	10	—	—	—	—	—	—	—
Wholesale and retail trade	10	—	—	—	—	10	—	—	—	—	—	—	—
Sales workers	289	56	44	66	28	44	21	11	5	10	4	1 674	—
Demonstrators, hucksters, and peddlers	9	—	—	—	5	4	—	—	—	—	—	—	—
Insurance, real estate agents, and brokers	28	—	4	—	—	4	5	—	5	10	—	—	—
Sales clerks, retail trade	197	24	37	56	18	31	16	11	—	—	4	1 670	—
Salesmen, retail trade	—	—	—	—	—	—	—	—	—	—	—	—	—
Other sales workers	55	32	3	10	5	5	—	—	—	—	—	—	—
<b>Clerical and kindred workers</b>	1 917	165	160	233	223	368	238	195	209	115	11	3 482	4 660
Bank tellers	30	—	—	4	—	5	10	—	5	6	—	—	—
Bookkeepers	79	—	—	15	11	12	8	19	4	10	—	—	—
Cashiers	108	4	29	24	21	9	13	5	3	—	—	1 875	—
Counter clerks, except food	37	5	5	4	—	5	7	4	7	—	—	—	—
Enumerators and interviewers	—	—	—	—	—	—	—	—	—	—	—	—	—
File clerks	52	4	5	—	10	17	5	—	11	—	—	—	—
Office machine operators	131	—	5	19	13	38	30	11	10	5	—	3 750	—
Bookkeeping and billing machine operators	25	—	—	7	—	7	5	6	—	—	—	—	—
Keypunch operators	70	—	5	12	6	19	18	5	5	—	—	—	—
Payroll and timekeeping clerks	6	—	—	—	—	—	—	6	—	—	—	—	—
Receptionists	33	—	6	—	8	14	—	—	5	—	—	—	—
Secretaries	241	38	17	11	6	26	44	44	42	13	—	4 511	5 412
Stenographers	28	—	—	6	—	—	—	6	6	10	—	—	—
Telephone operators	138	8	7	10	36	42	—	13	22	—	—	3 190	—
Typists	197	28	19	29	15	23	46	23	14	—	—	3 326	—
Other clerical and kindred workers	837	78	67	111	103	177	75	64	80	71	11	3 336	4 518
<b>Craftsmen and kindred workers</b>	119	12	4	17	35	10	14	4	17	6	—	2 757	—
Foremen, n.e.c.	12	—	4	—	4	—	—	—	—	4	—	—	—
<b>Operatives, except transport</b>	1 254	135	68	116	200	269	178	78	107	103	—	3 401	4 230
Assemblers	176	16	4	13	25	42	13	12	21	30	—	3 714	—
Bottling and canning operatives	4	—	—	—	—	—	—	—	4	—	—	—	—
Checkers, examiners, and inspectors, manufacturing	125	5	14	4	34	26	19	—	13	10	—	3 212	—
Dressmakers and seamstresses, except factory	5	—	—	5	—	—	—	—	—	—	—	—	—
Laundry and drycleaning operatives, including ironers	255	44	20	9	47	73	35	21	—	6	—	3 103	3 581
Graders and sorters, manufacturing	16	6	5	5	—	—	—	—	—	—	—	—	—
Packers and wrappers, except produce	117	5	—	10	16	28	37	7	8	6	—	3 982	—
Sewers and stitchers	30	—	—	—	—	18	—	—	5	7	—	—	—
Textile operatives	—	—	—	—	—	—	—	—	—	—	—	—	—
Other specified operatives	290	36	8	49	50	60	38	6	19	24	—	3 033	—
Miscellaneous and not specified operatives	236	23	17	21	28	22	36	32	37	20	—	4 194	—
Manufacturing	204	12	17	17	28	19	31	27	33	20	—	4 290	—
Durable goods	108	12	5	11	11	5	16	18	10	20	—	4 625	—
Machinery, including electrical	20	—	5	—	2	—	—	8	5	—	—	—	—
Other durable goods	88	12	—	11	9	5	16	10	5	20	—	—	—
Nondurable goods, including not specified manufacturing	96	—	12	6	17	14	15	9	23	—	—	—	—
Food and kindred products	26	—	—	6	5	6	—	9	—	—	—	—	—
Apparel and other fabricated textile products	7	—	7	—	—	—	—	—	—	—	—	—	—
Nonmanufacturing industries	32	11	—	4	—	3	5	5	4	—	—	—	—
Transport equipment operatives	80	12	11	18	8	11	—	5	5	5	5	—	—
Laborers, except farm	149	17	14	34	43	19	9	—	7	—	6	2 221	—
Farm laborers and farm foremen	10	6	—	4	—	—	—	—	—	—	—	—	—
Paid farm laborers and farm foremen	36	10	13	5	—	—	8	—	—	—	—	—	—
Unpaid family workers	36	10	13	5	—	—	8	—	—	—	—	—	—
<b>Service workers, except private household<sup>1</sup></b>	2 870	376	256	449	555	584	371	140	90	33	16	2 638	3 531
Cleaning service workers	482	32	31	79	125	121	47	22	16	5	4	2 792	3 357
Chambermaids and maids	218	14	20	48	53	40	20	18	5	—	—	2 509	3 227
Food service workers	794	155	115	116	133	144	99	14	6	6	6	2 083	3 345
Cooks, except private household	322	34	34	56	49	65	64	14	—	6	—	2 755	3 702
Waiters and food counter workers	235	88	41	23	24	30	17	—	6	—	6	860	—
Health service workers	886	81	54	95	134	180	180	87	53	22	—	3 439	4 063
Nursing aides, orderlies, and attendants	624	71	36	80	88	158	132	33	22	4	—	3 234	3 798
Practical nurses	204	5	13	15	26	8	39	49	31	18	—	4 897	5 077
Personal service workers	280	64	21	98	41	31	20	5	—	—	—	1 561	—
Hairdressers and cosmetologists	64	6	—	37	9	6	6	—	—	—	—	—	—
<b>Private household workers</b>	939	231	162	302	162	55	15	—	—	—	12	1 253	1 866
Private household workers, living in	7	—	3	—	4	—	—	—	—	—	—	—	—
Private household workers, living out	932	231	159	302	158	55	15	—	—	—	12	1 252	1 847

<sup>1</sup>Includes protective service workers and allocated cases not shown separately.

**Table 177. Selected Occupation by Major Industry of the Experienced Civilian Labor Force by Earnings in 1969 and Sex: 1970**

(Data based on sample, see text. For minimum base for derived figures (percent, median, etc.) and meaning of symbols, see text)

The State	Persons with earnings										Median earnings (dollars)	Percent worked 50 to 52 weeks
	Total, 16 years old and over	\$1 to \$1,999 or less	\$2,000 to \$3,999	\$4,000 to \$4,999	\$5,000 to \$5,999	\$6,000 to \$6,999	\$7,000 to \$7,999	\$8,000 to \$9,999	\$10,000 to \$14,999	\$15,000 or more		
<b>Male experienced civilian labor force</b>	<b>2 170 681</b>	<b>209 141</b>	<b>153 738</b>	<b>79 544</b>	<b>110 145</b>	<b>145 641</b>	<b>206 962</b>	<b>430 523</b>	<b>568 101</b>	<b>266 886</b>	<b>8 837</b>	<b>70.1</b>
<b>Agriculture, forestry, and fisheries</b>	<b>50 465</b>	<b>15 417</b>	<b>8 648</b>	<b>3 688</b>	<b>4 088</b>	<b>3 016</b>	<b>2 726</b>	<b>4 164</b>	<b>5 087</b>	<b>3 631</b>	<b>4 317</b>	<b>72.4</b>
Professional and managerial workers, except farm	2 517	164	126	69	152	194	167	305	635	705	10 642	76.5
Clerical and sales workers	422	58	42	22	11	35	51	82	90	31	7 843	71.1
Laborers, except farm	3 616	1 243	546	284	279	244	255	376	276	113	4 067	37.3
Other blue-collar workers	2 074	316	162	149	215	139	203	374	405	111	7 276	58.9
Farmers and farm managers	29 356	7 186	5 446	2 240	2 595	1 858	1 614	2 564	3 318	2 535	4 913	87.1
Farm laborers and farm foremen	12 229	6 349	2 293	901	817	520	425	448	346	130	1 926	49.6
Service workers, except private household	251	101	33	23	19	26	11	15	17	6	3 485	46.2
<b>Mining</b>	<b>13 651</b>	<b>597</b>	<b>659</b>	<b>560</b>	<b>787</b>	<b>1 411</b>	<b>2 318</b>	<b>4 012</b>	<b>2 704</b>	<b>603</b>	<b>8 246</b>	<b>73.3</b>
Professional, technical, and kindred workers	1 058	33	32	26	28	21	95	226	415	182	10 819	86.2
Managers and administrators, except farm	522	28	11	18	5	—	—	66	188	188	13 059	89.1
Clerical and sales workers	686	27	47	21	17	43	133	191	175	32	8 576	85.7
Craftsmen and kindred workers	4 041	95	87	93	136	280	635	1 486	1 118	111	8 935	78.0
Operatives, except transport	5 138	299	333	293	391	699	1 031	1 440	588	64	7 537	67.2
Transport equipment operatives, and laborers, except farm	1 876	99	136	92	153	314	363	497	196	26	7 397	64.2
Service workers, except private household	330	16	13	17	57	54	43	106	24	—	7 186	71.8
<b>Construction</b>	<b>166 001</b>	<b>10 938</b>	<b>10 575</b>	<b>6 843</b>	<b>9 495</b>	<b>11 249</b>	<b>15 098</b>	<b>27 577</b>	<b>47 820</b>	<b>26 406</b>	<b>9 364</b>	<b>55.4</b>
Professional, technical, and kindred workers	5 459	156	144	134	154	213	306	827	1 893	1 632	12 101	82.5
Managers and administrators, except farm	15 330	570	501	320	493	517	670	1 564	4 326	6 369	13 502	76.5
Sales workers	1 412	71	71	33	43	79	87	225	394	409	11 231	78.4
Clerical and kindred workers	3 991	301	209	82	137	222	390	579	1 125	946	10 336	78.9
Craftsmen and kindred workers	102 188	5 659	5 964	3 993	5 466	6 527	9 094	17 206	33 107	15 172	9 673	52.8
Operatives, except transport	8 497	762	579	441	458	543	647	1 480	2 566	1 021	9 106	49.7
Transport equipment operatives	7 866	354	506	363	781	1 017	1 318	1 849	1 440	238	7 692	59.5
Laborers, except farm	19 924	2 826	2 481	1 378	1 859	1 969	2 368	3 620	2 835	588	6 720	39.6
Service workers, except private household	1 334	239	120	99	104	162	218	227	134	31	6 648	59.2
<b>Manufacturing, total</b>	<b>987 228</b>	<b>47 333</b>	<b>47 018</b>	<b>30 068</b>	<b>45 448</b>	<b>67 708</b>	<b>106 740</b>	<b>235 566</b>	<b>296 568</b>	<b>110 779</b>	<b>9 268</b>	<b>74.3</b>
Professional, technical, and kindred workers	104 089	2 229	2 565	1 547	1 817	2 568	3 953	12 246	44 514	32 650	12 822	87.5
Managers and administrators, except farm	44 446	741	623	347	556	757	1 321	4 224	14 031	21 846	14 866	92.4
Sales workers	20 734	3 015	640	400	443	630	926	2 985	6 312	5 383	11 052	80.9
Clerical and kindred workers	56 703	2 285	2 416	1 598	2 478	3 887	6 744	16 461	17 252	3 582	9 087	80.0
Craftsmen and kindred workers	262 222	8 026	6 971	4 161	7 248	11 320	17 320	54 352	114 928	36 099	10 866	79.6
Operatives, except transport	381 921	20 590	24 664	16 192	24 292	36 781	58 195	114 646	77 647	8 914	8 179	66.1
Transport equipment operatives	40 686	1 868	2 094	1 449	2 346	3 732	5 522	12 808	9 957	910	8 520	71.4
Laborers, except farm	45 637	5 303	4 694	2 774	3 767	4 870	6 771	11 132	5 770	556	7 208	60.5
Service workers, except private household	30 790	3 276	2 351	1 600	2 501	3 163	4 191	6 712	6 157	839	7 597	67.9
<b>Manufacturing, durable goods</b>	<b>835 684</b>	<b>35 896</b>	<b>38 614</b>	<b>25 173</b>	<b>38 230</b>	<b>56 587</b>	<b>92 327</b>	<b>201 974</b>	<b>251 821</b>	<b>95 062</b>	<b>9 297</b>	<b>73.6</b>
Professional, technical, and kindred workers	86 741	1 600	1 996	1 305	1 424	2 001	3 101	9 482	37 388	28 444	13 004	87.6
Managers and administrators, except farm	33 109	486	473	249	363	494	915	2 945	10 252	16 932	15 000 +	92.4
Sales workers	9 850	324	203	122	235	295	392	1 514	3 515	3 250	12 617	86.6
Clerical and kindred workers	47 851	1 674	1 795	1 300	2 078	3 170	5 729	13 831	15 140	3 134	9 183	80.2
Craftsmen and kindred workers	225 927	6 871	5 662	3 432	5 978	9 103	15 809	45 460	100 294	33 318	11 029	78.9
Operatives, except transport	338 650	17 394	21 433	14 272	21 364	32 342	52 813	103 128	67 682	8 222	8 188	65.4
Transport equipment operatives	30 631	1 180	1 450	1 006	1 711	2 812	4 277	10 235	7 452	508	8 563	70.5
Laborers, except farm	37 357	3 856	3 771	2 180	3 067	3 893	5 755	9 544	4 793	498	7 332	80.3
Service workers, except private household	25 568	2 511	1 831	1 307	2 010	2 477	3 536	5 835	5 305	756	7 749	67.9
<b>Manufacturing, nondurable goods, including not specified</b>	<b>151 544</b>	<b>11 437</b>	<b>8 404</b>	<b>4 895</b>	<b>7 218</b>	<b>11 121</b>	<b>14 413</b>	<b>33 592</b>	<b>44 747</b>	<b>15 717</b>	<b>9 089</b>	<b>78.2</b>
Professional, technical, and kindred workers	17 348	629	569	242	393	567	852	2 764	7 126	4 206	11 865	87.1
Managers and administrators, except farm	11 337	255	150	98	193	263	406	1 279	3 779	4 914	14 002	92.6
Sales workers	10 884	2 691	437	278	208	335	534	1 471	2 797	2 133	9 304	75.8
Clerical and kindred workers	8 852	611	621	298	400	717	1 015	2 630	2 112	448	8 581	79.2
Craftsmen and kindred workers	36 295	1 155	1 309	729	1 270	2 217	3 308	8 892	14 634	2 781	9 835	83.6
Operatives, except transport	43 271	3 196	3 231	1 920	2 928	4 439	5 382	11 518	9 965	692	8 094	72.2
Transport equipment operatives	10 055	688	644	443	635	920	1 245	2 573	2 505	402	8 352	73.9
Laborers, except farm	8 280	1 447	923	594	700	977	1 016	1 588	977	58	6 487	61.3
Service workers, except private household	5 222	765	520	293	491	686	655	877	852	83	6 790	67.5
<b>Transportation, communications, and other public utilities</b>	<b>132 960</b>	<b>7 332</b>	<b>7 337</b>	<b>4 117</b>	<b>5 906</b>	<b>9 379</b>	<b>13 794</b>	<b>31 849</b>	<b>40 875</b>	<b>12 351</b>	<b>9 168</b>	<b>74.8</b>
Professional, technical, and kindred workers	9 828	535	440	187	263	349	514	1 382	3 710	2 448	11 677	83.8
Managers and administrators, except farm	10 224	213	136	99	135	290	514	1 512	4 296	3 029	12 576	87.6
Sales workers	2 112	58	41	29	18	74	165	475	806	446	11 216	88.3
Clerical and kindred workers	14 266	759	727	451	775	1 129	1 941	4 356	3 550	578	8 620	79.6
Craftsmen and kindred workers	39 504	1 366	1 460	853	1 337	2 658	4 468	10 897	13 489	2 976	9 397	81.3
Operatives, except transport	4 906	312	394	200	305	491	747	1 404	938	115	8 006	62.7
Transport equipment operatives	37 329	2 096	2 467	1 464	1 898	2 496	3 395	8 618	12 357	2 538	9 125	66.0
Laborers, except farm	11 384	1 533	1 311	637	802	1 447	1 510	2 599	1 370	175	6 974	61.8
Service workers, except private household	3 407	480	361	197	373	445	540	606	359	46	6 657	62.7
<b>Wholesale trade</b>	<b>94 762</b>	<b>6 870</b>	<b>5 819</b>	<b>3 230</b>	<b>4 858</b>	<b>6 121</b>	<b>9 119</b>	<b>18 714</b>	<b>24 637</b>	<b>15 374</b>	<b>9 214</b>	<b>78.3</b>
Professional, technical, and kindred workers	5 009	189	131	58	175	85	254	686	1 855	1 576	12 497	86.8
Managers and administrators, except farm	14 683	369	272	189	324	454	757	1 902	4 300	6 116	13 575	91.1
Sales workers	23 500	1 002	897	517	872	1 162	2 029	4 216	7 257	5 548	10 727	87.1
Clerical and kindred workers	8 666	726	856	438	470	724	1 104	2 296	1 630	422	8 013	77.1
Craftsmen and kindred workers	11 574	632	514	360	644	817	1 310	2 645	3 725	927	9 142	79.4
Operatives, except transport	7 425	942	747	460	712	798	979	1 546	1 097	144	7 055	64.1
Transport equipment operatives	14 311	850	989	611	1 018	1 237	1 601	3 565	3 884	556	8 477	74.3
Laborers, except farm	7 834	1 818	1 198	483	569	630	877	1 553	653	53	5 735	53.5
Service workers, except private household	1 760	342	215	114	74	214	208	305	256	32	6 631	63.2
<b>Retail trade</b>	<b>265 648</b>	<b>66 288</b>	<b>33 481</b>	<b>12 671</b>	<b>15 952</b>	<b>17 194</b>	<b>19 669</b>	<b>35 720</b>	<b>41 608</b>	<b>23 065</b>	<b>6 258</b>	<b>61.5</b>
Professional, technical, and kindred workers	7 776	515	453	237	257	352	379	893	2 351	2 339	11 706	80.0
Managers and administrators, except farm	50 455	2 361	2 416	1 713	2 526	3 050	4 142	8 941	13 962	11 344	10 028	86.3
Sales workers	49 905	9 905	6 565	2								

Table 177. Selected Occupation by Major Industry of the Experienced Civilian Labor Force by Earnings in 1969 and Sex: 1970—Continued

(Data based on sample, see text. For minimum base for derived figures (percent, median, etc.) and meaning of symbols, see text)

The State	Persons with earnings										Median earnings (dollars)	Percent worked 50 to 52 weeks
	Total, 16 years old and over	\$1 to \$1,999 or less	\$2,000 to \$3,999	\$4,000 to \$4,999	\$5,000 to \$5,999	\$6,000 to \$6,999	\$7,000 to \$7,999	\$8,000 to \$9,999	\$10,000 to \$14,999	\$15,000 or more		
<b>Male experienced civilian labor force—Continued</b>												
<b>Finance, insurance, and real estate</b>												
Professional, technical, and kindred workers	61 118	4 488	4 052	2 310	3 021	3 583	4 594	9 712	15 854	13 504	9 753	79.4
Managers and administrators, except farm	3 985	117	150	92	122	164	328	798	1 515	699	10 731	85.5
Sales workers	14 980	480	472	319	378	618	926	2 191	5 027	4 569	12 095	89.4
Clerical and kindred workers	25 130	1 222	1 279	836	1 153	1 374	1 772	3 570	6 535	7 389	11 040	79.9
Craftsmen and kindred workers	10 080	1 029	1 175	580	725	800	925	2 141	2 040	665	7 790	74.0
Operatives, except transport	1 675	138	216	99	69	116	138	368	420	111	8 334	69.0
Transport equipment operatives	288	44	54	20	20	21	30	52	24	23	6 286	64.6
Laborers, except farm	287	65	21	5	26	42	24	52	46	6	6 631	58.2
Service workers, except private household	1 423	404	211	84	122	94	199	211	92	6	5 102	53.9
	3 270	989	474	275	406	354	252	329	155	36	4 625	62.6
<b>Business and repair services</b>												
Professional, technical, and kindred workers	59 769	8 623	6 257	3 091	4 010	4 184	4 890	8 602	11 973	8 139	7 761	66.5
Managers and administrators, except farm	7 310	552	503	232	209	331	304	861	2 286	2 032	11 450	74.7
Sales workers	6 690	209	183	135	233	319	410	813	1 868	2 520	12 792	86.1
Clerical and kindred workers	2 859	203	158	67	91	138	151	409	699	943	11 520	79.9
Craftsmen and kindred workers	3 341	596	431	153	172	349	309	565	481	285	6 913	62.1
Operatives, except transport	21 749	2 363	2 120	1 145	1 725	1 789	2 200	3 685	4 754	1 685	7 788	70.3
Transport equipment operatives	5 192	852	726	261	378	343	611	851	862	308	7 059	58.6
Laborers, except farm	2 359	375	312	159	245	178	216	382	412	80	6 497	58.5
Service workers, except private household	3 356	1 782	570	221	170	141	108	135	138	91	1 883	28.0
	6 913	1 691	1 254	718	787	596	581	618	473	195	4 712	50.9
<b>Personal services</b>												
Professional and managerial workers, except farm	31 741	7 009	4 050	1 974	2 481	2 603	2 559	3 719	4 551	2 795	6 137	61.8
Clerical and sales workers	6 847	597	532	280	387	419	457	1 029	1 576	1 570	9 461	79.0
Craftsmen and operatives, including transport	1 958	649	380	104	151	122	104	181	157	110	3 737	52.0
Laborers, except farm	7 527	1 303	875	540	620	813	685	897	1 349	445	6 523	66.3
Service workers, except private household	1 966	1 108	255	106	183	102	80	69	34	29	1 774	37.9
Private household workers	12 634	2 879	1 891	916	1 068	1 113	1 209	1 515	1 407	636	5 591	56.4
	809	473	117	28	72	34	24	28	28	5	1 710	42.5
<b>Entertainment and recreation services</b>												
Professional, technical, and kindred workers	13 694	4 005	1 936	776	741	815	805	1 552	1 813	1 251	5 175	47.8
Managers and administrators, except farm	2 647	710	359	80	105	147	126	274	416	430	6 473	42.7
Sales workers	2 300	178	127	101	94	105	154	354	633	554	10 292	75.2
Clerical and kindred workers	266	71	37	16	21	16	5	30	32	38	5 429	50.8
Craftsmen and kindred workers	661	197	134	23	22	17	49	74	91	54	3 993	41.3
Operatives, except transport	1 490	344	158	101	79	170	100	263	214	61	6 371	52.0
Transport equipment operatives	272	66	35	22	29	3	28	44	45	—	5 448	48.9
Laborers, except farm	164	21	11	7	17	4	28	41	25	—	7 429	52.7
Service workers, except private household	1 430	421	279	101	140	95	97	170	88	39	4 149	37.6
	4 464	1 997	796	325	234	248	218	302	269	75	2 590	39.2
<b>Professional and related services</b>												
Professional, technical, and kindred workers	209 165	25 673	19 938	8 520	10 720	13 234	15 927	27 362	46 293	41 498	8 773	60.5
Managers and administrators, except farm	125 111	8 620	10 045	4 560	4 592	5 677	8 344	17 158	33 801	32 314	10 527	59.0
Sales workers	16 814	440	420	179	247	364	612	1 434	5 881	7 237	14 005	74.1
Clerical and kindred workers	946	214	46	27	31	42	9	128	233	216	9 625	63.6
Craftsmen and kindred workers	9 827	3 272	1 878	499	528	626	590	933	1 088	413	3 748	49.6
Operatives, except transport	10 013	802	528	246	447	819	1 212	2 355	2 728	876	8 809	77.5
Transport equipment operatives	3 402	592	383	224	218	318	400	678	491	98	6 893	61.4
Laborers, except farm	1 515	235	268	133	112	185	186	250	105	41	6 051	59.5
Service workers, except private household	2 403	708	414	89	167	345	218	336	120	6	4 893	52.9
	39 134	10 790	5 956	2 563	4 378	4 858	4 356	4 090	1 846	297	5 059	58.2
<b>Public administration</b>												
Professional, technical, and kindred workers	84 479	4 548	3 968	1 696	2 638	5 144	8 723	21 974	28 298	7 490	9 413	85.4
Managers and administrators, except farm	12 399	473	546	194	286	444	506	1 898	5 220	2 832	11 774	86.0
Sales workers	11 681	363	325	219	167	436	690	2 406	4 907	2 168	11 258	90.2
Clerical and kindred workers	147	5	14	10	17	11	8	15	57	10	9 133	74.9
Craftsmen and kindred workers	20 944	1 165	968	375	647	1 439	3 185	8 099	4 226	840	8 665	84.0
Operatives, except transport	6 845	576	880	239	210	390	760	1 598	1 941	251	8 460	83.9
Transport equipment operatives	1 002	59	62	22	33	85	147	296	257	41	8 628	81.4
Laborers, except farm	1 553	55	81	50	121	165	277	535	248	21	8 103	84.9
Service workers, except private household	2 828	390	257	151	226	395	595	607	174	33	6 987	66.4
	27 080	1 462	835	436	931	1 779	2 555	6 520	11 268	1 294	9 700	86.7
<b>Female experienced civilian labor force</b>												
<b>Agriculture, forestry, and fisheries</b>												
Professional and managerial workers, except farm	6 491	3 454	1 344	579	337	257	173	178	105	64	1 879	43.4
Clerical and sales workers	276	63	54	62	23	11	4	15	22	22	4 339	45.7
Laborers, except farm	1 284	483	315	159	121	104	34	43	25	—	3 010	52.9
Other blue-collar workers	590	284	114	66	57	22	31	10	6	—	2 193	46.3
Farmers and farm managers	306	120	123	24	4	—	19	16	—	—	2 537	38.2
Farm laborers and farm foremen	1 321	629	274	102	64	70	58	60	30	34	2 230	77.4
Service workers, except private household	2 557	1 771	444	145	62	50	27	28	22	8	1 444	21.5
	157	104	20	21	6	—	—	6	—	—	1 510	31.8
<b>Mining</b>												
Professional, technical, and kindred workers	951	149	145	116	135	160	106	85	35	20	5 485	67.0
Managers and administrators, except farm	15	—	—	6	—	5	—	—	4	—	—	—
Clerical and sales workers	12	—	—	—	—	—	—	5	7	—	—	—
Craftsmen and kindred workers	703	118	110	82	106	137	71	56	10	13	5 392	69.0
Operatives, except transport	42	—	6	4	4	—	13	6	4	5	—	—
Transport equipment operatives, and laborers, except farm	139	20	19	16	25	18	22	12	5	2	5 580	58.3
Service workers, except private household	14	—	—	8	—	—	—	6	—	—	—	—
	26	11	10	—	—	—	—	—	5	—	—	—
<b>Construction</b>												
Professional, technical, and kindred workers	9 920	1 860	1 762	1 125	1 290	1 140	785	865	721	372	5 145	61.7
Managers and administrators, except farm	274	16	5	22	5	23	62	86	11	8	7 610	86.1
Sales workers	471	40	28	37	32	64	38	31	105	98	7 961	76.0
Clerical and kindred workers	178	74	44	—	9	5	5	11	6	24	2 682	50.6
Craftsmen and kindred workers	6 900	1 204	1 418	885	1 069	872	596	499	274	83	4 936	64.8
Operatives, except transport	1 232	208	96	76	112	102	87	190	205	156	7 253	51.9
Transport equipment operatives	207	48	26	31	15	28	28	23	8	—	4 952	45.9
Laborers, except farm	102	13	—	20	—	11	4	39	15	—	8 154	42.2
Service workers, except private household	260	104	67	31	12	10	4	10	22	—	2 776	21.5
	296	153	78	23	36	6	—	—	—	—	1 935	43.9

**Table 177. Selected Occupation by Major Industry of the Experienced Civilian Labor Force by Earnings in 1969 and Sex: 1970—Continued**

[Data based on sample, see text. For minimum base for derived figures (percent, median, etc.) and meaning of symbols, see text]

**The State**

**Female experienced civilian labor force—Continued**

	Persons with earnings										Median earnings (dollars)	Percent worked 50 to 52 weeks
	Total, 16 years old and over	\$1 to \$1,999 or less	\$2,000 to \$3,999	\$4,000 to \$4,999	\$5,000 to \$5,999	\$6,000 to \$6,999	\$7,000 to \$7,999	\$8,000 to \$9,999	\$10,000 to \$14,999	\$15,000 or more		
<b>Manufacturing, total</b> .....	<b>240 142</b>	<b>33 871</b>	<b>47 352</b>	<b>35 114</b>	<b>34 558</b>	<b>30 516</b>	<b>27 535</b>	<b>22 485</b>	<b>7 234</b>	<b>1 475</b>	<b>5 108</b>	<b>55.7</b>
Professional, technical, and kindred workers .....	8 417	935	988	740	809	818	781	1 474	1 603	269	6 900	67.5
Managers and administrators, except farm .....	2 340	172	233	170	240	269	197	333	381	345	7 437	80.0
Sales workers .....	1 904	693	422	145	135	127	131	120	111	111	3 227	52.5
Clerical and kindred workers .....	72 356	8 179	10 413	9 302	11 406	11 014	9 863	9 450	2 425	303	5 726	69.4
Craftsmen and kindred workers .....	10 394	1 342	1 994	1 471	1 304	1 049	940	1 001	1 058	235	5 299	60.2
Operatives, except transport .....	134 165	20 279	30 796	21 732	19 473	16 214	14 640	9 388	1 396	247	4 737	47.2
Transport equipment operatives .....	749	94	53	101	71	80	60	171	110	9	6 694	59.8
Laborers, except farm .....	5 094	1 162	1 213	875	639	492	415	233	62	5	4 198	44.4
Service workers, except private household .....	4 721	1 015	1 240	580	481	453	508	314	88	42	4 182	56.6
<b>Manufacturing, durable goods</b> .....	<b>167 417</b>	<b>19 475</b>	<b>29 725</b>	<b>22 869</b>	<b>23 282</b>	<b>23 398</b>	<b>22 967</b>	<b>19 037</b>	<b>5 578</b>	<b>1 086</b>	<b>5 500</b>	<b>56.8</b>
Professional, technical, and kindred workers .....	4 599	294	384	360	430	464	439	946	1 090	192	7 837	72.3
Managers and administrators, except farm .....	1 512	98	132	104	143	162	138	228	289	218	7 848	82.1
Sales workers .....	431	96	69	38	35	28	61	54	38	12	5 357	63.8
Clerical and kindred workers .....	51 906	4 705	6 504	6 106	7 512	8 451	8 247	8 118	2 042	221	6 133	71.5
Craftsmen and kindred workers .....	6 321	618	1 140	846	690	670	634	724	806	193	5 807	60.7
Operatives, except transport .....	94 906	12 142	19 703	14 373	13 601	12 816	12 596	8 340	1 123	212	5 091	47.7
Transport equipment operatives .....	506	28	39	67	48	47	55	153	69	—	7 436	63.2
Laborers, except farm .....	3 608	792	827	555	446	372	359	205	47	5	4 333	43.1
Service workers, except private household .....	3 628	702	927	420	377	388	438	269	74	33	4 440	57.1
<b>Manufacturing, nondurable goods, including not specified</b> .....	<b>72 725</b>	<b>14 396</b>	<b>17 627</b>	<b>12 247</b>	<b>11 276</b>	<b>7 118</b>	<b>4 568</b>	<b>3 448</b>	<b>1 656</b>	<b>389</b>	<b>4 354</b>	<b>53.2</b>
Professional, technical, and kindred workers .....	3 818	641	604	380	379	354	342	528	513	77	5 749	61.6
Managers and administrators, except farm .....	828	74	101	66	97	107	59	105	92	127	6 710	76.3
Sales workers .....	1 473	597	353	107	100	99	70	66	73	8	2 790	49.2
Clerical and kindred workers .....	20 450	3 474	3 909	3 196	3 894	2 563	1 616	1 333	383	82	4 889	64.1
Craftsmen and kindred workers .....	4 073	724	854	625	614	379	306	277	252	42	4 734	59.4
Operatives, except transport .....	39 259	8 137	11 093	7 359	5 872	3 398	2 044	1 048	273	35	4 054	45.9
Transport equipment operatives .....	243	66	14	34	23	33	5	18	41	9	5 326	52.7
Laborers, except farm .....	1 488	370	386	320	193	120	56	28	15	—	3 938	47.5
Service workers, except private household .....	1 093	313	313	160	104	65	70	45	14	9	3 492	54.9
<b>Transportation, communications, and other public utilities</b> .....	<b>41 063</b>	<b>6 999</b>	<b>8 011</b>	<b>5 348</b>	<b>6 928</b>	<b>6 435</b>	<b>3 219</b>	<b>2 674</b>	<b>1 199</b>	<b>250</b>	<b>5 025</b>	<b>58.7</b>
Professional, technical, and kindred workers .....	1 469	142	147	83	168	177	191	308	212	41	7 092	74.6
Managers and administrators, except farm .....	1 228	94	112	142	183	168	125	177	156	71	6 494	76.7
Sales workers .....	428	65	57	41	65	94	37	49	20	—	5 785	63.8
Clerical and kindred workers .....	29 291	3 939	4 846	4 197	5 926	5 423	2 524	1 822	548	66	5 281	65.7
Craftsmen and kindred workers .....	1 042	81	124	100	128	160	142	136	144	27	6 550	77.2
Operatives, except transport .....	489	180	153	45	34	46	19	—	7	—	29.7	—
Transport equipment operatives .....	5 787	2 224	2 246	523	287	182	95	111	91	28	2 596	14.3
Laborers, except farm .....	307	76	54	47	24	47	19	23	17	—	4 500	57.3
Service workers, except private household .....	1 022	198	272	170	113	138	67	48	4	12	4 241	59.6
<b>Wholesale trade</b> .....	<b>26 597</b>	<b>5 441</b>	<b>5 671</b>	<b>3 948</b>	<b>4 130</b>	<b>3 018</b>	<b>1 848</b>	<b>1 582</b>	<b>673</b>	<b>286</b>	<b>4 554</b>	<b>58.6</b>
Professional, technical, and kindred workers .....	609	58	72	36	104	82	74	87	62	34	6 421	72.4
Managers and administrators, except farm .....	1 008	100	152	70	99	145	95	127	112	108	6 572	74.5
Sales workers .....	1 517	501	298	163	186	95	39	73	96	66	3 728	52.6
Clerical and kindred workers .....	17 701	3 046	3 591	2 929	3 074	2 292	1 345	1 089	271	64	4 756	62.8
Craftsmen and kindred workers .....	552	93	120	67	115	33	25	56	38	5	4 940	54.7
Operatives, except transport .....	3 617	1 076	1 017	529	415	274	160	85	55	6	3 441	41.4
Transport equipment operatives .....	195	45	55	10	22	15	14	7	27	—	3 909	52.3
Laborers, except farm .....	868	296	212	82	89	54	65	58	12	—	3 302	37.9
Service workers, except private household .....	530	226	154	62	26	28	31	—	—	3	2 506	50.2
<b>Retail trade</b> .....	<b>249 479</b>	<b>104 393</b>	<b>73 874</b>	<b>28 763</b>	<b>18 091</b>	<b>9 991</b>	<b>5 631</b>	<b>4 511</b>	<b>2 808</b>	<b>1 417</b>	<b>2 551</b>	<b>44.2</b>
Professional, technical, and kindred workers .....	3 093	664	555	342	319	293	252	292	286	90	4 958	61.0
Managers and administrators, except farm .....	12 996	2 033	2 596	1 858	1 682	1 321	1 047	1 103	841	515	5 007	71.6
Sales workers .....	79 485	37 331	25 346	8 333	3 921	1 709	984	978	583	300	2 190	41.3
Clerical and kindred workers .....	68 008	21 927	19 723	10 541	7 368	4 229	2 126	1 324	531	239	3 225	50.3
Craftsmen and kindred workers .....	4 305	1 122	1 125	583	607	330	232	154	118	34	3 832	54.7
Operatives, except transport .....	7 838	2 142	2 336	1 206	1 072	563	247	159	83	30	3 521	48.0
Transport equipment operatives .....	576	165	214	60	31	43	17	41	5	—	3 150	52.4
Laborers, except farm .....	3 259	1 385	968	400	227	132	65	64	12	6	2 505	45.5
Service workers, except private household .....	69 919	37 624	21 011	5 440	2 864	1 371	661	396	349	203	1 858	34.5
<b>Finance, insurance, and real estate</b> .....	<b>68 255</b>	<b>13 452</b>	<b>16 118</b>	<b>12 932</b>	<b>11 013</b>	<b>6 811</b>	<b>3 565</b>	<b>2 469</b>	<b>1 219</b>	<b>476</b>	<b>4 352</b>	<b>61.5</b>
Professional, technical, and kindred workers .....	1 359	89	157	187	253	194	122	257	88	12	5 974	74.8
Managers and administrators, except farm .....	3 986	599	591	369	494	599	497	433	309	95	5 879	79.8
Sales workers .....	5 766	1 135	1 088	737	702	492	331	533	463	285	4 896	55.6
Clerical and kindred workers .....	54 213	10 653	13 137	11 314	9 410	5 363	2 537	1 379	340	80	4 293	60.7
Craftsmen and kindred workers .....	244	—	29	43	23	67	26	46	10	—	6 403	84.8
Operatives, except transport .....	207	39	64	39	30	25	10	—	—	—	4 013	48.3
Transport equipment operatives .....	10	5	5	—	—	—	—	—	—	—	—	—
Laborers, except farm .....	89	39	41	4	—	5	—	—	—	—	—	—
Service workers, except private household .....	2 381	893	1 006	239	101	66	42	21	9	4	2 591	56.3
<b>Business and repair services</b> .....	<b>25 325</b>	<b>8 061</b>	<b>6 361</b>	<b>3 041</b>	<b>2 789</b>	<b>1 963</b>	<b>1 319</b>	<b>967</b>	<b>614</b>	<b>210</b>	<b>3 447</b>	<b>46.9</b>
Professional, technical, and kindred workers .....	2 400	759	420	222	202	180	171	216	181	49	4 095	40.0
Managers and administrators, except farm .....	804	105	112	68	129	100	40	96	93	61	5 907	71.4
Sales workers .....	740	375	121	86	39	28	24	23	20	24	1 973	44.3
Clerical and kindred workers .....	15 670	4 640	3 858	2 036	2 028	1 385	913	500	245	65	3 656	48.4
Craftsmen and kindred workers .....	697	207	143	57	53	79	61	40	46	11	3 979	53.1
Operatives, except transport .....	1 528	415	415	272	193	96	63	53	21	—	3 682	40.0
Transport equipment operatives .....	177	76	43	6	30	16	—	6	—	—	2 581	29.9
Laborers, except farm .....	321	172	92	16	22	4	7	8	—	—	1 866	31.5
Service workers, except private household .....	2 988	1 312	1 157	278	93	75	40	25	8	—	2 315	43.2
<b>Personal services</b> .....	<b>82 176</b>	<b>43 327</b>	<b>21 698</b>	<b>6 655</b>	<b>4 445</b>	<b>2 305</b>	<b>1 354</b>	<b>1 307</b>	<b>778</b>	<b>307</b>	<b>1 897</b>	<b>41.3</b>
Professional and managerial workers, except farm .....	3 201	990	739	331	355	163	171	208	146	98	3 652	55.9
Clerical and sales workers .....	10 448	4 512	2 973	1 147	892	465	200	168	80	11	2 479	45.7
Craftsmen and operatives, including transport .....	10 677	3 277	4 184	1 632	746	354	165	167	132	20	2 985	48.3
Laborers, except farm .....	659	323	235	44	26	5	8	12	6	—	2 055	41.4
Service workers, except private household .....	27 956	11 281	8 535									

Table 177. Selected Occupation by Major Industry of the Experienced Civilian Labor Force by Earnings in 1969 and Sex: 1970—Continued

[Data based on sample, see text. For minimum base for derived figures (percent, median, etc.) and meaning of symbols, see text]

The State

Female experienced civilian labor force—  
Continued

	Persons with earnings										Median earnings (dollars)	Percent worked 50 to 52 weeks
	Total, 16 years old and over	\$1 to \$1,999 or less	\$2,000 to \$3,999	\$4,000 to \$4,999	\$5,000 to \$5,999	\$6,000 to \$6,999	\$7,000 to \$7,999	\$8,000 to \$9,999	\$10,000 to \$14,999	\$15,000 or more		
<b>Entertainment and recreation services</b> .....	8 947	4 332	2 158	716	576	434	207	260	178	84	2 131	31.1
Professional, technical, and kindred workers .....	1 559	778	371	65	57	61	31	90	88	18	2 008	21.5
Managers and administrators, except farm .....	357	60	72	31	19	24	34	46	41	30	5 816	59.1
Sales workers .....	526	424	77	6	—	5	7	7	—	—	1 241	11.4
Clerical and kindred workers .....	2 285	987	449	233	204	219	85	63	16	29	2 693	43.2
Craftsmen and kindred workers .....	33	24	4	5	—	—	—	—	—	—	...	...
Operatives, except transport .....	70	11	33	4	6	6	—	10	—	—	...	...
Transport equipment operatives .....	15	5	—	4	6	—	—	—	—	—	...	...
Laborers, except farm .....	64	32	19	9	—	4	—	—	—	—	...	...
Service workers, except private household .....	4 038	2 011	1 133	359	284	115	50	44	33	9	2 014	28.0
<b>Professional and related services</b> .....	362 426	96 949	76 979	39 115	33 463	27 456	24 782	32 099	28 123	3 460	4 186	39.8
Professional, technical, and kindred workers .....	149 901	25 865	23 091	9 150	9 523	11 622	16 326	26 663	25 314	2 347	6 630	31.4
Managers and administrators, except farm .....	6 725	1 120	948	489	523	572	429	763	1 168	713	6 494	53.1
Sales workers .....	889	455	213	48	37	42	19	17	21	37	1 954	40.2
Clerical and kindred workers .....	95 549	29 126	20 402	14 066	13 762	9 241	4 711	3 064	1 010	167	3 828	48.0
Craftsmen and kindred workers .....	1 639	299	584	184	158	99	83	122	85	25	3 783	44.7
Operatives, except transport .....	3 810	1 054	1 269	733	375	227	71	58	20	3	3 341	56.5
Transport equipment operatives .....	625	269	231	76	28	6	5	10	—	—	2 377	15.4
Laborers, except farm .....	658	307	131	125	34	26	13	17	5	—	2 336	41.8
Service workers, except private household .....	102 630	38 454	30 110	14 244	9 023	5 621	3 125	1 385	500	168	2 854	43.0
<b>Public administration</b> .....	42 286	7 347	5 756	4 225	5 720	6 901	5 630	4 706	1 790	211	5 667	65.4
Professional, technical, and kindred workers .....	4 073	455	320	225	361	469	589	968	629	57	7 351	70.4
Managers and administrators, except farm .....	2 396	396	285	142	225	186	323	467	311	61	6 806	77.9
Sales workers .....	204	79	51	33	18	9	4	4	6	—	2 902	54.9
Clerical and kindred workers .....	31 640	5 027	4 511	3 531	4 701	5 719	4 415	2 983	675	78	5 585	65.3
Craftsmen and kindred workers .....	125	29	24	—	6	20	14	32	—	—	6 175	66.4
Operatives, except transport .....	135	49	27	5	10	27	10	7	—	—	3 370	48.1
Transport equipment operatives .....	62	26	—	16	10	—	5	5	—	—	...	...
Laborers, except farm .....	405	66	82	21	32	95	55	50	4	—	6 016	65.2
Service workers, except private household .....	3 246	1 220	456	252	357	376	215	190	165	15	3 768	52.2





Table 178. Occupational and Geographic Mobility Between 1965 and 1970 by Race and Sex: 1970 — Continued

[Data based on sample, see text. For meaning of symbols, see text.]

Persons 25 years old and over	Occupation of workers in 1965										Armed Forces in 1965	Did not work in 1965 and work in 1965 not reported		
	Total working <sup>1</sup>	Professional, technical, and kindred workers	Managers and administrators, except farm	Sales workers	Clerical and kindred workers	Craftsmen and kindred workers	Operatives, including transport	Laborers, except farm	Farmers and farm managers	Farm laborers and farm foremen			Service workers, except private household	Private household workers
<b>The State</b>														
<b>TOTAL — Continued</b>														
<b>Spanish Origin or Descent</b>														
<b>Males</b>														
Employed in 1970	27 257	2 009	1 259	545	1 227	4 980	9 548	2 443	225	731	2 122	35	4 108	
Net in labor force	23 583	1 751	1 219	491	1 131	4 237	8 360	1 916	156	583	1 899	35	3 611	
Professional, technical, and kindred workers	2 028	1 576	1 219	491	1 131	4 237	8 360	1 916	156	583	1 899	35	3 611	
Managers and administrators, except farm	1 339	77	743	96	39	21	103	24	—	—	102	—	228	
Sales workers	1 680	37	743	354	16	20	78	20	—	23	—	—	40	
Clerical and kindred workers	5 276	24	59	—	603	64	160	123	19	42	62	—	38	
Craftsmen and kindred workers	9 828	19	57	—	3 557	871	289	289	9	182	341	—	291	
Operatives, including transport	1 979	83	115	20	183	433	6 555	933	18	182	341	—	505	
Laborers, except farm	1 555	—	10	—	18	—	—	—	88	—	36	—	133	
Farmers and farm managers	465	—	—	—	—	—	—	—	294	—	—	—	40	
Farm laborers and farm foremen	1 949	—	91	21	164	—	103	129	22	42	1 196	—	140	
Service workers, except private household	35	—	—	—	—	—	—	—	24	21	55	—	185	
Private household workers	1 532	75	—	—	368	—	575	223	45	127	168	—	85	
Unemployed	85	183	40	54	41	375	613	304	—	—	—	—	2 508	
Armed Forces	4 727	—	—	—	—	—	—	—	—	—	—	—	—	
Not in labor force	10 307	1 060	278	569	2 810	185	2 189	70	36	95	1 871	325	19 749	
Employed in 1970	10 858	803	197	341	1 974	151	1 482	53	17	—	1 893	264	3 611	
Net in labor force	846	672	108	—	42	—	—	—	—	—	—	—	423	
Professional, technical, and kindred workers	288	21	—	—	—	—	—	—	—	—	—	—	58	
Managers and administrators, except farm	500	230	69	171	162	18	16	—	17	—	20	—	203	
Sales workers	2 792	58	—	—	—	—	—	—	—	—	66	—	698	
Clerical and kindred workers	2 300	32	—	—	1 621	133	2 276	—	—	—	19	—	58	
Craftsmen and kindred workers	2 304	—	—	—	—	—	—	—	—	—	—	—	799	
Operatives, including transport	1 505	—	—	—	39	—	1 226	30	—	—	—	—	85	
Laborers, except farm	178	—	—	—	—	—	—	—	—	—	—	—	—	
Farmers and farm managers	21	—	—	—	—	—	—	—	—	—	—	—	—	
Farm laborers and farm foremen	2 915	20	20	22	78	—	179	—	—	—	1 246	118	1 096	
Service workers, except private household	907	19	22	39	71	—	148	—	19	—	60	—	191	
Private household workers	—	—	—	—	—	—	—	—	—	—	—	—	468	
Unemployed	18 311	238	59	189	765	34	559	17	—	95	518	—	15 670	
Not in labor force	—	—	—	—	—	—	—	—	—	—	—	—	—	
<b>RESIDED SAME STATE 5 YEARS AGO</b>														
<b>Males</b>														
Employed in 1970	1 648 838	189 717	147 471	89 073	85 594	385 047	418 931	78 417	35 221	8 256	99 529	518	314 553	
Net in labor force	1 445 048	179 232	134 041	82 038	86 705	335 101	360 887	63 285	27 974	6 242	84 162	349	26 948	
Professional, technical, and kindred workers	155 576	155 576	155 576	155 576	155 576	155 576	155 576	155 576	155 576	155 576	155 576	155 576	155 576	
Managers and administrators, except farm	182 454	182 454	182 454	182 454	182 454	182 454	182 454	182 454	182 454	182 454	182 454	182 454	182 454	
Sales workers	88 003	88 003	88 003	88 003	88 003	88 003	88 003	88 003	88 003	88 003	88 003	88 003	88 003	
Clerical and kindred workers	99 057	99 057	99 057	99 057	99 057	99 057	99 057	99 057	99 057	99 057	99 057	99 057	99 057	
Craftsmen and kindred workers	381 733	381 733	381 733	381 733	381 733	381 733	381 733	381 733	381 733	381 733	381 733	381 733	381 733	
Operatives, including transport	363 746	363 746	363 746	363 746	363 746	363 746	363 746	363 746	363 746	363 746	363 746	363 746	363 746	
Laborers, except farm	57 300	57 300	57 300	57 300	57 300	57 300	57 300	57 300	57 300	57 300	57 300	57 300	57 300	
Farmers and farm managers	27 799	27 799	27 799	27 799	27 799	27 799	27 799	27 799	27 799	27 799	27 799	27 799	27 799	
Farm laborers and farm foremen	5 371	5 371	5 371	5 371	5 371	5 371	5 371	5 371	5 371	5 371	5 371	5 371	5 371	
Service workers, except private household	102 498	102 498	102 498	102 498	102 498	102 498	102 498	102 498	102 498	102 498	102 498	102 498	102 498	
Private household workers	40 027	40 027	40 027	40 027	40 027	40 027	40 027	40 027	40 027	40 027	40 027	40 027	40 027	
Unemployed	2 287	2 287	2 287	2 287	2 287	2 287	2 287	2 287	2 287	2 287	2 287	2 287	2 287	
Armed Forces	376 672	376 672	376 672	376 672	376 672	376 672	376 672	376 672	376 672	376 672	376 672	376 672	376 672	
Not in labor force	—	—	—	—	—	—	—	—	—	—	—	—	—	
<b>Females</b>														
Employed in 1970	2 189 703	188 971	28 455	57 970	234 133	14 992	114 126	7 696	2 922	2 160	132 474	1 134	1 406 786	
Net in labor force	1 926 547	188 971	28 455	57 970	234 133	14 992	114 126	7 696	2 922	2 160	132 474	1 134	1 406 786	
Professional, technical, and kindred workers	123 131	123 131	123 131	123 131	123 131	123 131	123 131	123 131	123 131	123 131	123 131	123 131	123 131	
Managers and administrators, except farm	30 308	30 308	30 308	30 308	30 308	30 308	30 308	30 308	30 308	30 308	30 308	30 308	30 308	
Sales workers	64 472	64 472	64 472	64 472	64 472	64 472	64 472	64 472	64 472	64 472	64 472	64 472	64 472	
Clerical and kindred workers	254 664	254 664	254 664	254 664	254 664	254 664	254 664	254 664	254 664	254 664	254 664	254 664	254 664	
Craftsmen and kindred workers	16 121	16 121	16 121	16 121	16 121	16 121	16 121	16 121	16 121	16 121	16 121	16 121	16 121	
Operatives, including transport	122 158	122 158	122 158	122 158	122 158	122 158	122 158	122 158	122 158	122 158	122 158	122 158	122 158	
Laborers, except farm	8 467	8 467	8 467	8 467	8 467	8 467	8 467	8 467	8 467	8 467	8 467	8 467	8 467	
Farmers and farm managers	1 761	1 761	1 761	1 761	1 761	1 761	1 761	1 761	1 761	1 761	1 761	1 761	1 761	
Farm laborers and farm foremen	2 400	2 400	2 400	2 400	2 400	2 400	2 400	2 400	2 400	2 400	2 400	2 400	2 400	
Service workers, except private household	145 969	145 969	145 969	145 969	145 969	145 969	145 969	145 969	145 969	145 969	145 969	145 969	145 969	
Private household workers	23 189	23 189	23 189	23 189	23 189	23 189	23 189	23 189	23 189	23 189	23 189	23 189	23 189	
Unemployed	44 756	44 756	44 756	44 756	44 756	44 756	44 756	44 756	44 756	44 756	44 756	44 756	44 756	
Armed Forces	186	186	186	186	186	186	186	186	186	186	186	186	186	
Not in labor force	1 352 121	1 352 121	1 352 121	1 352 121	1 352 121	1 352 121	1 352 121	1 352 121	1 352 121	1 352 121	1 352 121	1 352 121	1 352 121	

<sup>1</sup>Includes "Occupation not reported" not shown separately.

Table 178. Occupational and Geographic Mobility Between 1965 and 1970 by Race and Sex: 1970—Continued

[Data based on sample, see text. For meaning of symbols, see text.]

Persons 25 years old and over	Occupation of workers in 1965											Armed Forces in 1965	Did not work in 1965 and work in 1965 not reported	
	Total working <sup>1</sup>	Professional, technical, and kindred workers	Managers and administrators, except farm	Sales workers	Clerical and kindred workers	Craftsmen and kindred workers	Operatives, including transport	Laborers, except farm	Farmers and farm managers	Farm laborers and farm foremen	Service workers, except private household			Private household workers
<b>208 230</b>	<b>101 717</b>	<b>22 183</b>	<b>11 451</b>	<b>7 738</b>	<b>5 324</b>	<b>16 940</b>	<b>17 154</b>	<b>5 020</b>	<b>1 218</b>	<b>1 370</b>	<b>5 327</b>	<b>102</b>	<b>36 593</b>	<b>69 920</b>
Employed in 1970	89 838	20 581	10 469	7 293	4 829	14 699	14 781	4 050	989	1 217	4 212	50	28 140	44 093
Professional, technical, and kindred workers	39 354	16 343	1 383	2 782	792	840	756	375	44	—	345	—	4 651	11 886
Managers and administrators, except farm	16 282	2 078	6 481	1 702	618	520	462	105	—	—	179	—	1 965	1 419
Sales workers	9 667	513	6 692	3 344	317	480	222	96	—	—	85	30	1 907	1 694
Clerical and kindred workers	8 782	406	422	2 83	1 779	274	338	226	18	—	368	—	2 521	1 894
Farmers and farm managers	31 395	568	517	4 367	261	9 542	2 460	499	167	20	533	—	6 457	8 432
Service workers, except private household	38 515	378	664	484	784	2 229	8 878	1 515	405	460	1 328	—	7 258	12 215
Private household workers	7 556	61	106	66	74	338	820	894	79	317	237	—	1 129	3 062
Unemployed	970	42	9	—	—	19	40	—	139	18	14	—	103	575
Not in labor force	8 745	192	195	162	204	419	685	325	116	112	1 065	—	2 070	2 779
Armed Forces	7 782	284	151	115	161	837	1 061	541	39	50	306	20	1 660	2 235
Not in labor force	32 151	1 200	831	330	315	1 306	1 249	355	190	103	788	—	5 346	23 144
<b>200 247</b>	<b>55 121</b>	<b>14 390</b>	<b>1 577</b>	<b>2 583</b>	<b>16 218</b>	<b>649</b>	<b>5 885</b>	<b>406</b>	<b>106</b>	<b>391</b>	<b>7 825</b>	<b>1 526</b>	<b>689</b>	<b>144 437</b>
Employed in 1970	69 110	8 733	994	1 083	7 967	408	2 984	254	65	87	3 905	735	435	39 590
Professional, technical, and kindred workers	18 230	7 410	141	164	837	33	—	—	—	—	298	—	96	8 991
Managers and administrators, except farm	2 493	257	317	21	239	20	57	42	—	—	127	—	18	3 043
Sales workers	1 381	67	116	413	339	83	294	36	—	—	251	—	8	3 084
Clerical and kindred workers	17 892	739	272	190	5 087	89	108	46	—	22	427	122	89	9 536
Farmers and farm managers	9 871	90	—	93	323	183	2 108	19	43	47	71	41	37	496
Service workers, except private household	626	152	—	—	41	—	—	60	22	—	443	—	175	6 112
Private household workers	133	12	—	—	—	—	—	—	—	—	29	—	—	474
Unemployed	12 134	178	94	131	303	—	—	—	—	—	—	12	—	200
Not in labor force	2 459	864	18	71	74	—	417	51	—	18	2 139	144	13	8 276
Armed Forces	5 89	317	100	115	536	44	377	—	19	37	312	120	27	1 595
Not in labor force	125 380	5 340	483	1 385	7 715	197	2 524	152	22	267	3 608	671	171	3 582

<sup>1</sup>Includes "Occupation not reported" not shown separately.

Table 179. Occupation of Employed Persons by Education, Race, and Sex: 1970

[Data based on sample, see text. For meaning of symbols, see text]

The State	Years of school completed					
	Total	Elementary, 8 years or less	High school		College	
			1 to 3 years	4 years	1 to 3 years	4 years or more
<b>TOTAL</b>						
Male employed, 16 years old and over	2 089 004	350 882	504 049	713 708	263 019	257 346
Professional, technical, and kindred workers	284 817	4 005	12 728	52 034	57 156	158 894
Engineers	53 509	709	2 342	10 159	12 044	28 255
Lawyers and judges	8 707	31	37	170	164	8 305
Life and physical scientists	5 857	61	209	629	904	4 054
Physicians, dentists, and related practitioners	20 639	27	143	449	942	19 078
Health workers, except practitioners	5 795	185	440	1 692	1 644	1 834
Social and recreation workers	4 397	72	200	420	816	2 889
Teachers	51 097	220	519	1 518	3 313	45 527
Technicians, except health	37 962	834	3 439	17 141	12 761	3 787
Writers, artists, and entertainers	21 593	468	2 218	6 689	6 455	5 763
Other professional, technical, and kindred workers	75 261	1 398	3 181	13 167	18 113	39 402
Managers and administrators, except farm	191 993	13 990	26 186	64 938	39 628	47 251
Salaried	158 867	8 274	19 341	52 763	34 210	44 279
Self-employed	41 223	1 733	3 900	12 604	9 418	13 568
Manufacturing	33 404	2 053	5 645	14 278	7 093	4 335
Retail trade	84 240	4 488	9 796	25 881	17 699	26 376
All other industries	33 126	5 716	6 845	12 175	5 418	2 972
Self-employed	16 614	2 818	3 531	6 538	2 485	1 242
Retail trade	16 512	2 898	3 314	5 637	2 933	1 730
All other industries	125 944	8 266	23 585	44 754	29 692	19 647
Manufacturing and wholesale trade	43 756	2 571	7 011	14 621	10 552	9 001
Retail trade	48 841	4 238	12 812	18 458	10 451	2 882
All other industries	33 347	1 457	3 762	11 675	8 689	7 764
Clerical and kindred workers	140 423	11 522	27 694	60 257	29 694	11 256
Bookkeepers and billing clerks	11 593	483	1 258	4 763	3 404	1 685
Mail handlers and postal clerks	16 016	837	3 057	8 726	2 936	460
Other clerical and kindred workers	112 814	10 202	23 379	46 768	23 354	9 111
Craftsmen and kindred workers	479 480	90 930	128 832	203 665	45 094	10 959
Carpenters	27 285	6 830	7 790	10 434	1 865	366
Construction craftsmen, except carpenters	75 501	15 896	20 777	31 745	6 242	841
Automobile mechanics, including body repairmen	45 876	10 266	15 315	17 012	3 028	255
Mechanics and repairmen, except auto	61 452	11 178	16 879	26 613	6 139	643
Machinists	12 866	2 373	3 755	5 611	1 034	93
Metal craftsmen, except mechanics and machinists	83 821	16 052	21 560	36 657	8 480	1 072
Foremen, n.e.c.	76 947	8 872	17 584	34 474	10 402	5 615
Other craftsmen and kindred workers	95 732	19 463	25 172	41 119	7 904	2 074
Operatives, except transport	425 651	108 369	137 352	152 644	23 864	3 422
Assemblers	60 669	14 243	18 896	24 018	3 143	369
Garage workers and gas station attendants	18 941	2 177	10 363	4 740	1 530	131
Laundry and drycleaning operatives, including ironers	3 056	908	1 067	860	178	43
Precision machine operatives	44 262	10 239	13 739	17 642	2 402	240
Other operatives, except transport	298 723	80 802	93 287	105 384	16 611	2 639
Durable goods, manufacturing	215 078	60 130	67 874	74 406	11 063	1 605
Non-durable goods, including not specified manufacturing	39 818	10 375	11 255	15 304	2 430	454
Nonmanufacturing industries	43 827	10 297	14 158	15 674	3 118	580
Transport equipment operatives	116 236	30 114	40 447	38 311	6 564	800
Truck drivers	53 520	15 328	19 521	16 300	2 152	219
Other transport equipment operatives	62 716	14 786	20 926	22 011	4 412	581
Laborers, except farm	119 149	30 493	45 509	33 416	8 692	1 039
Construction laborers	15 638	5 217	4 583	4 658	1 059	121
Freight, stock, and material handlers	55 598	9 560	24 651	16 381	4 605	401
Other laborers, except farm	47 913	15 716	16 275	12 377	3 028	517
Manufacturing industries	21 919	7 981	6 592	6 208	1 017	121
Farmers and farm managers	29 703	11 597	4 761	10 329	2 257	759
Farm laborers and farm foremen	12 810	3 843	5 178	2 907	733	149
Service workers, except private household	161 969	37 419	51 481	50 332	19 577	3 160
Cleaning service workers	63 638	21 971	20 886	15 157	4 941	683
Food service workers	32 706	4 588	16 378	6 456	4 792	492
Health service workers	6 180	504	1 531	2 461	1 444	240
Personal service workers	13 060	2 339	3 645	4 563	2 116	397
Protective service workers	36 443	4 386	6 416	19 116	5 479	1 046
Private household workers	829	334	296	121	68	10
Female employed, 16 years old and over	1 163 826	121 176	260 891	505 710	158 111	117 938
Professional, technical, and kindred workers	217 075	2 778	7 794	29 951	39 289	97 863
Registered nurses	30 936	565	1 541	8 610	15 291	4 929
Health workers, except nurses	13 631	363	893	3 775	3 480	5 120
Teachers, elementary and secondary schools	74 785	242	682	2 363	6 851	64 647
Technicians, except health	3 057	87	412	1 308	830	420
Other professional, technical, and kindred workers	54 666	921	4 266	13 895	12 837	22 747
Managers and administrators, except farm	35 388	3 066	6 297	16 048	5 519	4 458
Salaried	28 451	1 934	4 750	13 057	4 619	4 091
Self-employed	6 937	1 132	1 547	2 991	900	367
Sales workers	94 736	8 782	29 349	43 979	10 419	2 207
Retail trade	81 246	7 873	26 336	37 611	8 041	1 385
Clerical and kindred workers	409 700	11 223	62 732	253 257	72 678	9 810
Bookkeepers and cashiers	80 706	3 027	17 338	47 599	11 471	1 271
Office machine operators	17 814	299	2 017	13 239	2 112	147
Secretaries, stenographers, and typists	149 040	1 445	13 104	97 854	33 189	3 448
Other clerical and kindred workers	162 140	6 452	30 273	94 565	25 906	4 944
Craftsmen and kindred workers	20 334	3 346	5 636	9 120	1 688	544
Operatives, except transport	145 554	33 993	52 756	53 749	4 476	580
Sewers and stitchers	10 455	2 640	3 754	3 666	329	46
Laundry and drycleaning operatives, including ironers	9 085	2 921	3 548	2 360	250	6
Other operatives, except transport	126 014	28 412	45 454	47 723	3 897	528
Durable goods, manufacturing	79 001	17 265	29 398	29 864	2 168	306
Non-durable goods, including not specified manufacturing	29 573	6 703	10 549	11 348	877	96
Nonmanufacturing industries	17 440	4 444	5 507	6 511	852	126
Transport equipment operatives	8 390	1 053	2 747	4 008	548	34
Laborers, except farm	11 814	2 516	3 987	4 593	615	103
Farmers and farm managers	1 925	593	328	750	167	87
Farm laborers and farm foremen	3 282	869	1 031	1 137	199	46
Service workers, except private household	224 888	41 294	77 425	82 891	21 333	1 945
Cleaning service workers	27 324	10 500	9 200	6 708	788	128
Food service workers	91 763	16 285	37 676	30 314	7 108	380
Health service workers	53 402	5 383	14 975	23 839	8 733	472
Practical nurses	12 504	665	1 964	5 986	3 807	82
Personal service workers	30 656	3 333	8 460	14 984	3 340	539
Protective service workers	2 332	245	551	1 187	246	103
Private household workers	30 740	12 263	10 809	6 227	1 180	261

<sup>1</sup>Includes allocated cases not shown separately.

Table 179. Occupation of Employed Persons by Education, Race, and Sex: 1970—Continued

[Data based on sample, see text. For meaning of symbols, see text]

The State	Total	Years of school completed							
		Elementary, 8 years or less	High school		College				
			1 to 3 years	4 years	1 to 3 years	4 years or more			
<b>NEGRO</b>									
Male employed, 16 years old and over	191 581	51 298	59 762	56 330	16 235	7 956			
Professional, technical, and kindred workers	10 114	268	629	1 867	2 378	4 972			
Engineers	698	18	55	136	152	337			
Lawyers and judges	191	—	—	16	—	170			
Life and physical scientists	192	5	4	16	42	125			
Physicians, dentists, and related practitioners	552	—	18	19	16	499			
Health workers, except practitioners	717	22	81	256	209	149			
Social and recreation workers	688	14	28	113	185	348			
Teachers	2 364	36	44	117	256	1 911			
Technicians, except health	987	19	77	393	403	95			
Writers, artists, and entertainers	767	24	128	260	203	152			
Other professional, technical, and kindred workers	2 958	130	189	541	912	1 186			
Managers and administrators, except farm	5 177	647	891	1 459	1 194	986			
Salaried	4 154	345	603	1 193	1 072	941			
Self-employed	409	41	64	132	111	61			
Manufacturing	874	79	171	362	229	33			
Retail trade	2 871	225	368	699	732	847			
All other industries	1 023	302	288	266	122	45			
Self-employed	456	122	150	100	62	22			
Retail trade	567	180	138	166	60	23			
All other industries									
Sales workers	3 734	367	1 011	1 171	893	292			
Manufacturing and wholesale trade	868	149	235	178	204	102			
Retail trade	1 795	197	572	605	355	66			
All other industries	1 071	21	204	388	334	124			
Clerical and kindred workers	12 254	1 150	2 763	4 999	2 794	548			
Bookkeepers and billing clerks	431	14	30	186	167	34			
Mail handlers and postal clerks	2 610	92	411	1 309	697	101			
Other clerical and kindred workers	9 213	1 044	2 322	3 504	1 930	413			
Craftsmen and kindred workers	29 096	7 800	9 002	9 419	2 506	369			
Carpenters	776	245	220	187	81	43			
Construction craftsmen, except carpenters	4 679	1 528	1 300	1 466	336	49			
Automobile mechanics, including body repairmen	4 178	1 109	1 672	1 189	183	25			
Mechanics and repairmen, except auto	3 183	640	972	1 198	350	23			
Machinists	518	94	167	212	33	12			
Metal craftsmen, except mechanics and machinists	4 817	1 435	1 374	1 520	460	28			
Foremen, n.e.c.	3 121	486	830	1 189	498	118			
Other craftsmen and kindred workers	7 824	2 263	2 467	2 458	565	71			
Operatives, except transport	73 563	20 972	25 975	22 917	3 295	404			
Assemblers	16 414	3 882	5 864	5 891	720	57			
Garage workers and gas station attendants	1 167	383	496	242	41	5			
Laundry and drycleaning operatives, including ironers	1 126	412	450	220	34	10			
Precision machine operatives	3 565	887	1 331	1 101	225	21			
Other operatives, except transport	51 291	15 408	17 834	15 463	2 275	311			
Durable goods, manufacturing	43 771	12 913	15 557	13 276	1 770	255			
Nondurable goods, including not specified manufacturing	3 762	1 281	1 142	1 111	201	27			
Nonmanufacturing industries	3 758	1 214	1 135	1 076	304	29			
Transport equipment operatives	13 722	4 372	4 975	3 728	569	78			
Truck drivers	5 141	1 753	1 891	1 296	187	14			
Other transport equipment operatives	8 581	2 619	3 084	2 432	382	64			
Laborers, except farm	19 561	7 548	6 438	4 609	871	95			
Construction laborers	2 868	1 441	794	520	96	17			
Freight, stock, and material handlers	7 153	1 904	2 740	2 044	430	35			
Other laborers, except farm	9 540	4 203	2 904	2 045	345	43			
Manufacturing industries	5 388	2 253	1 690	1 230	194	21			
Farmers and farm managers	161	55	49	29	22	6			
Farm laborers and farm foremen	565	237	191	102	28	7			
Service workers, except private household <sup>1</sup>	23 385	7 757	7 748	6 015	1 666	199			
Cleaning service workers	12 578	5 067	4 229	2 702	525	55			
Food service workers	2 530	586	1 211	554	166	13			
Health service workers	1 322	131	411	547	233	—			
Personal service workers	1 678	434	463	572	173	36			
Protective service workers	2 629	470	550	1 066	467	76			
Private household workers	249	125	90	15	19	—			
Female employed, 16 years old and over	133 920	20 365	37 027	52 169	15 922	8 437			
Professional, technical, and kindred workers	15 037	254	1 282	3 546	3 085	6 870			
Registered nurses	2 377	52	300	984	707	334			
Health workers, except nurses	1 808	69	287	784	345	323			
Teachers, elementary and secondary schools	5 909	53	169	382	598	4 707			
Technicians, except health	194	14	14	95	68	3			
Other professional, technical, and kindred workers	4 749	66	512	1 301	1 367	1 503			
Managers and administrators, except farm	2 350	224	518	850	432	326			
Salaried	1 991	175	401	724	382	309			
Self-employed	359	49	117	126	50	17			
Sales workers	5 131	416	1 411	2 558	630	116			
Retail trade	4 399	351	1 261	2 247	483	57			
Clerical and kindred workers	37 915	1 128	6 779	21 383	7 968	657			
Bookkeepers and cashiers	4 629	167	1 000	2 483	907	72			
Office machine operators	2 535	24	208	1 783	504	16			
Secretaries, stenographers, and typists	9 644	146	1 074	5 630	2 644	150			
Other clerical and kindred workers	21 107	791	4 497	11 487	3 913	419			
Craftsmen and kindred workers	1 863	278	595	774	168	48			
Operatives, except transport	20 355	4 048	7 900	7 264	1 032	111			
Sewers and stitchers	1 231	131	494	517	78	11			
Laundry and drycleaning operatives, including ironers	3 666	1 241	1 460	882	83	—			
Other operatives, except transport	15 458	2 676	5 946	5 865	871	100			
Durable goods, manufacturing	9 915	1 549	3 765	3 962	568	71			
Nondurable goods, including not specified manufacturing	2 987	472	1 240	971	172	12			
Nonmanufacturing industries	2 656	655	921	932	131	17			
Transport equipment operatives	2 567	104	243	173	47	—			
Laborers, except farm	2 097	437	769	779	94	18			
Farmers and farm managers	168	51	29	77	9	11			
Farm laborers and farm foremen	322	90	124	94	—	—			
Service workers, except private household <sup>1</sup>	37 313	7 609	14 057	13 104	2 295	248			
Cleaning service workers	7 615	2 644	3 074	1 701	182	14			
Food service workers	8 914	1 874	3 929	2 678	404	29			
Health service workers	12 847	1 251	4 164	6 096	1 256	80			
Practical nurses	2 656	73	445	1 598	514	26			
Personal service workers	3 458	487	1 323	1 301	288	59			
Protective service workers	422	58	112	190	46	16			
Private household workers	10 802	5 726	3 320	1 567	157	32			

<sup>1</sup>Includes allocated cases not shown separately.

Table 179. Occupation of Employed Persons by Education, Race, and Sex: 1970—Continued

[Data based on sample, see text. For meaning of symbols, see text]

The State	Total	Years of school completed				
		Elementary, 8 years or less	High school		College	
			1 to 3 years	4 years	1 to 3 years	4 years or more
<b>PERSONS OF SPANISH LANGUAGE</b>						
<b>Male employed, 16 years old and over</b>						
Professional, technical, and kindred workers	2 841	53	163	378	558	1 689
Engineers	474	—	33	48	103	290
Lawyers and judges	21	—	—	—	—	21
Life and physical scientists	32	—	—	—	8	24
Physicians, dentists, and related practitioners	518	—	—	6	—	512
Health workers, except practitioners	114	—	19	24	37	34
Social and recreation workers	42	6	12	—	5	19
Teachers	415	14	6	14	61	320
Technicians, except health	390	9	47	165	121	48
Writers, artists, and entertainers	276	11	33	56	76	100
Other professional, technical, and kindred workers	559	13	13	65	147	321
Managers and administrators, except farm	1 228	183	122	398	304	221
Salaried	988	88	105	314	260	221
Manufacturing	191	11	13	66	62	39
Retail trade	272	30	51	106	69	16
All other industries	525	47	41	142	129	166
Self-employed	240	95	17	84	44	—
Retail trade	176	76	17	69	14	—
All other industries	64	19	—	15	30	—
Sales workers	822	78	151	311	163	119
Manufacturing and wholesale trade	297	60	25	135	50	7
Retail trade	272	12	100	106	46	—
All other industries	253	6	26	70	66	85
Clerical and kindred workers	1 387	200	333	531	236	87
Bookkeepers and billing clerks	46	—	35	37	9	—
Mail handlers and postal clerks	97	4	—	—	12	—
Other clerical and kindred workers	1 244	196	298	448	215	87
Craftsmen and kindred workers	4 771	1 574	1 093	1 569	468	67
Carpenters	199	117	30	44	8	—
Construction craftsmen, except carpenters	684	185	174	251	62	12
Automobile mechanics, including body repairmen	540	240	139	132	23	6
Mechanics and repairmen, except auto	665	155	163	250	97	—
Machinists	91	26	24	9	9	—
Metal craftsmen, except mechanics and machinists	967	288	219	348	97	15
Foremen, n.e.c.	546	166	102	161	93	24
Other craftsmen and kindred workers	1 079	397	242	351	79	10
Operatives, except transport	8 010	3 543	2 315	1 775	343	34
Assemblers	1 717	718	483	448	55	13
Garage workers and gas station attendants	158	30	82	34	12	—
Laundry and drycleaning operatives, including ironers	39	13	18	8	—	—
Precision machine operatives	650	280	158	199	13	—
Other operatives, except transport	5 446	2 502	1 574	1 086	263	21
Durable goods, manufacturing	4 122	1 900	1 193	845	171	13
Nondurable goods, including not specified manufacturing	699	336	186	139	38	—
Nonmanufacturing industries	625	266	195	102	54	8
Transport equipment operatives	1 414	538	451	348	62	15
Truck drivers	631	220	209	186	16	—
Other transport equipment operatives	783	318	242	162	46	15
Laborers, except farm	2 332	1 073	751	378	110	20
Construction laborers	406	204	138	44	20	—
Freight, stock, and material handlers	828	260	307	214	32	15
Other laborers, except farm	1 098	609	306	120	58	5
Manufacturing industries	757	416	213	82	46	—
Farmers and farm managers	105	81	17	7	—	—
Farm laborers and farm foremen	536	399	64	65	8	—
Service workers, except private household <sup>1</sup>	2 093	798	598	469	198	30
Cleaning service workers	1 005	579	266	130	23	7
Food service workers	521	130	184	134	66	7
Health service workers	38	—	8	15	9	6
Personal service workers	154	14	38	63	39	—
Protective service workers	260	14	64	120	52	10
Private household workers	6	—	—	6	—	—
<b>Female employed, 16 years old and over</b>	<b>11 750</b>	<b>2 552</b>	<b>2 795</b>	<b>4 142</b>	<b>1 310</b>	<b>951</b>
Professional, technical, and kindred workers	1 382	29	119	204	256	774
Registered nurses	241	—	—	47	112	82
Health workers, except nurses	189	8	7	53	19	102
Teachers, elementary and secondary schools	409	—	10	7	45	347
Technicians, except health	29	6	—	—	5	18
Other professional, technical, and kindred workers	514	15	102	97	75	225
Managers and administrators, except farm	279	12	47	142	49	29
Salaried	222	5	22	133	40	22
Self-employed	57	7	25	9	9	7
Sales workers	735	100	296	233	87	19
Retail trade	619	88	260	206	52	13
Clerical and kindred workers	3 651	91	644	2 149	687	80
Bookkeepers and cashiers	622	36	148	367	64	7
Office machine operators	197	—	29	145	16	7
Secretaries, stenographers, and typists	1 291	12	94	778	375	32
Other clerical and kindred workers	1 541	43	373	859	232	34
Craftsmen and kindred workers	247	49	77	105	11	5
Operatives, except transport	2 365	1 084	645	574	45	17
Sewers and stitchers	212	120	40	45	7	—
Laundry and drycleaning operatives, including ironers	167	111	43	7	6	—
Other operatives, except transport	1 986	853	562	522	32	17
Durable goods, manufacturing	971	335	300	301	18	17
Nondurable goods, including not specified manufacturing	656	339	169	134	14	—
Nonmanufacturing industries	359	179	93	87	—	—
Transport equipment operatives	61	24	19	13	5	—
Laborers, except farm	103	56	27	20	—	—
Farmers and farm managers	6	6	—	—	—	—
Farm laborers and farm foremen	130	89	33	—	—	8
Service workers, except private household <sup>1</sup>	2 570	933	787	673	163	14
Cleaning service workers	378	259	78	33	8	—
Food service workers	1 089	402	404	233	50	—
Health service workers	534	109	174	176	75	—
Practical nurses	97	—	29	49	19	—
Personal service workers	400	56	95	211	24	14
Protective service workers	8	—	8	—	—	—
Private household workers	221	79	101	29	7	5

<sup>1</sup>Includes allocated cases not shown separately.



Table 180. Occupation of Employed Persons by Industry Group and Sex: 1970—Continued

(Data based on sample, see text. For meaning of symbols, see text)

	Persons 16 years old and over	Agriculture, forestry, and fisheries	Mining	Construction	Manufacturing					Total	Machinery, except electrical	Electrical machinery, equipment, and supplies
					Durable goods							
					Furniture, lumber, and wood products	Stone, clay, and glass products	Primary ferrous industries	Primary nonferrous industries	Fabricated metal industries, including not specified metal			
<b>THE STATE—Continued</b>												
<b>Total employed—Continued</b>												
Transport equipment operatives	124 526	468	1 040	6 440	39 322	1 284	1 865	1 977	611	2 624	2 516	602
Deliverymen and route men	26 266	101	33	306	5 858	163	200	87	11	237	219	34
Truck drivers	34 213	296	803	5 293	14 310	470	330	901	216	890	1 065	231
Other transport equipment operatives	44 125	71	204	841	18 754	451	333	989	384	1 497	1 232	337
<b>Laborers, except farm</b>	130 963	3 804	692	16 119	46 588	3 728	1 269	4 900	726	3 437	3 208	931
Freight, stock, and material handlers	62 007	48	365	440	21 228	1 079	628	1 439	285	1 933	1 507	507
Other specified laborers	44 122	3 634	162	15 629	9 554	2 075	656	556	162	1 933	631	91
Miscellaneous laborers	8 596	83	77	4 911	153	98	186	1 846	14	530	219	52
Not specified laborers	16 238	39	88	38	10 495	326	410	1 629	228	707	919	281
<b>Farm workers</b>	47 720	47 720	—	—	—	—	—	—	—	—	—	—
<b>Service workers, including private household</b>	418 426	395	328	1 549	34 213	750	539	1 687	466	2 041	3 306	819
Cleaning service workers	90 962	177	249	1 024	22 111	521	409	1 247	309	1 543	2 585	515
Personal service workers	43 716	36	—	673	6 084	16	4	8	9	4	61	74
Guards and watchmen	14 365	43	59	141	6 084	124	89	332	100	303	507	150
Other service workers, including private household	269 383	161	20	348	5 345	89	37	100	48	191	243	130
<b>Female employed</b>	1 163 826	8 044	936	9 998	221 811	7 519	4 102	4 223	3 902	18 202	23 952	13 612
<b>Professionals, technical, and kindred workers</b>	177 075	216	15	278	8 318	92	114	172	87	352	929	366
Accountants	6 931	11	6	117	1 437	29	19	12	30	129	79	303
Computer specialists	1 612	—	5	—	599	5	5	25	6	116	12	28
Life and physical scientists	—	15	—	—	392	—	6	4	—	6	6	11
Registered nurses, dietitians, and therapists	34 595	18	—	—	1 118	19	18	56	16	63	146	12
Social scientists	—	684	—	—	110	—	5	—	—	5	9	10
Writers, artists, and entertainers	7 309	78	—	31	1 725	10	6	—	5	14	68	26
Other professional, technical, and kindred workers	124 998	94	4	121	2 937	29	55	69	30	123	281	200
<b>Managers and administrators, except farm</b>	35 388	55	12	466	2 356	94	68	78	39	240	450	72
Salaried	28 451	29	12	316	2 110	89	51	78	39	232	414	67
Self-employed	6 937	26	—	150	246	5	17	—	—	8	36	5
<b>Sales workers</b>	94 736	130	16	170	1 932	38	9	—	28	40	74	34
<b>Clerical and kindred workers</b>	409 700	1 307	683	7 083	71 799	2 410	1 207	1 774	1 009	5 142	10 421	3 321
Bookkeepers	46 239	417	118	2 049	7 959	512	239	219	139	849	1 284	334
Cashiers	32 427	49	—	—	384	15	15	24	—	5	5	5
Counter clerks, except food	7 486	4	3	—	819	35	11	5	—	10	84	51
File clerks	17 119	18	13	113	2 084	55	19	10	27	99	412	79
Office machine operators	2 324	20	53	108	5 819	115	78	207	78	282	787	250
Bookkeeping and billing machine operators	13 285	3	17	13	1 222	57	15	25	24	51	67	22
Receptionists	104 691	180	234	1 800	25 598	401	205	46	24	107	223	76
Secretaries	3 640	316	28	2 851	872	87	41	569	368	1 888	4 158	1 410
Stenographers	39 309	5	4	34	8 556	214	132	230	106	23	1 377	32
Typists	130 250	238	156	1 065	18 113	577	253	414	261	1 247	1 954	383
Other clerical and kindred workers	—	—	—	—	—	—	—	—	—	—	—	701
<b>Craftsmen and kindred workers</b>	20 334	82	36	1 179	9 746	569	128	342	228	584	915	512
Foremen, n.e.c.	3 718	7	11	78	1 529	60	29	39	53	97	114	86
<b>Operatives, except transport</b>	145 554	247	134	189	117 971	3 916	2 386	1 575	2 329	10 765	16 458	8 955
Assemblers	27 035	5	—	26	26 452	238	238	337	337	1 998	2 919	3 919
Checkers, examiners, and inspectors; manufacturing	12 880	—	—	—	12 880	220	636	326	387	1 070	1 798	985
Packers and wrappers, except meat and produce	94 095	100	134	163	8 258	176	166	40	40	517	2 287	264
Other operatives, except transport	—	—	—	—	70 281	2 648	1 326	974	1 474	7 180	5 454	3 787
<b>Transport equipment operatives</b>	8 390	—	14	75	693	5	14	21	6	57	8	10
<b>Laborers, except farm</b>	11 814	632	—	234	4 453	233	100	134	127	786	274	167
<b>Farm workers</b>	5 207	5 207	—	—	—	—	—	—	—	—	—	—
<b>Service workers, including private household</b>	255 628	168	26	324	4 643	162	76	127	49	236	423	175
Cleaning service workers	27 324	64	16	251	2 412	105	63	86	42	152	290	80
Personal service workers	30 656	14	7	7	1 985	6	—	—	—	—	13	5
Other service workers, including private household	197 648	90	10	66	—	51	13	41	7	84	120	90



Table 180. Occupation of Employed Persons by Industry Group and Sex: 1970 - Continued

[Data based on sample, see text. For meaning of symbols, see text.]

The State Standard Metropolitan Statistical Areas of 250,000 or More	Manufacturing - Continued												
	Durable goods - Continued					Nondurable goods							
	Motor vehicles and motor vehicle equipment	Aircraft and parts	Other transportation equipment	Ordnance	Other durable goods	Food and kindred products	Textile mill products	Apparel and other fabricated textile products	Paper and allied products	Printing, publishing, and allied industries	Chemicals and allied products	Rubber and miscellaneous plastic products	Other nondurable goods, incl. not specified manufacturing
<b>THE STATE</b>	<b>435 085</b>	<b>7 338</b>	<b>11 356</b>	<b>3 910</b>	<b>79 173</b>	<b>41 836</b>	<b>2 834</b>	<b>11 710</b>	<b>27 531</b>	<b>39 911</b>	<b>39 629</b>	<b>22 183</b>	<b>29 732</b>
Total employed													
Professional, technical, and kindred workers	48 181	1 113	974	988	5 798	1 702	182	333	1 301	4 611	8 245	1 550	3 056
Accountants	4 580	99	106	67	319	280	39	68	180	234	456	224	232
Architects	102	20	15	26	123	5	6	—	9	5	17	—	—
Computer specialists	2 347	524	401	444	1 373	86	54	95	278	53	245	20	100
Engineers	18 292	524	401	444	1 373	261	11	—	16	53	1 971	82	621
Chemical	220	—	7	—	10	10	—	—	—	—	—	—	247
Civil	1 269	5	6	6	230	—	—	—	—	—	—	—	30
Electrical and electronic	4 320	156	50	63	1 030	25	8	49	81	35	164	12	30
Industrial	4 320	156	50	63	1 030	25	8	49	81	35	164	12	30
Mechanical	10 217	73	230	135	213	22	14	16	28	9	128	99	95
Other engineers	2 166	271	56	142	634	89	21	30	115	3	223	285	153
Mathematical specialists	385	—	—	—	15	6	—	—	—	—	32	—	11
Life and physical scientists	642	15	6	68	78	102	—	—	68	3	1 056	65	298
Chemists	582	10	6	63	47	82	—	—	31	3	1 416	88	265
Personnel and labor relations workers	2 570	25	32	48	139	179	14	31	106	62	1 305	89	97
Social scientists	1 420	14	20	19	36	73	5	16	16	21	158	21	22
Engineering and science technicians	10 211	264	215	143	671	398	41	36	40	87	2 308	375	607
Draftsmen	5 904	95	167	15	322	69	11	8	50	23	1 093	15	120
Electrical and electronic engineering technicians	334	34	5	15	127	7	4	10	9	13	23	42	14
Industrial and mechanical engineering technicians	2 019	48	—	14	18	30	5	9	5	9	52	21	21
Technicians, except health, and engineering and science	1 174	34	—	11	206	15	13	50	76	3 951	227	24	86
Writers, artists, and entertainers	4 410	64	192	71	306	87	—	—	—	143	1 034	88	961
Other professional, technical, and kindred workers	3 076	34	52	92	2 713	210	5	32	149	—	—	—	—
Managers and administrators, except farm	9 065	434	600	240	2 925	2 580	139	428	1 014	2 965	2 648	1 167	1 179
Buyers, purchasing agents, and sales managers	2 118	61	175	72	365	553	32	58	202	815	607	185	171
Other managers and administrators	6 947	373	425	168	2 560	2 027	107	370	812	2 150	2 041	982	1 008
Salaried	6 892	368	370	163	2 200	1 853	93	306	782	1 708	1 976	910	935
Self-employed	55	5	5	5	360	174	14	64	30	442	676	72	73
Sales workers	1 592	59	175	34	1 598	1 620	173	463	648	5 106	1 981	462	1 791
Clerical and kindred workers	44 447	922	912	604	7 500	4 140	239	1 058	2 957	7 985	6 296	2 435	3 022
Bookkeepers	2 868	90	114	52	495	876	21	168	333	902	606	283	296
Cashiers	238	10	—	—	34	80	—	5	—	18	20	5	—
Estimators and investigators, n.e.c.	830	15	10	6	42	41	5	88	—	78	65	16	41
Office machine operators	3 891	55	32	63	222	226	18	86	149	418	406	198	207
Shipping and receiving clerks	2 967	43	74	10	379	452	37	160	361	322	533	340	191
Stock clerks and storekeepers	5 642	62	147	59	238	2 179	26	115	217	84	317	189	133
Other clerical and kindred workers	28 011	647	535	414	6 090	2 186	132	520	1 809	6 126	4 349	1 404	3 040
Craftsmen and kindred workers	101 375	1 272	3 556	796	15 465	6 695	382	1 326	5 406	12 169	6 468	2 964	4 205
Blacksmiths, forgers, hammermen, and boilermakers	24	5	15	10	24	9	—	—	33	21	54	4	38
Brickmasons and stonemasons	924	—	—	—	8	—	—	—	—	—	12	—	5
Carpenters	671	—	914	42	151	42	10	14	53	11	236	11	58
Cranemen, derrickmen, and hoistmen	2 205	6	269	28	31	41	—	50	78	52	35	5	29
Electricians	5 221	35	10	45	66	222	10	30	330	52	415	133	144
Excavating, grading, and road machine operators	267	—	—	—	11	83	—	11	70	6	41	—	—
Foremen, n.e.c.	22 453	286	599	232	1 287	2 000	172	535	1 664	1 134	2 288	1 250	898
Mechanics and repairmen	24 385	219	378	139	816	1 740	86	258	1 186	321	1 582	686	569
Mechanics and kindred workers	13 637	17	83	11	93	218	9	32	32	64	100	9	51
Machinists, job setters, and toolmakers	26 061	533	152	160	789	200	24	135	342	64	371	450	261
Metal craftsmen, except mechanics and machinists	10 270	140	239	22	1 253	222	11	46	333	25	254	120	110
Painters, construction and maintenance, and plasterers and paperhangers	1 284	13	127	4	74	52	4	11	43	58	103	70	53
Plumbers and pipe fitters	3 331	16	201	20	55	108	—	24	222	37	357	89	187
Printing craftsmen	320	—	16	23	78	123	2	5	184	10 316	166	27	118
Stationary engineers and power station operators	911	—	—	—	4	225	—	—	—	20	—	—	—
Other craftsmen and kindred workers	3 229	15	632	20	10 787	1 646	51	228	114	81	213	78	1 591
Operatives, except transport	185 061	3 147	3 893	1 054	37 327	15 596	1 459	7 329	12 833	4 889	9 922	11 854	12 500
Assemblers	54 478	542	904	131	2 720	293	52	371	371	107	341	1 076	572
Checkers, examiners, and inspectors; manufacturing	25 119	536	178	167	766	936	95	515	749	378	853	1 176	1 603
Filers, polishers, sanders, and buffers	4 878	131	10	20	452	5	—	13	39	22	30	64	42
Painters, manufactured articles	3 366	19	132	10	276	5	—	9	13	6	191	230	86
Precision machine operatives	15 574	794	127	115	791	65	16	19	111	18	120	188	158
Welders and flamecutters	15 608	907	664	97	497	107	8	24	141	19	247	115	371
Other specified operatives	29 648	109	764	92	28 073	8 452	1 288	5 151	3 558	1 139	2 592	1 674	6 846
Machine operatives, miscellaneous specified	10 648	215	215	231	1 437	3 064	—	526	1 444	631	2 743	5 114	2 237
Machine operatives, not specified	12 894	276	91	152	482	3 905	—	139	1 372	736	1 099	1 099	1 747
Miscellaneous operatives	4 226	88	457	37	1 014	1 047	—	235	1 972	773	805	687	600
Not specified operatives	4 226	105	291	22	619	892	—	138	363	70	603	422	362

Table 180. Occupation of Employed Persons by Industry Group and Sex: 1970 - Continued

[Data based on sample, see text. For meaning of symbols, see text.]

The State  
Standard Metropolitan Statistical Areas  
of 250,000 or More

THE STATE - Continued

Total employed - Continued

	Durable goods - Continued					Manufacturing - Continued					Nondurable goods					Other nondurable goods, incl. not specified manufacturing
	Motor vehicles and motor vehicle equipment	Aircraft and parts	Other transportation equipment	Ordnance	Other durable goods	Food and kindred products	Textile mill products	Apparel and other fabricated textile products	Paper and allied products	Printing, publishing, and allied industries	Chemicals and allied products	Rubber and miscellaneous plastic products				
Deliverymen and routemen	14 938	99	310	49	2 491	5 127	108	163	1 242	888	1 130	460	838			
Truck drivers	5 549	15	57	24	1 169	3 105	34	20	1 200	528	1 163	75	94			
Other transport equipment operatives	5 714	32	184	25	1 478	1 836	74	86	405	297	578	194	249			
	8 675		69		1 844	866			717	68	389	191	495			
Laborers, except farm	15 314	96	527	81	3 358	2 807	115	387	1 482	664	1 459	815	1 284			
Freight, stock, and material handlers	9 008	42	167	56	413	1 568	68	280	890	444	700	439	313			
Other specified laborers	2 013	11	125	6	2 527	1 308	32	26	211	35	204	66	625			
Miscellaneous laborers	1 327	5	18	41	1 233	1 162	15	75	46	141	55	89	51			
Not specified laborers	2 966	38	217	19	2 955	769			335	144	410	217	295			
Farm workers	-	-	-	-	-	-	-	-	-	-	-	-	-			
Service workers, including private household	15 012	196	409	134	2 710	1 569	37	223	648	674	1 480	476	947			
Cleaning service workers	9 819	108	272	77	1 054	1 054	27	148	508	523	988	354	433			
Personal service workers	3 403	77	101	35	1 110	39	5	5	16	7	56	8	23			
Guards and watchmen	1 464	6	36	22	1 872	141	5	56	109	68	250	63	61			
Other service workers, including private household	56 702	1 557	1 483	575	17 999	11 527	1 151	7 446	6 075	14 491	8 929	8 632	9 732			
Female employed	1 884	55	47	30	397	310	34	88	166	1 579	1 152	125	339			
Professional, technical, and kindred workers	1 381	11	11	5	50	40	5	43	60	106	106	16	16			
Computer specialists	272	10	5	1	27	16	9	-	8	8	37	6	21			
Life and physical scientists	562	-	6	14	23	21	-	14	37	5	306	5	4			
Registered nurses, dietitians, and therapists	93	-	6	6	-	10	-	-	6	-	68	5	33			
Social scientists	93	-	6	6	-	24	-	-	6	-	15	6	7			
Writers, artists, and entertainers	513	34	19	5	262	214	21	37	55	1 358	574	60	258			
Other professional, technical, and kindred workers	151	18	55	-	239	164	6	76	26	341	92	82	65			
Managers and administrators, except farm	131	18	50	-	194	154	6	50	26	287	83	61	60			
Salaried	-	-	5	-	45	10	-	26	-	54	9	21	5			
Self-employed	56	4	-	13	133	334	22	116	48	761	62	11	149			
Sales workers	20 132	578	515	381	4 603	2 761	156	596	1 832	6 318	4 243	1 603	2 817			
Clerical and kindred workers	1 168	56	71	27	363	672	11	138	198	809	417	235	218			
Bookkeepers	1 179	10	-	-	25	46	-	5	48	18	20	9	72			
Cashiers	808	5	-	9	33	28	8	8	40	309	94	58	26			
Counter clerks, except food	2 528	18	8	9	54	68	14	23	106	622	95	33	141			
File clerks	44	41	32	9	147	180	14	55	5	332	287	150	141			
Office machine operators	195	9	-	-	27	13	-	-	5	40	32	7	4			
Bookkeeping and billing machine operators	7 962	212	20	164	1 125	49	-	12	57	146	84	35	18			
Receptionists	854	22	17	6	11	755	53	170	576	1 243	1 922	589	783			
Secretaries	2 625	78	52	76	315	148	6	69	169	29	80	18	27			
Stenographers	3 718	127	100	70	2 489	784	36	116	627	1 151	520	108	189			
Typists	1 491	50	174	25	616	577	48	254	151	2 066	230	218	428			
Other clerical and kindred workers	246	8	9	4	64	165	14	130	25	143	111	84	48			
Foremen, n.e.c.	29 896	832	621	125	11 057	6 705	867	6 146	3 618	3 100	2 668	6 330	5 522			
Operatives, except transport	11 612	232	153	5	1 507	1 588	42	523	285	194	855	855	273			
Assemblers	3 320	189	26	21	301	652	68	318	434	341	518	679	518			
Checkers, examiners, and inspectors; manufacturing	9 61	5	18	-	314	3 494	24	152	584	175	554	289	107			
Pickers and wrappers, except meat and produce	14 003	406	424	99	8 935	2 401	733	5 153	2 315	2 509	1 329	4 507	4 624			
Transport equipment operatives	281	-	3	-	38	71	-	-	45	106	11	17	-			
Laborers, except farm	811	-	34	9	461	341	10	141	125	131	169	148	252			
Farm workers	1 800	20	34	12	455	264	8	29	64	149	302	98	160			
Service workers, including private household	955	9	24	6	72	77	5	16	52	110	154	57	59			
Personal service workers	108	5	-	-	44	17	-	5	6	9	19	4	9			
Other service workers, including private household	737	10	10	6	339	170	-	8	6	39	129	37	92			

Table 180. Occupation of Employed Persons by Industry Group and Sex: 1970—Continued

(Data based on sample, see text. For meaning of symbols, see text)

THE STATE	Total employed	Railroads and railway express service	Trucking service and warehousing	Other transportation	Communi- cations	Utilities and sanitary services	Wholesale trade	Retail trade				Insurance	Finance and real estate	
								General merchandise retailing	Food stores	Automotive dealers and gasoline stations	Enting and drinking places			Other retail trade
Accountants	549	19 903	40 107	26 421	38 119	45 758	119 197	87 864	80 721	70 747	105 625	168 442	44 854	85 610
Architects	166	508	1 037	1 037	4 688	4 474	5 553	1 718	574	568	955	7 120	2 014	3 345
Computer specialists	13	185	221	120	530	8	4	318	120	287	95	541	11	1 442
Engineers	42	44	5	5	139	184	424	44	44	4	5	98	271	463
Chemical	160	46	134	134	1 454	1 434	1 896	102	41	54	11	264	296	78
Civil	63	4	4	50	59	56	37	11	10	10	24	11	—	14
Electrical and electronic	15	4	5	180	74	61	5	6	10	10	—	21	24	5
Industrial	20	21	20	1 294	61	74	4	5	16	7	—	21	242	27
Mechanical	35	11	109	33	185	195	108	21	5	5	—	50	—	5
Other engineers	27	10	—	77	35	181	1 433	148	11	32	11	27	25	27
Mathematical specialists	5	—	—	19	35	—	35	5	—	11	—	11	77	11
Life and physical scientists	—	—	—	15	71	88	113	14	5	38	—	38	4	—
Chemists	—	—	—	4	71	71	113	14	5	20	—	20	4	—
Personnel and labor relations workers	66	121	80	360	471	268	398	471	122	7	114	267	232	350
Social scientists	6	5	5	10	45	130	192	10	17	17	—	27	20	147
Engineering and science technicians	47	3	43	629	78	836	430	78	10	30	4	218	10	65
Draftsmen	17	3	—	153	41	429	169	41	5	5	—	143	11	47
Electrical and electronic engineering technicians	3	3	6	445	191	191	82	37	—	11	4	35	—	5
Industrial and mechanical engineering technicians	5	3	4	5	5	—	28	—	—	—	—	—	—	—
Technicians, except health, and engineering and science	41	41	41	498	185	159	72	11	26	34	—	34	4	29
Writers, artists, and entertainers	9	29	53	1 419	299	538	443	407	67	75	691	206	75	206
Other professional, technical, and kindred workers	48	34	91	185	576	—	576	201	148	61	35	4 922	334	521
Managers and administrators, except farm	2 314	2 305	1 918	2 632	1 981	1 981	15 675	9 156	10 626	11 951	10 313	21 501	3 750	15 228
Buyers, purchasing agents, and sales managers	52	132	115	139	160	191	4 448	4 540	2 169	1 200	4 499	500	500	469
Other managers and administrators	2 462	2 173	1 803	2 493	1 821	1 821	11 227	4 616	8 457	10 751	10 122	17 002	3 250	14 759
Salaried	—	1 785	1 578	2 462	3 919	5 298	4 724	3 919	4 724	6 233	5 298	10 897	3 071	13 796
Self-employed	—	388	225	31	59	59	1 785	697	3 783	4 518	4 824	6 105	179	963
Sales workers	140	523	337	817	692	692	24 852	40 879	12 313	10 963	1 390	46 536	15 619	15 631
Clerical and kindred workers	4 238	6 474	4 989	17 366	10 116	10 116	26 955	19 829	21 016	6 767	5 074	28 450	22 405	42 774
Bookkeepers	425	747	339	724	836	836	4 803	3 346	1 529	3 003	3 357	6 893	1 197	5 737
Cashiers	14	101	127	90	160	160	315	5 779	15 272	4 893	4 893	4 893	1 033	5 074
Estimators and investigators, n.e.c.	137	178	10	369	491	491	1 376	620	1 376	98	47	364	1 033	2 971
Office machine operators	502	274	79	389	282	282	2 799	2 799	2 281	69	19	244	98	2 971
Shipping and receiving clerks	154	896	177	23	52	52	2 999	2 999	2 281	69	19	244	98	2 971
Stock clerks and storekeepers	215	218	43	177	395	395	1 869	1 210	1 210	265	40	1 194	86	84
Other clerical and kindred workers	2 791	4 060	4 214	15 454	7 700	7 700	15 471	8 428	2 237	2 836	842	14 186	18 966	31 933
Craftsmen and kindred workers	6 268	3 556	2 496	11 408	16 526	16 526	11 808	4 445	3 490	16 558	645	16 166	403	1 478
Blacksmiths, forgemen, hammermen, and boilermakers	52	—	13	7	9	9	9	6	6	4	—	10	7	7
Brickmasons and Stonemasons	—	—	4	—	—	—	—	—	—	—	—	—	—	—
Carpenters	120	23	64	—	94	94	220	80	47	107	39	558	12	206
Craftsmen, derrickmen, and hoistmen	36	—	49	—	101	101	546	39	11	20	10	214	4	—
Electricians	219	16	50	20	814	814	252	35	805	409	5	1 489	—	74
Electric, grading, and road machine operators	35	893	42	86	360	360	3 142	1 253	805	409	127	1 489	154	271
Foremen	1 802	1 933	1 700	295	3 837	3 837	1 846	337	15 360	14 719	117	4 898	24	144
Mechanics and repairmen	1 802	1 762	682	112	311	311	1 072	397	160	335	18	4 898	10	20
Automobile including body	174	24	24	—	143	143	348	36	—	115	5	75	—	21
Machinists, job setters, and toolmakers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Metal craftsmen, except mechanics and machinists	43	38	19	—	43	43	221	24	—	110	—	151	—	—
Painters, construction and maintenance, and plasterers and paperhangers	44	33	41	—	106	106	116	44	18	97	25	133	24	403
Plumbers and pipe fitters	73	14	15	165	456	456	141	10	5	37	5	559	4	25
Printing craftsmen	—	21	16	38	18	18	84	93	16	—	—	45	57	84
Stationary engineers and power station operators	40	48	62	40	2 633	2 633	90	31	5	—	—	138	31	64
Other craftsmen and kindred workers	3 016	369	134	9 975	4 974	4 974	2 060	973	2 239	362	308	7 813	119	295
Operators, except transport	720	746	1 294	237	2 110	2 110	10 391	1 635	10 885	19 523	317	6 175	118	378
Assemblers	4	12	9	5	44	44	530	25	20	79	10	209	5	12
Checkers, examiners, and inspectors; manufacturing	—	—	9	—	17	17	—	5	4	—	—	—	—	6
Filers, polishers, sanders, and buffers	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Painters; manufactured articles	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Precision machine operators	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Welders and flame cutters	10	5	23	5	37	37	227	49	17	20	—	68	—	17
Other specified operators	223	95	93	6	228	228	700	75	17	75	—	216	—	12
Machine operators, miscellaneous specified	173	403	715	62	1 011	1 011	5 774	1 315	9 882	18 466	210	4 807	63	140
Machine operators, not specified	59	49	25	25	171	171	1 059	54	204	156	56	368	11	26
Miscellaneous operatives	131	140	458	115	347	347	602	45	44	108	16	108	16	95
Not specified operatives	77	10	—	—	60	60	327	85	208	95	41	237	23	33

Table 180. Occupation of Employed Persons by Industry Group and Sex: 1970—Continued

[Data based on sample, see text. For meaning of symbols, see text.]

The State  
Standard Metropolitan Statistical Areas  
of 250,000 or More

THE STATE—Continued

Total employed—Continued

Occupation	Railroads and railway express service	Trucking service and warehousing	Other transportation	Communications	Utilities and sanitary services	Wholesale trade	General merchandise retailing	Food stores	Automotive dealers and gasoline stations	Eating and drinking places	Other retail trade	Insurance	Finance and real estate
Deliverymen and roustabouts	3 282	21 838	12 328	165	3 749	14 124	1 707	1 962	1 723	1 112	6 500	46	241
Truck drivers	42	1 945	99	62	144	7 185	1 362	1 208	710	908	3 659	10	50
Other transport equipment operatives	147	19 169	342	68	1 475	5 225	212	470	2 115	123	2 175	21	109
Lebaners, except farm	3 093	11 887	11 887	35	2 130	1 714	133	284	306	81	726	15	82
Freight, stock, and material handlers	1 595	3 718	978	172	4 578	8 281	3 546	17 360	1 851	382	6 931	24	1 330
Other specified laborers	265	3 368	560	60	2 136	5 965	3 352	16 941	341	181	3 906	5	53
Miscellaneous laborers	72	3 129	226	41	1 354	870	85	125	1 218	34	2 111	11	1 009
Not specified laborers	975	63	33	4	758	542	14	24	34	24	236	8	133
Farm workers	213	158	159	67	330	904	95	279	258	143	678	—	135
Service workers, including private household	—	—	—	—	—	—	—	—	—	—	—	—	—
Cleaning service workers	667	439	1 004	634	1 532	2 218	4 839	2 489	843	85 437	11 153	445	5 205
Personal service workers	218	276	316	464	1 477	1 477	1 255	844	705	2 198	1 743	353	3 813
Board and watchmen	84	298	298	41	40	121	342	82	26	642	385	50	247
Other service workers, including private household	90	95	90	47	188	167	434	84	30	48	132	15	446
Female employed	305	24	380	82	308	453	2 808	1 479	82	82 549	8 893	27	699
Professional, technical, and kindred workers	1 977	4 151	9 219	18 578	7 110	26 368	62 580	34 500	7 610	68 024	81 578	22 049	47 758
Accountants	74	74	148	774	394	609	920	143	144	319	1 672	490	890
Computer specialists	46	43	38	82	115	214	213	49	110	48	212	277	485
Life and physical scientists	5	—	—	38	26	73	31	5	—	5	10	50	97
Registered nurses, dietitians, and therapists	—	—	—	4	—	5	—	—	—	—	11	—	17
Social scientists	—	—	—	11	9	20	19	6	12	26	19	30	9
Writers, artists, and entertainers	—	—	—	21	29	24	—	12	—	—	387	10	65
Other professional, technical, and kindred workers	13	26	99	460	209	175	402	77	5	35	1 033	123	217
Managers and administrators, except farm	102	531	436	436	124	1 030	3 192	1 854	430	2 920	5 144	786	3 277
Salaried	31	99	495	429	120	870	2 937	1 844	242	1 512	3 561	776	3 036
Self-employed	—	3	36	7	4	160	255	1 010	177	1 408	1 583	10	241
Sales workers	14	6	159	154	109	1 575	34 320	8 335	420	824	37 847	1 985	4 171
Clerical and kindred workers	1 583	3 289	2 764	16 071	5 491	17 787	17 869	17 343	5 468	4 398	23 967	18 381	36 815
Bookkeepers	173	572	266	711	1 45	3 809	2 229	1 380	2 562	2 276	5 963	1 276	5 112
Cashiers	—	96	33	86	145	227	5 586	13 859	306	2 981	4 479	188	475
Counter clerks, except food	5	20	5	289	45	356	677	122	20	133	250	22	51
File clerks	68	77	8	357	148	526	535	90	174	12	522	1 484	1 044
Office machine operators	270	207	66	458	184	1 073	553	347	145	37	322	846	2 463
Bookkeeping and billing machine operators	12	20	22	22	23	142	62	25	108	6	33	33	1 025
Receptionists	—	4	34	80	56	316	139	19	89	16	390	205	508
Secretaries	230	870	526	980	1 112	5 419	1 229	410	911	245	3 000	5 924	6 498
Stenographers	113	5	21	38	18	173	42	5	42	—	93	229	169
Typists	107	429	178	960	540	1 671	911	540	410	51	1 100	3 521	3 100
Other clerical and kindred workers	617	994	1 625	12 112	2 446	4 217	5 992	974	809	284	7 848	4 686	17 395
Foremen, n.e.c.	88	67	69	634	185	536	891	833	238	199	2 232	116	136
Operatives, except transport	—	15	26	170	40	131	461	120	5	14	285	94	86
Assemblers	2	160	66	111	108	3 304	1 101	2 990	619	165	2 787	41	166
Checkers, runners, and inspectors, manufacturing	—	—	9	—	11	216	7	—	20	6	41	5	—
Packers and trimmers, except meat and produce	—	—	13	5	—	1 299	409	500	—	67	213	—	10
Other operatives, except transport	2	96	44	106	97	1 789	685	2 490	571	92	2 533	36	156
Transport equipment operatives	34	313	5 150	16	387	177	262	33	76	73	149	—	10
Laborers, except farm	54	64	60	43	66	836	773	1 552	55	62	779	4	64
Farm workers	—	—	—	—	—	—	—	—	—	—	—	—	—
Service workers, including private household	97	76	272	339	246	514	3 252	1 395	171	59 064	7 501	246	2 229
Personal service workers	33	49	48	220	66	112	270	66	98	548	491	188	1 659
Other service workers	9	9	113	37	30	35	299	69	10	368	301	31	176
Other service workers, including private household	46	18	111	82	150	216	2 483	1 214	63	58 148	6 709	27	403

Table 180. Occupation of Employed Persons by Industry Group and Sex: 1970 - Continued

(Data based on sample, see text. For meaning of symbols, see text)

The State Standard Metropolitan Statistical Areas of 250,000 or More	THE STATE											
	Business services	Repair services	Hotels and lodging places	Other personal services, including household	Entertainment and recreation services	Hospitals	Health services, except hospitals	Educational services, government	Educational services, private	Welfare, religious, and nonprofit organizations	Other professional and related services	Public administration
<b>Total employed</b> .....	45 349	38 189	18 939	97 246	21 677	123 960	67 632	198 066	69 648	42 535	74 503	124 954
Professonal, technical, and kindred workers.....	8 598	933	388	2 251	3 953	41 402	24 258	117 483	38 520	17 552	37 180	16 227
Accountants.....	1 398	122	180	44	74	431	72	373	106	262	5 594	2 969
Architects.....	16	—	—	10	5	—	—	40	12	—	1 341	39
Computer specialists.....	746	24	—	15	—	109	66	550	198	—	3 994	815
Engineers.....	836	111	4	47	26	98	133	659	120	116	3 695	1 691
Chemical.....	17	—	—	5	—	—	—	34	—	—	37	—
Civil.....	20	5	—	4	—	—	30	85	9	14	857	460
Electrical and electronic.....	97	32	—	4	11	—	—	217	39	13	449	93
Industrial.....	187	24	—	—	9	26	6	25	13	11	280	304
Mechanical.....	140	4	4	—	9	11	4	75	13	9	450	13
Other engineers.....	375	42	—	16	6	52	93	223	69	69	1 157	384
Mathematical specialists.....	50	—	—	—	—	19	21	43	9	20	40	101
Life and physical scientists.....	152	—	—	—	3	311	177	607	146	20	250	168
Chemists.....	88	—	—	—	—	177	65	376	100	5	107	106
Personnel and labor relations workers.....	1 077	13	43	47	44	308	118	576	97	102	1 571	1 007
Social scientists.....	313	—	—	16	—	308	165	571	101	101	1 277	477
Engineering and science technicians.....	1 494	93	—	54	60	133	133	952	480	109	4 266	1 066
Draftsmen.....	1 024	50	—	35	—	142	85	821	310	85	3 904	1 010
Electrical and electronic engineering technicians.....	53	23	—	5	30	14	6	145	50	4	394	215
Industrial and mechanical engineering technicians.....	5	—	—	—	—	4	—	10	11	—	36	—
Technicians, except health, and engineering and science.....	38	46	—	108	7	4	57	167	72	5	73	—
Writers, artists, and entertainers.....	1 948	45	169	1 417	2 571	124	23 308	540	540	1 745	2 459	4 482
Other professional, technical, and kindred workers.....	540	479	192	1 498	1 213	39 491	—	112 271	36 581	14 900	16 270	5 512
Managers and administrators, except farm.....	4 390	3 065	2 642	4 608	2 622	2 506	1 930	9 111	4 272	4 289	2 289	14 100
Buyers, purchasing agents, and sales managers.....	429	94	45	66	62	38	38	176	96	35	76	421
Other managers and administrators.....	3 961	2 971	2 597	4 542	2 560	2 472	1 892	8 935	3 376	4 243	2 213	13 679
Salaried.....	3 086	1 852	1 379	2 720	1 912	2 245	1 476	8 935	3 276	4 223	2 034	13 679
Self-employed.....	875	1 119	1 218	1 822	648	6	416	—	101	20	179	—
Sales workers.....	2 700	883	68	980	774	179	66	245	308	390	596	333
Chemical and kindred workers.....	14 551	4 565	3 004	8 710	2 913	20 256	11 937	32 212	12 390	10 533	19 561	52 788
Bookkeepers.....	1 317	990	495	903	448	1 242	1 242	1 445	528	991	2 475	2 788
Cashiers.....	76	377	203	395	958	477	18	974	361	97	74	285
Examiners and investigators, n.e.c.....	374	11	11	11	11	65	11	35	20	97	162	1 037
Office machine operators.....	1 897	67	27	103	26	567	107	672	295	227	823	1 359
Shipping and receiving clerks.....	67	35	5	37	—	130	21	101	51	12	56	98
Stock clerks and storeroomers.....	92	70	20	108	51	510	38	65	34	54	830	830
Other clerical and kindred workers.....	10 544	2 831	2 243	7 130	1 450	17 268	10 500	28 701	11 070	9 075	16 118	46 754
Craftsmen and kindred workers.....	3 264	18 826	451	2 279	1 468	2 116	1 490	4 191	1 260	895	1 617	5 571
Blacksmiths, forgers, hammermen, and boilermakers.....	6	116	4	5	—	17	4	23	8	25	4	19
Brickmasons and stonemasons.....	6	6	—	5	—	16	5	15	10	6	10	19
Carpenters.....	108	45	83	7	33	272	25	362	108	77	45	220
Cranemen, derrickmen, and hoistmen.....	80	6	35	5	19	204	12	202	5	85	58	258
Electricians.....	40	103	63	40	40	8	6	6	17	9	357	357
Excavating, grading, and road machine operators.....	55	44	63	338	99	273	144	591	116	6	252	1 053
Foremen, n.e.c.....	397	381	102	332	593	355	71	320	252	78	194	2 357
Mechanics and repairmen.....	1 124	15 007	9 474	32 322	23 232	15 151	16 165	320	90	10	22	2 906
Automobile, including body.....	44	251	—	51	8	20	5	81	15	10	153	71
Machinists, job setters, and toolmakers.....	94	39	5	7	5	—	6	50	—	37	124	17
Metal craftsmen, except mechanics and machinists.....	128	228	59	129	43	298	6	243	91	67	28	267
Painters, construction and maintenance, and plasterers and paperhangers.....	106	11	13	22	10	102	5	224	62	14	113	95
Plumbers and pipe fitters.....	159	6	51	15	10	46	15	219	102	47	41	93
Printing craftsmen.....	891	6	40	30	33	276	37	492	63	35	214	214
Stationary engineers and power station operators.....	82	2 579	40	1 241	575	229	1 142	766	281	120	665	491
Other craftsmen and kindred workers.....	2 153	4 198	362	12 576	334	2 871	765	1 282	534	435	1 194	1 100
Operatives, except transport.....	88	68	—	68	12	—	10	5	6	38	106	55
Assemblers.....	15	72	—	9	—	5	11	—	—	—	5	9
Checkers, examiners, and inspectors; manufacturing.....	10	644	6	19	—	6	—	—	—	—	58	35
Filers, polishers, sanders, and buffers.....	21	301	—	7	—	—	—	—	—	—	38	89
Precision machine operators.....	239	1 424	—	5	11	11	—	30	—	6	19	19
Welders and flamecutters.....	1 287	1 287	333	12 201	213	2 626	682	877	248	212	702	615
Other specified operatives.....	184	138	10	108	42	82	18	71	54	19	69	60
Machine operatives, miscellaneous specified.....	92	33	4	47	45	78	12	26	15	15	28	99
Miscellaneous operatives, not specified.....	419	174	4	47	45	78	12	26	15	15	28	99
Hot specified operatives.....	57	37	5	70	5	23	19	24	10	22	132	28

Table 180. Occupation of Employed Persons by Industry Group and Sex: 1970—Continued

[Data based on sample, see text. For meaning of symbols, see text.]

The State Standard Metropolitan Statistical Areas of 250,000 or More

THE STATE—Continued

Total employed—Continued

Occupation	Business services	Repair services	Hotels and lodging places	Other personal services, including private household	Entertainment and recreation services	Hospitals	Health services, except hospitals	Educational services, government	Educational services, private	Welfare, religious, and nonprofit membership organizations	Other professional and related services	Public administration
Transport equipment operators	886	1 550	66	2 249	167	285	193	933	258	237	196	1 559
Deliverymen and routemen	304	1 21	20	1 622	48	77	61	151	39	29	46	86
Truck drivers	357	500	6	2 273	62	137	27	195	68	137	82	3 195
Other transport equipment operators	225	929	40	354	72	132	105	600	157	71	88	278
Laborers, except farm	714	2 566	352	2 136	1 261	721	190	987	400	355	365	3 037
Freight, stock, and material handlers	233	65	10	1 007	95	302	15	190	79	127	31	1 173
Other specified laborers	158	1 987	199	1 007	963	311	72	616	252	134	296	1 463
Miscellaneous laborers	39	286	16	124	53	108	5	111	5	13	—	290
Not specified laborers	284	228	127	532	150	108	98	151	64	81	38	—
Farm workers	—	—	—	—	—	—	—	—	—	—	—	—
Service workers, including private household	8 093	1 403	11 406	61 457	8 185	53 624	26 803	31 422	12 506	7 920	11 505	30 232
Cleaning service workers	4 941	884	4 850	1 518	1 518	8 176	2 593	15 045	5 475	4 218	634	3 314
Personal service workers	117	—	2 386	24 340	2 706	1 270	4 998	2 083	2 456	612	270	612
Guards and watchmen	2 549	43	38	40	92	444	63	277	231	91	82	2 228
Other service workers, including private household	408	959	4 336	35 582	4 189	43 734	23 441	11 302	4 717	2 155	10 519	24 078
Female employed	19 665	5 904	11 878	73 372	8 947	98 220	48 749	118 939	44 612	21 253	37 334	42 662
Professional, technical, and kindred workers	2 309	196	274	935	1 518	32 278	10 298	69 826	24 461	5 919	9 544	4 019
Accountants	715	33	68	23	37	248	45	149	58	106	104	879
Computer specialists	108	—	—	—	—	23	91	51	38	3	104	247
Life and physical scientists	73	—	—	—	—	157	100	105	49	—	116	56
Registered nurses, dietitians, and therapists	79	—	16	245	—	24 161	6 733	1 050	329	250	176	269
Social scientists	14	—	—	6	—	107	23	27	—	—	4	13
Writers, artists, and entertainers	418	11	88	466	709	30	177	177	251	1 187	542	137
Other professional, technical, and kindred workers	962	152	102	195	772	7 532	3 337	67 873	23 710	4 307	7 638	2 388
Managers and administrators, except farm	642	191	878	1 269	373	973	1 104	2 040	1 280	848	584	2 471
Salaried	480	101	404	770	274	973	334	2 040	1 247	839	562	2 471
Self-employed	162	90	474	398	99	—	—	—	33	9	22	—
Sales workers	597	187	49	619	533	125	49	164	146	179	225	196
Clerical and kindred workers	12 288	3 547	2 203	8 015	2 284	18 819	11 586	28 656	11 027	9 521	17 651	32 083
Bookkeepers	1 124	859	387	1 780	1 141	1 141	1 186	870	1 915	5 211	1 915	1 915
Cashiers	57	255	199	385	715	453	12	831	308	93	74	191
Counter clerks, except food	85	179	652	3 179	129	20	31	131	48	31	5	35
File clerks	467	54	14	69	9	690	210	585	305	177	229	1 037
Office machine operators	1 576	47	21	76	15	210	100	463	191	184	664	1 047
Bookkeeping and billing machine operators	38	5	17	16	15	108	14	14	4	38	37	103
Receptionists	358	50	131	958	2 042	2 042	3 936	779	430	398	364	299
Secretaries	3 494	621	338	670	478	4 924	3 830	11 460	5 037	5 246	7 093	5 347
Stenographers	212	10	6	12	21	174	106	245	60	164	164	1 164
Typists	1 541	189	26	221	126	2 520	1 077	1 101	1 101	1 137	1 077	5 327
Other clerical and kindred workers	3 374	1 993	429	1 665	344	6 146	1 238	10 157	3 055	1 211	6 066	15 601
Craftsmen and kindred workers	216	525	45	490	23	262	337	640	201	71	167	90
Foremen, n.e.c.	39	—	7	147	4	125	71	114	43	30	27	39
Operatives, except transport	914	521	279	9 806	75	1 891	578	357	227	236	480	129
Checkers, examiners, and inspectors, manufacturing	49	17	—	61	4	—	—	—	6	38	51	11
Packers and wrappers, except meat and produce	271	32	—	141	—	22	—	—	—	—	37	—
Other operatives, except transport	594	472	279	9 604	71	1 869	573	345	216	187	392	118
Transport equipment operators	55	90	4	75	20	32	55	390	88	25	32	62
Laborers, except farm	113	157	67	604	68	288	82	116	73	57	50	408
Farm workers	—	—	—	—	—	—	—	—	—	—	—	—
Service workers, including private household	2 531	490	8 079	51 559	4 653	43 552	24 660	16 750	7 109	4 397	8 601	3 284
Cleaning service workers	2 171	70	423	739	507	5 007	1 751	5 504	1 431	620	2 201	619
Personal service workers	173	—	1 697	16 840	831	5 952	66	4 234	1 701	1 662	2 228	4 619
Other service workers, including private household	187	354	2 716	33 980	2 799	37 593	22 263	9 572	3 977	1 731	8 153	2 302

Table 180. Occupation of Employed Persons by Industry Group and Sex: 1970—Continued

(Data based on sample, see text. For meaning of symbols, see text.)

The State Standard Metropolitan Statistical Areas of 250,000 or More	Persons 16 years and over	Agriculture, forestry, and fisheries	Mining	Construc- tion	Total	Manufacturing						
						Durable goods						Electrical machinery, equipment, and supplies
						Furniture, lumber, and wood products	Stone, clay, and glass products	Primary ferrous industries	Primary nonferrous industries	Fabricated metal industries, including not specified metal	Machinery, except electrical	
<b>DETROIT SMSA</b>	1 570 955	7 593	1 819	67 810	587 981	4 651	9 052	27 060	5 584	43 698	89 813	12 383
<b>Total employed</b>	232 874	629	172	2 457	67 842	201	551	1 488	418	2 607	10 472	2 260
Professional, technical, and kindred workers	16 269	—	14	355	6 069	48	78	141	48	434	813	126
Accountants	—	—	—	—	—	—	—	—	—	—	—	—
Architects	—	—	—	—	—	—	—	—	—	—	—	—
Computer specialists	5 754	94	18	40	111	10	9	76	6	48	586	57
Engineers	33 784	29	42	1 207	2 885	52	164	505	164	1 116	4 279	1 058
Chemical	—	—	—	—	—	—	—	—	—	—	—	—
Civil	2 182	—	11	878	323	—	21	6	—	—	—	—
Electrical and electronic	2 728	—	—	—	700	—	—	—	—	—	—	—
Industrial	5 598	4	16	89	1 247	23	46	183	65	314	308	561
Mechanical	12 764	4	18	43	4 984	10	14	35	28	238	1 580	173
Other engineers	8 699	5	10	125	5 493	19	55	230	66	451	1 667	293
Mathematical scientists	657	—	—	—	379	5	—	12	—	—	30	6
Life and physical scientists	2 553	9	11	22	1 741	—	25	146	17	56	152	20
Chemists	1 953	—	6	—	1 536	—	146	146	17	56	142	10
Personnel and labor relations workers	7 250	10	14	68	2 666	4	43	330	20	146	330	52
Social scientists	3 083	—	5	—	1 696	—	9	10	5	28	170	40
Engineering and science technicians	21 801	27	36	498	14 230	44	116	326	78	551	2 753	612
Electrical and electronic engineering technicians	12 893	13	20	270	7 881	27	37	98	25	368	1 796	305
Industrial and mechanical engineering technicians	1 769	—	31	—	1 040	—	6	4	8	28	391	242
Mechanics, except health, and engineering and science workers, except health, and engravers	1 595	—	4	16	913	6	14	55	11	33	175	27
Writers, and engravers	17 267	98	14	69	7 422	20	33	32	20	56	875	168
Other professional, technical, and kindred workers	121 694	362	14	161	5 946	12	67	102	60	160	505	101
<b>Managers and administrators, except farm</b>	111 598	215	6 970	6 970	25 415	454	610	902	310	2 499	5 368	905
Buyers, purchasing agents, and sales managers	17 136	11	77	339	5 661	105	119	140	67	524	1 090	272
Other managers and administrators	94 392	204	6 666	6 811	19 754	329	491	762	243	1 975	4 278	633
Salaried	78 724	188	44	4 809	18 184	237	400	739	221	1 747	3 831	584
Self-employed	15 668	136	22	1 802	1 570	92	51	23	22	228	447	49
<b>Sales workers</b>	112 095	88	53	881	12 350	247	214	282	177	969	1 556	415
<b>Clerical and kindred workers</b>	293 315	530	353	5 758	70 876	607	1 047	2 428	693	5 116	10 157	1 996
Bookkeepers	28 632	112	40	249	6 341	154	127	205	97	684	1 056	209
Cashiers	18 559	44	—	5	289	—	—	—	—	—	—	—
Estimators and investigators, n.e.c.	—	—	12	—	—	—	—	—	—	—	—	—
Office machine operators	14 183	4	15	84	4 907	21	62	176	57	161	279	28
Shipping and receiving clerks	9 233	4	—	44	5 318	81	90	227	66	798	657	97
Stock clerks and storekeepers	11 028	4	14	91	6 875	33	76	118	48	373	783	144
Other clerical and kindred workers	204 942	366	272	3 422	46 777	297	677	1 654	418	2 963	6 493	1 348
<b>Craftsmen and kindred workers</b>	239 647	400	504	38 424	135 169	1 122	1 670	9 840	1 150	10 913	24 693	2 246
Blacksmiths, forgemen, hammersmen, and boilermakers	1 486	—	101	—	1 556	3	—	247	17	292	95	—
Brickmasons and stonemasons	3 481	16	—	2 674	6 341	—	18	361	28	29	28	—
Carpenters	10 460	73	17	7 800	1 367	216	32	142	10	88	122	17
Cranemen, derrickmen, and hoistmen	4 664	3	45	5 811	3 492	15	109	269	41	269	243	38
Electricians	10 407	5	18	3 446	5 515	—	78	598	44	323	655	275
Excavating, grading, and road machine operators	3 128	25	47	2 170	4 21	10	13	157	—	10	14	—
Foremen, n.e.c.	39 337	143	118	2 554	27 774	240	478	1 740	310	2 680	3 753	487
Mechanics and repairmen	52 131	64	928	1	23 490	59	441	1 174	124	2 911	3 311	487
Mechanics, including body	22 702	10	22	—	9 112	20	56	20	—	76	21	21
Automobile, including body	34 759	6	15	54	33 846	35	173	560	294	3 839	13 591	432
Machinists, job setters, and toolmakers	15 742	5	3	1 689	13 481	77	76	2 167	227	1 196	2 063	119
Metal craftsmen, except mechanics and machinists	6 167	—	—	3 631	1 970	34	—	25	4	42	137	28
Painters, construction and maintenance, and plasterers and paperhangers	8 246	11	48	3 924	3 127	61	61	335	4	112	275	55
Plumbers and pipe fitters	6 384	—	5	—	1 710	5	—	110	—	36	74	—
Printing craftsmen	3 437	—	5	—	1 509	—	—	16	—	102	101	—
Stationary engineers and power station operators	59 818	44	21	7 751	12 317	428	145	861	36	674	1 457	18
Other craftsmen and kindred workers	—	—	—	—	—	—	—	—	—	—	—	—
<b>Operatives, except transport</b>	262 467	135	455	3 297	218 363	1 522	3 306	7 532	2 361	17 633	32 988	4 016
Assemblers	40 797	12	12	37	40 024	284	219	229	101	1 465	4 267	1 230
Checkers, examiners, and inspectors; manufacturing	23 101	—	—	—	23 101	69	433	567	244	1 485	3 673	422
Filers, polishers, sanders, and buffers	4 627	—	—	—	4 408	53	123	54	88	596	38	—
Painters, manufactured articles	4 120	—	—	—	3 554	71	43	54	21	461	207	45
Precision machine operators	25 058	—	8	104	24 488	28	30	606	149	1 823	11 782	355
Welders and flamecutters	18 267	—	37	715	15 982	66	112	730	81	2 340	1 626	185
Other specified operatives	89 576	2	398	1 821	55 966	232	772	2 254	650	5 222	3 318	580
Machine operatives, miscellaneous specified	20 878	15	—	—	20 878	145	704	1 145	254	2 526	3 526	206
Machine operatives, not specified	16 179	16	—	—	15 129	84	213	456	192	1 395	3 246	295
Miscellaneous operatives	12 303	8	—	170	9 645	157	443	189	145	1 745	1 915	527
Not specified operatives	7 561	—	—	95	6 849	55	194	711	58	607	1 457	155

Table 180. Occupation of Employed Persons by Industry Group and Sex: 1970—Continued

(Data based on sample, see text. For meaning of symbols, see text.)

	Persons 16 years and over	Agriculture, forestry, and fisheries	Mining	Construction	Manufacturing							
					Total	Furniture, lumber, and wood products	Stone, clay, and glass products	Primary ferrous industries	Primary nonferrous industries	Fabricated metal industries, including non-specified metal	Machinery, except electrical	Electrical machinery, equipment, and supplies
<b>DETROIT SMSA — Continued</b>												
<b>Total employed — Continued</b>												
Transport equipment operatives	114	96	2 216	19 218	234	716	1 012	205	1 414	1 109	105	
Deliverymen and roulemen	28	8	1 556	3 208	52	152	48	—	152	116	16	
Truck drivers	66	75	1 736	6 212	117	452	449	79	453	452	50	
Other transport equipment operatives	20	13	324	9 798	65	190	515	126	809	541	39	
Labors, except farm	61 855	1 659	7 075	20 884	168	669	2 675	134	1 622	1 548	195	
Freight, stock, and material handlers	31 398	17	208	9 897	78	398	469	54	716	716	109	
Other specified laborers	19 079	1 625	6 835	3 807	50	68	371	13	357	357	15	
Miscellaneous laborers	3 999	4	—	2 556	6	—	968	28	268	102	—	
Not specified laborers	7 379	13	32	4 624	34	153	867	39	350	373	71	
Farm workers	3 691	—	—	—	—	—	—	—	—	—	—	
Service workers, including private household	194 214	122	732	17 844	116	268	901	136	925	1 922	245	
Cleaning service workers	42 417	36	504	11 140	95	215	632	85	708	1 432	156	
Personal service workers	27 956	—	—	385	—	—	—	—	—	—	—	
Guards and watchmen	4 838	12	76	3 415	5	32	218	34	143	286	54	
Other service workers, including private household	123 303	60	129	2 923	16	18	51	17	74	155	35	
Female employed	555 546	1 885	5 283	99 614	1 143	2 303	1 726	1 068	8 206	13 441	3 574	
Professional, technical, and kindred workers	81 598	77	176	3 982	29	77	68	11	181	520	154	
Accountants	3 806	—	83	769	4	9	4	—	90	179	34	
Computer specialists	904	—	—	364	—	—	19	6	6	79	16	
Life and physical scientists	345	—	—	184	—	—	—	—	—	6	—	
Registered nurses, dietitians, and therapists	15 214	6	—	563	—	12	21	—	24	72	5	
Social scientists	321	—	13	32	—	—	—	—	—	—	—	
Writers, artists, and entertainers	3 727	—	—	734	5	—	6	—	—	—	—	
Other professional, technical, and kindred workers	57 281	25	80	1 316	19	46	18	5	56	137	88	
Managers and administrators, except farm	17 043	34	237	1 190	21	46	58	9	145	297	31	
Soloired	14 490	14	187	1 050	21	38	58	9	137	266	26	
Self-employed	2 553	20	50	140	—	8	—	—	8	31	5	
Sales workers	47 758	26	133	949	7	4	—	—	24	35	7	
Clerical and kindred workers	216 177	465	3 788	39 446	403	650	977	437	2 881	6 189	1 400	
Bookkeepers	23 342	97	1 047	4 106	139	107	109	77	541	816	170	
Cashiers	16 922	44	—	197	—	—	5	—	—	5	—	
Counter clerks, except food	3 978	—	7	383	5	11	—	—	3	—	—	
File clerks	6 702	—	75	1 289	4	8	5	15	49	38	14	
Office machine operators	10 975	4	61	3 348	14	47	118	34	124	233	44	
Bookkeeping and billing machine operators	1 337	—	4	198	5	9	25	—	30	430	77	
Receptionists	6 646	81	118	604	5	5	24	—	49	30	—	
Secretaries	52 439	123	1 552	14 590	126	226	317	162	1 069	2 483	32	
Stenographers	2 958	33	917	4 917	4	4	51	—	18	11	—	
Typists	23 098	26	367	4 881	14	374	131	57	817	1 163	163	
Other clerical and kindred workers	69 117	90	528	9 131	96	160	217	92	654	1 133	232	
Craftsmen and kindred workers	8 814	10	482	3 961	71	51	138	56	223	558	137	
Foremen, n.e.c.	1 962	—	54	679	19	12	16	21	49	63	10	
Operatives, except transport	59 594	26	80	45 623	573	1 372	358	484	4 350	5 468	1 757	
Assemblers	9 914	5	5	9 684	145	139	25	60	572	1 574	806	
Checkers, examiners, and inspectors: manufacturing	4 439	—	—	4 639	21	304	37	62	415	833	159	
Packers and wrappers, except meat and produce	4 727	—	—	2 852	36	73	10	45	128	120	60	
Other operatives, except transport	40 314	21	75	28 447	371	856	286	317	3 235	2 941	747	
Transport equipment operatives	2 897	—	40	381	—	5	16	6	37	4	—	
Labors, except farm	5 339	281	177	1 602	12	64	71	21	276	126	39	
Farm workers	904	—	—	—	—	—	—	—	—	—	—	
Service workers, including private household	115 422	62	170	2 480	27	34	40	23	89	244	39	
Cleaning service workers	13 420	20	127	1 241	20	29	29	16	57	155	13	
Personal service workers	13 985	4	7	1 135	—	—	—	—	—	—	—	
Other service workers, including private household	88 017	38	36	1 104	7	5	11	7	32	76	26	



Table 180. Occupation of Employed Persons by Industry Group and Sex: 1970—Continued

(Data based on sample, see text. For meaning of symbols, see text.)

	Manufacturing—Continued												
	Durable goods—Continued					Nondurable goods							
	Motor vehicles and motor vehicle equipment	Aircraft and parts	Other transportation equipment	Ordnance	Other durable goods	Food and kindred products	Textile mill products	Apparel and other fabricated textile products	Paper and allied products	Printing, publishing, and allied industries	Chemicals and allied products	Rubber and miscellaneous plastic products	Other nondurable goods, incl. not specified manufacturing
<b>DETROIT SMSA</b>													
<b>Total employed</b>	266 369	2 995	2 433	2 594	38 964	15 182	969	5 383	4 457	19 415	16 943	10 539	9 497
Professional, technical, and kindred workers	37 545	480	692	635	2 856	435	79	171	179	2 181	2 950	1 067	575
Accountants	3 377	34	55	52	128	130	28	22	40	125	179	169	42
Architects	97	—	—	—	—	—	—	—	—	—	—	—	—
Computer specialists	1 968	5	15	15	27	14	—	—	—	52	73	14	10
Engineers	13 961	238	322	317	448	58	25	60	56	23	632	470	149
Chemical	188	—	7	—	—	—	6	—	—	—	333	68	32
Civil	202	5	9	—	—	9	—	—	—	—	33	6	9
Electrical and electronic	738	29	40	54	20	9	3	30	21	18	69	80	23
Industrial	2 880	52	29	46	68	16	5	10	51	5	93	93	17
Mechanical	8 246	39	119	115	119	12	11	20	35	5	136	217	67
Other engineers	1 707	113	42	102	241	21	—	—	—	—	—	—	—
Mathematical specialists	315	—	—	—	5	—	—	—	—	—	6	—	—
Life and physical scientists	411	—	6	—	19	7	—	6	12	—	793	29	42
Chemists	357	—	6	—	19	7	—	6	12	—	688	29	42
Personnel and labor relations workers	1 907	15	13	30	61	44	—	10	4	25	75	45	10
Social scientists	1 288	9	14	22	22	36	—	—	—	—	35	—	—
Engineering and science technicians	7 861	102	146	90	273	47	18	20	21	52	798	277	85
Draftsmen	4 677	50	108	56	148	13	5	3	5	33	35	30	34
Electrical and electronic engineering technicians	1 497	13	5	15	28	6	—	—	—	13	10	5	—
Industrial and mechanical engineering technicians	2 272	5	—	4	19	—	—	—	—	—	38	24	—
Technicians, except health, and engineering and science	1 130	11	—	10	11	37	3	34	21	1 803	57	13	34
Writers, artists, and entertainers	3 856	50	91	56	163	62	—	15	21	96	302	69	203
Other professional, technical, and kindred workers	2 374	16	30	56	1 690	—	—	—	—	—	—	—	—
<b>Managers and administrators, except farm</b>	6 642	226	160	127	1 530	1 071	66	241	288	1 578	1 327	637	493
Buyers, purchasing agents, and sales managers	1 623	31	39	35	218	227	60	50	50	53	110	110	64
Other managers and administrators	5 019	195	121	92	1 312	844	56	195	239	1 041	973	527	420
Salaried	4 975	190	116	87	1 272	788	10	159	223	864	926	482	407
Self-employed	44	5	5	5	140	56	10	36	16	177	47	45	22
<b>Sales workers</b>	1 112	17	26	5	937	864	118	290	269	2 629	1 085	284	854
<b>Clerk and kindred workers</b>	31 578	361	292	476	3 857	1 547	109	441	528	3 994	2 788	1 449	1 402
Bookkeepers	2 031	34	16	37	235	289	5	85	69	387	323	194	104
Cashiers	167	—	—	—	20	55	—	—	—	—	15	—	9
Estimators and investigators, n.e.c.	674	9	5	6	14	—	—	—	—	—	—	—	—
Office machine operators	2 780	14	18	43	103	95	5	13	25	56	70	16	35
Shipping and receiving clerks	1 818	19	13	10	168	214	11	38	18	230	270	172	84
Stock clerks and storekeepers	3 503	30	41	59	84	88	5	10	10	206	108	119	44
Other clerical and kindred workers	20 605	255	199	321	3 233	806	78	246	324	3 058	1 882	801	1 119
<b>Craftsmen and kindred workers</b>	59 370	507	508	469	7 752	2 285	122	647	739	5 996	2 683	1 290	1 167
Blacksmiths, forgers, hammermen, and boilermakers	437	5	—	10	13	—	—	—	—	—	19	4	4
Brickmasons and stonemasons	204	—	—	—	8	5	—	—	—	—	7	5	—
Carpenters	413	—	70	18	123	15	—	4	10	6	82	11	6
Cranemen, derrickmen, and hoistmen	1 379	6	—	—	20	—	—	—	—	—	6	—	—
Electricians	3 074	11	—	24	30	42	—	35	34	29	146	63	43
Excavating, grading, and road machine operators	13 180	96	112	197	540	615	51	245	277	631	916	531	196
Foremen, n.e.c.	14 350	97	116	80	360	554	32	116	189	162	167	167	167
Mechanics and repairmen	13 383	172	168	131	533	97	6	54	34	9	34	9	24
Automobile, including body	13 487	184	29	131	348	72	6	67	71	31	228	185	83
Machinists, job setters, and toolmakers	6 299	89	68	131	726	13	4	35	38	4	151	93	26
Metal craftsmen, except mechanics and machinists	806	6	31	—	26	4	4	6	17	40	48	17	6
Painters, construction and maintenance, and plasterers and paperhangers	1 914	8	—	5	19	—	—	5	5	5	213	43	39
Plumbers and pipe fitters	60	—	—	22	60	24	5	5	89	5 009	36	5	78
Printing craftsmen	2 770	—	—	10	10	113	—	—	—	—	11	—	—
Stationary engineers and power station operators	2 646	—	16	10	10	113	—	—	—	—	81	—	—
Other craftsmen and kindred workers	2 082	5	55	10	5 449	809	24	119	10	63	87	40	325
<b>Operatives, except transport</b>	103 008	1 206	572	685	17 759	5 109	382	3 246	1 984	1 740	4 352	5 929	3 931
Assemblers	29 788	111	177	96	789	73	5	239	101	33	138	452	237
Checkers, examiners, and inspectors; manufacturing	13 761	77	44	128	280	189	24	263	56	139	483	520	744
Filers, polishers, sanders, and buffers	2 810	45	4	20	57	5	—	—	—	—	30	99	10
Painters, manufactured articles	2 433	14	20	10	33	5	—	—	—	—	17	18	13
Precision machine operatives	8 491	432	40	91	639	18	6	15	18	13	82	77	73
Welders and flamecutters	10 076	70	153	10	216	10	8	21	10	10	62	46	80
Other specified operatives	17 628	69	66	56	471	3 113	339	2 242	626	469	1 232	589	1 936
Machine operatives, miscellaneous specified	5 424	61	52	125	599	866	—	201	746	284	1 235	362	339
Machine operatives, not specified	6 658	92	11	52	295	286	—	54	252	409	424	399	203
Miscellaneous operatives	3 611	34	31	31	330	354	—	128	121	344	352	266	152
Not specified operatives	2 328	48	37	6	318	190	—	79	54	22	216	162	132

Table 180. Occupation of Employed Persons by Industry Group and Sex: 1970 — Continued

[Data based on sample, see text. For meaning of symbols, see text.]

	Manufacturing — Continued												
	Durable goods — Continued					Nondurable goods							
	Motor vehicles and vehicle equipment	Aircraft and parts	Other transportation equipment	Ordnance	Other durable goods	Food and kindred products	Textile mill products	Apparel and other fabricated textile products	Paper and allied products	Printing, publishing, and allied industries	Chemicals and allied products	Rubber and miscellaneous plastic products	Other nondurable goods, incl. not specified manufacturing
<b>DETROIT SMSA — Continued</b>													
<b>Total employed — Continued</b>													
Transport equipment operatives	8 325	60	32	43	1 036	2 446	37	103	228	623	476	210	383
Truck drivers	345	15	5	16	85	1 782	56	19	51	340	56	41	36
Other transport equipment operatives	2 718	26	22	25	926	389	14	32	72	229	221	92	122
	5 462	17				315	23	52	136	34	199	77	225
<b>Laborers, except farm</b>													
Freight, stock, and material handlers	9 003	39	96	64	1 631	949	37	149	138	344	674	356	393
Other specified laborers	5 271	25	28	51	1 182	544	27	113	83	234	379	176	107
Miscellaneous laborers	1 103	—	24	—	1 241	91	4	4	6	16	73	24	186
Miscellaneous laborers	869	—	8	—	89	77	—	—	6	—	20	50	24
Not specified laborers	1 760	14	36	13	139	237	6	32	43	83	202	106	66
<b>Farm workers</b>													
Service workers, including private household	9 586	99	55	90	1 406	456	19	95	100	330	598	217	289
Cleaning service workers	6 039	51	46	43	298	288	14	61	93	201	428	146	102
Personal service workers	2 254	5	—	—	35	15	5	5	7	7	21	8	2
Guards and watchmen	1 067	—	—	—	61	28	—	20	7	57	92	39	4
Other service workers, including private household	—	—	—	—	1 012	125	—	9	—	65	57	24	181
<b>Female employed</b>													
Professional, technical, and kindred workers	33 460	480	259	387	7 850	3 745	371	3 006	1 386	6 017	4 188	3 912	3 092
Accountants	1 325	17	20	25	170	59	3	45	57	607	499	73	42
Computer specialists	244	—	—	—	24	4	—	—	20	50	60	33	—
Life and physical scientists	209	—	5	—	—	4	—	—	8	3	12	—	—
Registered nurses, dietitians, and therapists	12	—	—	—	—	—	—	—	—	—	153	—	—
Social scientists	341	—	6	14	8	5	—	10	5	5	35	5	—
Writers, artists, and entertainers	31	—	—	—	—	5	—	—	—	—	—	—	—
Other professional, technical, and kindred workers	83	—	—	6	9	—	3	25	—	512	17	5	—
Managers and administrators, except farm	405	17	9	5	129	28	—	10	24	27	232	24	42
Salaried	92	—	10	—	120	76	6	30	6	145	39	39	20
Self-employed	92	—	—	—	91	76	6	10	6	124	33	27	20
	—	—	—	—	29	—	—	20	—	21	6	12	—
<b>Sales workers</b>													
Clerical and kindred workers	36	—	—	—	82	229	16	57	6	293	56	—	76
Bookkeepers	14 868	229	148	274	2 371	985	78	234	353	3 008	1 927	994	1 040
Cashiers	740	20	8	17	181	215	—	66	59	338	229	169	76
Counter clerks, except food	122	—	—	—	21	20	—	—	4	15	15	5	9
File clerks	26	—	—	—	—	—	—	—	—	—	—	—	—
Office machine operators	669	9	8	9	19	33	7	5	13	170	76	5	26
Bookkeeping and billing machine operators	1 812	14	18	4	63	81	5	9	18	283	128	42	9
Receptionists	17	—	—	—	12	13	—	—	—	39	21	19	6
Secretaries	168	4	—	—	15	289	28	102	123	616	791	306	247
Stenographers	6 300	101	52	115	500	269	—	—	5	4	65	4	—
Typists	628	11	7	6	5	—	6	38	36	575	229	68	63
Other clerical and kindred workers	1 893	20	21	67	165	52	16	—	95	955	365	261	—
	2 478	50	34	56	1 391	265	8	14	—	—	—	—	—
<b>Craftsmen and kindred workers</b>													
Foremen, n.e.c.	911	4	17	4	218	227	34	55	42	859	120	71	165
	152	—	—	4	26	60	10	38	6	86	58	39	14
<b>Operatives, except transport</b>													
Assemblers	14 412	220	55	68	4 393	1 948	221	2 539	878	920	1 322	2 608	1 667
Checkers, examiners, and inspectors; manufacturing	5 001	45	15	12	413	29	8	199	91	23	63	363	116
Packers and wrappers, except meat and produce	1 504	35	10	12	125	100	5	136	33	119	363	205	173
Other operatives, except transport	468	140	30	56	1 871	1 127	5	53	157	74	218	1 966	1 350
Transport equipment operatives	7 439	—	—	—	3 674	692	203	2 151	597	718	678	1 966	1 350
<b>Laborers, except farm</b>													
Farm workers	173	—	—	—	20	32	—	—	4	65	7	12	—
	390	—	—	4	210	101	5	38	16	38	93	66	32
<b>Service workers, including private household</b>													
Cleaning service workers	1 253	10	9	12	266	88	8	8	24	82	125	49	50
Personal service workers	647	5	9	6	34	16	3	—	24	48	90	31	9
Other service workers, including private household	530	5	—	—	210	5	—	—	—	—	—	4	—

Table 180. Occupation of Employed Persons by Industry Group and Sex: 1970—Continued

(Data based on sample, see text. For meaning of symbols, see text.)

Detailed Characteristics	Railroads and railway express service	Trucking service and warehousing	Other transportation	Communications	Utilities and sanitary services	Wholesale trade	Retail trade				Insurance	Finance and real estate	
							General merchandise retailing	Food stores	Automotive dealers and gasoline stations	Eating and drinking places			Other retail trade
<b>Total employed</b>	8 770	21 290	14 739	20 523	22 076	65 698	48 655	38 813	30 178	50 263	78 118	24 965	48 587
<b>Professional, technical, and kindred workers</b>	376	298	564	2 590	2 500	3 785	1 210	388	267	693	3 534	1 385	2 188
Accountants	128	106	78	263	263	518	211	77	102	81	247	471	859
Architects	—	—	—	17	8	4	4	—	—	—	—	—	18
Computer specialists	42	19	5	119	83	270	39	39	4	5	50	180	327
Engineers	68	30	58	886	832	1 483	73	37	37	5	178	189	60
Chemical	—	—	—	—	32	21	—	—	—	—	6	—	—
Civil	40	4	—	29	114	40	6	10	—	—	10	19	14
Electrical and electronic	4	—	—	769	424	39	5	10	—	—	21	—	—
Industrial	4	—	—	24	52	49	29	12	—	—	19	—	—
Mechanical	8	16	4	6	144	152	9	32	—	—	32	161	21
Other engineers	16	4	—	64	66	1 177	24	11	22	5	90	20	—
<b>Mathematical specialists</b>	—	—	—	—	—	—	—	—	—	—	—	—	—
<b>Life and physical scientists</b>	—	—	—	19	50	26	5	—	—	—	11	58	11
Chemists	—	—	—	10	44	52	—	—	—	—	13	4	—
—	—	—	—	4	44	40	—	—	—	—	9	4	—
Personnel and labor relations workers	52	68	75	249	155	236	294	83	—	48	167	163	218
Social scientists	6	5	—	40	62	135	10	17	17	—	4	—	123
Engineering and science technicians	27	—	27	321	431	279	51	11	16	4	133	4	46
Draftsmen	8	—	—	84	240	123	41	5	—	—	85	11	37
—	—	—	—	216	76	—	10	—	—	—	25	—	—
—	—	—	—	5	—	—	—	—	—	—	5	—	5
Electrical and electronic engineering technicians	—	—	—	84	88	33	—	—	—	—	—	—	—
Industrial and mechanical engineering technicians	27	27	22	222	191	342	316	46	42	—	384	4	134
Technicians, except health, and engineering and science	9	24	34	549	310	407	158	74	38	525	20	57	134
Writers, artists, and entertainers	39	19	65	160	—	—	—	—	—	—	2 327	238	381
<b>Other professional, technical, and kindred workers</b>	1 117	1 160	1 109	1 416	737	8 448	4 570	4 709	4 627	5 025	9 351	2 229	8 590
Managers and administrators, except farm	48	88	97	94	55	2 673	2 558	2 578	2 585	2 191	2 191	284	285
Buyers, purchasing agents, and sales managers	1 069	921	1 012	1 312	682	5 775	3 751	4 099	4 099	4 900	7 160	1 935	8 305
Other managers and administrators	—	—	—	—	—	4 905	1 812	2 532	2 698	2 698	4 964	1 843	7 766
Salaried	—	151	69	5	32	870	200	1 610	1 567	2 020	2 196	92	539
Self-employed	—	—	—	—	—	—	—	—	—	—	—	—	—
<b>Sales workers</b>	84	306	274	402	337	13 872	21 277	6 177	5 006	7 739	29 649	7 785	8 595
<b>Clerical and kindred workers</b>	2 745	3 877	3 550	9 764	4 822	15 575	11 739	10 291	3 350	2 726	14 506	12 954	24 216
Bookkeepers	329	416	189	1 387	305	2 491	1 332	712	1 866	1 448	2 570	766	2 847
Cashiers	5	35	87	51	47	216	2 922	7 191	1 866	1 842	2 959	199	294
Estimators and investigators, n.e.c.	102	103	182	182	335	199	541	38	48	—	251	440	1 028
Office machine operators	416	130	64	299	156	810	290	118	118	24	242	587	1 902
Shipping and receiving clerks	87	709	33	148	33	1 315	466	29	52	14	458	25	1 250
Stock clerks and storekeepers	88	165	33	82	178	1 035	679	139	139	17	634	64	56
Other clerical and kindred workers	1 718	2 319	3 019	8 740	3 768	9 509	5 303	1 191	1 596	381	7 392	10 929	18 064
<b>Craftsmen and kindred workers</b>	2 086	1 876	1 579	5 648	7 578	6 479	2 640	1 696	6 717	306	6 813	243	835
Blacksmiths, farriers, hammermen, and boilermakers	20	—	—	7	80	14	—	6	7	—	—	—	7
Brickmasons and stonemasons	—	—	—	—	42	—	—	—	—	—	—	—	—
Carpenters	11	18	18	62	66	105	61	18	38	17	129	5	119
Cranemen, derrickmen, and hoistmen	19	12	5	23	66	315	5	—	—	—	—	—	—
Electricians	52	5	29	8	439	147	20	—	10	—	120	4	42
Excavating, grading, and road machine operators	22	24	8	5	154	147	—	—	—	—	—	—	—
Foremen, n.e.c.	181	551	188	508	1 190	2 465	857	483	214	79	712	101	199
Mechanics and repairmen	563	939	1 100	1 550	1 962	2 465	936	1 777	483	56	1 796	101	99
Automobile, including body	—	849	1 414	61	174	580	216	88	5	5	141	10	10
Machinists, job setters, and toolmakers	23	16	24	—	78	190	17	—	58	5	13	—	16
Metal craftsmen, except mechanics and machinists	—	24	12	—	34	118	5	—	4	—	76	—	—
Painters, construction and maintenance, and plasterers and paperhangers	9	10	27	—	85	90	35	—	55	5	38	19	126
Plumbers and pipe fitters	22	16	17	72	349	90	—	—	11	—	186	4	36
Printing craftsmen	—	10	16	—	24	46	—	—	—	—	21	—	16
Stationary engineers and power station operators	5	22	30	30	1 052	24	91	9	—	—	84	29	29
Other craftsmen and kindred workers	1 159	231	93	4 839	1 174	1 174	612	993	128	139	3 637	74	141
<b>Operatives, except transport</b>	212	375	706	135	1 024	5 233	993	5 365	8 113	139	2 961	65	253
Assemblers	—	12	9	5	—	264	21	20	34	4	91	5	12
Checkers, examiners, and inspectors; manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	—
Filers, polishers, sanders, and buffers	—	—	—	—	—	—	—	—	—	—	—	—	—
Painters, manufactured articles	—	—	—	—	—	—	—	—	—	—	—	—	—
Painters, manufactured articles	—	—	—	—	—	—	—	—	—	—	—	—	—
Precision machine operators	—	—	—	—	—	—	—	—	—	—	—	—	—
Welders and flamcutters	73	49	9	6	98	385	41	4	39	—	28	—	5
Other specified operatives	62	169	347	43	542	2 964	773	4 805	7 588	103	2 416	16	103
Machine operatives, miscellaneous specified	8	18	12	6	61	480	23	69	69	27	412	5	113
Machine operatives, not specified	5	107	35	—	92	363	35	60	25	—	70	16	103
Miscellaneous operatives	40	107	320	75	164	460	56	247	49	5	144	23	22
Not specified operatives	24	—	—	—	27	135	20	114	56	—	47	—	28

Table 180. Occupation of Employed Persons by Industry Group and Sex: 1970—Continued

(Data based on sample, see text. For meaning of symbols, see text.)

	Retail trade										Finance and real estate		
	Railroads and railway express service	Trucking service and warehousing	Other transportation	Communications	Utilities and sanitary services	Wholesale trade	General merchandise retailing	Food stores	Automotive dealers and gasoline stations	Eating and drinking places		Other retail trade	Insurance
<b>The State Standard Metropolitan Statistical Areas of 250,000 or More</b>													
<b>DETROIT SMSA—Continued</b>													
<b>Total employed—Continued</b>													
Transport equipment operatives.....	1 333	10 712	5 634	102	1 858	6 729	1 036	1 205	806	738	2 425	29	709
Deliverymen and routemen.....	31	970	73	34	20	3 254	777	652	299	588	1 341	10	17
Truck drivers.....	61	9 227	225	42	913	2 477	135	349	331	88	775	14	61
Other transport equipment operatives.....	1 241	5 515	5 336	26	925	998	124	204	176	62	309	5	31
<b>Laborers, except farm</b>	481	2 402	653	102	2 541	4 543	2 191	7 640	880	155	3 612	5	618
Freight, stock, and material handlers.....	125	2 206	388	40	1 331	3 364	2 058	7 417	163	75	2 263	5	35
Other specified laborers.....	16	86	132	17	1 331	434	57	76	601	6	979	—	450
Miscellaneous laborers.....	263	39	6	—	309	331	10	5	29	20	103	—	54
Not specified laborers.....	77	71	127	45	212	414	66	142	87	54	267	—	79
<b>Farm workers</b>	—	—	—	—	—	—	—	—	—	—	—	—	—
Service workers, including private household.....	336	284	670	364	669	1 034	2 999	1 342	412	39 742	5 267	270	3 183
Cleaning service workers.....	87	170	191	247	335	689	843	428	329	1 122	769	193	2 231
Personal service workers.....	42	29	217	22	95	60	211	69	20	237	237	35	181
Guards and watchmen.....	52	61	33	35	115	82	245	37	14	24	103	15	373
Other service workers, including private household.....	155	24	229	60	194	203	1 700	808	49	38 237	4 158	27	398
<b>Female employed</b>	1 487	2 217	4 390	10 429	3 201	14 951	34 467	16 789	3 504	31 274	39 407	12 926	27 094
<b>Professional, technical, and kindred workers</b>													
Accountants.....	51	50	104	454	187	399	604	114	52	243	870	359	528
Computer specialists.....	31	34	18	39	55	129	134	30	43	39	103	179	274
Life and physical scientists.....	5	—	—	38	17	58	27	5	—	—	—	44	44
Registered nurses, dietitians, and therapists.....	—	—	—	4	—	—	—	—	—	—	—	—	—
Social scientists.....	—	—	—	0	—	—	—	—	—	—	—	—	—
Writers, artists, and entertainers.....	5	5	8	20	6	17	182	12	5	163	214	10	34
Other professional, technical, and kindred workers.....	10	11	78	297	98	122	247	53	—	20	548	102	150
<b>Managers and administrators, except farm</b>	12	70	348	247	52	594	1 595	794	117	1 385	2 335	453	2 010
Salaried.....	12	70	348	247	52	504	1 532	314	83	896	1 760	453	1 901
Self-employed.....	—	—	—	—	4	90	63	410	34	549	575	—	109
<b>Sales workers</b>	9	—	100	102	63	880	18 102	4 193	186	446	17 495	1 208	2 337
<b>Clerical and kindred workers</b>	1 278	1 751	2 017	8 958	2 533	10 602	10 427	8 451	2 727	2 415	12 286	10 646	20 622
Bookkeepers.....	144	317	142	335	199	2 015	1 261	631	1 079	383	2 336	689	2 521
Cashiers.....	—	35	29	51	39	154	2 828	6 594	174	1 782	2 782	124	2 273
Counter clerks, except food.....	—	5	5	158	13	236	257	70	20	23	112	5	35
File clerks.....	59	57	8	256	66	367	391	53	112	12	304	960	655
Office machine operators.....	256	94	53	288	77	686	423	274	102	20	225	494	1 566
Bookkeeping and billing machine operators.....	7	10	—	15	—	62	24	19	75	—	28	33	650
Receptionists.....	157	438	367	528	499	1 776	855	236	48	16	238	144	305
Secretaries.....	78	5	10	28	145	3 376	855	384	110	—	1 356	2 582	3 384
Stenographers.....	70	204	123	700	235	1 001	628	90	23	—	65	127	125
Typists.....	514	580	1 264	6 582	1 241	2 482	3 710	491	539	26	660	2 416	2 141
Other clerical and kindred workers.....	—	—	—	—	—	—	—	—	—	—	—	—	—
<b>Craftsmen and kindred workers</b>	25	37	59	372	45	306	531	362	92	69	1 017	79	82
Foremen, n.e.c.....	—	11	26	109	13	66	303	90	5	5	189	67	54
<b>Operatives, except transport</b>	—	—	—	—	—	—	—	—	—	—	—	—	—
Assemblers.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Checkers, examiners, and inspectors; manufacturing.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Packers and wrappers, except meat and produce.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Other operatives, except transport.....	—	—	—	—	—	—	—	—	—	—	—	—	—
<b>Transport equipment operatives</b>	3	146	1 476	11	98	68	112	20	17	62	59	—	5
<b>Laborers, except farm</b>	32	36	37	19	47	423	442	500	38	32	487	—	29
<b>Farm workers</b>	—	—	—	—	—	—	—	—	—	—	—	—	—
Service workers, including private household.....	77	68	204	196	140	248	1 088	804	101	26 545	3 443	150	1 374
Cleaning service workers.....	27	4	28	118	94	120	274	76	56	299	725	107	1 049
Personal service workers.....	50	9	75	16	22	22	173	69	10	210	172	16	121
Other service workers, including private household.....	43	18	93	60	99	102	1 616	659	35	26 036	3 046	27	204

Table 180. Occupation of Employed Persons by Industry Group and Sex: 1970—Continued

[Data based on sample, see text. For meaning of symbols, see text.]

Occupation	Business services	Repair services	Hotels and lodging places	Other personal services, including private household	Entertainment and recreation services	Hospitals	Health services, except hospitals	Educational services, government	Educational services, private	Welfare, religious, and nonprofit membership organizations	Other professional and related services	Public administration
<b>DETROIT SMSA</b>												
<b>Total employed</b>	29 710	19 737	7 189	47 496	11 731	58 081	31 561	77 218	26 993	20 050	39 580	63 729
Professional, technical, and kindred workers	5 938	605	227	1 124	2 220	19 807	11 591	47 222	16 004	7 588	21 130	8 540
Accountants	858	88	69	23	43	196	47	120	24	120	3 078	1 826
Architects	11	—	—	—	5	—	—	29	—	—	872	14
Computer specialists	471	19	—	15	—	42	9	195	36	31	174	481
Engineers	627	71	—	18	11	48	68	139	22	85	2 356	1 122
Chemical	—	—	—	—	—	—	—	—	—	—	37	—
Civil	14	—	—	—	—	—	9	48	4	9	388	197
Electrical and electronic	80	25	—	—	5	9	—	48	—	—	224	45
Industrial	15	13	—	—	—	11	—	22	4	13	212	203
Mechanical	121	8	—	8	—	—	—	31	—	6	705	268
Other engineers	297	23	—	10	6	28	59	33	14	48	792	248
Mathematical specialists	45	—	—	—	—	—	—	—	—	—	—	—
Life and physical scientists	114	—	—	—	3	10	—	11	6	5	14	52
Chemists	70	—	—	—	—	173	54	49	14	—	100	124
Personnel and labor relations workers	680	8	32	16	30	73	27	15	10	—	52	58
Social scientists	178	—	—	—	—	202	42	110	67	—	93	975
Engineering and science technicians	1 115	77	—	6	50	141	42	156	38	65	73	248
Draftsmen	813	39	—	14	50	109	39	268	122	77	3 319	464
Electrical and electronic engineering technicians	44	18	—	5	25	10	6	31	30	66	36	105
Industrial and mechanical engineering technicians	—	—	—	—	—	—	—	51	11	—	10	36
Mechanics, except health, and engineering and science	28	18	—	61	4	—	19	43	22	40	539	256
Writers, artists, and entertainers	1 490	27	65	750	1 433	86	11 253	271	1 999	6 258	1 619	2 439
Other professional, technical, and kindred workers	341	297	—	221	641	18 800	—	45 831	15 449	—	9 370	—
<b>Managers and administrators, except farm</b>	2 888	1 723	815	2 171	1 449	1 132	757	3 640	1 476	2 269	1 304	6 139
Buyers, purchasing agents, and sales managers	324	74	22	37	33	117	10	44	44	20	76	275
Other managers and administrators	2 364	1 649	793	2 134	1 386	1 015	747	3 564	1 432	2 249	1 256	5 864
Self-employed	2 077	1 066	547	1 334	1 083	1 009	713	3 564	1 381	2 249	1 171	5 864
Self-employed	487	583	246	800	313	6	34	—	51	—	85	—
<b>Sales workers</b>	1 705	518	6	475	428	75	38	104	143	195	391	142
Clerical and kindred workers	9 560	2 777	1 515	4 827	1 749	10 620	5 845	11 514	4 335	5 539	10 321	27 081
Bookkeepers	854	470	226	500	250	580	624	575	185	481	1 183	959
Cashiers	46	262	107	259	588	36	—	400	122	64	127	177
Estimators and investigators, n.e.c.	301	132	—	19	36	—	—	31	5	38	116	525
Office machine operators	1 397	48	15	67	26	296	25	228	104	171	509	759
Shipping and receiving clerks	48	19	5	21	5	63	15	26	9	28	80	—
Stock clerks and storekeepers	38	42	14	91	5	252	16	86	28	28	27	354
Other clerical and kindred workers	6 876	1 809	1 142	3 867	905	9 132	5 165	10 188	3 878	4 749	8 398	24 087
<b>Craftsmen and kindred workers</b>	1 919	8 593	153	1 036	802	938	703	1 793	452	517	895	2 853
Blacksmiths, forgemen, hammermen, and boilermakers	6	46	—	—	—	5	—	11	4	15	4	5
Brickmasons and stonemasons	55	6	—	16	—	6	5	10	5	10	10	10
Carpenters	62	10	13	7	28	125	—	111	56	36	31	112
Cranemen, derrickmen, and hoistmen	32	—	—	—	—	—	—	—	—	—	—	24
Electricians	51	15	20	4	15	104	—	87	33	—	38	137
Excavating, grading, and road machine operators	268	186	18	173	18	98	6	4	41	75	155	106
Foremen, n.e.c.	646	870	35	1 330	286	167	12	302	43	41	128	481
Mechanics and repairmen	87	4 042	—	29	18	4	—	120	12	5	22	1 499
Automobile, including body	24	162	—	16	8	5	—	25	10	—	111	37
Machinists, job setters, and toolmakers	94	14	5	7	—	—	—	32	—	—	93	12
Metal craftsmen, except mechanics and machinists	68	117	31	40	20	152	6	28	37	47	28	155
Painters, construction and maintenance, and plasterers and paperhangers	12	11	4	—	—	31	5	107	34	82	10	31
Plumbers and pipe fitters	116	6	—	11	12	103	10	81	47	16	21	52
Printing craftsmen	21	—	13	—	—	—	—	407	40	35	15	58
Stationary engineers and power station operators	462	1 120	14	610	330	122	606	336	102	77	256	230
Other craftsmen and kindred workers	—	—	—	—	—	—	—	—	—	—	—	—
<b>Operatives, except transport</b>	1 430	2 179	181	6 903	217	1 264	275	565	172	241	622	584
Assemblers	54	49	—	21	—	—	4	—	—	10	55	28
Checkers, examiners, and inspectors; manufacturing	—	—	—	—	—	—	—	—	—	—	—	—
Fillers, polishers, sonders, and buffers	10	54	—	5	—	—	5	—	—	—	—	—
Painters, manufactured articles	10	318	6	8	—	6	—	4	—	—	5	—
Precision machine operatives	23	158	—	—	—	—	—	13	—	—	23	18
Welders and flamecutters	868	621	161	5	6	4	—	5	18	12	32	27
Other specified operatives	142	746	—	65	152	1 115	257	483	69	19	386	317
Machine operatives, miscellaneous specified	60	83	4	6	18	52	4	17	13	19	39	35
Machine operatives, not specified	227	118	5	41	36	52	5	34	62	56	80	80
Miscellaneous operatives	20	17	5	39	5	14	—	—	—	18	19	14
Not specified operatives	—	—	—	—	—	—	—	—	—	—	—	—

The State Standard Metropolitan Statistical Areas of 250,000 or More

DETROIT SMSA

Table 180. Occupation of Employed Persons by Industry Group and Sex: 1970—Continued

(Data based on sample, see text. For meaning of symbols, see text)

The State  
Standard Metropolitan Statistical Areas  
of 250,000 or More

DETROIT SMSA—Continued

Total employed—Continued

Occupation	Business services	Repair services	Hotels and lodging places	Other personal services, including private household	Entertainment and recreation services	Hospitals	Health services, except hospitals	Educational services, government	Educational services, private	Welfare, religious, and nonprofit membership organizations	Other professional and related services	Public administration
Transport equipment operatives	625	1 058	55	1 267	129	110	110	265	78	156	108	946
Deliverymen and routemen	212	73	20	888	28	31	31	37	—	21	27	48
Truck drivers	285	335	6	168	40	24	24	56	—	51	26	796
Other transport equipment operatives	128	650	29	211	61	62	55	172	78	51	53	172
Laborers, except farm	520	1 380	76	879	568	338	68	316	165	229	145	1 663
Freight, stock, and material handlers	186	36	5	303	38	158	10	60	38	93	10	811
Other specified laborers	104	1 069	43	318	396	133	9	202	116	65	123	678
Miscellaneous laborers	34	146	31	10	5	—	—	5	—	11	—	28
Not specified laborers	196	129	28	248	88	47	49	49	11	60	12	146
Farm workers	—	—	—	—	—	—	—	—	—	—	—	—
Service workers, including private household	5 125	984	4 161	28 814	4 169	23 797	12 174	11 799	4 168	3 316	4 664	15 781
Cleaning service workers	2 948	227	2 052	690	816	3 862	1 049	6 098	1 865	1 885	296	1 473
Personal service workers	176	63	706	11 295	1 252	544	272	2 348	584	584	136	309
Guards and watchmen	1 736	27	28	40	67	14	14	123	119	70	76	652
Other service workers, including private household	265	587	1 375	16 789	2 034	19 118	10 839	3 230	1 432	777	4 156	13 347
Female employed	12 874	3 357	4 551	35 375	4 712	45 857	22 363	49 096	17 921	10 398	17 940	21 709
Professional, technical, and kindred workers	1 476	92	140	450	785	15 004	4 496	30 379	10 695	2 927	4 511	2 393
Accountants	403	24	30	8	15	143	32	52	8	8	44	589
Computer specialists	66	—	—	—	—	6	5	20	—	—	9	150
Lifeline physical scientists	13	—	—	—	—	—	—	13	—	—	—	16
Registered nurses, dietitians, and therapists	52	—	6	104	—	10 884	2 748	366	132	93	50	103
Social scientists	4	—	—	6	—	49	—	64	15	29	12	18
Writers, artists, and entertainers	307	—	42	255	412	27	5	130	110	550	288	82
Other professional, technical, and kindred workers	636	68	62	77	358	3 830	1 678	29 734	10 413	2 205	3 616	1 435
Managers and administrators, except farm	441	116	239	596	198	470	381	979	617	402	273	928
Salaried	351	52	145	419	168	470	363	979	592	402	262	928
Self-employed	90	64	94	177	30	—	18	—	25	—	11	—
Sales workers	298	109	6	309	272	70	26	58	64	106	129	73
Clerical and kindred workers	8 087	2 162	1 201	4 419	1 322	9 788	5 689	10 523	3 898	5 000	9 234	16 223
Bookkeepers	738	199	196	239	339	524	608	386	180	432	994	721
Cashiers	27	21	107	252	249	249	20	34	126	62	49	100
Counter clerks, except food	37	21	379	1 834	71	174	91	220	13	120	5	30
File clerks	299	50	9	40	423	220	171	129	129	171	171	474
Office machine operators	1 204	31	15	50	20	225	18	180	89	135	426	596
Bookkeeping and billing machine operators	26	—	11	5	15	52	10	—	4	23	21	45
Receptionists	161	59	55	470	38	1 125	18	92	86	246	209	131
Secretaries	2 376	367	143	338	302	2 350	1 593	3 921	1 724	2 676	3 846	2 204
Stenographers	143	10	6	119	13	40	48	121	23	112	70	657
Typists	1 002	141	83	119	83	1 493	480	1 208	514	575	663	2 968
Other clerical and kindred workers	2 100	875	277	876	181	3 165	727	3 820	1 014	630	2 801	8 342
Craftsmen and kindred workers	134	170	9	250	8	93	143	258	64	42	77	37
Foremen, n.e.c.	25	—	—	82	4	43	20	31	15	26	26	18
Operatives, except transport	606	296	129	5 196	52	866	216	100	56	115	188	65
Assemblers	44	4	—	14	—	—	—	—	—	10	20	11
Checkers, examiners, and inspectors; manufacturing	205	20	—	92	—	18	5	5	—	—	30	—
Packers and wrappers, except meat and produce	357	272	129	5 090	52	848	211	95	56	105	138	54
Other operatives, except transport	—	—	—	—	—	—	—	—	—	—	—	—
Transport equipment operatives	41	61	4	37	11	16	13	107	48	5	13	43
Laborers, except farm	92	91	26	341	46	126	32	30	24	29	16	304
Farm workers	—	—	—	—	—	—	—	—	—	—	—	—
Service workers, including private household	1 699	260	2 797	23 777	2 018	19 424	11 367	6 662	2 455	1 772	3 499	1 643
Cleaning service workers	1 406	41	1 514	7 999	213	2 427	717	4 951	495	661	97	265
Personal service workers	160	22	489	7 593	466	243	243	2 063	666	458	124	182
Other service workers, including private household	133	197	794	15 885	1 319	16 565	10 407	3 080	1 294	653	3 278	1 196

Table 180. Occupation of Employed Persons by Industry Group and Sex: 1970—Continued

(Data based on sample, see text. For meaning of symbols, see text)

The State Standard Metropolitan Statistical Areas of 250,000 or More	FLINT SMSA	Persons 16 years old and over	Agriculture, forestry, and fisheries	Mining	Construc- tion	Manufacturing							
						Total	Durable goods					Electrical machinery, equipment, and supplies	
							Furniture, lumber, and wood products	Stone, clay, and glass products	Primary ferrous industries	Primary nonferrous industries	Fabricated metal industries, including not specified metal		Machinery, except electrical
		176 566	2 204	181	6 923	80 791	233	369	566	19	3 019	1 660	1 642
		20 866	108	5	139	4 848	11	11	18	—	137	161	145
		1 070	27	—	5	452	—	—	6	—	36	5	6
		287	—	—	—	172	—	—	—	—	—	15	12
		2 083	—	5	65	1 682	—	—	—	—	44	84	57
		40	—	—	—	35	—	—	—	—	—	—	—
		127	—	—	45	34	—	—	—	—	5	—	—
		27	—	—	4	135	—	—	—	—	5	—	—
		50	—	—	—	360	—	—	—	—	13	—	—
		745	—	—	—	743	—	—	—	—	22	—	—
		342	—	5	16	173	—	—	—	—	21	—	—
		32	—	—	—	23	—	—	—	—	—	—	—
		204	—	—	—	150	—	—	4	—	—	—	—
		166	—	—	—	150	—	—	4	—	—	—	—
		581	—	—	—	298	—	—	4	—	—	—	—
		148	—	—	—	30	—	—	—	—	—	—	—
		1 672	11	—	41	1 193	11	11	4	—	40	27	32
		723	—	—	4	547	6	6	4	—	40	21	—
		75	—	—	—	23	—	—	—	—	—	—	—
		224	—	—	—	216	—	—	—	—	—	—	—
		119	—	—	—	17	—	—	—	—	—	—	—
		704	26	—	—	345	—	—	—	—	5	18	9
		13 686	44	—	13	486	—	—	—	—	12	12	18
		9 361	29	11	643	1 222	9	28	18	—	95	94	43
		1 185	17	—	443	239	6	10	9	6	11	25	25
		8 170	29	11	626	963	3	18	9	—	84	69	18
		6 578	19	11	387	873	3	8	9	—	80	69	9
		1 673	10	—	239	90	—	10	—	—	4	—	—
		10 568	18	—	43	713	16	6	—	—	34	78	10
		24 841	43	3	435	6 291	—	27	19	—	267	94	164
		2 783	11	3	100	471	—	15	—	—	29	17	11
		1 958	—	—	—	24	—	—	—	—	—	—	—
		457	—	—	85	99	—	—	—	—	8	5	—
		1 054	—	—	—	567	—	—	—	—	5	—	—
		483	—	—	—	483	—	—	10	—	38	6	—
		1 467	—	—	14	1 075	—	—	—	—	29	—	—
		16 429	32	—	236	3 572	—	12	9	—	158	66	118
		31 801	24	42	4 266	21 556	62	52	205	9	1 032	583	386
		78	—	—	5	69	—	—	7	—	24	—	—
		289	—	—	251	33	—	—	—	—	—	—	—
		1 239	—	—	921	183	19	7	9	—	15	—	—
		469	—	16	59	469	—	6	13	—	28	—	—
		1 642	—	—	422	1 096	—	6	13	—	61	13	22
		174	5	12	346	19	—	—	—	—	—	—	—
		5 005	—	—	446	4 095	17	14	57	—	193	72	99
		9 772	15	3	204	4 400	5	14	12	—	86	64	38
		6 722	15	3	16	2 311	—	—	—	—	9	7	—
		8 422	—	—	9	6 400	—	—	11	9	489	380	167
		2 112	—	—	183	1 903	—	—	80	—	81	31	27
		626	—	—	301	224	—	—	5	—	6	—	—
		1 213	—	—	443	633	—	—	—	—	10	20	12
		358	—	—	—	302	—	—	—	—	4	—	—
		4 437	4	6	865	1 585	21	11	11	—	22	—	—
		41 041	—	93	365	36 650	74	120	238	4	1 172	570	804
		11 792	—	—	—	11 712	7	29	7	—	101	37	349
		4 543	—	—	—	4 543	5	4	12	—	87	35	95
		783	—	—	—	741	5	—	7	—	57	3	13
		1 001	—	—	—	935	—	6	—	—	9	—	18
		2 347	—	—	10	2 300	—	5	26	—	59	224	50
		2 630	—	7	85	2 369	—	11	16	—	199	64	9
		10 933	—	86	252	7 463	36	31	71	4	411	112	112
		1 886	—	—	14	1 760	—	16	45	—	85	30	50
		3 050	—	—	—	2 963	5	7	16	—	115	87	69
		1 962	—	—	4	943	11	10	11	—	27	17	14
		—	—	—	—	921	—	—	27	—	22	—	30

Table 180. Occupation of Employed Persons by Industry Group and Sex: 1970—Continued

[Data based on sample, see text. For meaning of symbols, see text.]

The State  
Standard Metropolitan Statistical Areas  
of 250,000 or More

FLINT SMSA—Continued

Total employed—Continued

	Persons 16 years old and over	Agriculture, forestry, and fisheries	Mining	Construc- tion	Manufacturing						Total
					Furniture, lumber, and wood products	Stone, clay, and glass products	Primary ferrous industries	Primary nonferrous industries	Fabricated metal industries, including not specified metal	Machinery, except electrical	
Transport equipment operatives.....	7 172	8	9	175	29	92	23	—	82	20	20
Deliverymen and roulemen.....	1 182	4	—	15	—	16	5	—	5	4	4
Truck drivers.....	3 528	4	9	141	14	58	9	—	38	4	10
Other transport equipment operatives.....	2 462	—	—	19	15	18	9	—	39	12	10
Laborers, except farm.....	7 507	117	18	795	37	110	36	—	110	19	28
Freight, stock, and material handlers.....	4 196	18	—	30	6	74	8	—	74	11	17
Other specified laborers.....	2 286	107	—	765	17	9	—	—	9	5	—
Miscellaneous laborers.....	10 364	10	—	—	—	—	28	—	—	—	—
Not specified laborers.....	661	—	—	—	14	9	—	—	18	3	11
Farm workers.....	1 829	1 829	—	—	—	—	—	—	—	—	—
Service workers, including private household.....	21 580	28	—	62	6	15	9	—	70	41	42
Cleaning service workers.....	4 091	—	—	47	6	11	9	—	46	36	32
Personal service workers.....	2 469	—	—	—	—	—	—	—	—	—	—
Guard and watchmen.....	487	—	—	—	—	4	—	—	20	—	4
Other service workers, including private household.....	13 508	28	—	15	—	—	—	—	4	5	6
Female employed.....	59 132	292	14	364	34	73	15	—	589	198	734
Professional, technical, and kindred workers.....	8 785	19	—	—	—	—	—	—	6	5	19
Accountants.....	330	—	—	—	—	—	—	—	6	5	—
Computer specialists.....	51	—	—	—	—	—	—	—	—	—	—
Life and physical scientists.....	17	—	—	—	—	—	—	—	—	—	—
Registered nurses, dietitians, and therapists.....	1 815	—	—	—	—	—	—	—	—	—	—
Social scientists.....	35	—	—	—	—	—	—	—	—	—	—
Writers, artists, and entertainers.....	266	14	—	—	—	—	—	—	—	—	—
Other professional, technical, and kindred workers.....	6 271	5	—	—	—	—	—	—	—	—	—
Managers and administrators, except farm.....	1 599	5	7	6	—	—	—	—	4	5	—
Salaried.....	1 345	5	7	6	—	—	—	—	4	5	—
Self-employed.....	254	—	—	—	—	—	—	—	—	—	—
Sales workers.....	5 047	7	—	—	—	—	—	—	—	—	—
Clerical and kindred workers.....	18 219	43	—	270	—	15	5	—	119	78	99
Bookkeepers.....	2 356	11	—	80	—	10	—	—	16	17	5
Cashiers.....	1	—	—	—	—	—	—	—	—	—	—
Counter clerks, except food.....	20 700	—	—	—	—	—	—	—	—	—	—
File clerks.....	437	—	—	—	—	—	—	—	—	—	—
Office machine operators.....	359	—	—	—	—	—	—	—	—	—	—
Bookkeeping and billing machine operators.....	770	—	—	—	—	—	—	—	5	—	—
Receptionists.....	86	—	—	—	—	—	—	—	—	—	—
Secretaries.....	4 327	6	—	10	—	—	—	—	3	—	—
Stenographers.....	287	21	—	5	—	5	5	—	34	51	36
Typists.....	1 587	—	—	—	—	—	—	—	—	—	—
Other clerical and kindred workers.....	5 789	5	—	41	—	—	—	—	26	10	6
Foremen, n.e.c.....	1 014	—	—	40	—	5	5	—	31	4	4
Craftsmen and kindred workers.....	181	—	—	64	—	—	—	—	6	—	—
Operatives, except transport.....	9 477	—	7	16	28	53	5	—	395	95	596
Assemblers.....	3 262	—	—	—	—	18	—	—	52	18	300
Checkers, examiners, and inspectors; manufacturing.....	814	—	—	—	5	—	—	—	33	5	61
Packers and wrappers, except meat and produce.....	412	—	—	—	—	—	—	—	28	—	22
Other operatives, except transport.....	4 989	—	7	16	23	35	5	—	282	72	213
Transport equipment operatives.....	630	—	—	—	—	—	—	—	—	—	—
Laborers, except farm.....	535	18	—	—	—	—	—	—	15	—	—
Farm workers.....	185	185	—	—	—	—	—	—	—	—	—
Service workers, including private household.....	13 641	15	—	32	6	—	—	—	19	11	12
Personal service workers.....	1 542	—	—	23	6	—	—	—	15	11	6
Other service workers, including private household.....	1 731	—	—	—	—	—	—	—	—	—	—
Other service workers, including private household.....	10 368	15	—	9	—	—	—	—	4	—	6



Table 180. Occupation of Employed Persons by Industry Group and Sex: 1970—Continued

(Data based on sample, see text. For meaning of symbols, see text)

The State Standard Metropolitan Statistical Areas of 250,000 or More		Manufacturing—Continued												
		Durable goods—Continued					Nondurable goods							
		Motor vehicles and motor vehicle equipment	Aircraft and parts	Other transportation equipment	Ordnance	Other durable goods	Food and kindred products	Textile mill products	Apparel and other fabricated textile products	Paper and allied products	Printing, publishing, and allied industries	Chemicals and allied products	Rubber and miscellaneous plastic products	Other nondurable goods, incl. not specified manufacturing
<b>FLINT SMSA</b>		63 643	51	793	20	4 309	970	182	370	328	1 056	746	224	591
<b>Total employed</b>		3 743	3	50	—	192	27	5	10	5	133	188	—	40
Accountants		369	—	10	—	—	—	—	—	—	—	—	—	—
Architects		—	—	—	—	—	—	—	—	—	—	—	—	—
Computer specialists		145	—	—	—	—	—	—	—	—	—	—	—	—
Engineers		1 421	—	4	—	30	—	—	5	5	—	20	—	12
Chemical		15	—	—	—	—	—	—	—	—	—	20	—	—
Civil		24	—	—	—	—	—	—	—	—	—	—	—	—
Electrical and electronic		89	—	—	—	5	—	—	—	—	—	—	—	—
Industrial		517	—	—	—	14	—	—	5	—	—	—	—	5
Mechanical		694	—	—	—	—	—	—	—	—	—	—	—	—
Other engineers		82	—	4	—	7	—	—	—	—	—	—	—	7
Mathematical specialists		23	—	—	—	—	—	—	—	—	—	—	—	—
Life and physical scientists		120	—	—	—	—	—	—	—	—	—	20	—	—
Chemists		120	—	—	—	—	—	—	—	—	—	20	—	—
Personnel and labor relations workers		243	—	—	—	9	—	—	—	—	—	26	—	6
Social scientists		19	—	6	—	—	—	—	—	—	—	—	—	—
Engineering and science technicians		942	3	11	—	9	17	—	—	—	5	88	—	4
Draftsmen		436	—	11	—	5	—	—	—	—	5	—	—	4
Electrical and electronic engineering technicians		10	—	—	—	—	—	—	—	—	—	—	—	—
Industrial and mechanical engineering technicians		200	3	—	—	—	9	—	—	—	—	—	—	—
Technicians, except health, and engineering and science writers, artists, and entertainers		177	—	8	—	—	—	—	5	—	—	—	—	—
Other professional, technical, and kindred workers		272	—	11	—	134	—	—	—	—	123	9	—	18
Managers and administrators, except farm		611	—	44	—	68	59	15	21	23	58	4	15	11
Buyers, purchasing agents, and sales managers		109	—	—	—	—	11	5	—	8	4	—	3	6
Other managers and administrators		502	—	25	—	68	48	10	21	15	54	4	10	5
Salaried		494	—	25	—	42	48	10	14	15	32	4	10	5
Self-employed		8	—	—	—	26	—	—	7	—	22	—	—	—
Sales workers		85	—	11	—	26	52	9	14	7	200	61	13	91
Clerical and kindred workers		4 770	4	92	—	226	112	5	38	16	240	115	39	63
Bookkeepers		280	—	14	—	8	26	—	10	—	42	14	—	4
Cashiers		20	—	—	—	—	—	—	—	—	—	—	—	—
Estimators and investigators, n.e.c.		77	—	—	—	—	—	—	—	—	—	—	—	—
Office machine operators		488	—	—	—	—	18	—	9	—	14	23	—	4
Shipping and receiving clerks		344	—	—	—	7	—	—	6	6	10	—	6	—
Stock clerks and stockkeepers		1 009	—	3	—	—	12	—	—	—	—	13	—	—
Other clerical and kindred workers		2 552	4	75	—	207	44	—	13	10	169	47	33	55
Craftsmen and kindred workers		17 147	23	193	9	994	178	50	41	33	303	116	24	96
Blacksmiths, forgers, hammermen, and boilermakers		45	—	—	—	—	—	—	—	—	—	—	—	—
Brickmasons and stonemasons		26	—	—	—	—	—	—	—	—	—	—	—	—
Carpenters		121	—	21	—	—	—	—	—	—	—	—	—	—
Cranemen, derrickmen, and hoistmen		428	—	—	—	—	—	—	—	—	—	—	—	—
Electricians		958	—	—	—	—	8	10	—	—	—	5	—	—
Excavating, grading, and road machine operators		19	—	—	—	—	—	—	—	—	—	—	—	—
Foremen, n.e.c.		3 337	4	41	6	38	76	16	19	19	20	43	10	14
Mechanics and repairmen		3 976	—	27	—	36	65	14	14	10	5	23	—	11
Automobile, including body		2 227	—	10	—	13	40	—	—	—	—	—	—	5
Machinists, job setters, and toolmakers		5 224	19	24	—	39	—	—	8	—	—	6	8	16
Metal craftsmen, except mechanics and machinists		1 612	—	8	—	26	5	4	—	—	—	24	—	5
Painters, construction and maintenance, and plasterers and paperhangers		218	—	—	—	—	—	—	—	—	—	—	—	—
Pumbers and pipe fitters		574	—	6	—	6	—	—	—	—	—	—	—	—
Printing craftsmen		11	—	—	3	—	—	—	—	—	267	—	—	12
Stationary engineers and power station operators		107	—	—	—	5	—	—	—	—	—	—	—	—
Other craftsmen and kindred workers		491	—	66	—	844	24	6	—	—	11	6	6	31
Operatives, except transport		29 771	16	327	11	2 196	254	70	224	213	46	195	105	240
Assemblers		10 844	—	139	—	98	10	10	43	19	—	10	10	6
Checkers, examiners, and inspectors; manufacturing		4 141	5	9	—	5	4	—	33	—	5	—	—	93
Filters, polishers, sanders, and buffers		656	—	—	—	—	—	—	—	—	—	—	—	—
Painters, manufactured articles		877	—	—	—	—	—	—	—	—	—	—	—	—
Precision machine operatives		1 897	11	5	—	13	—	—	—	—	—	—	—	—
Welders and flamecutters		2 015	—	13	—	—	—	—	—	—	—	—	—	—
Other specified operatives		4 114	—	114	—	1 921	174	50	91	55	14	76	10	6
Machine operatives, miscellaneous specified		1 256	—	13	11	32	26	—	34	5	5	44	17	8
Machine operatives, not specified		2 474	—	19	—	32	24	—	11	30	6	41	17	9
Miscellaneous operatives		791	—	5	—	8	3	—	12	11	16	14	4	—
Not specified operatives		706	—	5	—	63	13	—	—	—	—	17	10	3

Table 180. Occupation of Employed Persons by Industry Group and Sex: 1970 - Continued

(Data based on sample, see text. For meaning of symbols, see text)

	Manufacturing - Continued												
	Durable goods - Continued					Nondurable goods							
	Motor vehicles and motor vehicle equipment	Aircraft and parts	Other transportation equipment	Ordnance	Other durable goods	Food and kindred products	Textile mill products	Apparel and other fabricated textile products	Paper and allied products	Printing, publishing, and allied industries	Chemicals and allied products	Rubber and miscellaneous plastic products	Other nondurable goods, incl. not specified manufacturing
<b>FLINT SMSA - Continued</b>													
<b>Total employed - Continued</b>													
Transport equipment operatives.....	2 496	5	20	-	148	179	18	5	13	26	48	14	21
Deliverymen and routemen.....	77	-	-	-	15	101	-	-	-	16	12	5	6
Truck drivers.....	1 527	5	17	-	27	44	9	5	13	10	15	9	4
Other transport equipment operatives.....	892	-	3	-	106	34	9	-	-	-	21	-	11
<b>Labors, except farm</b>													
Freight, stock, and material handlers.....	2 736	-	27	-	262	64	7	17	7	19	16	9	21
Other specified laborers.....	1 795	-	9	-	20	28	4	11	4	5	12	4	5
Miscellaneous laborers.....	400	-	3	-	224	14	3	-	3	-	-	-	13
Miscellaneous laborers.....	172	-	-	-	10	11	-	-	-	4	-	-	-
Not specified laborers.....	369	-	15	-	8	11	4	6	-	10	4	5	3
<b>Farm workers</b>													
Service workers, including private household.....	-	-	-	-	-	-	-	-	-	-	-	-	-
Cleaning service workers.....	2 284	-	29	-	197	45	3	-	11	31	23	5	8
Personal service workers.....	1 599	-	16	-	19	27	3	-	11	31	20	5	8
Guards and watchmen.....	35	-	-	-	-	-	-	-	-	-	-	-	-
Other service workers, including private household.....	442	-	8	-	6	-	-	-	-	-	3	-	-
Other service workers, including private household.....	208	-	5	-	172	18	-	-	-	-	-	-	-
<b>Female employed</b>													
8 317	4	193	3	675	246	17	252	125	368	80	134	166	
<b>Professional, technical, and kindred workers</b>													
Accountants.....	187	-	6	-	9	9	5	-	-	42	3	-	-
Computer specialists.....	62	-	-	-	-	-	-	-	-	-	-	-	-
Life and physical scientists.....	22	-	-	-	-	-	-	-	-	-	-	-	-
Registered nurses, dietitians, and therapists.....	80	-	-	-	-	-	-	-	-	-	-	-	-
Social scientists.....	-	-	6	-	-	-	-	-	-	-	-	-	-
Writers, artists, and entertainers.....	-	-	-	-	5	-	-	-	-	37	-	-	-
Other professional, technical, and kindred workers.....	23	-	-	-	4	9	4	-	-	5	3	-	-
<b>Managers and administrators, except farm</b>													
Salaries.....	29	-	-	-	5	5	-	14	-	11	-	-	-
Self-employed.....	29	-	-	-	5	5	-	14	-	11	-	-	-
<b>Sales workers</b>													
11	-	-	-	-	-	-	-	9	-	20	-	-	-
<b>Clerical and kindred workers</b>													
1 846	4	70	-	94	73	5	28	10	196	59	39	54	
Bookkeepers.....	133	8	-	8	21	2	5	10	9	33	-	-	4
Cashiers.....	16	-	-	-	-	-	-	-	-	-	-	-	-
Counter clerks, except food.....	26	-	-	-	-	5	-	-	22	-	-	-	-
File clerks.....	46	-	-	-	-	-	-	-	5	-	-	-	-
Office machine operators.....	342	-	-	-	-	12	-	9	-	23	-	-	-
Bookkeeping and billing machine operators.....	10	-	-	-	-	-	-	-	-	-	-	-	-
Receptionists.....	4	-	-	-	2	6	-	-	4	-	-	-	3
Secretaries.....	411	4	52	-	6	13	-	5	36	7	11	19	9
Stenographers.....	109	-	-	-	6	-	-	-	9	6	6	5	6
Typists.....	311	-	5	-	-	-	-	4	24	10	8	5	8
Other clerical and kindred workers.....	448	-	5	-	78	16	-	-	54	4	4	17	20
<b>Craftsmen and kindred workers</b>													
262	-	16	3	25	11	-	-	-	44	-	-	10	5
Foremen, n.e.c.....	40	-	-	3	-	-	-	-	-	-	-	10	-
<b>Operatives, except transport</b>													
5 553	-	87	-	499	192	7	201	115	46	11	75	96	
Assemblers.....	2 726	25	5	22	4	4	4	11	5	5	10	10	10
Checkers, examiners, and inspectors; manufacturing.....	659	-	-	-	4	4	-	-	5	8	5	5	8
Packers and wrappers, except meat and produce.....	107	-	-	-	62	62	-	-	9	6	6	5	8
Other operatives, except transport.....	2 057	-	57	-	477	82	7	135	99	33	5	50	78
<b>Transport equipment operatives</b>													
34	-	-	-	-	11	-	-	-	-	-	-	-	-
<b>Laborers, except farm</b>													
155	-	9	-	23	-	-	-	-	4	7	5	9	-
<b>Farm workers</b>													
Service workers, including private household.....	-	-	-	-	-	-	-	-	-	-	-	-	-
Cleaning service workers.....	240	-	5	-	20	5	-	-	5	5	5	5	2
Personal service workers.....	116	-	-	-	-	-	-	-	-	-	-	-	-
Other service workers, including private household.....	10	-	-	-	-	-	-	-	-	-	-	-	-
114	-	5	-	20	5	-	-	-	-	-	-	-	-

Table 180. Occupation of Employed Persons by Industry Group and Sex: 1970—Continued

[Data based on sample, see text. For meaning of symbols, see text.]

Occupation	Railroads and railway express service	Trucking service and warehousing	Other transportation	Communit- cations	Utilities and sanitary services	Wholesale trade	Retail trade				Insurance	Finance and real estate	
							General merchandise retailing	Food stores	Automotive dealers and gasoline stations	Eating and drinking places			Other retail trade
<b>FLINT SMSA</b>													
<b>Total employed</b> .....	530	1 855	844	1 561	1 624	5 544	4 259	3 985	3 864	4 710	8 814	1 582	3 730
Professional, technical, and kindred workers.....	—	12	12	197	116	284	58	10	19	20	298	4	91
Accountants.....	—	5	5	11	11	71	6	6	11	—	23	—	38
Architects.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Computer specialists.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Engineers.....	—	—	—	42	28	47	4	—	—	—	—	—	21
Chemical.....	—	—	—	—	—	69	—	—	5	—	15	—	—
Civil.....	—	—	—	—	—	5	—	—	—	—	—	—	—
Electrical and electronic.....	—	—	—	42	6	—	—	—	—	—	—	—	—
Industrial.....	—	—	—	—	—	22	—	—	—	—	—	—	—
Mechanical.....	—	—	—	—	—	4	—	—	—	—	—	—	—
Other engineers.....	—	—	—	18	18	32	—	—	5	—	15	—	—
Mathematical specialists.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Life and physical scientists.....	—	—	—	—	—	4	—	—	—	—	—	—	—
Chemists.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Personnel and labor relations workers.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Social scientists.....	—	—	—	24	5	—	16	—	3	7	14	—	—
Engineering and science technicians.....	—	—	—	20	23	27	7	—	—	—	—	—	—
Draftsmen.....	—	—	—	—	—	5	—	—	—	—	—	—	—
Electrical and electronic engineering technicians.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial and mechanical engineering technicians.....	—	—	—	20	11	—	—	—	—	—	—	—	—
Technicians, except health, and engineering and science.....	—	—	—	5	24	—	6	—	—	—	—	—	—
Writers, artists, and entertainers.....	—	—	—	101	5	16	12	—	—	13	26	—	—
Other professional, technical, and kindred workers.....	—	—	—	—	10	15	8	—	—	—	220	—	—
<b>Managers and administrators, except farm</b> .....	69	102	44	98	68	593	506	529	651	513	1 017	139	692
Buyers, purchasing agents, and sales managers.....	—	10	—	—	4	116	271	84	88	13	244	20	32
Other managers and administrators.....	69	82	44	98	64	477	235	445	563	500	773	119	660
Self-employed.....	69	87	39	98	60	374	182	302	494	297	494	114	584
Self-employed.....	—	5	5	—	—	103	279	143	207	53	279	5	76
<b>Sales workers</b> .....	6	29	—	42	30	910	2 139	543	559	53	3 738	677	784
<b>Clerical and kindred workers</b> .....	105	247	87	694	301	1 434	917	1 104	391	225	1 472	751	1 790
Bookkeepers.....	—	28	—	26	33	199	186	81	30	446	45	—	266
Cashiers.....	—	9	4	—	—	32	331	869	40	164	222	15	40
Estimators and investigators, n.e.c.....	—	—	—	41	34	—	5	5	13	—	5	—	17
Office machine operators.....	11	5	—	—	—	93	16	4	12	8	—	—	46
Shipping and receiving clerks.....	9	5	—	—	—	16	54	4	9	—	—	—	141
Stock clerks and storekeepers.....	17	7	—	10	5	97	52	48	10	43	3	—	9
Other clerical and kindred workers.....	68	183	83	617	229	911	342	97	121	31	745	—	1 296
<b>Craftsmen and kindred workers</b> .....	129	219	40	480	626	553	186	149	784	31	811	4	64
Blacksmiths, forgers, hammermen, and boilermakers.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Brickmasons and stonemasons.....	—	—	—	—	—	5	—	—	—	—	—	—	—
Carpenters.....	—	—	—	—	—	27	—	—	6	—	42	—	5
Cranemen, derrickmen, and hoistmen.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Electricians.....	5	—	—	—	19	16	—	—	—	—	10	—	—
Excavating, grading, and road machine operators.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Foremen, n.e.c.....	31	78	34	38	37	203	60	34	4	11	6	—	9
Mechanics and repairmen.....	36	109	—	5	82	177	71	9	733	5	70	—	19
Automobile, including body.....	—	103	29	59	21	59	16	4	704	5	152	—	13
Machinists, job setters, and toolmakers.....	4	—	—	—	—	5	—	—	—	—	4	—	3
Metal craftsmen, except mechanics and machinists.....	—	—	—	—	—	11	—	—	6	—	—	—	—
Painters, construction and maintenance, and plasterers and paperhangers.....	—	—	—	—	—	—	—	—	15	—	—	—	14
Plumbers and pipe fitters.....	—	—	6	5	42	—	5	—	—	—	47	—	4
Printing craftsmen.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Stationary engineers and power station operators.....	—	9	—	—	57	99	45	105	20	15	480	4	—
Other craftsmen and kindred workers.....	53	23	—	432	249	—	—	—	—	—	—	—	—
<b>Operatives, except transport</b> .....	15	35	9	10	51	404	77	455	1 147	22	312	—	17
Assemblers.....	—	—	—	—	5	13	—	—	15	—	10	—	—
Checkers, examiners, and inspectors; manufacturing.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Filers, polishers, sanders, and buffers.....	—	—	—	—	—	17	—	—	16	—	6	—	—
Painters, manufactured articles.....	—	—	—	—	—	—	—	—	21	—	—	—	—
Precision machine operatives.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Welders and flame cutters.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Other specified operatives.....	10	7	4	—	13	40	8	7	—	—	4	—	—
Machine operatives, miscellaneous specified.....	5	23	—	4	—	228	57	412	1 064	22	251	—	10
Machine operatives, not specified.....	—	5	—	—	—	43	6	5	11	—	6	—	7
Miscellaneous operatives.....	—	—	5	—	14	18	6	19	15	—	13	—	—
Not specified operatives.....	—	—	—	6	13	30	6	6	5	—	5	—	—

Table 180. Occupation of Employed Persons by Industry Group and Sex: 1970—Continued

(Data based on sample, see text. For meaning of symbols, see text.)

	Railroads and railway express service	Trucking service and warehousing	Other transportation	Communications	Utilities and sanitary services	Wholesale trade	Retail trade				Insurance	Finance and real estate
							General merchandise retailing	Food stores	Automotive dealers and gasoline stations	Eating and drinking places		
<b>FLINT SMSA—Continued</b>												
<b>Total employed—Continued</b>												
Transport equipment operatives	142	1 063	620	—	186	745	61	131	40	272	—	25
Deliverymen and route men	—	88	78	—	36	274	51	44	28	138	—	4
Truck drivers	—	948	602	—	143	254	5	61	6	96	—	5
Other transport equipment operatives	142	27	—	—	—	117	5	26	6	38	—	16
<b>Laborers, except farm</b>												
Freight, stock, and material handlers	53	123	19	9	212	447	1 043	124	22	386	—	41
Other specified laborers	11	112	9	4	50	386	141	40	22	332	—	25
Miscellaneous laborers	—	—	5	5	103	43	4	73	5	125	—	6
Not specified laborers	32	—	—	—	59	—	—	—	—	—	—	0
Not specified laborers	10	11	5	—	—	18	21	11	11	24	—	10
<b>Farm workers</b>												
Service workers, including private household	—	—	—	—	—	—	—	—	—	—	—	—
Cleaning service workers	11	25	13	31	34	174	91	58	3 784	508	—	226
Personal service workers	—	20	9	27	16	126	36	40	106	52	—	162
Guards and watchmen	—	—	—	4	—	4	—	6	26	19	—	4
Other service workers, including private household	—	5	—	—	—	24	—	—	—	8	—	5
Other service workers, including private household	11	—	4	—	18	20	55	12	3 652	429	—	55
<b>Female employed</b>												
Professional, technical, and kindred workers	26	210	544	793	256	1 304	1 561	463	3 176	4 691	677	2 199
Accountants	—	7	5	43	19	15	—	4	8	38	—	39
Computer specialists	—	—	—	5	6	10	—	4	—	13	—	15
Life and physical scientists	—	—	—	—	—	5	—	—	—	—	—	10
Registered nurses, dietitians, and therapists	—	—	—	—	—	—	—	—	—	—	—	—
Social scientists	—	—	—	—	—	—	—	—	—	—	—	—
Writers, artists, and entertainers	—	—	—	23	—	—	—	—	—	—	—	—
Other professional, technical, and kindred workers	—	7	5	15	13	—	—	—	8	10	—	14
Managers and administrators, except farm	—	—	17	17	5	47	70	28	154	248	33	125
Salaried	—	—	17	17	5	38	46	99	207	248	33	102
Self-employed	—	—	—	—	—	9	24	4	55	41	—	23
<b>Sales workers</b>												
Clerical and kindred workers	16	189	56	657	163	856	891	298	200	1 288	626	1 599
Bookkeepers	—	28	—	26	33	187	68	160	23	402	45	239
Cashiers	—	9	4	—	—	15	320	715	146	197	15	32
Counter clerks, except food	—	—	—	21	5	13	16	10	6	13	—	—
File clerks	—	6	—	27	10	33	16	10	12	19	—	40
Office machine operators	—	5	—	—	—	67	4	4	—	8	—	107
Receptionists	—	—	—	—	—	9	—	—	—	—	—	46
Secretaries	—	—	5	10	—	20	—	—	—	23	—	9
Stenographers	4	52	7	35	14	221	20	30	11	154	377	318
Typists	5	—	6	5	7	9	—	11	—	—	5	15
Other clerical and kindred workers	7	45	34	35	10	90	3	11	—	76	43	120
Foremen, n.e.c.	—	44	—	498	84	201	55	27	14	396	107	719
Craftsmen and kindred workers	—	—	—	39	9	35	31	5	15	167	—	19
Foremen, n.e.c.	—	—	—	11	—	9	—	—	—	12	—	15
<b>Operatives, except transport</b>												
Assemblers	—	—	—	10	4	165	120	81	17	183	—	12
Checkers, examiners, and inspectors; manufacturing	—	—	—	—	—	8	—	5	—	5	—	—
Packers and wrappers, except meat and produce	—	—	—	—	—	64	10	12	17	14	—	5
Other operatives, except transport	—	—	—	10	4	93	110	64	—	164	—	7
<b>Transport equipment operatives</b>												
Laborers, except farm	4	14	457	—	41	6	6	5	—	5	—	—
Farm workers	6	—	5	—	—	73	64	—	—	33	—	7
<b>Service workers, including private household</b>												
Cleaning service workers	—	—	4	22	10	38	55	12	2 759	409	—	140
Personal service workers	—	—	4	22	5	33	4	—	34	23	—	90
Other service workers, including private household	—	—	—	—	—	—	20	—	15	4	—	4
Other service workers, including private household	—	—	—	—	—	—	55	12	2 710	367	—	46

Table 180. Occupation of Employed Persons by Industry Group and Sex: 1970—Continued

[Data based on sample, see text. For meaning of symbols, see text.]

The State Standard Metropolitan Statistical Areas of 250,000 or More		Business services	Repair services	Hotels and lodging places	Other personal services, including private household	Entertainment and recreation services	Hospitals	Health services, except hospitals	Educational services, government	Educational services, private	Welfare, religious, and nonprofit organizations	Other professional and related services	Public administration
<b>FLINT SMSA</b>													
<b>Total employed</b>		1 539	1 685	620	4 890	1 025	6 728	4 293	9 212	4 007	2 028	2 711	4 827
<b>Professional, technical, and kindred workers</b>													
Accountants	282	32	19	78	167	11	2 003	1 400	5 668	2 367	867	1 266	516
Architects	106	5	4	—	—	—	32	—	5	—	10	192	68
Computer specialists	—	—	—	—	—	—	5	—	7	9	—	36	—
Engineers	13	—	—	—	—	—	4	—	32	19	—	71	11
Chemical	—	—	—	—	—	—	—	—	—	—	—	—	—
Civil	—	—	—	—	—	—	—	—	—	—	—	—	—
Electrical and electronic	—	—	—	—	—	—	—	—	5	9	—	22	23
Industrial	—	—	—	—	—	—	—	—	10	5	—	5	5
Mechanical	—	—	—	—	—	—	—	—	—	—	—	8	—
Other engineers	—	—	—	—	—	—	4	—	17	5	—	36	14
Mathematical specialists	—	—	—	—	—	—	—	—	—	—	—	—	—
Life and physical scientists	—	—	—	—	—	—	5	10	—	6	—	11	11
Chemists	—	—	—	—	—	—	5	—	—	—	—	6	—
Personnel and labor relations workers	50	—	—	5	5	—	12	5	17	19	—	6	46
Social scientists	19	—	—	5	—	—	28	28	12	10	—	5	26
Engineers and science technicians	47	5	—	—	—	—	5	35	—	31	—	180	44
Draftsmen	41	—	—	—	—	—	—	—	—	—	—	92	22
Electrical and electronic engineering technicians	—	—	—	—	—	—	—	—	—	—	—	—	4
Industrial and mechanical engineering technicians	—	—	—	—	—	—	—	—	—	—	—	—	—
Technicians, except health, and engineering and science	10	6	6	55	5	—	5	6	10	16	—	38	34
Writers, artists, and entertainers	17	16	9	13	51	—	1 915	1 351	5 524	2 257	764	229	229
Other professional, technical, and kindred workers	—	—	—	—	—	—	—	—	—	—	—	—	—
<b>Managers and administrators, except farm</b>	130	107	65	235	106	87	87	143	419	233	217	126	587
Buyers, purchasing agents, and sales managers	—	—	—	—	—	10	10	6	5	6	—	—	—
Other managers and administrators	130	107	65	235	106	77	77	137	414	227	217	126	587
Salaries	37	26	27	93	10	—	—	102	414	5	217	106	567
Self-employed	—	—	—	—	—	—	—	35	—	—	—	20	—
<b>Sales workers</b>	76	46	9	36	41	16	16	—	11	4	10	16	19
<b>Clerical and kindred workers</b>	626	264	112	491	164	1 040	1 040	754	1 432	601	491	704	1 872
Bookkeepers	72	49	36	56	27	54	54	65	62	14	35	167	104
Cashiers	7	32	6	25	44	36	36	—	46	8	6	7	—
Estimators and investigators, n.e.c.	47	5	—	—	5	—	—	—	—	—	—	9	—
Office machine operators	84	5	—	—	—	14	14	—	—	10	5	39	6
Shipping and receiving clerks	5	—	—	—	—	—	—	—	27	—	—	—	—
Stock clerks and storekeepers	5	6	—	—	5	20	20	13	6	5	—	—	19
Other clerical and kindred workers	412	167	70	405	83	916	916	676	1 286	539	439	489	1 707
<b>Craftsmen and kindred workers</b>	125	781	27	69	96	64	64	107	179	54	46	87	202
Blacksmiths, forgers, hammermen, and boilermakers	—	4	—	—	—	—	—	—	—	—	—	—	—
Brickmasons and stonemasons	—	9	—	—	—	6	6	—	30	—	6	—	4
Carpenters	6	—	—	—	—	—	—	—	—	—	—	—	—
Cranemen, derrickmen, and hoistmen	4	11	20	—	—	—	—	5	14	—	10	—	—
Electricians	3	8	—	14	—	—	—	29	17	6	11	5	35
Excavating, grading, and road machine operators	13	375	16	10	75	14	14	—	46	18	10	26	63
Foremen, n.e.c.	—	—	—	—	—	—	—	—	17	—	—	—	—
Mechanics and repairmen	—	—	—	—	—	—	—	—	17	11	—	—	—
Automobile, including body	—	—	—	—	—	—	—	—	—	—	—	—	—
Machinists, job setters, and toolmakers	—	—	—	—	—	—	—	—	—	—	—	—	—
Metal craftsmen, except mechanics and machinists	9	23	—	—	—	14	14	—	13	4	9	—	9
Painters, construction and maintenance, and plasterers and paperhangers	10	—	—	5	—	—	—	—	—	—	—	—	9
Plumbers and pipe fitters	6	—	—	—	—	10	10	12	1	11	—	—	7
Printing craftsmen	—	—	11	36	21	—	—	61	43	15	—	56	26
Stationary engineers and power station operators	60	127	—	—	—	—	—	—	—	—	—	—	—
Other craftsmen and kindred workers	—	—	—	—	—	—	—	—	—	—	—	—	—
<b>Operatives, except transport</b>	65	194	10	641	15	158	158	80	66	18	35	59	38
Assemblers	6	—	—	15	—	—	—	—	—	—	—	9	7
Checkers, examiners, and inspectors, manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	—
Filters, polishers, sanders, and buffers	—	—	—	—	—	—	—	—	—	—	—	—	—
Painters, manufactured articles	—	40	—	—	—	—	—	—	—	—	—	—	—
Precision machine operatives	—	23	—	—	—	—	—	—	—	—	—	—	—
Welders and flamecutters	—	62	—	—	—	—	—	—	—	—	—	—	—
Other specified operatives	35	64	10	613	5	144	144	73	43	9	—	40	20
Machine operatives, miscellaneous specified	13	—	—	3	4	3	3	4	—	4	—	5	4
Machine operatives, not specified	—	—	—	6	—	—	—	—	—	—	—	—	—
Miscellaneous operatives	11	5	—	6	—	4	4	3	12	—	11	5	4
Not specified operatives	—	—	—	—	—	—	—	—	—	—	—	—	—

Table 180. Occupation of Employed Persons by Industry Group and Sex: 1970—Continued

[Data based on sample, see text. For meaning of symbols, see text.]

The State  
Standard Metropolitan Statistical Areas  
of 250,000 or More

FLINT SMSA—Continued

Total employed—Continued

Occupation	Business services	Repair services	Hotels and lodging places	Other personal services, including private household	Entertainment and recreation services	Hospitals	Health services, except hospitals	Educational services, government	Educational services, private	Welfare, religious, and nonprofit membership organizations	Other professional and related services	Public administration
Transport equipment operators	36	110	—	98	11	16	14	55	5	11	—	16
Deliverymen and roublers	12	8	—	67	5	9	11	9	5	—	—	16
Truck drivers	10	46	—	15	6	7	3	30	—	—	—	—
Other transport equipment operators	14	62	—	16	—	—	—	—	—	—	—	—
Laborers, except farm	15	119	16	57	66	57	10	44	17	10	4	93
Freight, stock, and material handlers	9	99	16	25	22	41	—	39	12	6	4	34
Other specified laborers	6	13	—	18	—	—	—	5	—	—	—	59
Miscellaneous laborers	—	7	—	—	—	—	10	—	—	—	—	—
Not specified laborers	—	—	—	—	—	—	—	—	—	—	—	—
Farm workers	—	—	—	—	—	—	—	—	—	—	—	—
Service workers, including private household	204	32	362	3 185	359	3 287	1 785	1 338	708	341	449	1 504
Cleaning service workers	147	18	161	57	203	161	203	627	298	272	23	157
Personal service workers	—	—	—	—	—	—	—	—	—	—	—	—
Guards and watchmen	52	14	104	1 493	107	56	59	254	154	67	21	36
Other service workers, including private household	5	—	97	1 635	200	2 760	1 518	14	17	5	—	18
Female employed	801	270	425	3 720	524	5 688	3 130	5 868	2 536	984	1 476	1 749
Professional, technical, and kindred workers	118	16	10	47	93	1 610	614	3 558	1 439	272	385	90
Accountants	79	—	4	—	6	5	—	—	—	10	72	5
Computer specialists	—	—	—	—	—	—	—	—	—	—	—	—
Life and physical scientists	—	—	—	—	—	—	—	—	—	—	—	—
Registered nurses, dietitians, and therapists	5	—	—	13	—	11	—	—	—	—	—	—
Social scientists	4	—	—	—	—	—	—	—	—	—	—	—
Writers, artists, and entertainers	—	—	—	—	—	—	—	—	—	—	—	—
Other professional, technical, and kindred workers	30	16	6	34	44	5	417	6	16	23	13	18
Managers and administrators, except farm	11	—	18	47	25	38	66	83	80	35	35	112
Salaried	6	—	8	27	15	38	50	83	80	35	35	112
Self-employed	5	—	10	20	10	16	16	—	—	—	—	—
Sales workers	24	8	9	16	32	10	—	11	—	5	5	19
Clerical and kindred workers	549	186	99	466	137	980	730	1 334	544	435	654	1 326
Bookkeepers	66	34	27	50	22	49	65	62	14	30	156	92
Cashiers	6	18	6	25	38	36	—	46	4	7	—	6
Counter clerks, except food	12	13	33	223	12	14	15	17	20	4	—	13
File clerks	24	—	—	6	—	9	—	16	10	—	—	—
Office machine operators	76	—	—	—	—	5	—	—	—	—	—	—
Bookkeeping and billing machine operators	15	—	5	52	—	—	—	—	—	—	—	—
Receptionists	108	55	10	32	13	138	222	555	6	22	13	18
Secretaries	—	—	—	—	—	—	—	—	—	—	—	—
Stenographers	63	—	—	10	10	14	9	15	5	—	—	36
Typists	179	66	18	68	42	143	78	118	34	45	4	185
Other clerical and kindred workers	—	—	—	—	—	406	73	505	176	59	195	771
Foremen, n.e.c.	5	20	—	20	—	8	35	54	11	—	10	—
Craftsmen and kindred workers	—	—	—	—	—	—	20	—	—	—	—	—
Operatives, except transport	32	31	10	509	—	88	67	12	8	23	25	6
Assemblers	—	—	—	15	—	—	—	—	—	—	—	—
Checkers, examiners, and inspectors: manufacturing	—	—	—	—	—	—	—	—	—	—	—	—
Packers and wrappers, except meat and produce	8	—	—	4	—	—	—	—	—	—	—	—
Other operatives, except transport	24	31	10	490	—	88	67	12	8	23	25	6
Transport equipment operators	4	—	—	—	—	7	11	25	—	—	—	—
Laborers, except farm	—	4	—	4	—	42	—	5	—	—	—	—
Farm workers	—	—	—	—	—	—	—	—	—	—	—	—
Service workers, including private household	58	5	279	2 611	237	2 905	1 607	786	454	214	342	193
Cleaning service workers	53	5	123	41	11	342	168	178	9	61	9	55
Personal service workers	—	—	84	980	49	56	54	192	139	61	21	27
Other service workers, including private household	5	—	72	1 590	177	2 507	1 365	416	223	92	332	111



Table 180. Occupation of Employed Persons by Industry Group and Sex: 1970—Continued

(Data based on sample, see text. For meaning of symbols, see text.)

	Persons 16 years old and over	Agriculture, forestry, and fisheries	Mining	Construction	Manufacturing						
					Furniture, lumber, and wood products	Stone, clay, and glass products	Primary ferrous industries	Primary nonferrous industries	Fabricated metal industries, including not specified metal	Machinery, except electrical	Electrical machinery, equipment, and supplies
<b>GRAND RAPIDS SMSA—Continued</b>											
<b>Total employed—Continued</b>											
Transport equipment operatives	7 782	56	35	430	251	145	37	47	198	105	112
Deliverymen and roufemen	1 892	5	—	9	20	10	—	—	16	15	10
Truck drivers	3 410	46	26	387	119	128	25	24	66	57	102
Other transport equipment operatives	2 480	5	9	34	112	7	5	23	122	33	—
Lebaners, except farm	8 350	307	30	853	348	75	119	78	601	184	182
Freight, stock, and material handlers	4 607	4	11	41	231	45	21	59	463	82	77
Other specified laborers	2 550	300	19	812	36	5	6	—	8	53	13
Miscellaneous laborers	2 531	3	—	—	258	22	14	—	66	10	36
Not specified laborers	662	—	—	—	59	20	28	5	64	39	—
Farm workers	3 184	3 184	—	—	—	—	—	—	—	—	—
Service workers, including private household	24 947	13	4	82	257	13	21	48	332	149	53
Cleaning service workers	5 718	10	4	71	166	13	16	42	227	96	26
Personal service workers	2 523	—	—	—	10	—	—	—	4	—	4
Guards and watchmen	608	3	—	—	39	—	—	—	61	29	12
Other service workers, including private household	16 098	—	—	11	42	—	5	6	40	24	11
Female employed	76 183	554	9	617	2 076	161	99	344	2 685	1 268	1 424
Professionals, technical, and kindred workers	10 876	9	—	12	28	—	20	22	29	37	41
Accountants	400	—	—	—	95	—	4	4	5	8	5
Computer specialists	37	—	—	—	—	—	—	—	—	—	—
Life and physical scientists	45	—	—	—	—	—	—	—	—	—	—
Registered nurses, dietitians, and therapists	2 265	—	—	—	13	—	4	—	6	—	—
Social scientists	21	—	—	—	—	—	—	—	—	—	—
Writers, artists, and entertainers	477	—	—	12	—	—	—	—	—	—	—
Other professional, technical, and kindred workers	7 631	9	—	—	5	—	5	—	18	23	25
Managers and administrators, except farm	2 030	—	—	49	18	—	—	—	15	37	—
Salaried	1 685	—	—	30	18	—	—	—	15	37	—
Self-employed	345	—	—	19	—	—	—	—	—	—	—
Sales workers	6 506	4	—	—	12	—	—	—	—	5	14
Clerical and kindred workers	25 165	73	5	420	693	26	36	79	476	540	216
Bookkeepers	2 899	28	—	98	99	—	5	5	35	45	33
Cashiers	2 491	—	—	—	20	—	—	—	4	11	10
Counter clerks, except food	630	7	—	—	26	—	—	—	10	18	5
File clerks	921	—	—	—	38	—	—	4	47	37	19
Office machine operators	170	—	—	—	—	—	—	—	16	—	—
Bookkeeping and billing machine operators	903	—	—	5	28	—	8	—	23	—	—
Receptionists	7 233	14	5	241	274	14	6	41	180	223	78
Secretaries	2 345	—	—	—	4	—	—	—	4	—	—
Stenographers	2 169	—	—	—	48	—	9	5	37	5	24
Typists	7 622	24	—	65	151	—	16	16	140	149	42
Other clerical and kindred workers	1 557	5	—	100	148	3	11	10	98	40	62
Foremen, n.e.c.	239	—	—	5	20	—	—	—	6	5	4
Operatives, except transport	12 659	38	4	4	1 071	116	32	207	1 778	574	1 052
Assemblers	2 341	—	—	—	231	15	25	25	445	159	533
Checkers, examiners, and inspectors; manufacturing	1 188	—	—	—	48	53	32	42	267	86	99
Packers and wrappers, except meat and produce	1 999	27	—	—	52	3	—	—	194	23	19
Other operatives, except transport	7 931	11	4	4	740	45	—	140	872	306	401
Transport equipment operatives	600	—	—	4	—	—	—	—	—	—	10
Lebaners, except farm	1 022	52	—	11	43	13	—	10	257	15	23
Farm workers	368	368	—	—	—	—	—	—	—	—	—
Service workers, including private household	15 000	5	—	—	63	3	—	—	32	20	6
Cleaning service workers	1 237	—	—	17	37	3	—	—	21	6	—
Personal service workers	1 767	—	—	—	—	—	—	—	—	—	—
Other service workers, including private household	11 926	—	—	—	26	—	—	—	11	—	—



Table 180. Occupation of Employed Persons by Industry Group and Sex: 1970—Continued

(Data based on sample, see text. For meaning of symbols, see text)

The State Standard Metropolitan Statistical Areas of 250,000 or More	Manufacturing - Continued												
	Durable goods—Continued					Mandurable goods							
	Motor vehicles and motor vehicle equipment	Aircraft and parts	Other transport equipment	Ordnance	Other durable goods	Food and kindred products	Textile mill products	Apparel and other fabricated textile products	Paper and allied products	Printing, publishing, and allied industries	Chemicals and allied products	Rubber and miscel- laneous plastic products	Other nondurable goods, incl. not specified manufacturing
<b>GRAND RAPID SMSA</b>	<b>Total employed.....</b>												
Accountants.....	6 222	786	653	16	5 675	3 371	727	1 293	1 582	3 543	2 402	933	2 470
Professionals, technical, and kindred workers.....	283	168	40	4	697	128	47	57	126	339	331	35	244
Architects.....	83	39	10	—	49	14	6	22	15	14	14	—	37
Computer specialists.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Engineers.....	9	—	—	—	20	6	—	—	—	—	10	—	4
Chemical.....	112	67	14	4	322	28	16	5	13	—	31	9	55
Civil.....	—	—	—	—	—	—	—	—	7	—	17	—	—
Electrical and electronic.....	5	—	—	—	—	—	—	—	—	—	—	—	—
Industrial.....	40	5	—	4	90	15	—	5	—	—	6	9	31
Mechanical.....	40	9	—	—	56	22	5	—	—	—	8	—	13
Mechanical.....	41	24	9	—	22	6	—	—	—	—	—	—	13
Other engineers.....	20	29	5	—	154	7	6	—	6	—	—	—	11
Mathematical specialists.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Life and physical scientists.....	9	5	—	—	—	—	—	—	—	—	5	—	—
Chemists.....	9	5	—	—	—	—	—	—	—	—	—	—	—
Personnel and labor relations workers.....	8	—	—	—	16	10	6	15	3	5	94	6	19
Social scientists.....	4	—	—	—	5	5	—	—	—	—	94	5	19
Engineering and science technicians.....	25	42	11	—	124	44	19	—	32	5	—	—	17
Draftsmen.....	22	7	—	—	47	6	6	—	6	6	120	5	61
Electrical and electronic engineering technicians.....	3	12	—	—	60	—	—	—	—	—	—	—	20
Industrial and mechanical engineering technicians.....	15	5	—	—	5	—	—	—	—	—	—	—	—
Mechanical and electrical engineering technicians.....	18	10	5	—	26	21	—	6	25	286	32	—	14
Technicians, except health, and engineering and science writers, artists, and entertainers.....	15	—	—	—	135	—	—	—	26	13	25	—	43
Other professional, technical, and kindred workers.....	96	28	17	—	276	216	27	57	49	247	168	73	113
Managers and administrators, except farm buyers, purchasing agents, and sales managers.....	10	5	—	—	34	5	—	—	—	—	—	—	—
Other managers and administrators.....	86	23	17	—	242	166	27	57	49	206	148	64	15
Self-employed.....	86	23	17	—	208	159	23	51	49	151	141	59	98
Self-employed.....	—	—	—	—	34	7	4	6	—	55	7	5	4
Self-employed.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Self-employed.....	52	—	19	7	134	126	30	53	119	315	174	26	172
Sales workers.....	535	87	55	—	611	218	47	123	218	793	465	105	319
Clerical and kindred workers.....	46	13	4	—	55	41	—	7	14	77	43	16	34
Bookkeepers.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Cashiers.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Estimators and investigators, n.e.c.....	5	—	—	—	—	—	—	—	—	—	—	—	—
Office machine operators.....	52	4	—	—	34	6	4	4	18	7	16	5	39
Shipping and receiving clerks.....	91	5	—	—	18	37	11	25	11	28	25	33	18
Stock clerks and storeroom clerks.....	84	11	19	—	58	22	17	20	9	28	53	18	10
Other clerical and kindred workers.....	257	54	32	—	446	112	15	45	166	630	40	51	222
Craftsmen and kindred workers.....	1 450	134	220	—	962	596	134	149	320	1 167	316	120	287
Blacksmiths, forgers, hammermen, and boilermakers.....	12	—	—	—	—	—	—	—	5	—	—	—	—
Brickmasons and stonemasons.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Carpenters.....	4	—	—	—	6	—	—	—	—	—	5	—	—
Carriers.....	29	—	—	—	—	—	—	—	—	—	—	—	—
Cranemen, derrickmen, and hoistmen.....	4	—	—	—	—	—	—	—	—	—	—	—	—
Electricians.....	73	4	4	—	11	12	—	6	8	—	21	—	14
Excavating, grading, and road machine operators.....	10	—	—	—	—	—	—	—	—	—	—	—	—
Foremen, n.e.c.....	287	9	33	—	186	149	66	6	82	60	171	65	87
Mechanics and repairmen.....	302	9	26	—	92	154	25	17	71	28	68	18	44
Mechanics, including body and trim.....	67	—	—	—	—	7	—	—	—	—	—	—	—
Machinists, job setters, and toolmakers.....	583	82	—	—	64	16	18	30	47	12	—	26	10
Metal craftsmen, except mechanics and machinists.....	70	9	10	—	56	8	—	—	—	—	—	6	7
Painters, construction and maintenance, and plasterers and paperhangers.....	5	—	—	—	—	—	—	—	—	—	—	—	—
Plumbers and pipe fitters.....	36	8	5	—	4	6	—	—	5	—	5	—	11
Printers.....	4	—	—	—	—	—	—	—	—	—	—	—	—
Stationary engineers and power station operators.....	5	—	—	—	16	23	4	4	81	1 055	29	5	30
Other craftsmen and kindred workers.....	30	6	14	—	522	225	11	12	11	3	8	—	75
Operatives, except transport.....	3 182	352	238	—	2 578	1 397	392	764	615	539	670	508	1 135
Assemblers.....	346	75	49	—	505	39	10	34	18	10	42	57	34
Checkers, examiners, and inspectors; manufacturing.....	378	79	5	—	137	82	38	50	21	70	77	18	192
Clerks, polishers, sanders, and buffers.....	184	27	5	—	80	—	—	—	4	—	3	—	5
Painters, manufactured articles.....	60	—	—	—	—	—	—	—	—	—	—	—	—
Precision machine operatives.....	68	—	18	—	61	6	—	—	11	—	11	10	18
Welders and flamecutters.....	336	31	22	—	97	5	—	—	12	—	—	—	4
Welders.....	300	51	21	—	18	—	—	—	—	—	—	—	—
Other specified operatives.....	958	27	57	—	1 343	789	334	586	194	162	204	10	16
Machine operatives, miscellaneous specified.....	142	37	6	—	104	204	—	—	198	101	204	104	628
Machine operatives, not specified.....	169	12	17	—	38	95	—	—	22	103	73	36	85
Miscellaneous operatives.....	47	9	17	—	146	87	—	—	97	83	38	30	108
Not specified operatives.....	62	4	38	—	49	90	—	—	12	10	68	23	30

Table 180. Occupation of Employed Persons by Industry Group and Sex: 1970 - Continued

(Data based on sample, see text. For meaning of symbols, see text!)

Occupation	Manufacturing - Continued												
	Durable goods - Continued					Nondurable goods							
	Motor vehicles and motor vehicle equipment	Aircraft and parts	Other transportation equipment	Ordnance	Other durable goods	Food and kindred products	Textile mill products	Apparel and other fabricated textile products	Paper and allied products	Printing, publishing, and allied industries	Chemicals and allied products	Rubber and miscellaneous plastic products	Other nondurable goods, incl. not specified manufacturing
<b>Total employed - Continued</b>													
<b>GRAND RAPIDS SMSA - Continued</b>													
Transport equipment operatives.....	186	10	6	-	112	291	-	5	64	39	85	29	34
Deliverymen and roulemen.....	-	-	-	-	25	175	-	-	-	19	11	-	17
Truck drivers.....	4	5	6	-	41	55	-	5	21	20	39	13	17
Other transport equipment operatives.....	182	5	-	-	46	61	-	-	43	-	35	16	-
<b>Laborers, except farm.....</b>	<b>300</b>	<b>5</b>	<b>12</b>	<b>5</b>	<b>164</b>	<b>238</b>	<b>60</b>	<b>44</b>	<b>62</b>	<b>27</b>	<b>65</b>	<b>24</b>	<b>98</b>
Freight, stock, and material handlers.....	204	5	4	5	109	149	35	33	38	21	43	19	37
Other specified laborers.....	44	-	8	-	4	42	25	5	6	6	6	-	33
Miscellaneous laborers.....	39	-	-	-	4	12	-	-	-	-	-	-	9
Not specified laborers.....	13	-	-	-	5	35	-	6	18	-	16	5	19
<b>Farm workers.....</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
Service workers, including private household.....	138	2	46	-	141	161	-	41	9	77	128	13	68
Cleaning service workers.....	88	2	22	-	57	119	-	30	9	61	91	13	32
Personal service workers.....	12	-	-	-	7	17	-	11	-	5	5	-	5
Guards and watchmen.....	20	-	19	-	5	17	-	-	-	5	22	-	-
Other service workers, including private household.....	18	-	5	-	72	25	-	-	-	11	10	-	31
<b>Female employed.....</b>	<b>1 554</b>	<b>151</b>	<b>101</b>	<b>5</b>	<b>1 546</b>	<b>1 021</b>	<b>269</b>	<b>790</b>	<b>441</b>	<b>1 353</b>	<b>752</b>	<b>345</b>	<b>937</b>
<b>Professional, technical, and kindred workers.....</b>	<b>20</b>	<b>6</b>	<b>5</b>	<b>-</b>	<b>47</b>	<b>35</b>	<b>13</b>	<b>21</b>	<b>9</b>	<b>142</b>	<b>36</b>	<b>-</b>	<b>41</b>
Accountants.....	9	6	-	-	10	4	-	-	4	14	5	-	4
Computer specialists.....	4	-	-	-	4	-	-	-	-	-	-	-	-
Life and physical scientists.....	7	-	-	-	5	4	-	4	-	-	11	-	-
Registered nurses, dietitians, and therapists.....	-	-	-	-	-	4	-	-	-	-	4	-	-
Social scientists.....	-	-	-	-	-	-	-	-	-	-	-	-	-
Writers, artists, and entertainers.....	-	-	-	-	-	-	-	-	-	-	-	-	-
Other professional, technical, and kindred workers.....	-	-	5	-	28	27	13	11	5	116	4	-	3
<b>Managers and administrators, except farm.....</b>	<b>5</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>24</b>	<b>-</b>	<b>-</b>	<b>6</b>	<b>7</b>	<b>18</b>	<b>20</b>	<b>5</b>	<b>6</b>
Salaried.....	5	-	-	-	24	-	-	6	7	14	20	5	6
Self-employed.....	-	-	-	-	-	-	-	-	-	4	0	-	-
<b>Sales workers.....</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>5</b>	<b>19</b>	<b>-</b>	<b>14</b>	<b>11</b>	<b>21</b>	<b>6</b>	<b>-</b>	<b>34</b>
<b>Clerical and kindred workers.....</b>	<b>178</b>	<b>38</b>	<b>21</b>	<b>-</b>	<b>353</b>	<b>132</b>	<b>15</b>	<b>62</b>	<b>164</b>	<b>625</b>	<b>302</b>	<b>47</b>	<b>258</b>
Bookkeepers.....	22	9	-	-	27	32	-	7	9	70	33	10	34
Cashiers.....	-	-	-	-	-	-	-	-	7	6	18	-	7
Counter clerks, except food.....	-	-	-	-	-	-	-	-	5	23	12	-	2
File clerks.....	-	-	-	-	-	-	-	-	-	29	25	-	31
Office machine operators.....	16	-	-	-	8	6	-	11	-	9	16	-	4
Bookkeeping and billing machine operators.....	5	-	-	-	5	5	-	6	18	139	100	33	30
Receptionists.....	55	19	21	-	107	34	6	6	55	7	40	4	30
Secretaries.....	23	6	-	-	55	-	-	7	10	129	58	4	30
Stenographers.....	57	4	-	-	147	55	9	31	60	217	117	4	117
Typists.....	-	-	-	-	-	-	-	-	-	-	-	-	-
Other clerical and kindred workers.....	33	-	16	-	66	72	4	16	10	194	27	-	14
Foremen, n.e.c.....	4	-	9	-	5	23	4	16	5	5	18	-	-
<b>Operatives, except transport.....</b>	<b>1 261</b>	<b>107</b>	<b>50</b>	<b>-</b>	<b>981</b>	<b>682</b>	<b>237</b>	<b>661</b>	<b>222</b>	<b>325</b>	<b>326</b>	<b>277</b>	<b>534</b>
Assemblers.....	309	61	24	-	283	22	20	38	18	10	37	46	14
Checkers, examiners, and inspectors, manufacturing.....	138	5	-	-	28	69	38	32	16	64	72	18	81
Packers and wrappers, except meat and produce.....	45	-	-	-	9	368	13	21	24	11	71	15	5
Other operatives, except transport.....	769	41	26	-	661	223	166	570	164	240	146	198	434
<b>Transport equipment operatives.....</b>	<b>8</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>9</b>	<b>10</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Laborers, except farm.....</b>	<b>21</b>	<b>-</b>	<b>4</b>	<b>5</b>	<b>29</b>	<b>37</b>	<b>-</b>	<b>6</b>	<b>18</b>	<b>12</b>	<b>14</b>	<b>11</b>	<b>29</b>
<b>Farm workers.....</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Service workers, including private household.....</b>	<b>28</b>	<b>-</b>	<b>5</b>	<b>-</b>	<b>32</b>	<b>34</b>	<b>-</b>	<b>4</b>	<b>-</b>	<b>16</b>	<b>21</b>	<b>5</b>	<b>21</b>
Personal service workers.....	9	-	-	-	13	19	-	4	-	11	11	5	10
Other service workers, including private household.....	19	-	5	-	12	15	-	-	-	5	10	-	11



Table 180. Occupation of Employed Persons by Industry Group and Sex: 1970—Continued

(Data based on sample, see text. For meaning of symbols, see text.)

	Railroads and railway express service	Trucking service warehousing	Other transportation	Communications	Utilities and sanitary services	Wholesale trade	Retail trade					Insurance	Finance and real estate
							General merchandise retailing	Food stores	Automotive dealers and gasoline stations	Eating and drinking places	Other retail trade		
<b>The State Standard Metropolitan Statistical Areas of 250,000 or More</b>													
<b>GRAND RAPIDS SMSA—Continued</b>													
<b>Total employed—Continued</b>													
Transport equipment operatives	284	1 739	733	6	140	1 172	104	174	87	53	—	—	6
Deliverymen and roustabouts	5	180	12	6	11	603	94	83	14	40	—	—	—
Truck drivers	13	1 497	12	—	27	421	10	30	52	—	—	—	—
Other transport equipment operatives	266	62	721	—	102	148	—	61	21	13	—	—	6
Laborers, except farm	103	360	24	6	225	884	115	1 450	99	21	6	—	65
Freight, stock, and material handlers	25	332	5	6	59	700	109	1 401	16	10	—	—	61
Other specified laborers	4	18	15	—	73	90	6	5	58	—	—	—	4
Miscellaneous laborers	64	4	4	—	7	39	—	10	—	—	—	—	—
Not specified laborers	10	10	—	4	22	55	—	34	25	11	—	—	—
Farm workers	—	—	—	—	—	—	—	—	—	—	—	—	—
Service workers, including private household	44	33	31	39	59	263	403	251	66	5 559	9	—	180
Cleaning service workers	23	30	5	29	49	202	85	109	66	—	9	—	157
Personal service workers	—	3	6	5	—	9	28	7	—	—	—	—	3
Grades and watchmen	12	—	—	—	—	—	48	29	—	4	—	—	4
Other service workers, including private household	9	—	20	5	10	41	242	106	—	5 464	—	—	16
<b>Female employed</b>	83	515	513	1 127	371	2 607	4 647	2 607	403	4 296	1 652	—	2 852
Professional, technical, and kindred workers	9	—	17	55	11	29	77	17	12	5	—	—	68
Accountants	4	—	14	13	—	14	33	8	12	—	—	—	44
Computer specialists	—	—	—	—	—	—	—	—	—	—	—	—	—
Life and physical scientists	—	—	—	—	—	—	—	—	—	—	—	—	—
Registered nurses, dietitians, and therapists	5	—	—	—	—	—	—	—	—	—	—	—	—
Social scientists	—	—	—	—	—	—	—	—	—	—	—	—	—
Writers, artists, and entertainers	—	—	3	10	—	—	—	—	—	—	—	—	—
Other professional, technical, and kindred workers	—	—	—	32	11	4	14	9	—	5	—	—	11
Managers and administrators, except farm	—	9	17	38	5	56	200	74	12	124	47	—	118
Salaried	—	9	17	38	5	50	205	39	12	83	47	—	105
Self-employed	—	—	—	—	—	6	15	35	—	41	—	—	13
Sales workers	5	—	—	12	5	143	2 580	593	17	62	152	—	226
Clerical and kindred workers	58	448	99	940	310	1 667	1 251	1 427	289	268	1 418	—	2 354
Bookkeepers	—	42	18	23	62	364	117	172	100	14	91	—	247
Cashiers	—	11	—	6	20	6	365	968	10	188	14	—	52
Counter clerks, except food	—	—	—	4	—	32	30	8	—	10	—	—	—
File clerks	5	9	—	10	—	28	38	15	17	—	—	—	61
Office machine operators	—	69	—	—	—	113	28	37	4	6	—	—	194
Bookkeeping and billing machine operators	—	4	—	—	—	16	10	—	4	—	—	—	54
Receptionists	—	—	—	—	9	58	12	—	9	—	—	—	25
Secretaries	24	112	16	82	67	507	74	72	83	23	604	—	650
Stenographers	10	—	5	—	9	9	5	—	—	—	20	—	4
Typists	4	77	26	30	45	151	25	25	37	4	265	—	180
Other clerical and kindred workers	1.5	124	34	776	98	399	508	130	29	23	294	—	941
Craftsmen and kindred workers	4	6	—	41	—	64	48	43	14	26	9	—	6
Foremen, n.e.c.	—	—	—	16	—	16	22	6	—	—	5	—	—
Operatives, except transport	2	31	—	6	8	448	96	184	33	12	—	—	5
Assemblers	—	—	—	—	—	19	—	—	—	—	—	—	—
Checkers, examiners, and inspectors, manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	—
Packers and wrappers, except meat and produce	—	9	—	—	—	158	53	36	—	5	—	—	—
Other operatives, except transport	2	22	—	6	8	271	37	148	33	7	—	—	5
Transport equipment operatives	—	—	380	—	22	27	19	7	16	—	—	—	—
Laborers, except farm	—	—	—	6	5	100	22	153	5	—	—	—	5
Farm workers	—	—	—	—	—	—	—	—	—	—	—	—	—
Service workers, including private household	5	—	—	29	5	73	280	109	5	3 799	5	—	70
Cleaning service workers	5	—	—	12	—	43	14	16	5	10	—	—	56
Personal service workers	—	—	—	3	—	23	9	7	—	—	—	—	3
Other service workers, including private household	—	—	—	5	—	21	243	93	—	3 784	—	—	11

Table 180. Occupation of Employed Persons by Industry Group and Sex: 1970—Continued

(Data based on sample, see text. For meaning of symbols, see text.)

The State Standard Metropolitan Statistical Areas of 250,000 or More	GRAND RAPIDS SMSA											
	Business services	Repair services	Hotels and lodging places	Other personal services, including private households	Entertainment and recreation services	Hospitals	Health services, except hospitals	Educational services, government	Educational services, private	Welfare, religious, and nonprofit membership organizations	Other professional and related services	Public administration
Total employed	3 089	3 004	1 345	6 009	1 268	6 895	4 932	9 209	6 020	3 361	4 093	5 330
Professional, technical, and kindred workers	457	60	51	156	246	2 393	1 638	5 771	3 620	1 489	2 035	679
Accountants	102	—	11	10	—	18	5	—	6	19	406	129
Architects	5	—	—	—	—	—	—	—	—	—	114	5
Computer specialists	5	—	—	—	—	—	—	—	—	—	19	—
Engineers	26	5	4	5	—	15	—	6	6	6	196	57
Chemical	—	—	—	5	—	—	—	—	—	—	—	—
Civil	—	—	—	—	—	—	—	—	—	—	—	—
Electrical and electronic	—	—	—	—	—	—	—	—	—	—	—	—
Industrial	16	—	—	—	—	—	—	—	—	—	—	—
Mechanical	—	—	—	—	—	—	—	—	—	—	—	—
Other engineers	10	5	4	—	—	5	—	—	—	—	—	—
Other professional, technical, and kindred workers	—	—	—	—	—	—	—	—	—	—	—	—
Mathematical specialists	—	—	—	—	—	—	—	—	—	—	—	—
Life and physical scientists	4	—	—	—	—	—	—	—	—	—	—	—
Chemists	—	—	—	—	—	—	—	—	—	—	—	—
Personnel and labor relations workers	—	—	—	—	—	—	—	—	—	—	—	—
Other professional, technical, and kindred workers	110	—	—	6	—	12	17	6	8	5	17	14
Social scientists	32	—	—	—	—	4	6	17	11	17	12	57
Engineers and science technicians	20	6	—	5	—	10	9	55	65	11	8	12
Draftsmen	9	6	—	—	—	—	—	5	246	—	246	73
Electrical and electronic engineering technicians	—	—	—	—	—	—	—	—	164	—	164	27
Industrial and mechanical engineering technicians	—	—	—	—	—	—	—	—	—	—	—	—
Technicians, except health, and engineering and science	123	11	—	—	—	—	—	—	—	—	—	—
Writers, artists, and entertainers	—	—	—	—	—	—	—	—	—	—	—	—
Other professional, technical, and kindred workers	30	38	11	24	106	2 304	1 602	5 673	3 493	1 270	876	275
Managers and administrators, except farm	313	212	171	303	130	132	150	409	278	278	162	742
Buyers, purchasing agents, and sales managers	24	20	13	9	4	5	7	25	6	—	4	23
Other managers and administrators	289	170	158	294	126	127	143	384	272	278	162	719
Self-employed	184	148	96	169	99	127	107	262	141	278	141	719
Salaried	105	52	62	125	27	—	36	—	10	—	21	—
Self-employed	—	—	—	—	—	—	—	—	—	—	—	—
Sales workers	180	58	5	110	56	16	—	6	44	36	19	32
Clerical and kindred workers	1 019	291	291	585	140	1 029	707	1 487	1 011	713	1 148	2 278
Bookkeepers	83	77	74	36	19	52	89	34	34	69	143	94
Cashiers	7	6	—	1	—	—	—	—	—	—	—	—
Estimators and investigators, n.e.c.	68	13	5	16	61	74	—	35	11	—	4	28
Office machine operators	62	13	5	17	—	—	—	—	—	—	—	49
Shipping and receiving clerks	16	5	6	3	—	29	—	19	31	4	18	22
Stock clerks and storekeepers	14	11	—	5	—	—	—	20	—	—	—	—
Other clerical and kindred workers	772	176	130	473	55	913	638	1 374	917	635	976	1 121
Craftsmen and kindred workers	209	1 625	40	139	55	101	143	136	77	22	82	182
Blacksmiths, forgemen, hammermen, and boilermakers	—	—	—	—	—	—	—	—	—	—	—	—
Brickmasons and stonemasons	—	—	—	—	—	—	—	—	—	—	—	—
Carpenters	7	—	7	—	5	11	5	18	12	6	12	5
Cranemen, derrickmen, and hoistmen	—	—	—	—	—	—	—	—	—	—	—	—
Electricians	4	10	—	—	6	15	—	8	—	—	4	11
Excavating, grading, and road machine operators	—	—	—	—	—	—	—	—	—	—	—	—
Foremen, n.e.c.	33	41	10	26	—	8	18	10	12	—	—	21
Mechanics and repairmen	55	812	43	43	29	4	9	35	30	—	—	80
Automobile, including body	—	—	—	—	—	—	—	—	—	—	—	50
Machinists, job setters, and toolmakers	5	31	—	17	—	9	—	15	6	—	4	—
Metal craftsmen, except mechanics and machinists	—	—	—	—	—	—	—	—	—	—	—	—
Painters, construction and maintenance, and plasterers and paperhangers	11	26	12	9	5	19	6	5	—	—	—	7
Plumbers and pipe fitters	14	—	—	—	—	6	—	4	—	5	—	10
Printing craftsmen	5	—	5	—	—	—	—	—	—	—	—	—
Stationary engineers and power station operators	5	—	5	7	—	21	—	15	5	—	5	14
Other craftsmen and kindred workers	70	244	6	54	10	4	105	41	18	—	52	29
Operatives, except transport	153	276	34	884	34	156	84	62	34	30	68	39
Assemblers	5	—	—	10	8	—	—	—	—	6	—	—
Checkers, examiners, and inspectors; manufacturing	—	—	—	—	—	—	—	—	—	—	—	—
Filers, polishers, sanders, and buffers	—	—	—	4	—	—	6	—	—	—	—	—
Painters, manufactured articles	—	—	—	—	—	—	—	—	—	—	—	—
Precision machine operatives	—	—	—	—	—	—	—	—	—	—	—	—
Welders and flamecutters	—	—	—	—	—	—	—	—	—	—	—	—
Other specified operatives	74	63	34	844	17	141	74	38	18	—	14	6
Machine operatives, miscellaneous specified	—	—	—	4	9	—	4	9	6	—	25	6
Machine operatives, not specified	—	—	—	—	—	—	—	—	—	—	—	—
Miscellaneous operatives	40	5	—	5	—	10	4	11	7	—	—	5
Not specified operatives	15	3	—	17	—	5	—	—	—	4	—	—

Table 180. Occupation of Employed Persons by Industry Group and Sex: 1970—Continued

[Data based on sample, see text. For meaning of symbols, see text.]

The State Standard Metropolitan Statistical Areas of 250,000 or More	GRAND RAPIDS SMSA—Continued										Public adminis- tration	
	Business services	Repair services	Hotels and lodging places	Other personal services, including private household	Entertain- ment and recreation services	Hospitals	Health services, except hospitals	Educational services, government	Educational services, private	Welfare, religious, and nonprofit membership organiza- tions		Other professional and related services
<b>Total employed—Continued</b>												
Transport equipment operatives	43	95	—	167	7	5	9	39	10	6	23	77
Deliverymen and roulemen	20	10	—	155	7	5	3	4	—	—	9	18
Truck drivers	18	22	—	6	—	—	6	26	10	—	8	42
Other transport equipment operatives	5	63	—	6	—	—	—	—	—	6	6	17
<b>Laborers, except farm</b>	16	286	10	162	105	46	26	15	29	18	37	100
Freight, stock, and material handlers	5	46	4	46	4	13	—	11	6	11	6	45
Other specified laborers	—	256	5	68	101	33	21	11	18	2	24	49
Miscellaneous laborers	—	16	—	25	—	—	5	4	—	—	—	—
Not specified laborers	11	14	5	23	—	—	—	—	5	5	13	6
<b>Farm workers</b>	—	—	—	—	—	—	—	—	—	—	—	—
Service workers, including private household	699	101	813	3 543	495	3 017	2 175	1 284	917	769	519	1 201
Personal service workers	498	33	338	311	84	385	150	777	503	464	52	176
Guards and watchmen	—	—	93	1 572	142	77	54	186	138	113	10	15
Other service workers, including private household	166	62	377	1 860	284	2 541	1 960	321	267	192	457	973
<b>Female employed</b>	1 327	388	759	4 456	585	5 425	3 632	5 866	3 591	1 663	2 053	1 315
<b>Professional, technical, and kindred workers</b>	108	—	14	65	121	1 929	715	3 732	2 114	448	500	148
Accountants	35	—	—	10	—	4	5	—	6	—	14	5
Computer specialists	—	—	—	—	—	—	—	—	—	—	—	—
Life and physical scientists	—	—	—	—	—	8	12	—	2	—	4	—
Registered nurses, dietitians, and therapists	9	—	—	6	—	1 511	550	48	10	30	25	11
Social scientists	6	—	—	—	—	—	—	5	—	—	—	—
Writers, artists, and entertainers	13	—	14	30	44	4	—	—	16	123	—	4
Other professional, technical, and kindred workers	45	—	—	19	77	402	148	3 679	2 080	295	361	128
<b>Managers and administrators, except farm</b>	28	3	61	71	13	31	96	123	93	88	62	86
Salaried	17	3	34	56	8	31	46	123	93	88	62	86
Self-employed	11	—	27	15	5	—	30	—	—	—	—	—
<b>Sales workers</b>	34	15	5	61	41	10	—	6	25	20	—	12
<b>Clerical and kindred workers</b>	856	224	117	501	116	980	678	1 370	887	662	1 055	953
Bookkeepers	83	62	40	15	14	36	69	34	52	46	133	66
Cashiers	4	9	17	17	6	22	—	28	—	—	4	23
Counter clerks, except food	39	—	5	210	5	24	16	47	22	14	11	16
File clerks	—	—	—	—	—	17	—	15	—	5	8	18
Office machine operators	58	5	—	—	—	17	—	15	—	—	—	9
Bookkeeping and billing machine operators	—	—	—	6	—	—	—	47	—	—	46	4
Receptionists	44	5	5	61	—	117	212	17	90	25	—	141
Secretaries	255	48	35	61	12	312	288	495	406	397	563	178
Stenographers	16	—	—	—	—	11	6	9	6	—	—	100
Typists	100	6	—	21	6	97	53	74	46	82	53	100
Other clerical and kindred workers	257	89	9	105	18	303	45	658	248	84	214	417
<b>Craftsman and kindred workers</b>	9	52	—	25	6	16	51	35	17	11	15	4
Foremen, n.e.c.	4	—	—	4	—	8	18	—	7	—	—	4
<b>Operatives, except transport</b>	73	35	27	724	14	93	70	16	19	19	40	5
Assemblers	—	—	—	10	—	—	—	—	—	6	—	—
Checkers, examiners, and inspectors; manufacturing	—	—	—	—	—	—	—	—	—	—	—	—
Packers and wrappers, except meat and produce	17	—	—	7	—	—	—	—	—	—	—	—
Other operatives, except transport	51	35	27	707	14	93	70	16	19	8	29	5
<b>Transport equipment operatives</b>	—	12	—	—	—	—	3	26	10	6	—	4
<b>Laborers, except farm</b>	—	—	—	49	—	13	6	—	—	5	7	3
<b>Farm workers</b>	—	—	—	—	—	—	—	—	—	—	—	—
<b>Service workers, including private household</b>	219	47	535	2 960	274	2 353	2 013	556	426	404	374	100
Personal service workers	215	6	260	34	25	242	97	138	107	170	22	27
Guards and watchmen	—	—	68	1 121	64	65	63	138	93	71	10	3
Other service workers, including private household	4	41	207	1 794	185	2 048	1 862	301	228	163	342	68







Table 180. Occupation of Employed Persons by Industry Group and Sex: 1970—Continued

[Data based on sample, see text. For meaning of symbols, see text.]

The State  
Standard Metropolitan Statistical Areas  
of 250,000 or More

LANSING SMSA

Occupation	Durable goods—Continued				Nondurable goods								
	Motor vehicles and motor vehicle equipment	Aircraft and parts	Other transportation equipment	Ordnance	Other durable goods	Food and kindred products	Textile mill products	Apparel and other fabricated textile products	Paper and allied products	Printing, publishing, and allied industries	Chemicals and allied products	Rubber and miscellaneous plastic products	Other nondurable goods, incl. not specified manufacturing
<b>Total employed</b> .....	21 660	31	81	—	2 373	1 185	35	107	115	1 838	234	442	494
<b>Professional, technical, and kindred workers</b> .....	1 503	—	—	—	122	43	—	—	6	322	17	22	36
Accountants.....	174	—	—	—	8	—	—	—	—	13	—	—	5
Architects.....	5	—	—	—	—	—	—	—	—	—	—	—	—
Computer specialists.....	57	—	—	—	—	5	—	—	—	—	—	5	8
Engineers.....	607	—	—	—	17	—	—	—	—	—	—	5	—
Physicians.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Chemical.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Civil.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Electrical and electronic.....	42	—	—	—	—	—	—	—	—	—	—	—	—
Industrial.....	276	—	—	—	4	—	—	—	—	—	—	—	—
Mechanical.....	227	—	—	—	5	—	—	—	—	—	—	—	—
Other engineers.....	67	—	—	—	8	—	—	—	—	—	—	—	—
<b>Mathematical specialists</b> .....	29	—	—	—	5	—	—	—	—	—	—	—	—
<b>Life and physical scientists</b> .....	13	—	—	—	—	16	—	—	—	—	6	—	—
Chemists.....	13	—	—	—	—	12	—	—	—	—	6	—	—
Personnel and labor relations workers.....	124	—	—	—	—	7	—	—	—	—	—	—	4
Social scientists.....	303	—	—	—	—	15	—	—	—	—	—	—	5
Engineering and science technicians.....	231	—	—	—	—	—	—	—	—	—	—	—	—
Draftsmen.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Electrical and electronic engineering technicians.....	47	—	—	—	—	—	—	—	—	—	—	—	—
Industrial and mechanical engineering technicians.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Technicians, except health, and engineering and science.....	72	—	—	—	—	—	—	—	—	—	—	—	—
Writers, artists, and entertainers.....	85	—	—	—	92	—	—	—	6	309	—	—	—
Other professional, technical, and kindred workers.....	—	—	—	—	—	—	—	—	—	—	—	—	14
<b>Managers and administrators, except farm</b> .....	345	—	11	—	87	101	6	11	10	281	10	24	24
Buyers, purchasing agents, and sales managers.....	96	—	—	—	6	34	—	—	—	28	—	—	—
Other managers and administrators.....	249	—	11	—	81	67	—	—	10	58	—	—	24
Salaries.....	249	—	7	—	75	82	—	—	5	48	—	—	15
Self-employed.....	—	—	4	—	6	5	—	—	5	10	—	—	—
<b>Sales workers</b> .....	73	4	4	—	60	65	—	32	9	281	54	8	75
<b>Clerical and kindred workers</b> .....	1 953	5	—	—	218	126	6	11	3	395	42	62	73
Bookkeepers.....	122	—	—	—	39	39	6	7	—	40	4	6	11
Cashiers.....	5	—	—	—	4	—	—	—	—	6	—	—	—
Estimators and inspectors, n.e.c.....	25	—	—	—	—	4	—	—	—	—	—	—	—
Office machine operators.....	196	—	—	—	—	16	—	—	—	5	8	10	—
Shipping and receiving clerks.....	118	5	—	—	4	16	—	—	—	—	—	—	—
Stock clerks and stockkeepers.....	242	—	—	—	—	9	—	—	—	5	—	—	—
Other clerical and kindred workers.....	1 245	—	—	—	203	37	—	4	3	334	30	32	62
<b>Craftsmen and kindred workers</b> .....	5 310	10	33	—	441	216	7	6	12	539	27	86	62
Blacksmiths, forgers, hammermen, and boilermakers.....	26	—	6	—	—	—	—	—	—	—	—	—	—
Brickmasons and stonemasons.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Carpenters.....	27	—	9	—	—	—	4	—	—	—	—	—	—
Cranemen, derrickmen, and hoistmen.....	84	—	—	—	—	—	—	—	—	—	—	—	—
Electricians.....	291	—	—	—	—	16	—	—	—	—	—	—	—
Excavating, grading, and road machine operators.....	4	—	—	—	—	—	—	—	—	—	—	—	—
Foremen, n.e.c.....	1 021	3	3	—	21	47	3	—	12	48	19	45	19
Mechanics and repairmen.....	1 520	10	10	—	21	64	—	—	4	5	4	16	—
Automobile, including body.....	1 008	5	—	—	5	—	—	—	—	—	—	—	—
Machinists, job setters, and toolmakers.....	1 215	—	—	—	—	—	—	—	—	—	—	—	—
Metal craftsmen, except mechanics and machinists.....	516	—	—	—	14	—	—	6	—	—	—	—	—
Painters, except structural, and plasterers and paperhangers.....	85	—	—	—	—	—	—	—	—	—	—	—	—
Plumbers and pipe fitters.....	260	—	—	—	—	—	—	—	—	—	—	—	—
Primitive craftsmen.....	10	—	—	—	—	—	—	—	—	486	—	14	—
Stationary engineers and power station operators.....	19	—	—	—	—	15	—	—	—	—	—	—	—
Other craftsmen and kindred workers.....	232	—	5	—	377	74	—	—	—	—	—	5	43
<b>Operatives, except transport</b> .....	9 982	12	28	—	1 098	402	10	42	48	162	36	218	179
Assemblers.....	3 449	10	10	—	35	18	—	6	10	15	—	54	20
Checkers, examiners, and inspectors; manufacturing.....	1	7	4	—	5	—	—	—	—	—	—	—	—
Filers, polishers, sanders, and buffers.....	252	—	—	—	—	—	—	—	—	—	—	—	—
Painters, manufactured articles.....	348	—	—	—	—	—	—	—	—	—	—	—	—
Precision machine operatives.....	666	—	—	—	10	12	—	—	—	—	—	5	14
Welders and flammcutters.....	791	—	—	—	10	5	—	—	—	—	—	9	4
Other specified operatives.....	1 413	5	5	—	956	198	10	25	5	35	10	85	105
Machine operatives, miscellaneous specified.....	581	—	—	—	12	76	—	—	23	46	6	24	5
Machine operatives, not specified.....	364	—	—	—	7	9	—	—	4	28	—	21	6
Miscellaneous operatives.....	301	—	—	—	33	41	—	—	6	33	10	8	6
Not specified operatives.....	257	—	9	—	26	34	—	5	—	—	10	—	14

Manufacturing—Continued

Durable goods—Continued

Nondurable goods

Motor vehicles and motor vehicle equipment	Aircraft and parts	Other transportation equipment	Ordnance	Other durable goods	Food and kindred products	Textile mill products	Apparel and other fabricated textile products	Paper and allied products	Printing, publishing, and allied industries	Chemicals and allied products	Rubber and miscellaneous plastic products	Other nondurable goods, incl. not specified manufacturing
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Table 180. Occupation of Employed Persons by Industry Group and Sex: 1970 - Continued

(Data based on sample, see text. For meaning of symbols, see text)

	Manufacturing - Continued												
	Durable goods - Continued					Nondurable goods							
	Motor vehicles and motor vehicle equipment	Aircraft and parts	Other transportation equipment	Ordnance	Other durable goods	Food and kindred products	Textile mill products	Apparel and other fabricated textile products	Paper and allied products	Printing, publishing, and allied industries	Chemicals and allied products	Rubber and miscellaneous plastic products	Other nondurable goods, incl. not specified manufacturing
<b>LANSING SMSA - Continued</b>													
<b>Total employed - Continued</b>													
Transport equipment operators	1 144	-	-	-	132	101	6	-	16	16	6	6	5
Deliverymen and routemen	42	-	-	-	4	78	-	-	16	16	6	6	5
Truck drivers	494	-	-	-	27	14	-	-	11	11	-	-	-
Other transport equipment operators	608	-	-	-	101	9	6	-	5	-	-	-	-
<b>Laborers, except farm</b>	645	-	5	-	87	99	-	-	6	14	27	16	25
Freight, stock, and material handlers	365	-	5	-	5	66	-	-	6	4	20	5	16
Other specified laborers	108	-	-	-	77	16	-	-	6	7	7	5	16
Miscellaneous laborers	40	-	-	-	4	4	-	-	-	10	-	5	9
Not specified laborers	132	-	-	-	5	13	-	-	-	-	-	6	-
<b>Farm workers</b>	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Service workers, including private household</b>	705	-	-	-	198	32	-	5	5	23	15	-	15
Cleaning service workers	533	-	-	-	20	27	-	-	5	23	-	-	5
Personal service workers	121	-	-	-	3	-	-	-	-	-	-	-	-
Garde-ménages	120	-	-	-	6	-	-	5	-	-	-	-	-
Other service workers, including private household	41	-	-	-	99	5	-	-	-	-	-	-	10
<b>Female employed</b>													
<b>Professional, technical, and kindred workers</b>	2 735	4	15	-	347	227	10	58	13	770	57	217	198
Accountants	78	-	-	-	6	10	-	-	-	120	-	-	5
Computer specialists	24	-	-	-	-	-	-	-	-	8	-	-	-
Life and physical scientists	-	-	-	-	-	-	-	-	-	-	-	-	-
Registered nurses, dietitians, and therapists	28	-	-	-	-	-	-	-	-	-	-	-	-
Social scientists	-	-	-	-	-	-	-	-	-	112	-	-	-
Writers, artists, and entertainers	26	-	-	-	6	10	-	-	-	-	-	-	5
Other professional, technical, and kindred workers	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Managers and administrators, except farm</b>	5	-	7	-	6	-	-	-	-	4	-	-	5
Salaries	5	-	7	-	6	-	-	-	-	4	-	-	5
Self-employed	-	-	-	-	6	-	-	-	-	4	-	-	5
<b>Sales workers</b>	9	4	-	-	-	4	-	5	-	73	-	-	5
<b>Clerical and kindred workers</b>	823	-	-	-	87	88	6	11	3	336	29	43	63
Bookkeepers	55	-	-	-	7	39	6	7	6	40	-	6	6
Cashiers	5	-	-	-	4	5	-	-	-	6	-	-	-
Counter clerks, except food	15	-	-	-	-	-	-	4	-	8	-	-	-
File clerks	38	-	-	-	-	5	-	-	-	26	5	-	-
Office machine operators	140	-	-	-	-	16	-	-	-	5	8	5	-
Bookkeeping and billing machine operators	4	-	-	-	-	-	-	-	-	5	5	-	-
Receptionists	261	-	-	-	11	10	-	-	3	70	6	18	8
Secretaries	50	-	-	-	-	7	-	-	-	54	6	8	-
Stenographers	128	-	-	-	-	11	-	-	-	122	4	6	49
Typists	127	-	-	-	65	11	-	-	-	4	4	6	-
Other clerical and kindred workers	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Craftsman and kindred workers</b>	52	-	5	-	4	10	-	-	-	110	10	24	10
Foremen, n.e.c.	5	-	-	-	-	5	-	-	-	7	6	5	-
<b>Operatives, except transport</b>	1 555	-	3	-	214	105	4	42	5	117	9	150	94
Assemblers	764	-	-	-	5	5	-	6	5	5	-	-	14
Checkers, examiners, and inspectors, manufacturing	264	-	-	-	5	5	-	6	5	15	5	54	14
Packers and wrappers, except meat and produce	39	-	-	-	5	48	-	-	-	97	5	57	80
Other operatives, except transport	488	-	3	-	204	52	4	30	-	4	4	39	-
<b>Transport equipment operators</b>	39	-	-	-	5	-	-	-	5	6	-	-	-
<b>Laborers, except farm</b>	47	-	-	-	7	5	-	-	-	-	-	-	6
<b>Farm workers</b>	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Service workers, including private household</b>	127	-	-	-	18	5	-	-	-	4	9	-	10
Cleaning service workers	100	-	-	-	-	-	-	-	-	4	4	-	9
Personal service workers	-	-	-	-	-	-	-	-	-	-	-	-	-
Other service workers, including private household	27	-	-	-	15	5	-	-	-	-	-	-	5

Table 180. Occupation of Employed Persons by Industry Group and Sex: 1970—Continued

(Data based on sample, see text. For meaning of symbols, see text)

The State Standard Metropolitan Statistical Areas of 250,000 or More	Railroads and railway express service	Trucking service and ware- housing	Other transportation	Communi- cations	Utilities and sanitary services	Wholesale trade	Retail trade					Insurance	Finance and real estate	
							General merchandise retailing	Food stores	Automotive dealers and gasoline stations	Eating and drinking places	Other retail trade			
<b>LANSING SMSA</b>														
<b>Total employed</b>	381	1 245	778	1 417	1 753	4 516	4 392	3 016	3 223	4 952	8 055	2 950	3 955	
Professional, technical, and kindred workers														
Accountants		36	21	192	193	165	78	21	33	29	256	196	118	
Architects		5			5	33		5	17		37	45	47	
Computer specialists		10				13	10				6	60	14	
Engineers		11		39	53	46	6		5		23	9	5	
Chemical						5								
Civil				5	11									
Electrical and electronic				34	19	12								
Industrial		5			5									
Mechanical					12									
Other engineers		6			6	29	6		5		12	4	5	
Mathematical specialists														
Life and physical scientists						5								
Chemists					8									
Personnel and labor relations workers					8									
Social scientists				9	9		24			10	5	31	7	
Engineering and science technicians				41	27	10	10							
Electric and electronic engineering technicians				4	4	5	10							
Mechanical and electrical engineering technicians				37	17	5								
Technicians, except health, and engineering and science				19	6	9			5					
Writers, artists, and entertainers			16	70	5	5	19			19	13	4	11	
Other professional, technical, and kindred workers		5	14	60	60	33	4	6		6	172	43	30	
<b>Managers and administrators, except farm</b>	55	71	42	126	62	640	494	419	531	494	1 029	226	673	
Buyers, purchasing agents, and sales managers		7	4			151	220	107	86	8	235	29	22	
Other managers and administrators	55	71	38	126	62	489	274	312	486	486	651	197	651	
Sales	55	66	18	121	56	438	248	201	271	309	538	197	642	
Self-employed		5	20	5	6	51	26	111	174	177	256		9	
<b>Sales workers</b>	5	27	10	48	3	1 020	2 085	448	469	95	3 289	976	738	
<b>Clerical and kindred workers</b>	50	226	106	541	428	865	842	730	276	292	1 426	1 492	2 059	
Bookkeepers		14	26	23	5	133	78	37	142	25	358	96	289	
Cashiers							312	526	5	212	317	14		
Estimators and investigators, n.e.c.				5		27	31	6						
Office machine operators				30	24	17			5		5			
Shipping and receiving clerks		31				108	58		5		19		75	
Stock clerks and stockkeepers		11			19	131	46	57	16		50		127	
Other clerical and kindred workers	45	165	80	513	313	449	277	98	98	55	636	10	560	
<b>Craftsmen and kindred workers</b>	123	98	41	485	619	396	218	136	824	26	764	38	98	
Blacksmiths, forgers, hammermen, and boilermakers					5									
Brickmasons and stonemasons					4	6	3				21		6	
Carpenters					5	22								
Cranemen, derrickmen, and hoistmen					28	4								
Electricians	5				16									
Excavating, grading, and road machine operators	5				16									
Foremen, n.e.c.	17	21		21	135	106	49	43	14	5	6	9	4	
Mechanics and repairmen	43	67	41	133	133	156	112	10	740	5	959	5	11	
Automobile, including body		63	14		6	13	15	10	684	5	15		10	
Mechanists, job setters, and toolmakers	5					10			16		4		13	
Metal craftsmen, except mechanics and machinists						4					10			
Painters, construction and maintenance, and plasterers and paperhangers						11	5			5	10		4	
Plumbers and pipe fitters				6	19	5	5				14			
Printing craftsmen					142						5		11	
Stationary engineers and power station operators	48	10		458	123	72	44	83	34	11	373	3	10	
Other craftsmen and kindred workers						424	109	348	866	15	239		13	
<b>Operatives, except transport</b>	18	44	17	5	126	13	4		9		11			
Assemblers	4													
Checkers, examiners, and inspectors; manufacturing														
Filers, polishers, sanders, and buffers					5				21		5			
Painters, manufactured articles									32					
Precision machine operators														
Welders and flamecutters	9	5	6		14	20					6			
Other specified operatives	5	29			62	234	96	318	796		189		4	
Machine operatives, miscellaneous specified		10			23	54	5	12	8		12		9	
Machine operatives, not specified					6	37	4	5			9			
Miscellaneous operatives			11	5	9	44	4	5		15				
Not specified operatives					5	22		13	6		7			

Table 180. Occupation of Employed Persons by Industry Group and Sex: 1970—Continued

[Data based on sample, see text. For meaning of symbols, see text.]

	Railroads and railway express service	Trucking service and warehousing	Other transportation	Communications	Utilities and sanitary services	Wholesale trade	Retail trade				Insurance	Finance and real estate	
							General merchandise retailing	Food stores	Automotive dealers and gasoline stations	Eating and drinking places			Other retail trade
<b>The State</b>													
<b>Standard Metropolitan Statistical Areas of 250,000 or More</b>													
<b>LANSING SMSA—Continued</b>													
<b>Total employed—Continued</b>													
Transport equipment operatives	66	622	521	10	133	587	34	61	68	289	16		
Deliverymen and routemen	—	87	—	5	12	314	25	20	148	—	5		
Truck drivers	5	535	10	5	70	219	9	41	62	101	—		
Other transport equipment operatives	61	—	511	—	51	54	—	—	6	40	11		
Laborers, except farm	31	110	9	—	127	352	751	79	—	244	4		
Freight, stock, and material handlers	—	84	4	—	15	235	192	6	—	153	—		
Other specified laborers	—	4	5	—	46	34	19	59	—	65	—		
Miscellaneous laborers	31	11	—	—	22	27	—	—	—	3	—		
Not specified laborers	—	11	—	—	10	56	—	5	—	23	—		
Farm workers	—	—	—	—	—	—	—	—	—	—	—		
Service workers, including private household	33	11	11	10	62	67	129	64	3 933	519	18	234	
Personal service workers	6	—	11	5	45	45	36	58	56	98	18	206	
Guards and watchmen	3	—	—	—	6	6	—	—	31	5	—	9	
Other service workers, including private household	24	—	—	5	6	16	6	6	4	—	—	5	
Female employed	5	164	431	570	282	899	1 217	269	2 957	3 822	1 485	2 153	
Professional, technical, and kindred workers	—	—	—	24	18	5	6	—	18	42	41	18	
Accountants	—	—	—	—	5	—	—	—	—	14	24	15	
Computer specialists	—	—	—	—	—	—	—	—	—	6	—	—	
Life, physical, and social scientists	—	—	—	—	—	—	—	—	—	—	—	—	
Registered nurses, dietitians, and therapists	—	—	—	—	—	—	6	—	—	—	—	—	
Social scientists, statisticians, and mathematicians	—	—	—	—	4	—	—	—	—	5	—	—	
Writers, artists, and entertainers	—	—	—	5	—	5	—	—	13	5	—	—	
Other professional, technical, and kindred workers	—	—	—	19	9	—	—	—	5	12	11	3	
Managers and administrators, except farm	—	4	23	4	8	50	76	9	134	179	61	158	
Salaried	—	4	18	4	8	41	46	9	78	128	61	153	
Self-employed	—	—	5	—	—	9	30	—	56	51	—	5	
Sales workers	—	—	10	8	—	102	316	4	37	1 790	124	172	
Clerical and kindred workers	5	126	70	509	227	571	579	216	228	1 152	1 240	1 699	
Bookkeepers	—	14	26	23	27	97	31	118	10	321	99	258	
Cashiers	—	—	—	15	5	4	474	5	174	266	14	—	
Counter clerks, except food	—	—	—	—	—	—	—	—	10	—	—	—	
File clerks	—	—	—	5	—	20	5	5	—	17	—	—	
Office machine operators	—	—	—	—	24	27	—	—	—	22	100	83	
Bookkeeping and billing machine operators	—	—	—	—	—	—	—	—	—	9	106	44	
Receptionists	—	62	6	20	37	202	33	40	19	10	450	45	
Secretaries	—	24	6	5	62	40	—	18	—	154	8	413	
Stenographers	—	24	6	3	42	40	—	18	—	57	163	92	
Typists	5	26	32	436	92	175	36	25	15	299	294	752	
Other clerical and kindred workers	—	—	—	—	5	5	50	9	5	130	15	—	
Craftsmen and kindred workers	—	—	—	6	—	—	—	—	—	22	9	—	
Foremen, n.e.c.	—	9	—	5	5	118	74	20	8	108	—	13	
Operatives, except transport	—	—	—	—	—	—	—	—	—	5	—	—	
Assemblers	—	—	—	—	—	—	—	—	—	—	—	—	
Checkers, examiners, and inspectors; manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	
Packers and wrappers, except meat and produce	—	—	—	—	—	—	—	—	—	—	—	—	
Other operatives, except transport	—	9	—	5	5	107	62	20	8	98	—	13	
Transport equipment operatives	—	10	328	—	13	10	—	—	—	—	—	5	
Laborers, except farm	—	11	—	—	—	28	41	—	—	13	4	9	
Farm workers	—	—	—	—	—	—	—	—	—	—	—	—	
Service workers, including private household	—	4	—	5	6	10	75	11	2 527	408	—	79	
Personal service workers	—	4	—	—	—	10	6	5	6	48	—	70	
Other service workers, including private household	—	—	—	5	—	—	—	—	—	11	—	5	
Other service workers, including private household	—	—	—	—	6	—	69	6	2 510	355	—	4	

Table 180. Occupation of Employed Persons by Industry Group and Sex: 1970—Continued

(Data based on sample, see text. For meaning of symbols, see text.)

The State Standard Metropolitan Statistical Areas of 250,000 or More		LANSING SMSA											
	Total employed	Business services	Repair services	Hotels and lodging places	Other personal services, including household	Entertainment and recreation services	Hospitals	Health services, except hospitals	Educational services, government	Educational services, private	Welfare, religious, and nonprofit organizations	Other professional and related services	Public administration
Accountants	392	32	4	68	125	232	1 392	1 472	10 513	1 776	1 061	1 724	1 938
Architects	54	4	—	16	—	4	18	20	63	10	42	276	375
Computer specialists	—	—	—	—	—	—	—	—	—	—	—	72	60
Engineers	32	5	—	—	10	—	4	47	155	34	44	128	128
Chemical	—	—	—	—	—	—	—	36	91	11	10	152	186
Civil	—	—	—	—	—	—	—	21	6	—	5	56	115
Electrical and electronic	6	—	—	—	4	—	—	8	—	—	—	12	10
Industrial	6	—	—	—	—	—	—	46	—	—	5	10	12
Mechanical	11	—	—	—	6	—	4	—	—	—	5	9	15
Other engineers	9	—	—	—	—	—	—	4	—	6	—	14	5
Mathematical specialists	—	—	—	—	—	—	—	11	20	—	—	61	41
Life and physical scientists	—	—	—	—	—	—	—	—	4	—	—	4	—
Chemists	—	—	—	—	—	—	—	15	—	—	—	4	—
Personnel and labor relations workers	50	—	—	—	—	—	8	62	228	22	6	19	36
Social scientists	25	—	—	—	5	—	10	17	119	6	6	6	33
Engineering and science technicians	39	—	—	—	—	—	4	19	59	6	17	5	170
Draftsmen	27	—	—	—	24	—	—	42	298	—	4	5	117
Electrical and electronic engineering technicians	—	—	—	—	—	—	—	8	—	50	—	—	132
Industrial and mechanical engineering technicians	—	—	—	—	—	—	—	—	28	—	—	—	60
Mechanical and electrical engineering technicians	—	—	—	—	—	—	—	—	16	—	—	—	25
Technicians, except health, and engineering and science	64	—	—	—	—	—	—	—	—	—	—	—	—
Writers, artists, and entertainers	42	—	—	—	81	138	—	14	182	20	80	123	81
Other professional, technical, and kindred workers	42	23	—	47	5	85	1 348	1 241	9 347	1 563	847	909	499
Managers and administrators, except farm	183	170	40	98	227	98	109	182	850	187	326	107	1 172
Buyers, purchasing agents, and sales managers	16	—	—	—	—	—	—	—	12	—	—	—	36
Other managers and administrators	167	166	4	98	227	98	18	—	72	10	5	—	—
Soloists	124	121	—	75	182	110	91	132	838	177	321	107	1 136
Self-employed	43	—	—	23	45	27	—	22	838	174	321	107	1 136
Sales workers	139	—	—	—	37	40	4	—	—	3	—	—	—
Clerical and kindred workers	755	198	198	243	436	111	666	833	3 773	1 109	810	1 038	5 972
Bookkeepers	66	42	—	42	36	13	61	32	137	70	72	142	465
Cashiers	20	10	—	16	23	39	7	12	111	45	—	—	29
Estimators and investigators, n.e.c.	43	6	—	—	5	—	—	4	—	—	—	—	117
Office machine operators	—	—	—	—	—	—	—	—	—	—	—	—	10
Shipping and receiving clerks	—	—	—	—	—	—	34	28	136	25	4	68	372
Stock clerks and order clerks	6	—	—	—	—	—	5	6	40	13	—	—	55
Other clerical and kindred workers	614	94	—	185	370	59	547	731	3 333	951	692	818	4 919
Craftsmen and kindred workers	113	733	40	49	120	35	69	81	527	161	38	58	406
Blacksmiths, forgers, hammermen, and boilermakers	—	—	—	—	4	—	—	—	—	—	—	—	6
Brickmasons and stonemasons	—	—	—	—	—	—	—	—	—	—	—	—	—
Carpenters	5	6	—	—	4	—	16	—	45	14	—	—	31
Cranemen, derrickmen, and hoistmen	—	—	—	—	—	—	—	—	—	—	—	—	—
Electricians	—	5	—	10	—	—	—	5	17	10	—	—	6
Excavating, grading, and road machine operators	—	—	—	—	—	—	—	—	—	—	—	—	—
Foremen, n.e.c.	15	38	—	—	9	—	13	9	122	29	14	6	57
Mechanics and repairmen	60	567	—	15	24	30	6	16	87	30	6	4	212
Automobile including body	—	321	—	—	—	—	—	6	12	—	—	—	79
Machinists, job setters, and toolmakers	—	11	—	—	—	—	—	6	13	5	—	—	—
Metal craftsmen, except mechanics and machinists	—	—	—	—	—	—	—	—	—	—	—	—	—
Painters, construction and maintenance, and plasterers and paperhangers	5	9	—	—	11	5	10	—	6	7	—	—	19
Plumbers and pipe fitters	—	—	—	5	—	—	—	—	—	—	—	—	—
Printing craftsmen	—	—	—	—	—	—	3	—	31	5	10	4	28
Stationary engineers and power station operators	—	—	—	9	—	—	17	5	18	8	—	—	—
Other craftsmen and kindred workers	28	92	—	10	68	—	4	46	105	37	4	44	36
Operatives, except transport	63	163	514	12	514	21	82	58	195	47	9	25	80
Assemblers	—	12	—	—	—	—	—	—	—	—	—	—	10
Checkers, examiners, and inspectors, manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	—
Filers, polishers, sanders, and buffers	—	—	—	—	—	—	—	—	—	—	—	—	—
Painters, manufactured articles	—	14	—	—	—	—	—	—	—	—	—	—	—
Precision machine operatives	—	—	7	—	—	—	—	—	—	—	—	—	—
Welders and flamecutters	—	63	—	—	—	—	—	—	—	—	—	—	—
Other specified operatives	51	25	503	12	503	16	82	47	108	24	5	25	23
Machine operatives, miscellaneous specified	—	—	—	—	—	—	—	—	—	—	—	—	—
Machine operatives, not specified	—	—	—	—	—	—	—	—	—	—	—	—	—
Miscellaneous operatives	12	—	—	—	—	—	—	—	—	—	—	—	—
Not specified operatives	—	—	—	—	—	—	—	—	—	—	—	—	—

Table 180. Occupation of Employed Persons by Industry Group and Sex: 1970—Continued

[Data based on sample, see text. For meaning of symbols, see text.]

The State  
Standard Metropolitan Statistical Areas  
of 250,000 or More

LANSING SMSA—Continued

Total employed—Continued

Occupation	Business services	Repair services	Hotels and lodging places	Other personal services including private household	Entertainment and recreation services	Hospitals	Health services, except hospitals	Educational services, government	Educational services, private	Welfare, religious, and nonprofit membership organizations	Other professional and related services	Public administration
Transport equipment operatives	26	50	11	63	—	9	4	121	28	—	11	77
Deliverymen and routemen	15	—	—	52	—	9	—	33	13	—	5	6
Truck drivers	1	—	—	6	—	—	—	24	15	—	—	55
Other transport equipment operatives	5	50	11	5	—	—	4	64	—	—	6	16
Laborers, except farm	48	42	19	130	61	41	7	170	23	28	43	217
Freight, stock and material handlers	11	—	—	5	—	—	—	9	5	—	—	76
Other specified laborers	9	37	13	73	61	32	7	102	13	18	38	122
Miscellaneous laborers	—	10	6	17	—	—	—	9	5	—	—	10
Not specified laborers	28	—	—	33	—	—	—	18	—	5	—	9
Farm workers	—	—	—	—	—	—	—	—	—	—	—	—
Service workers, including private household	257	69	716	2,460	293	1,780	990	3,650	950	396	486	1,485
Cleaning service workers	165	29	148	53	49	209	1,448	1,312	178	31	173	573
Personal service workers	—	—	—	—	—	—	—	—	—	—	—	—
Barbers and waitresses	66	—	165	1,022	80	30	16	432	141	84	17	59
Other service workers, including private household	28	40	383	1,385	164	1,531	820	1,892	386	134	438	1,087
Female employed	956	261	773	3,074	359	3,396	2,445	10,208	2,678	1,331	1,878	5,513
Professional, technical, and kindred workers	113	—	29	37	104	1,155	695	4,894	1,074	322	563	471
Accountants	24	—	—	—	—	12	8	18	5	23	36	162
Computer specialists	—	—	—	—	—	—	17	—	10	—	—	42
Life and physical scientists	—	—	—	—	—	—	28	31	5	—	—	31
Registered nurses, dietitians, and therapists	4	—	10	5	—	934	346	9	9	30	5	8
Social scientists	—	—	—	—	—	—	4	26	—	—	—	13
Writers, artists, and entertainers	14	—	19	27	30	209	82	29	29	43	47	28
Other professional, technical, and kindred workers	71	—	—	5	74	—	292	4,601	1,016	222	462	187
Managers and administrators, except farm	26	29	35	83	10	14	71	169	41	60	28	165
Salaries	16	29	26	79	5	14	49	169	38	60	28	165
Self-employed	7	—	9	4	5	—	22	—	3	—	—	—
Sales workers	26	10	—	18	28	4	—	22	25	12	23	—
Chemical and kindred workers	664	139	199	394	88	632	788	3,166	1,004	723	909	4,721
Bookkeepers	46	42	31	31	8	61	49	112	70	65	94	396
Cashiers	6	10	12	25	34	7	6	77	45	—	—	23
Counter clerks, except food	—	6	54	114	10	—	17	17	5	—	—	5
File clerks	32	—	—	9	—	16	23	85	18	13	341	307
Office machine operators	39	6	—	—	—	29	89	28	5	28	45	307
Bookkeeping and billing machine operators	—	—	—	—	—	11	5	10	—	14	5	36
Receptionists	23	—	17	44	—	107	196	182	56	63	5	63
Secretaries	170	24	54	38	14	153	302	1,419	436	378	289	1,022
Stenographers	10	—	—	—	—	5	23	53	9	15	10	216
Typists	108	51	—	11	11	83	82	255	112	82	90	56
Other clerical and kindred workers	221	51	31	122	11	203	78	877	248	128	410	398
Craftsmen and kindred workers	19	20	10	21	—	11	21	92	29	—	6	27
Foremen, n.e.c.	—	—	—	5	—	8	4	24	8	—	—	6
Operatives, except transport	24	26	12	390	5	63	31	87	26	4	20	8
Assemblers	—	—	—	—	—	—	—	—	—	—	—	—
Checkers, examiners, and inspectors; manufacturing	4	—	—	—	—	—	—	—	—	—	—	—
Packers and wrappers, except meat and produce	—	—	—	—	—	—	—	—	—	—	—	—
Other operatives, except transport	20	26	12	390	5	63	31	87	26	4	20	8
Transport equipment operatives	—	—	—	3	—	—	—	17	—	—	6	—
Laborers, except farm	—	11	—	5	—	9	—	10	—	8	5	10
Farm workers	—	—	—	—	—	—	—	—	—	—	—	—
Service workers, including private household	84	26	488	2,123	124	1,508	839	1,751	479	202	318	1,111
Cleaning service workers	74	—	120	39	18	132	51	126	51	15	51	15
Personal service workers	—	—	143	756	23	17	16	306	93	67	13	30
Other service workers, including private household	10	26	225	1,328	83	1,359	772	1,319	289	84	293	66

Table 180. Occupation of Employed Persons by Industry Group and Sex: 1970 - Continued

[Data based on sample, see text. For meaning of symbols, see text.]

	Persons 16 years and over	Agriculture, forestry, and fisheries	Mining	Construction	Manufacturing							
					Durable goods						Electrical machinery, equipment, and supplies	
					Furniture, lumber, and wood products	Stone, clay, and glass products	Primary ferrous industries	Primary nonferrous industries	Fabricated metal industries, including not specified metal	Machinery, except electrical		
<b>Total employed</b>	<b>265 683</b>	<b>4 100</b>	<b>447</b>	<b>13 888</b>	<b>89 574</b>	<b>2 144</b>	<b>12 489</b>	<b>3 083</b>	<b>2 658</b>	<b>8 045</b>	<b>9 537</b>	<b>4 474</b>
Accountants	36 046	110	14	399	7 893	157	2 117	88	187	471	1 110	443
Architects	2 321	6	5	51	1 004	38	225	16	51	82	108	37
Computer specialists	83	—	—	—	24	—	10	—	—	4	—	—
Engineers	4 529	5	—	5	321	—	130	—	—	15	34	—
Chemical	4 134	5	—	224	2 687	34	861	30	45	120	531	170
Civil	234	—	—	—	202	90	—	—	—	—	—	—
Electrical and electronic	536	5	—	149	106	11	31	—	—	—	30	—
Industrial	545	—	—	19	301	4	79	4	—	5	83	51
Mechanical	772	—	—	—	630	5	20	20	20	98	98	63
Other engineers	803	—	—	—	548	18	136	4	5	30	148	12
Other workers	1 244	—	—	28	900	18	362	10	20	65	172	39
Mathematical specialists	37	—	—	—	14	—	5	—	—	—	—	—
Life and physical scientists	462	—	—	—	327	—	149	5	28	17	—	13
Chemists	346	—	—	—	264	—	106	5	22	17	—	8
Personnel and labor relations workers	909	6	—	9	374	11	88	9	4	34	32	26
Social scientists	354	—	—	—	134	—	87	—	—	—	—	—
Engineering and science technicians	2 475	4	9	67	1 488	30	241	17	49	119	274	128
Draftsmen	1 168	—	—	28	624	24	53	17	25	78	220	50
Electrical and electronic engineering technicians	139	—	—	—	154	—	37	4	—	—	—	—
Industrial and mechanical engineering technicians	139	—	—	—	129	5	20	—	—	21	4	—
Technicians, except health, and engineering and science	305	—	—	—	211	15	19	—	—	17	19	—
Writers, artists, and entertainers	2 114	14	—	21	662	24	113	—	—	63	43	27
Other professional, technical, and kindred workers	22 323	75	—	17	783	27	189	11	70	—	58	20
Managers and administrators, except farm	19 776	47	38	1 200	4 163	161	819	74	124	452	474	155
Buyers, purchasing agents, and sales managers	2 990	4	—	—	62	23	132	4	16	91	100	29
Other managers and administrators	16 786	43	38	1 138	3 341	138	687	70	108	361	374	126
Salaries	14 116	3	38	3 159	781	119	668	60	99	348	369	121
Self-employed	2 670	10	—	357	1 822	19	19	9	9	13	5	5
Sales workers	18 444	22	10	270	1 997	27	95	26	35	62	173	66
Clerical and kindred workers	45 271	50	50	901	11 198	265	1 931	265	256	835	1 418	669
Bookkeepers	4 998	12	27	208	1 016	32	167	—	37	52	62	6
Cashiers	3 273	—	—	—	49	—	4	—	—	—	—	—
Estimators and investigators, n.e.c.	842	—	—	—	138	—	34	—	—	6	—	—
Office machine operators	1 665	7	—	22	681	5	120	—	24	51	138	36
Shipping and receiving clerks	1 595	6	—	—	927	31	74	48	22	88	106	61
Stock clerks and storekeepers	1 732	—	—	—	817	12	46	22	17	170	160	75
Other clerical and kindred workers	31 166	25	23	539	7 570	185	1 486	195	156	549	845	429
Craftsmen and kindred workers	41 477	88	90	8 110	19 838	521	2 285	965	792	1 772	2 734	771
Blacksmiths, farriers, hammermen, and boilermakers	326	9	—	—	174	—	3	19	—	38	20	—
Brickmasons and stonemasons	480	6	—	—	379	—	23	13	—	14	25	—
Carpenters	2 221	—	15	808	247	73	42	15	5	5	—	—
Croftmen, derrickmen, and hoistmen	896	8	5	697	149	4	149	149	65	65	26	—
Electricians	1 864	—	33	376	854	4	193	37	43	50	88	44
Excavating, grading, and road machine operators	6 913	22	16	337	4 593	98	697	173	171	455	481	198
Foremen, n.e.c.	8 544	18	10	353	2 822	16	419	82	88	216	268	131
Mechanics and repairmen	3 374	3	—	16	1 539	—	24	—	16	21	16	73
Machinists, including tool and die makers	4 826	—	—	26	4 638	35	168	91	240	574	1 433	162
Metal craftsmen, except mechanics and machinists	2 465	—	—	—	1 922	—	245	283	90	174	238	68
Painters, construction and maintenance, and plasterers and paperhangers	1 011	6	—	—	118	—	14	—	4	9	22	5
Plumbers and pipe fitters	1 615	—	—	964	654	—	68	30	36	35	31	—
Printing craftsmen	1 138	—	—	5	1 045	—	36	11	5	5	31	15
Stationary engineers and power station operators	852	—	—	22	310	—	38	21	9	5	9	—
Other craftsmen and kindred workers	8 055	10	11	601	2 011	286	142	34	88	127	103	88
Operatives, except transport	43 039	31	113	851	35 063	781	3 867	1 182	1 033	3 434	3 204	2 377
Assemblers	4 744	—	—	—	4 649	129	188	31	48	695	577	517
Checkers, examiners, and inspectors; manufacturing	4 308	—	—	—	4 308	36	849	101	153	386	283	465
Filers, polishers, sanders, and buffers	940	—	6	—	896	53	258	—	39	199	68	10
Painters, manufactured articles	597	—	—	—	556	29	16	4	11	106	44	6
Precision machine operatives	2 622	—	—	—	2 568	12	113	127	113	182	774	130
Welders and flamecutters	2 587	—	9	337	1 964	41	37	24	24	400	270	52
Other specified operatives	16 077	22	98	449	9 986	289	1 061	376	303	306	464	313
Machine operatives, miscellaneous specified	3 289	—	—	11	4 166	4	166	167	218	297	239	255
Machine operatives, not specified	1 760	—	—	5	1 760	36	195	152	75	189	274	87
Miscellaneous operatives	1 668	9	—	15	1 331	49	223	54	30	122	94	45
Not specified operatives	—	—	—	23	1 470	31	586	59	19	130	45	—

Table 180. Occupation of Employed Persons by Industry Group and Sex: 1970 - Continued

(Data based on sample, see text. For meaning of symbols, see text.)

The State  
Standard Metropolitan Statistical Areas  
of 250,000 or More

TOLEDO, OHIO-MICH., SMSA - Continued

Total employed - Continued

	Persons 16 years old and over	Agriculture, forestry, and fisheries	Mining	Construc- tion	Manufacturing						Total
					Furniture, lumber, and wood products	Stone, clay, and glass products	Primary ferrous industries	Primary nonferrous industries	Fabricated metal industries, including non- specified metal	Machinery, except electrical	
Transport equipment operatives.....	11 302	70	30	415	39	506	105	113	273	101	32
Deliverymen and routemen.....	2 170	4	-	18	5	31	9	5	39	5	7
Truck drivers.....	4 910	54	30	339	21	268	11	23	279	52	14
Other transport equipment operatives.....	4 222	12	-	58	13	207	85	85	135	44	11
<b>Laborers, except farm</b> .....	12 643	458	61	1 643	137	595	278	75	383	175	162
Freight, stock, and material handlers.....	6 269	11	35	46	53	384	63	30	251	99	87
Other specified laborers.....	4 117	418	10	1 597	28	45	18	14	52	19	27
Miscellaneous laborers.....	637	19	5	-	5	5	118	5	23	71	4
Not specified laborers.....	1 620	10	11	-	51	161	79	26	57	46	44
<b>Farm workers</b> .....	3 198	3 198	-	-	-	-	-	-	-	-	-
<b>Service workers, including private household</b> .....	34 487	26	41	99	56	274	100	43	163	178	59
Cleaning service workers.....	7 129	6	20	47	36	178	56	37	108	142	45
Personal service workers.....	3 870	-	-	-	21	4	-	-	-	-	-
Guards and watchmen.....	1 069	15	5	7	20	64	34	-	29	18	-
Other service workers, including private household.....	22 419	5	16	45	-	28	10	6	26	18	14
<b>Female employed</b> .....	96 186	629	39	877	521	2 344	157	293	1 340	1 745	1 754
<b>Professionals, technical, and kindred workers</b> .....	14 839	26	-	22	14	136	5	5	29	43	34
Accountants.....	459	6	-	-	4	22	-	-	8	9	7
Computer specialists.....	74	-	-	-	-	9	-	-	6	5	-
Life and physical scientists.....	32	-	-	-	-	4	-	-	-	-	-
Registered nurses, dietitians, and therapists.....	3 316	10	-	4	-	16	5	5	-	-	-
Social scientists.....	31	-	-	-	-	4	-	-	-	-	-
Writers, artists, and entertainers.....	729	-	-	14	4	26	-	-	4	7	5
Other professional, technical, and kindred workers.....	10 196	10	-	4	6	53	-	-	11	22	22
<b>Managers and administrators, except farm</b> .....	3 196	8	-	37	15	43	-	-	30	25	-
Salaries.....	2 679	8	-	28	15	35	-	-	30	25	-
Self-employed.....	517	-	-	9	-	8	-	-	-	-	-
<b>Sales workers</b> .....	7 965	5	-	74	-	-	-	-	8	5	4
<b>Clerical and kindred workers</b> .....	33 189	44	34	580	192	1 375	87	145	466	845	427
Bookkeepers.....	3 964	12	16	150	28	95	-	12	47	125	35
Cashiers.....	2 889	-	-	-	-	4	-	-	-	6	9
Counter clerks, except food.....	594	-	-	-	-	4	-	-	-	10	6
File clerks.....	813	-	-	-	-	14	6	9	15	42	27
Life machine operators.....	1 296	7	-	5	4	79	6	10	31	84	32
Bookkeeping and billing machine operators.....	252	-	-	-	-	4	-	-	11	5	-
Receptionists.....	1 074	5	-	5	-	8	-	-	20	4	10
Secretaries.....	9 025	10	14	245	80	822	39	75	189	227	147
Stenographers.....	3 339	-	-	14	-	22	3	10	6	22	10
Typists.....	3 144	-	-	61	23	118	6	10	42	130	75
Other clerical and kindred workers.....	10 051	10	4	62	52	209	33	29	96	195	76
<b>Craftsman and kindred workers</b> .....	1 588	6	-	120	27	39	29	42	29	84	57
Foremen, n.e.c.....	291	-	-	-	-	14	-	4	9	26	17
<b>Operatives, except transport</b> .....	10 606	-	5	5	215	678	32	91	725	733	1 195
Assemblers.....	1 795	-	-	-	26	94	16	16	85	367	303
Checkers, examiners, and inspectors; manufacturing.....	1 281	-	-	-	11	266	8	41	105	113	303
Packers and wrappers, except meat and produce.....	1 059	-	-	-	11	80	-	-	59	25	99
Other operatives, except transport.....	6 471	-	5	5	165	238	24	34	476	292	426
<b>Transport equipment operatives</b> .....	935	-	-	10	-	16	-	-	-	-	-
<b>Laborers, except farm</b> .....	982	40	-	13	33	35	4	10	30	10	18
<b>Farm workers</b> .....	500	500	-	-	-	-	-	-	-	-	-
<b>Service workers, including private household</b> .....	22 396	-	-	16	25	28	-	-	23	-	19
Personal service workers.....	2 528	-	-	16	9	9	-	-	11	-	5
Other service workers, including private household.....	17 184	-	-	-	19	19	-	-	12	-	14



Table 180. Occupation of Employed Persons by Industry Group and Sex: 1970 - Continued

[Data based on sample, see text. For meaning of symbols, see text]

	Manufacturing - Continued												
	Durable goods - Continued					Nondurable goods							
	Motor vehicles and motor vehicle equipment	Aircraft and parts	Other transportation equipment	Ordnance	Other durable goods	Food and kindred products	Textile mill products	Apparel and other fabricated textile products	Paper and allied products	Printing, publishing, and allied industries	Chemicals and allied products	Rubber and miscellaneous plastic products	Other nondurable goods, incl. not specified manufacturing
<b>Total employed</b>	20 818	815	658	100	5 349	3 609	772	628	3 056	2 849	2 458	2 268	3 714
Professional, technical, and kindred workers	1 296	69	4	-	384	87	65	17	155	351	312	213	867
Accountants	224	10	-	-	26	17	4	6	38	7	53	36	26
Architects	-	-	-	-	-	-	-	-	-	-	-	-	6
Computer specialists	84	-	-	-	21	-	-	-	-	-	-	-	109
Engineers	446	20	-	-	61	44	6	-	47	6	76	81	109
Chemical	18	-	-	-	-	-	-	-	-	-	-	-	10
Civil	6	-	-	-	-	-	-	-	-	-	-	-	10
Electrical and electronic	23	-	-	-	12	-	-	-	9	-	13	-	16
Industrial	149	9	-	-	5	28	6	-	11	6	11	26	16
Mechanical	192	5	-	-	3	-	-	-	10	6	-	-	6
Other engineers	58	5	-	-	39	16	-	-	23	-	6	22	45
Mathematical specialists	4	-	-	-	-	-	-	-	-	-	-	5	-
Life and physical scientists	23	-	-	-	-	5	-	-	4	5	57	6	70
Chemists	23	-	-	-	-	5	5	-	4	5	57	6	70
Personnel and labor relations workers	80	-	-	-	19	5	5	-	22	4	4	15	21
Social scientists	20	-	-	-	-	-	-	-	11	-	-	-	5
Engineering and science technicians	230	29	-	-	39	12	40	5	11	-	80	41	118
Electric and electronic engineering technicians	99	-	-	-	24	-	4	5	11	-	4	5	5
Industrial and mechanical engineering technicians	5	15	-	-	4	-	-	-	5	-	5	7	10
Mechanical and electrical engineering technicians	58	5	-	-	6	-	-	-	13	-	6	9	10
Technicians, except health, and engineering and science	11	5	-	-	43	-	-	6	5	-	5	7	10
Writers, artists, and entertainers	40	-	-	-	169	-	10	-	4	322	6	9	8
Other professional, technical, and kindred workers	114	5	-	-	-	4	-	-	4	7	25	20	50
<b>Managers and administrators, except farm</b>	527	38	34	7	282	200	23	25	94	238	176	123	137
Buyers, purchasing agents, and sales managers	126	4	12	-	41	35	13	9	18	79	49	24	17
Other managers and administrators	401	34	22	7	241	165	10	16	76	159	127	99	120
Soldiers	-	-	-	-	31	139	70	18	76	132	118	95	120
Self-employed	-	-	-	-	-	26	-	5	-	27	9	4	-
<b>Sales workers</b>	162	-	-	6	86	165	21	25	117	473	237	46	175
<b>Clerical and kindred workers</b>	2 193	100	41	30	723	370	108	18	375	531	295	268	448
Bookkeepers	154	5	-	-	41	73	-	-	59	69	43	28	49
Cashiers	6	5	-	-	4	3	-	-	-	5	-	8	-
Estimators and investigators, n.e.c.	31	-	-	-	-	-	-	-	29	-	4	-	-
Office machine operators	150	14	-	-	19	36	11	6	13	17	-	6	35
Shipping and receiving clerks	181	5	-	7	17	16	8	-	13	5	57	17	25
Stock clerks and stockkeepers	226	5	11	7	16	17	10	-	26	21	21	27	29
Other clerical and kindred workers	1 445	66	30	16	563	187	78	45	201	430	170	184	310
<b>Craftsmen and kindred workers</b>	4 828	185	324	5	921	595	116	39	542	918	379	330	856
Blacksmiths, farriers, hammermen, and boilermakers	23	-	23	-	8	-	-	-	4	-	-	4	36
Brickmasons and stonemasons	5	-	-	-	-	-	-	-	-	-	6	-	-
Carpenters	21	-	43	-	4	8	-	-	5	-	6	-	38
Cranemen, derrickmen, and hoistmen	63	-	49	-	-	29	14	-	19	-	6	10	25
Electricians	229	9	49	-	-	29	14	-	19	-	6	10	25
Explosives, grading, and road machine operators	-	-	21	-	-	106	32	-	129	111	16	-	199
Farmers, n.e.c.	1 087	41	21	-	77	196	32	34	129	111	16	-	199
Foremen, n.e.c.	939	48	26	-	84	124	13	-	87	4	209	184	135
Mechanics and repairmen	403	6	6	-	15	39	10	-	76	4	54	54	10
Automobile including body	-	-	-	-	-	10	-	-	5	-	11	48	59
Machinists, job setters, and toolmakers	1 560	79	31	5	52	10	4	-	65	11	11	48	59
Metal craftsmen, except mechanics and machinists	527	8	37	-	93	28	48	-	49	6	20	4	4
Painters, construction and maintenance, and plasterers and paperhangers	22	-	20	-	-	5	-	-	7	-	5	-	5
Plumbers and pipe fitters	159	-	16	-	14	15	5	-	14	776	5	12	70
Printing craftsmen	11	-	-	-	14	15	5	-	99	29	5	5	89
Stationary engineers and power station operators	76	-	5	-	589	153	-	-	33	5	19	9	181
Other craftsmen and kindred workers	106	-	48	-	-	-	-	-	33	5	19	9	181
<b>Operatives, except transport</b>	9 597	386	195	37	2 397	1 196	379	377	1 413	199	730	1 093	1 276
Assemblers	2 159	44	26	6	263	4	69	18	44	6	12	132	11
Checkers, examiners, and inspectors, manufacturing	1 271	88	66	6	46	70	5	11	161	-	44	118	771
Filters, polishers, sanders, and buffers	203	37	-	-	19	-	-	-	-	-	-	10	-
Painters, manufactured articles	214	11	5	-	23	9	7	13	12	-	6	25	27
Precision machine operatives	1 027	86	-	5	32	2	-	-	16	-	3	25	10
Welders and fluxcutters	796	27	85	-	29	626	298	284	16	-	22	7	47
Other specified operatives	1 346	12	25	3	1 730	315	284	284	395	58	247	234	616
Machine operatives, miscellaneous specified	691	23	30	3	1 116	47	47	11	512	47	228	338	253
Machine operatives, not specified	1 483	31	5	10	48	84	98	6	98	41	53	107	54
Miscellaneous operatives	115	23	14	9	115	103	23	23	133	47	59	75	48
Not specified operatives	202	24	5	9	61	53	-	11	36	-	56	36	39

Table 180. Occupation of Employed Persons by Industry Group and Sex: 1970—Continued

[Data based on sample, see text. For meaning of symbols, see text.]

The State Standard Metropolitan Statistical Areas of 250,000 or More

TOLEDO, OHIO-MICH., SMSA—Continued

Total employed—Continued

Occupation	Durable goods—Continued				Nondurable goods								
	Motor vehicles and motor vehicle equipment	Aircraft and parts	Other transportation equipment	Ordnance	Other durable goods	Food and kindred products	Textile mill products	Apparel and other fabricated textile products	Paper and allied products	Printing, publishing, and allied industries	Chemicals and allied products	Rubber and miscellaneous plastic products	Other nondurable goods, incl. non-specified manufacturing
Transport equipment operatives	688	—	8	5	160	591	23	—	142	40	110	55	117
Deliverymen and routemen	23	—	—	—	6	386	—	—	33	29	10	16	14
Truck drivers	187	—	8	5	23	108	—	—	40	4	61	33	53
Other transport equipment operatives	478	—	—	—	131	154	19	—	69	7	39	—	50
Labors, except farm	986	23	12	—	212	269	15	57	146	43	134	103	223
Freight, stock, and material handlers	11	—	—	—	34	175	15	37	108	19	64	46	72
Other specified laborers	112	7	3	—	140	24	—	—	11	15	18	10	72
Miscellaneous laborers	25	—	—	—	—	17	—	6	6	—	5	—	—
Not specified laborers	163	5	9	—	38	53	—	14	21	9	47	42	79
Farm workers	—	—	—	—	—	—	—	—	—	—	—	—	—
Service workers, including private household	631	14	40	10	184	136	22	11	72	56	85	37	115
Cleaning service workers	445	8	34	—	77	108	11	5	47	49	68	20	34
Personal service workers	12	—	—	—	—	5	—	—	—	—	—	—	5
Guards and watchmen	129	6	—	—	7	23	11	6	17	—	—	9	37
Other service workers, including private household	45	—	6	10	100	—	—	—	8	7	17	8	39
Female employed	2 478	133	78	36	1 503	943	102	457	753	750	350	956	764
Professional, technical, and kindred workers	85	5	—	—	72	9	15	6	32	77	36	17	32
Accountants	23	—	—	—	10	4	—	—	22	—	20	5	5
Computer specialists	—	—	—	—	4	—	—	—	—	—	—	—	—
Life and physical scientists	—	—	—	—	—	—	—	—	—	—	—	—	—
Registered nurses, dietitians, and therapists	29	—	—	—	4	—	4	—	—	—	8	7	4
Social scientists	—	—	—	—	—	—	—	—	—	—	—	—	—
Writers, artists, and entertainers	5	—	—	—	15	—	—	—	4	70	—	—	4
Other professional, technical, and kindred workers	23	5	—	—	39	5	11	—	6	7	8	5	19
Managers and administrators, except farm	19	—	—	—	22	10	—	—	—	17	5	10	—
Salaried	19	—	—	—	22	10	—	—	—	14	5	10	—
Self-employed	—	—	—	—	—	—	—	—	—	3	—	—	—
Sales workers	16	—	—	6	6	25	—	5	6	76	—	—	20
Clerical and kindred workers	1 074	71	24	30	451	263	51	58	208	377	174	200	255
Bookkeepers	84	5	—	—	37	68	—	18	40	55	30	26	25
Cashiers	10	—	—	—	4	5	4	—	—	10	5	—	—
Counter clerks, except food	42	4	—	5	20	—	—	5	—	16	—	—	—
File clerks	83	7	—	—	19	31	6	6	9	12	—	6	14
Office machine operators	25	—	—	—	—	—	—	—	—	—	—	—	—
Bookkeeping and billing machine operators	14	—	—	—	—	—	—	—	—	—	—	—	—
Receptionists	483	16	19	6	104	69	10	11	53	75	73	83	91
Secretaries	11	5	—	—	4	18	4	5	41	10	36	13	12
Stenographers	131	13	—	—	29	72	13	13	59	52	30	67	113
Typists	216	16	5	14	230	—	—	—	—	131	30	—	—
Other clerical and kindred workers	98	—	11	—	43	53	—	17	21	90	4	35	30
Foremen, n.e.c.	25	—	—	—	4	7	—	17	9	5	4	19	—
Operatives, except transport	1 067	57	33	—	825	535	36	339	455	77	120	645	408
Assemblers	470	9	5	—	196	—	—	18	29	6	12	110	7
Checkers, examiners, and inspectors; manufacturing	107	9	—	—	24	34	—	11	125	—	16	54	52
Packers and wrappers, except meat and produce	55	—	—	—	39	258	—	10	24	—	22	82	52
Other operatives, except transport	435	43	28	—	566	243	36	300	277	71	70	399	297
Transport equipment operatives	10	—	—	—	—	6	—	—	8	10	—	2	—
Labors, except farm	48	—	5	—	35	29	—	27	16	4	5	27	7
Farm workers	—	—	—	—	—	—	—	—	—	—	—	—	—
Service workers, including private household	61	—	5	—	49	13	—	5	7	22	6	12	12
Cleaning service workers	37	—	5	—	14	9	—	5	3	15	9	8	5
Personal service workers	—	—	—	—	—	—	—	—	—	—	—	—	—
Other service workers, including private household	24	—	—	—	35	4	—	—	4	7	—	4	7



Table 180. Occupation of Employed Persons by Industry Group and Sex: 1970—Continued

[Data based on sample, see text. For meaning of symbols, see text.]

The State  
Standard Metropolitan Statistical Areas  
of 250,000 or More

TOLEDO, OHIO—MICH., SMSA—Continued

Total employed—Continued

	Railroads and railway express service	Trucking service and warehousing	Other transportation	Communications	Utilities and sanitary services	Wholesale trade	Retail trade				Insurance	Finance and real estate
							General merchandise retailing	Food stores	Automotive dealers and gasoline stations	Eating and drinking places		
Transport equipment operatives	992	2 695	954	9	341	1 059	119	156	84	135	449	26
Deliverymen and route men	5	223	12	16	16	462	113	77	36	124	293	22
Truck drivers	33	2 429	13	9	134	442	6	63	48	11	118	4
Other transport equipment operatives	954	43	929	—	191	155	—	16	—	—	38	—
Laborers, except farm	255	595	202	15	551	870	301	1 457	152	32	638	177
Freight, stock, and material handlers	51	510	124	—	287	631	283	1 409	30	—	343	27
Other specified laborers	8	31	36	5	171	62	5	33	107	5	236	102
Miscellaneous laborers	169	44	16	—	71	44	—	—	—	—	7	13
Not specified laborers	27	50	26	10	22	133	13	15	15	27	50	33
Farm workers	—	—	—	—	—	—	—	—	—	—	—	—
Service workers, including private household	115	53	168	39	159	185	379	176	40	7 625	868	501
Cleaning service workers	51	40	28	27	118	100	74	46	40	264	159	365
Personal service workers	6	—	38	4	—	17	44	—	—	43	35	16
Guards and watchmen	26	13	36	5	27	21	—	8	—	6	—	12
Other service workers, including private household	32	—	66	—	14	47	235	118	—	7 312	670	105
Female employed	188	510	748	1 323	621	2 431	6 160	2 813	573	6 503	6 065	3 574
Professionals, technical, and kindred workers	6	12	9	38	44	39	106	4	10	59	169	55
Accountants	6	5	3	5	17	25	13	4	4	10	17	13
Computer specialists	—	—	—	—	—	4	8	—	—	—	—	4
Life and physical scientists	—	—	—	—	—	—	—	—	—	—	—	—
Registered nurses, dietitians, and therapists	—	—	—	—	—	—	—	—	—	—	—	—
Social scientists	—	—	—	—	9	—	—	—	—	—	—	—
Writers, artists, and entertainers	—	—	—	5	—	—	33	—	6	45	43	9
Other professional, technical, and kindred workers	—	8	6	28	18	10	52	—	—	4	49	7
Managers and administrators, except farm	9	23	30	46	25	110	394	130	55	373	463	178
Salaried	9	23	30	46	25	99	376	105	40	218	298	155
Self-employed	—	—	—	—	—	11	18	25	15	155	105	23
Subs workers	—	—	6	4	5	147	3 492	624	35	57	2 491	369
Clerical and kindred workers	128	399	135	1 187	459	1 700	1 638	1 484	365	394	1 950	2 679
Bookkeepers	8	68	18	39	48	406	193	203	171	84	406	361
Cashiers	—	14	5	8	20	23	582	1 095	29	215	484	77
Counter clerks, except food	5	—	—	25	18	44	83	22	—	11	10	—
File clerks	15	—	—	22	18	36	33	22	16	19	34	72
Office machine operators	10	14	—	10	6	94	62	36	—	6	28	33
Bookkeeping and billing machine operators	—	—	—	—	—	10	—	5	—	—	14	—
Receptionists	—	83	5	9	13	39	19	—	10	6	61	126
Secretaries	21	—	46	36	87	451	74	56	69	36	252	41
Stenographers	15	51	9	44	40	176	46	—	26	99	201	481
Typists	15	169	47	994	223	391	572	72	44	32	585	216
Other clerical and kindred workers	47	—	—	—	—	—	—	—	—	—	—	1 203
Foremen, n.e.c.	17	—	—	18	26	73	68	42	30	10	237	—
Craftsmen and kindred workers	—	—	—	6	37	39	—	—	—	—	4	—
Operatives, except transport	—	4	6	3	—	219	83	275	53	15	234	21
Assemblers	—	—	—	—	—	16	—	—	7	—	9	—
Checkers, examiners, and inspectors; manufacturing	—	—	—	—	—	—	—	—	—	—	—	—
Packers and wrappers, except meat and produce	—	4	—	—	—	90	49	16	—	10	27	—
Other operatives, except transport	—	—	6	3	—	113	34	259	46	5	198	21
Transport equipment operatives	21	49	540	—	51	20	39	—	9	26	6	—
Laborers, except farm	—	9	15	—	3	80	64	171	5	—	82	14
Farm workers	—	—	—	—	—	—	—	—	—	—	—	—
Service workers, including private household	7	13	7	27	8	43	276	83	11	5 569	553	258
Cleaning service workers	—	13	7	20	—	8	15	—	—	—	51	179
Personal service workers	—	—	—	—	—	6	—	—	—	—	21	4
Other service workers, including private household	7	—	—	7	8	29	217	83	—	5 485	481	75

Table 180. Occupation of Employed Persons by Industry Group and Sex: 1970—Continued

[Data based on sample, see text. For meaning of symbols, see text.]

The State Standard Metropolitan Statistical Areas of 250,000 or More		TOLEDO, OHIO—MICH., SMSA											
Total employed		Business services	Repair services	Hotels and lodging places	Other personal services, including private household	Entertainment and recreation services	Hospitals	Health services, except hospitals	Educational services, government	Educational services, private	Welfare, religious, and nonprofit membership organizations	Other professional and related services	Public administration
Accountants	3 426	3 255	1 814	8 491	2 057	10 481	4 993	16 647	5 080	4 060	5 838	8 271	
Architects	574	77	53	246	421	3 658	1 903	9 479	2 914	1 473	3 086	995	
Computer specialists	76	—	14	—	7	10	—	4	—	6	538	187	
Engineers	38	—	—	—	5	5	—	4	—	—	41	9	
Chemical	55	8	—	—	6	18	39	9	4	5	25	15	
Civil	18	—	—	—	—	—	—	—	—	—	401	90	
Electrical and electronic	8	—	—	—	—	—	—	—	—	—	175	—	
Industrial	—	—	—	—	—	—	—	—	—	—	49	5	
Mechanical	4	—	—	—	6	8	—	—	—	—	23	19	
Other engineers	15	8	—	—	—	10	39	9	—	5	62	6	
Mathematical specialists	—	—	—	—	—	—	—	—	—	—	88	25	
Life and physical scientists	10	5	—	—	—	—	—	4	—	5	—	9	
Chemists	10	—	—	—	—	35	—	22	—	—	6	7	
Personnel and labor relations workers	121	6	—	5	10	16	6	31	5	4	—	89	
Social scientists	34	—	—	—	—	9	—	56	21	—	10	27	
Engineering and science technicians	69	14	—	4	—	13	5	48	21	—	382	121	
Draftsmen	14	—	—	4	—	—	—	4	6	—	310	46	
Electrical and electronic engineering technicians	4	9	—	—	—	6	—	4	—	—	—	15	
Industrial and mechanical engineering technicians	—	—	—	—	—	—	—	—	—	—	—	—	
Technicians, except health, and engineering and science	9	—	—	—	—	—	—	16	—	—	—	99	
Writers, artists, and entertainers	109	12	21	10	247	—	—	99	14	161	176	42	
Other professional, technical, and kindred workers	53	32	18	77	146	3 552	1 846	9 173	2 849	1 292	1 503	300	
Managers and administrators, except farm	304	245	191	499	259	208	143	657	244	390	194	915	
Buyers, purchasing agents, and sales managers	37	—	6	13	—	28	—	18	5	9	—	25	
Other managers and administrators	267	245	185	416	259	180	143	635	239	381	176	890	
Salaried	181	160	121	266	180	180	121	635	219	381	151	890	
Self-employed	48	85	66	150	78	—	22	—	20	—	25	—	
Sales workers	369	98	6	103	33	7	5	41	5	43	57	19	
Clerical and kindred workers	1 175	398	229	592	257	1 763	869	2 946	853	1 180	1 536	3 423	
Bookkeepers	94	107	25	97	47	89	85	116	25	116	234	127	
Cashiers	—	7	29	19	99	65	109	111	34	30	—	73	
Estimators and investigators, n.e.c.	80	16	—	—	5	11	5	—	—	—	—	68	
Office machine operators	75	12	—	—	—	78	—	71	12	9	12	—	
Shipping and receiving clerks	—	—	—	—	—	—	—	14	—	—	—	—	
Stock clerks and storekeepers	11	—	—	6	—	36	2	68	5	—	—	—	
Other clerical and kindred workers	915	261	175	470	98	1 456	763	2 573	777	1 014	1 290	3 142	
Craftsmen and kindred workers	214	1 722	32	280	122	210	319	410	57	115	55	339	
Blacksmiths, farrier, hammermen, and boilermakers	—	15	—	—	—	12	4	4	—	—	—	—	
Brickmasons and stonemasons	—	—	—	—	—	—	—	—	—	—	—	—	
Carpenters	10	—	—	—	—	42	—	24	4	—	9	6	
Cranemen, derrickmen, and hoistmen	—	18	—	—	7	20	—	25	—	—	—	17	
Electricians	—	—	—	—	—	—	—	—	—	—	—	—	
Excavating, grading, and road machine operators	—	—	—	—	—	—	—	—	—	—	—	—	
Farmen, n.e.c.	25	32	11	44	—	22	5	56	6	4	4	69	
Mechanics and repairmen	73	341	—	28	55	15	4	90	15	20	6	152	
Automobile, including body	9	779	—	7	—	—	—	36	10	—	—	87	
Machinists, job setters, and toolmakers	15	23	—	17	—	—	—	4	—	—	9	13	
Metal craftsmen, except mechanics and machinists	11	—	—	—	—	—	—	—	—	—	—	—	
Painters, construction and maintenance, and plasterers and paperhangers	20	9	12	13	11	18	—	58	5	10	—	11	
Plumbers and pipe fitters	—	—	—	—	—	9	—	17	—	22	—	—	
Printing craftsmen	6	—	9	9	5	46	—	50	27	8	—	16	
Stationary engineers and power station operators	54	284	—	169	44	17	106	70	—	32	21	37	
Other craftsmen and kindred workers	—	—	—	—	—	—	—	—	—	—	—	—	
Operatives, except transport	124	294	20	1 106	20	229	46	150	47	62	104	115	
Assemblers	—	3	—	—	—	—	4	—	—	—	15	—	
Checkers, examiners, and inspectors, manufacturing	—	7	—	—	—	—	—	—	—	—	—	—	
Fillers, polishers, sanders, and buffers	—	—	—	—	—	—	—	—	—	—	—	—	
Painters, manufactured articles	—	14	—	5	—	—	—	—	—	—	—	—	
Precision machine operatives	—	6	—	—	—	—	—	5	—	—	—	—	
Welders and flamecutters	—	101	—	7	—	—	—	—	—	—	—	—	
Other specified operatives	85	110	20	1 078	6	219	32	108	42	49	4	16	
Machine operatives, miscellaneous specified	12	10	—	5	—	10	—	6	—	—	50	87	
Machine operatives, not specified	—	—	—	—	—	—	—	—	—	—	10	—	
Miscellaneous operatives	20	21	—	6	—	—	—	—	—	—	5	—	
Not specified operatives	—	—	—	—	—	—	—	—	—	—	—	—	

Table 180. Occupation of Employed Persons by Industry Group and Sex: 1970—Continued

[Data based on sample, see text. For meaning of symbols, see text.]

The State  
Standard Metropolitan Statistical Areas  
of 250,000 or More

TOLEDO, OHIO—MICH., SMSA—Continued

Total employed—Continued

Occupation	Business services	Repair services	Hotels and lodging places	Other personal services, including private household	Entertainment and recreation services	Hospitals	Health services, except hospitals	Educational services, government	Educational services, private	Welfare, religious, and nonprofit organizations	Other professional and related services	Public administration
Transport equipment operatives	60	100	5	191	27	16	15	59	14	20	25	128
Deliverymen and routemen	22	5	—	95	12	—	10	15	10	5	5	12
Truck drivers	29	38	—	26	—	5	5	15	—	14	10	95
Other transport equipment operatives	9	57	5	70	15	11	—	34	4	6	10	21
Laborers, except farm	54	201	27	161	167	60	18	46	55	73	35	271
Freight, stock, and material handlers	16	—	—	52	11	28	13	11	4	19	4	106
Other specified laborers	12	158	11	96	126	25	5	63	28	14	24	110
Miscellaneous laborers	—	22	—	4	4	—	—	—	—	—	—	11
Miscellaneous laborers	26	21	16	9	37	7	—	8	23	40	7	38
Not specified laborers	—	—	—	—	—	—	—	—	—	—	—	—
Farm workers	—	—	—	—	—	—	—	—	—	—	—	—
Service workers, including private household	752	120	1 251	5 383	751	4 330	1 875	2 019	891	704	746	2 066
Cleaning service workers	473	37	598	109	128	572	171	1 332	352	365	26	274
Personal service workers	7	—	168	2 364	245	83	34	388	144	149	95	31
Guards and watchmen	—	5	—	17	—	—	10	—	—	—	—	—
Other service workers, including private household	219	56	485	2 910	361	3 634	1 680	1 268	386	168	691	1 717
Other service workers, including private household	53	—	—	—	—	—	—	—	—	—	—	—
Female employed	1 542	498	1 327	6 409	879	8 759	3 757	10 355	3 643	2 148	2 805	2 386
Professional, technical, and kindred workers	137	16	24	156	173	3 085	941	5 513	2 068	530	678	299
Accountants	35	—	—	—	—	4	—	3	—	—	—	10
Computer specialists	12	—	—	—	—	—	—	—	—	—	—	—
Life and physical scientists	—	—	—	—	—	14	—	—	—	—	—	—
Registered nurses, dietitians, and therapists	11	—	—	36	—	—	681	75	26	29	6	23
Social scientists	7	—	—	—	2 339	—	—	10	—	—	—	—
Writers, artists, and entertainers	19	6	17	79	80	—	—	42	9	104	59	9
Other professional, technical, and kindred workers	73	10	7	41	93	728	260	5 373	2 029	391	547	206
Managers and administrators, except farm	38	29	115	118	64	124	73	167	145	65	53	116
Salaried	29	13	80	52	52	124	65	167	130	65	37	116
Self-employed	9	16	35	34	12	—	8	—	15	—	16	—
Sales workers	54	33	6	76	21	7	—	21	5	29	37	5
Clerical and kindred workers	936	310	175	571	155	1 639	850	2 655	785	1 067	1 450	1 554
Bookkeepers	61	103	25	79	34	78	65	98	25	75	190	65
Cashiers	4	18	18	19	52	65	10	99	34	26	—	5
Counter clerks, except food	9	14	58	218	—	—	—	23	5	—	—	—
File clerks	43	4	—	—	—	51	37	89	43	16	39	38
Office machine operators	53	6	—	—	—	78	4	66	12	—	12	52
Bookkeeping and billing machine operators	40	—	—	84	—	24	—	—	—	—	—	5
Receptionists	271	35	16	32	20	188	246	78	39	37	20	18
Secretaries	5	—	—	4	—	489	245	993	271	580	604	336
Stenographers	158	22	6	37	12	5	11	22	—	4	17	44
Typists	296	122	52	98	37	196	88	290	58	213	176	196
Other clerical and kindred workers	—	—	—	—	—	489	124	897	298	87	444	800
Craftsmen and kindred workers	9	26	11	41	17	26	33	66	—	20	—	—
Foremen, n.e.c.	—	—	5	—	—	6	5	14	—	15	—	—
Operatives, except transport	47	28	14	946	—	170	36	32	18	48	55	23
Assemblers	—	—	—	—	—	—	—	—	—	—	10	—
Checkers, examiners, and inspectors; manufacturing	—	—	—	—	—	—	—	—	—	—	—	—
Packers and wrappers, except meat and produce	5	—	—	14	—	—	—	—	—	—	—	—
Other operatives, except transport	42	28	14	932	—	170	25	32	—	42	36	6
Transport equipment operatives	24	5	—	6	17	—	15	29	—	—	5	11
Laborers, except farm	5	5	—	56	22	22	—	—	—	8	6	11
Farm workers	—	—	—	—	—	—	—	—	—	—	—	—
Service workers, including private household	272	46	982	4 439	427	3 686	1 809	1 872	614	381	521	167
Cleaning service workers	239	6	488	389	34	389	110	488	125	31	31	31
Personal service workers	297	11	102	1 606	89	67	34	369	144	179	4	13
Other service workers, including private household	26	29	392	2 769	304	3 230	1 656	1 734	345	138	517	123

Table 181. Occupation of Employed Negroes by Major Industry: 1970

(Data based on sample, see text. For meaning of symbols, see text)

	Negroes 16 years old and over	Agriculture, forestry, and fisheries	Mining	Construction	Manufacturing		Transportation, communications, and other public utilities	Wholesale trade	Retail trade	Finance, insurance, and real estate	Business and repair services	Personal services	Entertainment and recreation services	Professional and related services	Public administration
					Durable goods	Nondurable goods, including not specified manufacturing									
<b>Total employed</b>	325 501	1 689	268	10 250	13 688	14 796	7 645	32 861	8 918	7 751	24 363	1 607	63 963	18 666	
Professional, technical, and kindred workers	25 151	24	26	142	373	498	169	444	241	387	149	291	18 609	1 913	
Accountants	1 070	5	22	60	206	43	30	35	113	62	14	6	177	363	
Engineers	722	5	22	60	359	90	9	5	—	7	—	—	127	18	
Life and physical scientists	252	—	—	—	43	48	6	155	—	7	36	—	5 099	86	
Health workers	5 454	—	—	—	39	20	6	—	4	7	—	—	209	79	
Social scientists	214	—	—	—	54	18	—	—	—	—	—	—	80	49	
Engineering and science technicians	1 020	—	—	45	454	110	14	5	—	32	14	—	13	65	
Technicians, except health, and engineering and science	1 671	3	—	3	5	34	—	154	13	50	44	187	229	74	
Writers, artists, and entertainers	1 095	3	—	9	82	82	60	154	111	213	41	96	12 614	1 086	
Other professional, technical, and kindred workers	15 163	16	4	16	643	144	50	90	—	—	—	—	—	—	
Managers and administrators, except farm	7 527	5	—	423	338	239	204	2 086	800	270	356	83	1 680	909	
Buyers, purchasing agents, and sales managers	8 728	—	—	8	34	4	55	429	37	4	11	11	48	37	
Other managers and administrators	6 799	5	—	415	304	235	149	1 657	763	266	345	83	1 632	872	
Salaries	5 444	—	—	255	284	207	92	1 995	735	141	170	45	1 588	872	
Self-employed	1 355	5	—	160	20	28	57	662	28	125	175	38	1 44	—	
Sales workers	8 865	4	—	36	139	105	457	6 194	1 205	66	81	24	90	19	
Clerical and kindred workers	50 169	58	65	436	5 556	4 858	1 522	6 279	4 932	1 421	1 232	51	11 774	10 647	
Bookkeepers	2 364	—	—	30	168	107	182	490	480	80	114	—	328	263	
Cashiers and receptionists	3 891	9	—	23	80	14	59	338	81	93	138	26	817	128	
Office machine operators	3 011	8	—	8	494	186	93	262	684	234	21	—	486	453	
Secretaries, stenographers, and typists	10 108	21	11	174	905	276	257	534	1 067	301	60	8	3 946	1 985	
Administrative support workers	3 898	4	—	20	1 737	286	316	700	29	61	31	—	196	296	
Shipping and stock clerks	26 897	24	35	181	2 172	3 685	615	1 965	2 581	682	838	17	6 001	7 522	
Other clerical and kindred workers	30 959	11	37	4 530	16 832	2 017	814	1 906	1 183	1 429	360	51	731	699	
Craftsmen and kindred workers	316	5	—	5	273	25	—	—	—	4	—	—	30	17	
Blacksmiths, forgers, hammermen, and boilermakers	809	6	—	651	93	9	15	—	13	4	—	—	125	93	
Corseters	4 856	—	14	2 585	1 463	242	47	67	64	56	19	—	—	—	
Construction craftsmen, except carpenters	3 413	—	—	198	3 115	31	91	—	—	—	—	—	—	—	
Cranemen, derrickmen, and hoistmen	7 546	—	—	175	2 097	141	146	245	20	79	33	—	122	123	
Treatment, except electricians	4 248	—	13	17	3 950	570	244	911	18	24	33	28	94	346	
Mechanics and repairmen	2 891	—	4	17	2 204	237	97	715	5	769	12	12	19	134	
Mechanics, including body	2 270	—	—	—	2 775	23	18	11	—	10	7	—	4	6	
Machinists, job setters, and toolmakers	2 270	—	3	21	2 175	41	18	—	—	13	—	—	20	9	
Metal craftsmen, except mechanics and machinists	6 621	—	7	941	2 105	12	235	31	21	272	204	23	336	96	
Printing craftsmen	6 719	—	—	—	2 586	973	—	648	47	—	—	—	—	—	
Other craftsmen and kindred workers	93 018	47	85	477	73 860	487	1 583	2 550	118	601	5 200	40	1 367	237	
Operators, except transport	12 726	7	—	—	19 997	30	58	47	12	11	7	—	18	10	
Assemblers	3 969	—	—	—	491	47	—	—	—	—	—	—	—	—	
Checkers, examiners, and inspectors, manufacturing	7 218	—	—	—	3 659	36	12	5	—	27	—	—	13	—	
Precision machine operators	5 756	—	—	—	6 869	47	132	38	—	80	5	—	19	9	
Welders and flamecutters	57 756	40	80	375	39 190	398	1 383	2 460	106	486	5 188	40	1 317	218	
Other operatives, except transport	14 289	11	18	582	5 551	3 826	1 196	1 035	30	462	176	51	289	465	
Transport equipment operatives	1 485	—	—	422	1 089	154	205	256	5	31	64	—	46	31	
Deliverymen and roufemen	5 221	11	11	404	2 339	1 321	275	297	20	336	17	30	112	386	
Truck drivers	7 583	—	7	116	3 360	2 361	323	287	—	—	95	—	131	98	
Other transport equipment operatives	21 658	279	26	3 430	8 339	2 072	1 202	2 507	82	748	432	59	494	964	
Leatherers, except furs	8 233	5	11	60	3 010	1 232	730	1 703	8	50	172	9	166	611	
Freight, stock, and material handlers	1 216	—	—	—	—	—	—	—	—	—	—	—	—	—	
Farm workers	60 698	34	11	234	6 546	894	498	9 860	1 327	2 367	5 326	957	28 929	2 813	
Service workers, except private household	20 193	25	6	153	4 924	439	374	1 644	968	1 468	1 666	294	6 696	908	
Cleaning service workers	11 444	5	—	10	82	124	43	6 400	15	6	570	355	3 673	75	
Food service workers	5 136	4	—	30	163	86	10	304	61	78	2 240	166	1 749	194	
Personal service workers	1 730	—	—	35	472	69	10	153	59	495	843	11	1 334	224	
Guards and watchmen	22 195	—	—	30	905	112	61	1 359	224	320	843	131	16 677	1 412	
Other service workers, except private household workers	11 051	—	—	—	—	—	—	—	—	—	—	—	—	—	
Private household workers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

Table 182. Occupation of Employed Persons of Spanish Language by Major Industry: 1970

(Data based on sample, see text. For meaning of symbols, see text)

The State	Persons of Spanish language, 16 years old and over	Agriculture, forestry, and fisheries	Mining	Construction	Manufacturing		Transportation, communications, and other public utilities	Wholesale trade	Retail trade	Finance, insurance, and real estate	Business and repair services	Personal services	Entertainment and recreation services	Professional and related services	Public administration
					Durable goods	Nondurable goods, including not specified manufacturing									
<b>Total employed</b>	37 295	974	74	1 303	13 985	3 086	1 812	1 259	4 652	1 725	861	1 229	245	5 525	1 165
Professional, technical, and kindred workers	4 223	15	14	23	733	208	123	18	121	20	93	55	40	2 579	181
Accountants	234	—	—	—	41	32	7	5	33	15	12	—	—	93	26
Engineers	474	—	—	—	259	29	38	—	8	—	15	—	—	18	29
Life and physical scientists	35	—	—	—	8	5	—	—	—	—	—	—	—	16	—
Health workers	1 062	15	—	—	—	7	—	—	25	—	—	—	—	906	27
Social scientists	28	—	—	—	—	—	—	7	—	—	—	—	—	14	—
Engineering and science technicians	394	—	—	—	180	55	8	—	—	—	—	—	—	111	17
Technicians, except health, and engineering and science	25	—	—	—	—	—	—	—	—	—	—	—	—	4	—
Writers, artists, and entertainers	329	—	—	—	71	57	14	—	5	—	29	—	—	40	14
Other professional, technical, and kindred workers	1 642	—	—	—	174	23	34	6	23	5	33	29	37	1 274	52
<b>Managers and administrators, except farm</b>	1 507	8	—	24	180	42	110	86	535	184	42	42	18	189	97
Buyers, purchasing agents, and sales managers	1 343	—	—	—	28	4	—	25	64	22	—	—	—	—	—
Other managers and administrators	1 364	8	—	24	152	38	110	61	471	112	42	42	18	189	97
Salaried	1 073	—	—	—	18	136	110	55	268	112	35	24	12	183	—
Self-employed	291	8	—	6	16	15	—	6	203	—	7	18	6	6	—
<b>Sales workers</b>	1 557	22	—	4	66	100	14	155	891	213	54	—	11	20	7
<b>Clerical and kindred workers</b>	5 038	13	—	65	970	255	387	256	681	665	143	106	33	1 088	456
Bookkeepers	375	6	—	7	71	34	31	36	91	41	22	—	—	30	6
Cashiers and receptionists	498	—	—	8	15	21	—	24	261	14	—	9	20	114	12
Office machine operators	243	6	—	6	277	13	23	15	11	46	36	6	—	6	35
Secretaries, stenographers, and typists	1 345	7	—	27	277	76	73	62	59	240	28	6	—	402	88
Shipping and stock clerks	415	—	—	17	189	44	40	53	34	—	—	5	—	37	13
Other clerical and kindred workers	2 162	—	—	—	372	67	220	66	225	324	57	80	13	419	302
<b>Craftsmen and kindred workers</b>	5 018	39	13	644	2 619	390	366	143	280	13	287	27	8	126	63
Blacksmiths, forgers, hammermen, and boilermakers	28	—	—	4	24	8	—	—	—	—	—	—	—	—	—
Carpenters	199	—	—	119	54	8	6	—	—	6	—	—	—	—	6
Construction craftsmen, except carpenters	720	7	6	311	283	28	26	—	13	—	7	14	—	19	—
Crossmen, derrickmen, and hoistmen	180	—	—	6	160	—	6	8	—	—	—	—	—	—	—
Foremen, n.e.c.	584	5	—	54	305	71	70	19	39	—	7	—	—	6	8
Mechanics and repairmen	1 217	21	7	6	484	80	114	69	143	—	229	8	8	7	49
Automobile, including body	547	13	7	—	190	14	24	34	108	—	158	—	—	11	—
Machinists, job setters, and toolmakers	547	—	—	33	445	6	—	7	—	—	—	—	—	—	—
Metal craftsmen, except mechanics and machinists	174	—	—	—	7	153	—	—	—	7	—	—	—	7	—
Printing craftsmen	174	—	—	111	335	30	144	34	85	—	44	13	—	76	—
Other craftsmen and kindred workers	878	6	—	—	—	—	—	—	—	—	—	—	—	—	—
<b>Operators, except transport</b>	10 375	18	47	78	7 377	1 562	123	328	448	—	75	199	—	94	26
Assemblers	2 016	—	—	16	1 881	71	8	—	17	—	7	9	—	7	7
Checkers, examiners, and inspectors; manufacturing	621	—	—	—	511	110	—	—	—	—	—	—	—	—	—
Precision machine operatives	715	—	—	—	663	12	—	24	7	—	—	—	—	9	—
Welders and flamecutters	715	—	—	23	655	—	10	9	6	—	6	—	—	—	—
Other operatives, except transport	6 308	18	41	39	3 667	1 369	105	295	418	—	62	190	—	85	19
<b>Transport equipment operatives</b>	1 475	15	—	84	535	155	427	104	42	13	47	19	—	14	20
Deliverymen and couriers	209	9	—	6	16	71	33	27	28	—	6	13	—	—	—
Truck drivers	631	6	—	64	214	19	218	65	8	13	21	6	—	—	—
Other transport equipment operatives	635	—	—	14	305	65	176	12	6	—	20	6	—	14	17
<b>Laborers, except farm</b>	2 435	41	—	375	913	253	232	151	317	4	61	4	16	19	49
Freight, stock, and material handlers	873	—	—	6	208	152	115	86	284	—	6	—	—	—	16
<b>Farm workers</b>	777	777	—	—	—	—	—	—	—	—	—	—	—	—	—
<b>Service workers, except private household</b>	4 663	26	—	6	592	121	30	18	1 337	63	59	550	119	1 476	266
Cleaning service workers	1 383	8	—	—	493	99	21	18	67	50	40	98	51	410	28
Food service workers	1 610	18	—	—	8	8	9	—	1 170	—	—	114	44	232	7
Personal service workers	554	—	—	—	6	—	—	—	30	6	—	314	16	173	9
Guards and watchmen	64	—	—	6	26	—	—	—	—	—	—	—	—	—	—
Other service workers, except private household workers	1 052	—	—	—	59	14	—	—	70	7	12	24	8	658	17
<b>Private household workers</b>	227	—	—	—	—	—	—	—	—	—	—	—	—	—	205



Table 183. Detailed Industry of the Experienced Civilian Labor Force and Employed Persons, by Sex: 1970 and 1960

[Data based on sample, see text. For meaning of symbols, see text]

The State

	1970						1960			
	Experienced civilian labor force				Employed		Experienced civilian labor force		Employed	
	16 years old and over		14 years old and over		14 years old and over		14 years old and over		14 years old and over	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
<b>Total</b> .....	<b>2 203 876</b>	<b>1 238 577</b>	<b>2 231 978</b>	<b>1 251 160</b>	<b>2 115 188</b>	<b>1 175 681</b>	<b>2 031 630</b>	<b>887 657</b>	<b>1 898 034</b>	<b>828 830</b>
<b>Agriculture, forestry, and fisheries</b> .....	<b>53 034</b>	<b>8 691</b>	<b>50 703</b>	<b>7 737</b>	<b>48 470</b>	<b>7 160</b>	<b>88 726</b>	<b>9 482</b>	<b>84 674</b>	<b>8 980</b>
Agricultural production .....	41 693	5 611	43 402	5 926	42 063	5 438	81 451	8 757	77 851	8 309
Agricultural services, except horticultural .....	2 081	1 278	2 159	1 327	2 038	1 302	2 828	483	2 703	459
Horticultural services .....	3 693	334	3 765	334	3 168	294	2 813	124	2 688	118
Forestry .....	993	69	1 004	69	878	53	769	65	665	45
Fisheries .....	367	76	373	81	323	73	865	53	767	49
Agriculture, forestry, and fisheries—allocated .....	4 207	1 323	...	...	...	...	...	...	...	...
<b>Mining</b> .....	<b>13 906</b>	<b>977</b>	<b>13 346</b>	<b>968</b>	<b>12 426</b>	<b>927</b>	<b>15 978</b>	<b>337</b>	<b>15 014</b>	<b>326</b>
Metal mining .....	6 748	207	6 757	207	6 437	203	9 689	133	9 360	130
Coal mining .....	122	12	122	12	115	12	178	—	160	—
Crude petroleum and natural gas extractions .....	2 847	562	2 853	567	2 628	557	2 153	96	1 928	96
Nonmetallic mining and quarrying, except fuel .....	3 614	182	3 614	182	3 246	155	3 958	108	3 566	100
Mining—allocated .....	575	14	...	...	...	...	...	...	...	...
<b>Construction</b> .....	<b>168 269</b>	<b>10 762</b>	<b>155 878</b>	<b>10 241</b>	<b>134 706</b>	<b>9 500</b>	<b>144 873</b>	<b>6 087</b>	<b>119 895</b>	<b>5 467</b>
General building contractors .....	35 605	2 403	35 701	2 403	30 638	2 235	31 718	943	26 250	878
General contractors, except building .....	30 103	2 053	30 122	2 053	25 464	1 913	25 476	1 033	21 084	962
Special trade contractors .....	75 916	4 822	76 115	4 853	67 529	4 527	56 807	2 112	47 011	1 966
Not specified construction .....	13 902	932	13 940	932	11 075	825	30 872	1 999	25 550	1 861
Construction—allocated .....	12 743	552	...	...	...	...	...	...	...	...
<b>Manufacturing</b> .....	<b>997 549</b>	<b>249 413</b>	<b>952 505</b>	<b>233 959</b>	<b>905 640</b>	<b>207 395</b>	<b>920 127</b>	<b>193 989</b>	<b>862 456</b>	<b>173 444</b>
<b>Durable goods</b> .....	<b>844 187</b>	<b>173 231</b>	<b>797 560</b>	<b>162 594</b>	<b>756 336</b>	<b>143 914</b>	<b>748 511</b>	<b>134 983</b>	<b>698 251</b>	<b>120 304</b>
Lumber and wood products, except furniture .....	13 246	2 343	13 306	2 355	11 700	2 058	15 917	1 206	12 798	1 088
Logging .....	3 148	105	3 178	110	2 467	77	6 294	98	4 295	94
Sawmills, planing mills, and millwork .....	6 067	1 115	6 072	1 115	5 439	938	385	385	5 334	368
Miscellaneous wood products .....	4 031	1 123	4 056	1 130	3 794	1 043	3 540	723	3 169	626
Furniture and fixtures .....	16 315	6 204	16 325	6 204	15 594	5 473	17 507	4 488	16 593	4 126
Stone, clay, and glass products .....	16 022	4 486	16 041	4 486	15 004	4 102	16 181	3 513	14 840	3 261
Glass and glass products .....	3 922	1 730	3 922	1 730	3 757	1 563	2 336	905	2 181	785
Cement, concrete, gypsum, and plaster products .....	7 376	522	7 381	522	6 739	495	8 250	497	7 453	476
Structural clay products .....	613	73	613	73	564	73	797	87	797	87
Pottery and related products .....	1 107	927	1 121	927	1 071	869	797	768	750	760
Miscellaneous nonmetallic mineral and stone products .....	3 004	1 234	3 004	1 234	2 873	1 102	3 901	1 256	3 659	1 153
<b>Metal industries</b> .....	<b>141 356</b>	<b>30 222</b>	<b>141 426</b>	<b>30 257</b>	<b>134 218</b>	<b>26 362</b>	<b>131 991</b>	<b>24 322</b>	<b>123 620</b>	<b>21 375</b>
Primary metal industries .....	69 759	8 949	69 780	8 949	66 488	8 125	69 706	6 533	65 797	5 923
Blast furnaces, steelworks, rolling and finishing mills .....	15 704	971	15 719	971	15 223	941	21 053	865	20 105	822
Other primary iron and steel industries .....	37 343	3 489	37 349	3 489	35 546	3 282	30 512	2 416	28 845	2 190
Primary aluminum industries .....	4 163	1 020	4 163	1 020	3 992	925	4 895	128	4 546	115
Other primary nonferrous industries .....	12 549	3 469	12 549	3 469	11 727	2 977	13 246	3 124	12 301	2 796
Fabricated metal industries .....	71 597	21 273	71 646	21 308	67 730	18 237	62 285	17 789	57 823	15 452
Cutlery, handtools, and other hardware .....	5 787	3 042	5 791	3 042	5 377	2 611	12 949	6 275	12 073	5 402
Fabricated structural metal products .....	14 485	3 086	14 490	3 091	13 656	2 758	16 211	2 206	14 828	1 901
Screw-machine products .....	6 449	1 812	6 466	1 812	6 291	1 631	3 357	774	3 134	678
Metal stamping .....	23 203	6 160	23 214	6 169	22 068	5 082	6 447	3 160	6 018	2 770
Miscellaneous fabricated metal products .....	17 728	6 505	17 735	6 526	16 586	5 581	23 071	5 288	21 534	4 636
Not specified metal industries .....	3 945	668	3 950	668	3 752	574	250	86	236	65
<b>Machinery, except electrical</b> .....	<b>143 842</b>	<b>25 767</b>	<b>143 976</b>	<b>25 783</b>	<b>139 096</b>	<b>23 968</b>	<b>132 222</b>	<b>22 000</b>	<b>126 517</b>	<b>20 542</b>
Engines and turbines .....	9 470	1 040	9 479	1 040	9 136	982	6 821	1 220	6 508	1 123
Farm machinery and equipment .....	4 228	1 737	4 228	1 737	4 102	701	4 497	578	4 327	564
Construction and material-handling machines .....	16 126	1 815	16 134	1 815	15 575	1 657	16 639	1 763	15 875	1 622
Metalworking machinery .....	54 556	7 232	54 629	7 240	53 202	6 774	18 806	1 898	17 942	1 746
Office and accounting machines .....	4 655	2 647	4 655	2 651	4 600	2 489	8 300	4 705	8 212	4 584
Electronic computing equipment .....	3 995	1 808	4 000	1 812	3 865	1 684	1 104	309	1 092	301
Machinery, except electrical, n.e.c. .....	47 740	9 663	47 779	9 663	45 616	8 872	52 468	8 679	50 057	7 983
Not specified machinery .....	3 072	825	3 072	825	3 000	809	23 587	2 848	22 504	2 619
<b>Electrical machinery, equipment, and supplies</b> .....	<b>26 544</b>	<b>15 928</b>	<b>26 594</b>	<b>15 948</b>	<b>25 504</b>	<b>13 632</b>	<b>23 388</b>	<b>11 396</b>	<b>22 049</b>	<b>9 737</b>
Household appliances .....	6 388	2 383	6 393	2 388	6 108	2 145	3 359	818	3 167	699
Radio, television, and communication equipment .....	3 471	2 687	3 476	2 687	3 301	2 086	6 329	2 902	5 968	2 479
Electrical machinery, equipment, and supplies, n.e.c. .....	13 068	9 266	13 108	9 281	12 576	7 981	10 268	6 502	9 678	5 556
Not specified electrical machinery, equipment, and supplies .....	3 617	1 592	3 617	1 592	3 519	1 420	3 432	1 174	3 236	1 003
<b>Transportation equipment</b> .....	<b>417 680</b>	<b>67 842</b>	<b>417 896</b>	<b>67 922</b>	<b>394 191</b>	<b>59 818</b>	<b>375 385</b>	<b>54 731</b>	<b>348 036</b>	<b>48 408</b>
Motor vehicles and motor vehicle equipment .....	400 690	64 325	400 896	64 393	378 527	56 766	356 808	52 123	331 017	46 146
Aircraft and parts .....	6 365	1 724	6 365	1 724	5 781	1 557	7 067	1 518	6 521	1 255
Ship and boat building and repairing .....	3 020	459	3 030	459	2 726	310	5 465	331	4 938	310
Railroad locomotives and equipment .....	1 170	134	1 170	134	1 097	125	3 617	439	3 326	403
Mobile dwellings and campers .....	4 450	866	4 450	878	4 121	753	1 653	160	1 521	147
Cycles and miscellaneous transportation equipment .....	1 985	334	1 985	334	1 939	307	775	160	713	147
<b>Professional and photographic equipment, and watches</b> .....	<b>5 959</b>	<b>3 149</b>	<b>5 974</b>	<b>3 154</b>	<b>5 745</b>	<b>2 940</b>	<b>7 489</b>	<b>3 875</b>	<b>7 152</b>	<b>3 473</b>
Scientific and controlling instruments .....	3 622	1 492	3 622	1 492	3 485	1 361	2 608	1 024	2 500	915
Optical and health services supplies .....	1 786	1 083	1 801	1 083	1 738	1 035	1 683	1 300	1 614	1 162
Photographic equipment and supplies .....	333	220	333	220	316	211	957	511	887	449
Watches, clocks, and clockwork-operated devices .....	209	337	209	342	197	316	250	238	242	230
Not specified professional equipment .....	9	17	9	17	9	17	1 991	802	1 909	717
Ordnance .....	3 434	675	3 439	675	3 340	575	16 577	3 832	15 484	3 360
Miscellaneous manufacturing industries .....	12 563	5 807	12 583	5 810	11 944	4 986	11 854	5 620	11 162	4 934
Manufacturing, durable goods—allocated .....	47 226	10 808	...	...	...	...	...	...	...	...
<b>Nondurable goods</b> .....	<b>148 641</b>	<b>74 211</b>	<b>150 208</b>	<b>69 394</b>	<b>144 911</b>	<b>61 738</b>	<b>169 784</b>	<b>58 231</b>	<b>162 513</b>	<b>52 467</b>
<b>Food and kindred products</b> .....	<b>31 885</b>	<b>13 477</b>	<b>32 004</b>	<b>13 515</b>	<b>30 415</b>	<b>11 556</b>	<b>49 502</b>	<b>18 610</b>	<b>46 256</b>	<b>16 126</b>
Meat products .....	3 988	1 719	3 998	1 725	3 787	1 582	5 409	1 935	5 041	1 668
Dairy products .....	4 768	746	4 822	746	4 729	673	12 262	1 698	11 902	1 596
Canning and preserving fruits, vegetables, and seafoods .....	4 207	3 708	4 219	3 722	3 740	2 570	4 166	3 064	3 415	1 875
Grain-mill products .....	5 859	2 357	5 859	2 357	5 764	2 262	6 128	2 704	5 975	2 555
Bakery products .....	4 239	2 154	4 252	2 162	4 104	1 968	11 183	6 603	10 613	6 170
Confectionery and related products .....	379	720	387	720	360	626	543	904	498	818
Beverage industries .....	5 312	952	5 330	957	5 153	885	6 821	579	6 345	531
Miscellaneous food preparation and kindred products .....	2 240	721	2 244	726	1 907	635	2 424	838	1 956	713
Not specified food industries .....	893	400	893	400	871	355	566	285	511	200
<b>Tobacco manufactures</b> .....	<b>401</b>	<b>59</b>	<b>401</b>	<b>59</b>	<b>368</b>	<b>42</b>	<b>312</b>	<b>315</b>	<b>312</b>	<b>303</b>
<b>Textile mill products</b> .....	<b>1 757</b>	<b>1 359</b>	<b>1 757</b>	<b>1 359</b>	<b>1 683</b>	<b>1 151</b>	<b>2 114</b>	<b>1 733</b>	<b>2 006</b>	<b>1 547</b>
Knitting mills .....	125	300	125	300	120	278	140	426	119	374
Dyeing and finishing textiles,										

Table 183. Detailed Industry of the Experienced Civilian Labor Force and Employed Persons, by Sex: 1970 and 1960—Continued

[Data based on sample, see text. For meaning of symbols, see text]

The State

	1970						1960			
	Experienced civilian labor force				Employed		Experienced civilian labor force		Employed	
	16 years old and over		14 years old and over		14 years old and over		14 years old and over		14 years old and over	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
<b>Manufacturing—Continued</b>										
<b>Nondurable goods—Continued</b>										
Paper and allied products	22 169	6 654	22 192	6 657	21 475	6 078	23 441	6 214	22 658	5 648
Pulp, paper, and paperboard mills	11 658	2 435	11 673	2 438	11 593	2 261	11 679	1 849	11 412	1 702
Miscellaneous paper and pulp products	4 254	1 641	4 254	1 641	4 103	1 488	6 979	2 879	6 670	2 666
Paperboard containers and boxes	6 257	2 578	6 265	2 578	5 979	2 329	4 783	1 486	4 576	1 280
Printing, publishing, and allied industries	26 054	15 308	35 007	15 538	34 136	14 715	38 102	10 405	36 838	9 693
Newspaper publishing and printing	11 599	5 720	20 297	5 909	19 794	5 751	24 613	3 642	23 831	3 562
Printing, publishing, and allied industries, except newspapers	14 455	9 588	14 710	9 629	14 342	8 964	13 489	6 763	13 007	6 131
Chemicals and allied products	31 275	9 381	31 294	9 398	30 719	8 946	34 542	7 370	33 773	7 136
Industrial chemicals	8 472	1 226	8 477	1 226	8 361	1 195	3 902	218	3 823	210
Plastics, synthetics and resins, except fibers	2 251	989	2 256	996	2 188	842	1 561	258	1 529	249
Synthetic fibers	52	—	52	—	46	—	5	73	8	—
Drugs and medicines	5 069	2 936	5 069	2 942	5 046	2 881	5 296	3 487	5 226	3 416
Soaps and cosmetics	1 559	980	1 559	984	1 493	893	2 681	1 212	2 626	1 167
Paints, varnishes, and related products	3 460	760	3 469	760	3 359	723	3 758	757	3 591	713
Agricultural chemicals	1 598	200	1 598	200	1 561	191	1 968	60	1 928	57
Miscellaneous chemicals	2 344	595	2 344	595	2 281	571	2 443	159	2 394	153
Not specified chemicals and allied products	6 470	1 695	6 470	1 695	6 384	1 650	12 860	1 211	12 600	1 167
Petroleum and coal products	6 229	1 038	6 229	1 038	6 120	1 024	3 221	462	3 076	450
Petroleum refining	5 818	934	5 818	934	5 749	925	2 828	396	2 718	384
Miscellaneous petroleum and coal products	411	104	411	104	371	99	393	66	358	66
Rubber and miscellaneous plastic products	14 326	10 105	14 336	10 110	13 561	8 632	13 592	4 863	13 034	4 291
Rubber products	8 260	3 301	8 260	3 306	7 932	2 947	9 876	2 286	9 588	2 046
Miscellaneous plastic products	6 066	6 804	6 076	6 804	5 629	5 685	3 716	2 577	3 446	2 245
Leather and leather products	2 400	2 626	2 400	2 636	2 137	2 137	2 069	1 464	1 898	1 315
Tanned, curried, and finished leather	659	159	659	159	621	154	843	98	773	85
Footwear, except rubber	1 301	1 925	1 301	1 935	1 126	1 588	674	729	635	689
Leather products, except footwear	440	542	440	542	415	395	552	637	490	541
Manufacturing, nondurable goods—allocated	7 565	1 531	7 565	1 531	7 470	1 440	8 192	1 132	7 980	1 132
Not specified manufacturing industries	4 721	1 971	4 737	1 971	4 393	1 743	1 832	775	1 692	673
<b>Transportation, communications, and other public utilities</b>										
Transportation	134 340	42 467	128 775	40 555	124 067	39 252	132 155	31 362	125 298	30 290
Railroads and railway express service	75 048	15 981	75 189	16 008	71 210	15 374	84 092	8 815	78 773	8 383
Street railways and bus lines	18 374	2 002	18 423	2 002	17 970	1 977	25 082	2 211	23 878	2 064
Taxicab service	6 384	5 472	6 395	5 477	6 244	5 360	7 259	1 476	7 015	1 443
Trucking service	2 616	593	2 622	593	2 495	551	4 034	399	3 723	379
Warehousing and storage	34 395	3 372	34 441	3 389	32 235	3 195	36 232	2 441	33 997	2 368
Water transportation	4 060	1 038	4 069	1 038	3 771	973	3 192	660	2 928	625
Air transportation	2 583	241	2 583	241	2 107	220	4 393	199	3 470	161
Pipelines, except natural gas	5 062	842	5 078	847	4 878	1 758	2 727	953	2 669	890
Services incidental to transportation	186	10	186	10	181	5	239	41	231	37
Services incidental to transportation	1 388	1 411	1 392	1 411	1 329	1 335	934	435	862	416
Communications	19 781	19 153	19 814	19 186	19 574	18 605	15 481	17 291	15 270	16 762
Radio broadcasting and television	3 154	869	3 165	881	3 110	828	2 032	774	1 976	738
Telephone (wire and radio)	16 117	17 799	16 139	17 820	15 971	17 292	12 819	15 836	12 704	15 375
Telegraph and miscellaneous communication services	510	485	510	485	493	485	630	681	590	649
Utilities and sanitary services	33 715	5 350	33 772	5 361	33 283	5 273	32 582	5 256	31 255	5 145
Electric light and power	15 311	2 288	15 320	2 295	15 204	2 258	13 512	2 532	12 910	2 485
Electric-gas utilities	5 165	1 451	5 169	1 451	5 141	1 445	5 530	1 020	5 284	1 000
Gas and steam supply systems	4 419	887	4 432	887	4 365	882	5 883	1 225	5 700	1 194
Water supply	3 572	422	3 572	426	3 531	407	2 971	352	2 758	340
Sanitary services	5 093	251	5 124	251	4 899	230	4 670	99	4 419	96
Other and not specified utilities	155	51	155	51	143	51	196	28	184	28
Transportation, communications, and other public utilities—allocated	5 796	1 983	5 796	1 983	5 796	1 983	5 796	1 983	5 796	1 983
<b>Wholesale and retail trade</b>										
Wholesale trade	369 184	300 405	358 390	283 108	342 281	264 621	310 584	204 372	294 597	189 421
Motor vehicles and equipment	95 647	27 992	91 990	26 590	89 410	25 043	68 384	15 948	65 689	14 984
Drugs, chemicals, and allied products	11 990	3 046	12 031	3 050	11 744	2 932	5 228	1 021	5 056	912
Dry goods and apparel	3 529	1 589	3 534	1 589	3 466	1 504	2 336	961	2 265	302
Food and related products	824	1 338	829	1 338	805	1 316	838	335	819	302
Farm products—raw materials	18 427	5 305	18 503	5 328	17 982	4 853	13 433	3 019	12 794	2 726
Electrical goods	1 165	346	1 170	346	1 141	353	1 569	524	1 506	481
Hardware, plumbing, and heating supplies	5 184	1 705	5 222	1 713	5 116	1 652	3 548	963	3 415	910
Not specified electrical and hardware products	3 419	1 121	3 428	1 121	3 342	1 049	2 722	749	2 620	710
Machinery, equipment, and supplies	69	33	69	33	69	33	522	107	503	101
Metals and minerals, n.e.c.	16 036	4 280	16 079	4 284	15 726	4 120	8 042	1 913	7 894	1 838
Metals and minerals, n.e.c.	4 711	1 016	4 717	1 016	4 532	981	1 980	485	1 880	457
Petroleum products	4 235	1 077	4 240	1 077	4 171	1 045	6 161	1 165	5 944	1 129
Scrap and waste materials	3 060	514	3 079	514	2 937	462	3 252	153	3 089	144
Alcoholic beverages	2 968	443	2 972	448	2 886	426	2 686	587	2 552	533
Paper and its products	2 146	661	2 151	665	2 077	646	2 093	485	1 988	457
Lumber and construction materials	4 170	705	4 170	717	4 020	668	3 846	561	3 653	529
Wholesalers, n.e.c.	8 023	3 489	8 110	3 508	7 762	3 237	6 022	1 836	5 720	1 732
Not specified wholesale trade	1 706	726	1 706	736	1 634	688	3 106	1 084	3 020	1 031
Wholesale trade—allocated	3 985	1 498	3 985	1 498	3 985	1 498	3 985	1 498	3 985	1 498
Retail trade	273 537	272 413	266 400	256 518	252 871	239 578	242 200	188 424	228 908	174 435
Lumber and building material retailing	11 788	2 804	11 875	2 820	11 321	2 665	15 959	2 616	14 748	2 437
Hardware and farm equipment stores	6 285	2 439	6 398	2 454	6 184	2 360	8 961	3 322	8 686	2 212
General merchandise stores	26 556	66 956	26 828	67 098	25 566	62 718	21 933	51 922	20 649	47 989
Department and mail-order establishments	18 704	47 876	18 755	47 925	17 820	44 599	13 752	31 387	12 940	29 042
Limited-price variety stores	2 560	8 742	2 594	8 998	2 458	8 437	2 899	12 502	2 735	11 515
Vending machine operators	2 502	998	2 523	998	2 484	913	705	116	663	107
Direct-selling establishments	1 539	5 688	1 703	5 715	1 634	5 465	1 392	3 278	1 314	3 034
Miscellaneous general merchandise stores	1 229	3 452	1 253	3 462	1 168	3 304	3 185	4 637	2 997	4 291
Food stores	47 982	36 163	49 404	36 592	47 595	34 915	49 825	28 231	47 270	26 782
Grocery stores	40 645	27 515	41 742	27 695	40 214	26 586	41 925	24 203	39 775	22 961
Dairy products stores	1 468	1 122	1 579	1 196	1 523	1 130	1 440	598	1 082	567
Retail bakeries	3 027	5 231	3 136	5 370	3 047	4 983	1 140	1 196	1 108	1 134
Food stores, n.e.c.	2 842	2 295	2 949	2 331	2 811	2 216	5 592	2 234	5 305	2 120
Motor vehicle dealers	26 420	4 433	26 490	4 461	25 502	4 261	25 717	2 747	24 669	2 609
Tire, battery, and accessory dealers	5 392	1 092	5 417	1 092	5 222	1 056	5 335	979	5 118	930
Gasoline service stations	32 227	1 906	32 844	1 930	30 420	1 811	29 159	920	27 394	899

Table 183. Detailed Industry of the Experienced Civilian Labor Force and Employed Persons, by Sex: 1970 and 1960—Continued

[Data based on sample, see text. For meaning of symbols, see text]

The State

Wholesale and retail trade—Continued

	1970						1960			
	Experienced civilian labor force				Employed		Experienced civilian labor force		Employed	
	16 years old and over		14 years old and over		14 years old and over		14 years old and over		14 years old and over	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Miscellaneous vehicle dealers	2 766	559	2 822	559	2 695	534	1 723	245	1 653	232
Apparel and accessories stores, except shoe stores	7 737	21 133	7 848	21 231	7 469	19 881	7 044	16 424	6 655	15 433
Shoe stores	3 821	2 265	3 880	2 311	3 746	2 196	3 673	1 632	3 508	1 570
Furniture and home furnishings stores	9 183	4 768	9 261	4 796	8 851	4 521	7 936	2 852	7 509	2 630
Household appliances, television, and radio stores	8 452	3 292	8 514	3 316	8 291	3 139	6 487	2 315	6 208	2 209
Eating and drinking places	40 783	74 557	43 497	76 070	39 986	69 414	28 483	53 633	26 210	48 159
Drug stores	7 516	11 409	7 772	11 621	7 499	11 059	8 525	9 781	8 246	9 243
Liquor stores	1 277	538	1 319	547	1 276	520	1 163	374	1 086	352
Farm and garden supply stores	2 264	865	2 285	865	2 148	800	2 232	305	2 132	287
Jewelry stores	1 731	2 382	1 734	2 386	1 699	2 230	1 828	1 536	1 782	1 439
Fuel and ice dealers	2 246	557	2 252	562	2 160	552	3 649	658	3 370	613
Retail florists	1 784	2 445	1 841	2 481	1 742	2 387	1 696	1 577	1 637	1 509
Miscellaneous retail stores	10 365	9 360	10 611	9 440	10 167	8 929	8 906	5 721	8 507	5 375
Not specified retail trade	3 425	3 860	3 506	3 886	3 332	3 630	1 966	1 636	1 871	1 526
Retail trade—allocated	13 557	18 630	...	...	...	...	...	...	...	...
<b>Finance, insurance, and real estate</b>	<b>61 673</b>	<b>71 540</b>	<b>59 724</b>	<b>68 292</b>	<b>58 808</b>	<b>66 719</b>	<b>47 445</b>	<b>44 156</b>	<b>46 484</b>	<b>43 059</b>
Banking	11 731	25 769	11 746	25 799	11 614	25 300	8 340	14 910	8 222	14 656
Credit agencies	5 061	6 922	5 066	6 933	5 022	6 722	4 251	4 901	4 189	4 818
Security, commodity brokerage, and investment companies	3 312	1 965	3 325	1 976	3 259	1 912	1 893	1 024	1 883	988
Insurance	22 993	22 546	23 096	22 604	22 908	22 107	19 351	15 388	19 162	14 995
Real estate, including real estate—insurance—law offices	16 373	10 939	16 491	10 980	16 005	10 678	13 610	7 933	13 028	7 602
Finance, insurance, and real estate—allocated	2 203	3 399	...	...	...	...	...	...	...	...
<b>Business and repair services</b>	<b>61 174</b>	<b>27 657</b>	<b>58 528</b>	<b>25 800</b>	<b>55 549</b>	<b>23 865</b>	<b>51 761</b>	<b>14 022</b>	<b>48 247</b>	<b>12 913</b>
Business services	27 074	21 265	27 222	21 341	25 825	19 718	18 399	11 551	17 307	10 619
Advertising	4 228	2 765	4 250	2 771	4 146	2 620	4 793	2 591	4 620	2 400
Services to dwellings and other buildings	3 770	2 541	3 846	2 546	3 562	2 387	2 802	708	2 612	649
Commercial research, development, and testing labs	1 858	540	1 858	540	1 819	502	2 693	1 087	2 511	997
Employment and temporary help agencies	1 254	3 315	1 254	3 335	1 064	2 774	304	1 239	283	1 136
Business management and consulting services	3 570	2 639	3 586	2 643	3 406	2 487	1 151	910	1 073	835
Computer programming services	1 530	1 042	1 534	1 047	1 468	1 018	1 87	—	81	—
Detective and protective services	3 611	396	3 620	396	3 432	386	1 043	126	972	116
Business services, n.e.c.	7 253	8 027	7 274	8 063	6 926	7 544	5 526	4 890	5 155	4 486
Repair services	30 919	4 442	31 306	4 459	29 724	4 147	33 362	2 471	30 940	2 294
Automobile services, except repair	5 281	1 170	5 475	1 174	4 950	1 059	3 555	489	3 265	449
Automobile repair and related services	13 285	1 122	13 378	1 128	12 901	1 074	17 387	667	15 972	612
Electrical repair shops	4 033	613	4 056	620	3 900	601	5 563	710	5 242	666
Miscellaneous repair services	8 320	1 537	8 397	1 537	7 973	1 413	6 857	605	6 461	567
Business and repair services—allocated	3 181	1 950	...	...	...	...	...	...	...	...
<b>Personal services</b>	<b>32 644</b>	<b>90 781</b>	<b>31 699</b>	<b>86 031</b>	<b>30 071</b>	<b>81 032</b>	<b>39 776</b>	<b>105 176</b>	<b>37 057</b>	<b>97 042</b>
Private households	2 688	30 339	3 335	34 108	2 913	32 211	6 060	63 429	5 208	58 424
Hotels and motels	6 126	10 692	6 231	10 758	5 728	9 651	7 889	9 192	7 047	8 129
Lodging places, except hotels and motels	1 702	2 618	1 760	2 819	1 475	2 476	1 111	1 962	1 001	1 745
Laundering, cleaning, and other garment services	7 808	15 949	7 931	16 040	7 622	15 047	10 849	15 386	10 237	14 042
Beauty shops	1 605	17 764	1 615	17 836	1 594	17 404	1 442	11 752	1 422	11 443
Barber shops	6 116	364	6 155	379	6 142	374	7 184	82	7 087	80
Shoe repair shops	731	143	746	154	734	154	1 421	144	1 361	134
Dressmaking shops	153	774	153	774	149	731	31	1 209	31	1 164
Miscellaneous personal services	3 705	3 144	3 773	3 163	3 714	2 984	3 789	2 020	3 663	1 881
Personal services—allocated	2 030	8 994	...	...	...	...	...	...	...	...
<b>Entertainment and recreation services</b>	<b>14 175</b>	<b>9 773</b>	<b>13 815</b>	<b>9 286</b>	<b>12 371</b>	<b>8 472</b>	<b>13 566</b>	<b>6 472</b>	<b>11 877</b>	<b>5 804</b>
Theaters and motion pictures	3 744	2 551	3 835	2 621	3 538	2 456	3 431	2 280	3 115	2 059
Bowling alleys, and billiard and pool parlors	2 899	2 187	3 038	2 220	2 913	2 131	3 783	2 793	3 379	2 757
Miscellaneous entertainment and recreation services	6 550	4 357	6 942	4 445	5 920	3 885	6 352	3 399	5 383	2 988
Entertainment and recreation services—allocated	982	678	...	...	...	...	...	...	...	...
<b>Professional and related services</b>	<b>211 981</b>	<b>378 909</b>	<b>204 225</b>	<b>356 396</b>	<b>199 914</b>	<b>348 010</b>	<b>134 110</b>	<b>267 163</b>	<b>131 254</b>	<b>202 883</b>
Health services	45 459	150 875	45 690	151 240	44 841	147 319	33 899	88 433	33 188	85 837
Offices of physicians	7 508	14 834	7 524	14 876	7 482	14 537	6 948	9 488	6 892	9 151
Offices of dentists	3 958	6 406	3 968	6 464	3 965	6 255	3 474	3 330	3 449	3 210
Offices of chiropractors	523	209	523	209	523	204	785	491	779	310
Hospitals	26 368	100 459	26 469	100 606	25 833	98 367	18 235	62 491	17 651	60 812
Convalescent institutions	2 787	21 313	2 854	21 403	2 761	20 458	1 581	6 850	1 567	6 613
Offices of health practitioners, n.e.c.	913	884	933	904	928	873	974	515	966	487
Health services, n.e.c.	3 402	6 770	3 419	6 778	3 349	6 623	1 902	5 438	1 884	5 244
Legal services	6 858	6 003	6 861	6 019	6 849	5 871	4 895	3 501	4 883	3 405
Educational services	105 785	166 858	106 801	167 586	105 122	164 246	59 853	93 077	59 139	92 191
Elementary and secondary schools	63 598	124 459	64 489	125 054	63 531	122 687	37 825	73 745	37 417	73 046
Government	50 598	94 268	51 168	94 648	50 427	92 828	35 395	62 861	35 040	62 272
Private	13 000	30 191	13 321	30 406	13 104	29 859	2 430	10 884	2 377	10 774
Colleges and universities	39 446	34 942	39 497	34 979	38 857	34 206	18 815	11 935	18 558	11 820
Government	28 430	23 205	28 462	23 220	28 054	22 681	12 926	6 891	12 796	6 826
Private	11 016	11 737	11 035	11 759	10 803	11 525	5 889	5 044	5 762	4 994
Libraries	768	3 649	821	3 710	789	3 611	678	2 744	670	2 718
Educational services, n.e.c.	1 951	3 798	1 972	3 833	1 923	3 732	1 791	3 631	1 761	3 595
Not specified educational services	22	10	22	10	22	10	744	1 022	733	1 012
Museums, art galleries, and zoos	673	485	673	485	640	467	480	175	473	174
Religious organizations	11 159	7 388	11 360	7 474	11 258	7 350	10 827	6 049	10 608	5 905
Welfare services	3 983	7 407	4 016	7 434	3 851	7 214	2 319	4 057	2 265	3 956
Residential welfare facilities	314	941	314	946	294	908	475	2 070	460	2 015
Nonprofit membership organizations	6 298	6 170	6 436	6 206	6 230	5 935	5 574	5 207	5 322	4 946
Engineering and architectural services	13 483	2 131	13 491	2 131	12 393	2 028	9 489	1 277	8 765	1 201
Accounting, auditing, and bookkeeping services	5 896	4 848	5 910	4 853	5 859	4 705	4 120	2 347	4 741	2 307
Miscellaneous professional and related services	2 650	2 019	2 673	2 022	2 577	1 967	1 977	970	1 880	946
Professional and related services—allocated	9 423	23 784	...	...	...	...	...	...	...	...
<b>Public administration</b>	<b>85 300</b>	<b>44 268</b>	<b>83 520</b>	<b>42 361</b>	<b>80 628</b>	<b>40 852</b>	<b>48 844</b>	<b>26 088</b>	<b>65 430</b>	<b>25 170</b>
Postal service	18 052	8 598	18 062	8 603	17 792	8 189	17 715	2 717	16 915	2 450
Federal public administration	15 030	10 203	15 053	10 213	13 267	9 781	11 715	10 194	10 098	9 888
State public administration	11 761	8 303	11 777	8 317	11 546	8 098	8 510	4 863	8 282	4 708
Local public administration	38 520	15 204	38 628	15 228	38 023	14 784	30 904	8 314	30 135	8 124
Public administration—allocated	1 937	1 960	...	...	...	...	...	...	...	...
Unemployed persons, last worked 1959 or earlier <sup>1</sup>	627	2 934	...	...	...	...	...	...	...	...
Industry not reported <sup>1</sup>	...	...	120 870	86 426	110 257	77 876	43 685	38 951	55 751	33 831

<sup>1</sup>See text for explanation.

Table 184. Detailed Industry of Employed Persons by Race and Sex: 1970

[Data based on sample, see text. For meaning of symbols, see text]

The State Standard Metropolitan Statistical Areas of 250,000 or More	The State						Standard metropolitan statistical areas	
	Total		Negro		Persons of Spanish language		Detroit	
	Male	Female	Male	Female	Male	Female	Male	Female
<b>Total employed, 16 years old and over</b> .....	<b>2 089 004</b>	<b>1 163 826</b>	<b>191 581</b>	<b>133 920</b>	<b>25 545</b>	<b>11 750</b>	<b>1 015 407</b>	<b>555 346</b>
<b>Agriculture, forestry, and fisheries</b> .....	<b>50 663</b>	<b>8 044</b>	<b>1 089</b>	<b>600</b>	<b>784</b>	<b>190</b>	<b>5 708</b>	<b>1 885</b>
Agricultural production.....	40 467	5 139	402	87	634	165	2 593	634
Agricultural services, except horticultural.....	1 960	1 253	30	19	15	6	528	494
Horticultural services.....	3 126	294	201	20	49	—	1 561	174
Forestry.....	867	53	15	—	7	—	114	—
Fisheries.....	317	68	15	—	—	7	25	—
Agriculture, forestry, and fisheries—allocated.....	3 926	1 237	426	474	79	12	887	583
<b>Mining</b> .....	<b>12 944</b>	<b>936</b>	<b>221</b>	<b>47</b>	<b>74</b>	<b>—</b>	<b>1 544</b>	<b>275</b>
Metal mining.....	6 428	203	35	—	19	—	65	5
Coal mining.....	115	12	27	—	—	—	57	5
Crude petroleum and natural gas extractions.....	2 622	552	129	47	22	—	767	219
Nonmetallic mining and quarrying, except fuel.....	3 246	155	25	—	33	—	601	41
Mining—allocated.....	533	14	5	—	—	—	54	5
<b>Construction</b> .....	<b>145 639</b>	<b>9 998</b>	<b>9 608</b>	<b>642</b>	<b>1 223</b>	<b>80</b>	<b>62 527</b>	<b>5 283</b>
General building contractors.....	30 547	2 235	2 079	151	250	26	12 982	1 324
General contractors, except building.....	25 450	1 913	1 617	124	208	27	8 679	741
Special trade contractors.....	67 351	4 503	3 026	211	497	23	31 749	2 507
Not specified construction.....	11 047	825	1 223	76	144	—	4 515	448
Construction—allocated.....	11 244	522	1 663	80	124	4	4 602	263
<b>Manufacturing</b> .....	<b>946 729</b>	<b>221 811</b>	<b>113 149</b>	<b>19 575</b>	<b>14 336</b>	<b>2 735</b>	<b>488 367</b>	<b>99 614</b>
<b>Durable goods</b> .....	<b>799 346</b>	<b>153 828</b>	<b>104 447</b>	<b>14 589</b>	<b>12 378</b>	<b>1 607</b>	<b>431 699</b>	<b>73 897</b>
Lumber and wood products, except furniture.....	11 640	2 046	329	74	92	12	1 698	574
Logging.....	2 437	72	39	—	—	—	104	5
Sawmills, planing mills, and millwork.....	5 434	938	92	26	26	6	700	243
Miscellaneous wood products.....	3 769	1 036	198	48	66	6	894	326
Furniture and fixtures.....	15 584	5 473	632	371	273	118	1 810	569
Stone, clay, and glass products.....	14 985	4 102	1 104	435	266	62	6 749	2 303
Glass and glass products.....	3 757	1 563	379	130	96	43	2 005	640
Cement, concrete, gypsum, and plaster products.....	6 734	495	373	12	88	—	2 222	187
Structural clay products.....	564	73	45	—	10	—	204	80
Pottery and related products.....	1 057	869	164	244	25	19	880	813
Miscellaneous nonmetallic mineral and stone products.....	2 873	1 102	143	49	47	—	1 438	643
<b>Metal industries</b> .....	<b>134 155</b>	<b>26 327</b>	<b>14 349</b>	<b>1 515</b>	<b>3 321</b>	<b>389</b>	<b>65 342</b>	<b>11 000</b>
Primary metal industries.....	66 467	8 125	10 101	570	2 410	137	29 850	2 794
Blast furnaces, steelworks, rolling and finishing mills.....	15 208	941	2 403	79	673	6	13 897	807
Other primary iron and steel industries.....	35 540	3 282	6 566	269	1 428	47	11 437	919
Primary aluminum industries.....	3 992	925	263	41	81	14	4 925	129
Other primary nonferrous industries.....	11 727	2 977	869	181	228	70	4 121	939
Fabricated metal industries.....	67 688	18 202	4 248	945	911	252	35 492	8 206
Cutlery, handtools, and other hardware.....	5 373	2 611	171	130	69	61	1 772	664
Fabricated structural metal products.....	13 651	2 753	663	82	204	20	7 440	1 215
Screw-machine products.....	6 274	1 631	358	81	78	29	4 583	1 168
Metal stamping.....	22 057	5 073	1 790	370	286	62	12 734	2 680
Miscellaneous fabricated metal products.....	16 586	5 560	1 088	260	220	73	7 026	2 215
Not specified metal industries.....	3 747	574	178	22	54	7	1 937	264
<b>Machinery, except electrical</b> .....	<b>138 966</b>	<b>23 952</b>	<b>5 755</b>	<b>1 046</b>	<b>1 386</b>	<b>197</b>	<b>76 372</b>	<b>13 441</b>
Engines and turbines.....	9 127	982	1 088	65	82	—	7 145	568
Form machinery and equipment.....	4 102	701	287	18	46	—	2 027	257
Construction and material-handling machines.....	15 567	1 657	787	69	127	16	3 584	419
Metalworking machinery.....	53 133	6 766	1 065	193	408	100	36 979	4 760
Office and accounting machines.....	4 600	2 485	1 58	49	27	—	3 693	2 144
Electronic computing equipment.....	3 860	1 680	129	7	7	—	3 022	1 298
Machinery, except electrical, n.e.c.....	45 577	8 872	2 034	336	633	30	17 769	3 338
Not specified machinery.....	3 000	809	113	49	34	6	2 153	657
<b>Electrical machinery, equipment, and supplies</b> .....	<b>25 470</b>	<b>13 612</b>	<b>809</b>	<b>633</b>	<b>256</b>	<b>159</b>	<b>8 809</b>	<b>3 574</b>
Household appliances.....	4 103	2 140	223	96	52	11	423	214
Radio, television, and communication equipment.....	3 296	2 086	108	145	33	24	1 262	439
Electrical machinery, equipment, and supplies, n.e.c.....	12 552	7 966	346	316	164	92	5 225	2 141
Not specified electrical machinery, equipment, and supplies.....	3 519	1 420	132	76	7	32	1 899	780
<b>Transportation equipment</b> .....	<b>394 037</b>	<b>59 742</b>	<b>69 249</b>	<b>8 094</b>	<b>6 069</b>	<b>479</b>	<b>237 598</b>	<b>34 199</b>
Motor vehicles and motor vehicle equipment.....	378 383	56 702	68 950	7 961	5 883	462	232 909	33 460
Aircraft and parts.....	5 781	1 557	126	76	57	13	2 515	480
Ship and boat building and repairing.....	2 716	310	46	21	48	—	390	76
Railroad locomotives and equipment.....	1 097	125	34	4	32	—	509	56
Mobile dwellings and campers.....	4 121	741	49	19	49	4	1 58	30
Cycles and miscellaneous transportation equipment.....	1 939	307	44	13	—	—	1 117	97
<b>Professional and photographic equipment, and watches</b> .....	<b>5 730</b>	<b>2 935</b>	<b>113</b>	<b>93</b>	<b>28</b>	<b>41</b>	<b>1 750</b>	<b>767</b>
Scientific and controlling instruments.....	3 485	1 361	52	35	19	9	950	358
Optical and health services supplies.....	1 723	1 035	26	53	9	20	603	362
Photographic equipment and supplies.....	316	211	31	5	—	—	163	40
Watches, clocks, and clockwork-operated devices.....	197	311	4	—	—	12	34	—
Not specified professional equipment.....	9	17	—	—	—	—	—	7
Ordnance.....	3 335	575	214	94	25	—	2 207	387
Miscellaneous manufacturing industries.....	11 924	4 983	642	377	208	32	5 613	2 234
Manufacturing, durable goods—allocated.....	43 520	10 081	11 251	1 857	454	118	23 751	4 849
<b>Nondurable goods</b> .....	<b>143 006</b>	<b>66 240</b>	<b>8 269</b>	<b>4 790</b>	<b>1 928</b>	<b>1 097</b>	<b>54 732</b>	<b>24 950</b>
<b>Food and kindred products</b> .....	<b>30 309</b>	<b>11 527</b>	<b>2 570</b>	<b>648</b>	<b>807</b>	<b>304</b>	<b>11 437</b>	<b>3 745</b>
Meat products.....	3 777	1 576	648	228	136	61	1 972	929
Dairy products.....	4 679	673	142	24	27	7	1 773	172
Canning and preserving fruits, vegetables, and seafoods.....	3 728	2 565	127	152	223	160	283	218
Grain-mill products.....	5 764	2 262	201	60	44	7	241	46
Bakery products.....	4 091	1 960	505	149	135	27	2 143	901
Confectionery and related products.....	355	626	15	41	22	—	170	390
Beverage industries.....	5 141	880	622	114	33	18	3 474	561
Miscellaneous food preparation and kindred products.....	1 903	630	269	26	28	11	1 028	384
Not specified food industries.....	871	355	41	13	—	13	353	144
<b>Tobacco manufactures</b> .....	<b>368</b>	<b>42</b>	<b>13</b>	<b>9</b>	<b>—</b>	<b>—</b>	<b>225</b>	<b>27</b>
<b>Textile mill products</b> .....	<b>1 683</b>	<b>1 151</b>	<b>127</b>	<b>123</b>	<b>34</b>	<b>—</b>	<b>598</b>	<b>371</b>
Knitting mills.....	120	278	—	13	—	—	22	44
Dyeing and finishing textiles, except wool and knit goods.....	102	67	7	—	—	—	24	—
Floor coverings, except hard surface.....	109	41	12	—	—	—	46	9
Yarn, thread, and fabric mills.....	614	430	56	58	11	—	317	237
Miscellaneous textile mill products.....	738	335	52	52	23	—	189	81
Apparel and other fabricated textile products.....	4 264	7 446	715	715	115	203	2 377	3 006
Apparel and accessories.....	1 204	3 235	218	310	18	102	702	966
Miscellaneous fabricated textile products.....	3 060	4 211	214	405	97	101	1 675	2 040

Table 184. Detailed Industry of Employed Persons by Race and Sex: 1970—Continued

[Data based on sample, see text. For meaning of symbols, see text]

**The State  
Standard Metropolitan Statistical Areas  
of 250,000 or More**

	The State						Standard metropolitan statistical areas	
	Total		Negro		Persons of Spanish language		Detroit	
	Male	Female	Male	Female	Male	Female	Male	Female
<b>Manufacturing—Continued</b>								
<b>Nondurable goods—Continued</b>								
Paper and allied products.....	21 456	6 075	631	283	173	31	3 071	1 386
Pulp, paper, and paperboard mills.....	11 378	2 258	271	76	70	7	939	340
Miscellaneous paper and pulp products.....	4 103	1 488	132	103	34	7	969	620
Paperboard containers and boxes.....	5 975	2 329	228	104	69	14	1 163	426
Printing, publishing, and allied industries.....	25 420	14 491	908	885	265	170	13 398	6 017
Newspaper publishing and printing.....	11 323	5 568	370	202	87	15	5 817	2 328
Printing, publishing, and allied industries, except newspapers.....	14 097	8 923	538	683	178	155	7 581	3 689
Chemicals and allied products.....	30 700	8 929	1 055	456	284	121	12 755	4 188
Industrial chemicals.....	8 356	1 195	117	36	65	13	3 721	504
Plastics, synthetics and resins, except fibers.....	2 183	835	56	20	38	14	749	380
Synthetic fibers.....	46	—	—	—	—	—	20	—
Drugs and medicines.....	5 046	2 875	227	193	48	28	2 548	1 664
Soaps and cosmetics.....	1 493	889	74	66	22	27	727	365
Paints, varnishes, and related products.....	3 350	723	292	63	25	7	2 298	541
Agricultural chemicals.....	1 561	191	24	—	20	6	28	—
Miscellaneous chemicals.....	2 281	571	89	23	35	—	790	215
Not specified chemicals and allied products.....	6 384	1 650	176	55	31	26	1 874	519
Petroleum and coal products.....	6 120	1 024	141	41	81	14	1 286	251
Petroleum refining.....	5 749	925	122	32	75	14	1 050	185
Miscellaneous petroleum and coal products.....	371	99	19	9	6	—	236	66
Rubber and miscellaneous plastic products.....	13 551	8 632	1 260	713	226	169	6 627	3 912
Rubber products.....	7 932	2 947	1 113	359	132	43	4 290	1 558
Miscellaneous plastic products.....	5 619	5 685	147	354	94	126	2 337	2 354
Leather and leather products.....	2 162	2 127	128	26	31	36	299	246
Tanned, curried, and finished leather.....	621	154	78	—	5	7	24	—
Footwear, except rubber.....	1 126	1 578	13	10	20	29	98	34
Leather products, except footwear.....	415	395	37	16	6	—	177	212
Manufacturing, nondurable goods—allocated.....	6 973	4 796	1 004	732	71	49	2 659	1 801
<b>Not specified manufacturing industries.....</b>	<b>4 377</b>	<b>1 743</b>	<b>433</b>	<b>196</b>	<b>30</b>	<b>31</b>	<b>1 936</b>	<b>767</b>
<b>Transportation, communications, and other public utilities.....</b>								
<b>Transportation.....</b>	<b>129 273</b>	<b>41 035</b>	<b>9 921</b>	<b>4 875</b>	<b>1 410</b>	<b>402</b>	<b>65 674</b>	<b>21 724</b>
<b>Street railways and bus lines.....</b>	<b>71 084</b>	<b>15 347</b>	<b>4 968</b>	<b>935</b>	<b>899</b>	<b>209</b>	<b>36 705</b>	<b>8 094</b>
<b>Railroads and railway express service.....</b>	<b>17 926</b>	<b>1 977</b>	<b>766</b>	<b>141</b>	<b>267</b>	<b>28</b>	<b>7 283</b>	<b>1 487</b>
<b>Taxicab service.....</b>	<b>6 238</b>	<b>5 355</b>	<b>1 449</b>	<b>220</b>	<b>38</b>	<b>13</b>	<b>3 470</b>	<b>1 608</b>
<b>Trucking service.....</b>	<b>2 489</b>	<b>551</b>	<b>608</b>	<b>121</b>	<b>14</b>	<b>11</b>	<b>1 754</b>	<b>308</b>
<b>Warehousing and storage.....</b>	<b>32 194</b>	<b>3 178</b>	<b>1 305</b>	<b>115</b>	<b>384</b>	<b>64</b>	<b>16 677</b>	<b>1 681</b>
<b>Water transportation.....</b>	<b>3 762</b>	<b>973</b>	<b>290</b>	<b>79</b>	<b>90</b>	<b>25</b>	<b>2 396</b>	<b>536</b>
<b>Air transportation.....</b>	<b>2 107</b>	<b>220</b>	<b>150</b>	<b>12</b>	<b>—</b>	<b>—</b>	<b>1 010</b>	<b>142</b>
<b>Pipelines, except natural gas.....</b>	<b>4 862</b>	<b>1 753</b>	<b>330</b>	<b>215</b>	<b>84</b>	<b>18</b>	<b>3 193</b>	<b>1 464</b>
<b>Services incidental to transportation.....</b>	<b>181</b>	<b>5</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>54</b>	<b>5</b>
<b>Other and not specified utilities.....</b>	<b>1 325</b>	<b>1 335</b>	<b>70</b>	<b>32</b>	<b>22</b>	<b>50</b>	<b>868</b>	<b>863</b>
<b>Communications.....</b>	<b>19 541</b>	<b>18 578</b>	<b>947</b>	<b>3 023</b>	<b>173</b>	<b>123</b>	<b>10 094</b>	<b>10 429</b>
<b>Radio broadcasting and television.....</b>	<b>3 099</b>	<b>816</b>	<b>140</b>	<b>45</b>	<b>51</b>	<b>—</b>	<b>1 198</b>	<b>272</b>
<b>Telephone (wire and radio).....</b>	<b>15 949</b>	<b>17 277</b>	<b>702</b>	<b>2 880</b>	<b>117</b>	<b>110</b>	<b>8 590</b>	<b>9 892</b>
<b>Telegraph and miscellaneous communication services.....</b>	<b>493</b>	<b>485</b>	<b>105</b>	<b>98</b>	<b>5</b>	<b>13</b>	<b>306</b>	<b>265</b>
<b>Utilities and sanitary services.....</b>	<b>33 226</b>	<b>5 266</b>	<b>3 190</b>	<b>562</b>	<b>270</b>	<b>63</b>	<b>16 207</b>	<b>2 292</b>
<b>Electric light and power.....</b>	<b>15 195</b>	<b>2 251</b>	<b>705</b>	<b>203</b>	<b>100</b>	<b>13</b>	<b>7 602</b>	<b>1 048</b>
<b>Electric-gas utilities.....</b>	<b>5 137</b>	<b>1 445</b>	<b>144</b>	<b>101</b>	<b>48</b>	<b>25</b>	<b>1 300</b>	<b>329</b>
<b>Gas and steam supply systems.....</b>	<b>4 352</b>	<b>882</b>	<b>272</b>	<b>131</b>	<b>39</b>	<b>13</b>	<b>2 446</b>	<b>582</b>
<b>Water supply.....</b>	<b>3 531</b>	<b>407</b>	<b>608</b>	<b>82</b>	<b>31</b>	<b>—</b>	<b>2 079</b>	<b>226</b>
<b>Sanitary services.....</b>	<b>4 868</b>	<b>230</b>	<b>1 455</b>	<b>39</b>	<b>52</b>	<b>12</b>	<b>2 753</b>	<b>92</b>
<b>Other and not specified utilities.....</b>	<b>143</b>	<b>51</b>	<b>6</b>	<b>7</b>	<b>—</b>	<b>—</b>	<b>27</b>	<b>15</b>
<b>Transportation, communications, and other public utilities—allocated.....</b>	<b>5 422</b>	<b>1 844</b>	<b>816</b>	<b>355</b>	<b>68</b>	<b>7</b>	<b>2 668</b>	<b>909</b>
<b>Wholesale and retail trade.....</b>								
<b>Wholesale trade.....</b>	<b>351 936</b>	<b>280 660</b>	<b>19 668</b>	<b>20 838</b>	<b>3 084</b>	<b>2 827</b>	<b>171 133</b>	<b>140 592</b>
<b>Motor vehicles and equipment.....</b>	<b>92 829</b>	<b>26 368</b>	<b>5 608</b>	<b>2 037</b>	<b>892</b>	<b>367</b>	<b>50 747</b>	<b>14 951</b>
<b>Drugs, chemicals, and allied products.....</b>	<b>11 707</b>	<b>2 928</b>	<b>611</b>	<b>155</b>	<b>108</b>	<b>27</b>	<b>6 581</b>	<b>1 704</b>
<b>Dry goods and apparel.....</b>	<b>3 461</b>	<b>1 504</b>	<b>171</b>	<b>124</b>	<b>53</b>	<b>14</b>	<b>2 086</b>	<b>937</b>
<b>Food and related products.....</b>	<b>800</b>	<b>409</b>	<b>25</b>	<b>59</b>	<b>7</b>	<b>8</b>	<b>555</b>	<b>279</b>
<b>Farm products—raw materials.....</b>	<b>17 913</b>	<b>4 835</b>	<b>1 435</b>	<b>411</b>	<b>265</b>	<b>127</b>	<b>8 973</b>	<b>2 298</b>
<b>Electrical goods.....</b>	<b>1 136</b>	<b>335</b>	<b>8</b>	<b>14</b>	<b>19</b>	<b>—</b>	<b>118</b>	<b>43</b>
<b>Hardware, plumbing, and heating supplies.....</b>	<b>5 098</b>	<b>1 644</b>	<b>132</b>	<b>89</b>	<b>30</b>	<b>27</b>	<b>2 684</b>	<b>917</b>
<b>Not specified electrical and hardware products.....</b>	<b>3 333</b>	<b>1 049</b>	<b>94</b>	<b>44</b>	<b>21</b>	<b>7</b>	<b>1 782</b>	<b>535</b>
<b>Machinery, equipment, and supplies.....</b>	<b>69</b>	<b>29</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>30</b>	<b>18</b>
<b>Metals and minerals, n.e.c.....</b>	<b>15 689</b>	<b>4 116</b>	<b>581</b>	<b>191</b>	<b>100</b>	<b>32</b>	<b>9 881</b>	<b>2 707</b>
<b>Petroleum products.....</b>	<b>4 526</b>	<b>981</b>	<b>397</b>	<b>42</b>	<b>71</b>	<b>12</b>	<b>3 403</b>	<b>740</b>
<b>Scrap and waste materials.....</b>	<b>4 166</b>	<b>1 045</b>	<b>74</b>	<b>75</b>	<b>19</b>	<b>7</b>	<b>1 487</b>	<b>485</b>
<b>Alcoholic beverages.....</b>	<b>2 923</b>	<b>462</b>	<b>626</b>	<b>129</b>	<b>43</b>	<b>—</b>	<b>1 431</b>	<b>323</b>
<b>Paper and its products.....</b>	<b>2 882</b>	<b>421</b>	<b>123</b>	<b>4</b>	<b>—</b>	<b>—</b>	<b>1 454</b>	<b>199</b>
<b>Lumber and construction materials.....</b>	<b>2 072</b>	<b>642</b>	<b>116</b>	<b>23</b>	<b>29</b>	<b>7</b>	<b>1 220</b>	<b>383</b>
<b>Wholesalers, n.e.c.....</b>	<b>4 020</b>	<b>656</b>	<b>243</b>	<b>29</b>	<b>21</b>	<b>—</b>	<b>1 992</b>	<b>349</b>
<b>Not specified wholesale trade.....</b>	<b>7 690</b>	<b>3 223</b>	<b>394</b>	<b>292</b>	<b>81</b>	<b>75</b>	<b>4 280</b>	<b>1 887</b>
<b>Wholesale trade—allocated.....</b>	<b>1 634</b>	<b>678</b>	<b>94</b>	<b>20</b>	<b>14</b>	<b>—</b>	<b>971</b>	<b>394</b>
<b>Wholesale trade—allocated.....</b>	<b>3 710</b>	<b>1 411</b>	<b>484</b>	<b>336</b>	<b>11</b>	<b>15</b>	<b>1 819</b>	<b>753</b>
<b>Retail trade.....</b>	<b>259 107</b>	<b>254 292</b>	<b>14 060</b>	<b>18 801</b>	<b>2 192</b>	<b>2 460</b>	<b>120 386</b>	<b>125 641</b>
<b>Lumber and building material retailing.....</b>	<b>11 242</b>	<b>2 649</b>	<b>273</b>	<b>68</b>	<b>20</b>	<b>—</b>	<b>3 980</b>	<b>934</b>
<b>Hardware and farm equipment stores.....</b>	<b>6 081</b>	<b>2 345</b>	<b>51</b>	<b>32</b>	<b>28</b>	<b>20</b>	<b>1 671</b>	<b>657</b>
<b>General merchandise stores.....</b>	<b>25 284</b>	<b>62 580</b>	<b>1 843</b>	<b>5 056</b>	<b>181</b>	<b>515</b>	<b>14 188</b>	<b>34 467</b>
<b>Department and mail-order establishments.....</b>	<b>17 776</b>	<b>44 550</b>	<b>1 503</b>	<b>4 177</b>	<b>145</b>	<b>365</b>	<b>10 536</b>	<b>27 006</b>
<b>Limited-price variety stores.....</b>	<b>2 424</b>	<b>8 385</b>	<b>110</b>	<b>582</b>	<b>8</b>	<b>44</b>	<b>1 298</b>	<b>4 200</b>
<b>Vending machine operators.....</b>	<b>2 468</b>	<b>913</b>	<b>149</b>	<b>66</b>	<b>9</b>	<b>9</b>	<b>1 365</b>	<b>417</b>
<b>Direct-selling establishments.....</b>	<b>1 472</b>	<b>5 438</b>	<b>60</b>	<b>145</b>	<b>20</b>	<b>56</b>	<b>633</b>	<b>1 970</b>
<b>Miscellaneous general merchandise stores.....</b>	<b>1 144</b>	<b>3 294</b>	<b>21</b>	<b>86</b>	<b>—</b>	<b>41</b>	<b>356</b>	<b>874</b>
<b>Food stores.....</b>	<b>46 221</b>	<b>34 500</b>	<b>2 556</b>	<b>2 000</b>	<b>488</b>	<b>309</b>	<b>22 024</b>	<b>16 789</b>
<b>Grocery stores.....</b>	<b>39 151</b>	<b>26 413</b>	<b>2 063</b>	<b>1 692</b>	<b>444</b>	<b>258</b>	<b>18 165</b>	<b>12 288</b>
<b>Dairy products stores.....</b>	<b>1 417</b>	<b>1 063</b>	<b>23</b>	<b>31</b>	<b>—</b>	<b>18</b>	<b>616</b>	<b>529</b>
<b>Retail bakeries.....</b>	<b>2 943</b>	<b>4 844</b>	<b>290</b>	<b>131</b>	<b>24</b>	<b>18</b>	<b>1 624</b>	<b>2 512</b>
<b>Food stores, n.e.c.....</b>	<b>2 710</b>	<b>2 180</b>	<b>180</b>	<b>146</b>	<b>20</b>	<b>15</b>	<b>1 619</b>	<b>1 460</b>
<b>Motor vehicle dealers.....</b>	<b>25 444</b>	<b>4 233</b>	<b>1 190</b>	<b>127</b>	<b>177</b>	<b>5</b>	<b>10 794</b>	<b>2 213</b>
<b>Tire, battery, and accessory dealers.....</b>	<b>5 203</b>	<b>1 056</b>	<b>302</b>	<b>34</b>	<b>26</b>	<b>5</b>	<b>2 735</b>	<b>490</b>
<b>Gasoline service stations.....</b>	<b>29 846</b>	<b>1 787</b>	<b>1 418</b>	<b>132</b>	<b>228</b>	<b>—</b>	<b>12 250</b>	<b>573</b>

Table 184. Detailed Industry of Employed Persons by Race and Sex: 1970—Continued

[Data based on sample, see text. For meaning of symbols, see text]

The State Standard Metropolitan Statistical Areas of 250,000 or More	The State						Standard metropolitan statistical areas	
	Total		Negro		Persons of Spanish language		Detroit	
	Male	Female	Male	Female	Male	Female	Male	Female
<b>Wholesale and retail trade—Continued</b>								
<b>Retail trade—Continued</b>								
Miscellaneous vehicle dealers	2 644	534	32	—	19	—	895	228
Apparel and accessories stores, except shoe stores	7 376	19 793	556	1 523	62	156	3 905	10 586
Shoe stores	3 687	2 155	266	97	41	18	2 254	982
Furniture and home furnishings stores	8 783	4 493	428	227	39	38	4 268	2 437
Household appliances, television, and radio stores	8 233	3 115	389	265	43	27	3 871	1 591
Eating and drinking places	37 601	68 024	2 217	5 143	519	862	18 989	31 274
Drugstores	7 247	10 855	388	711	40	48	3 808	5 281
Liquor stores	1 234	511	60	32	14	—	692	252
Farm and garden supply stores	2 131	800	23	25	7	6	494	315
Jewelry stores	1 696	2 226	52	118	13	28	689	1 073
Fuel and ice dealers	2 154	547	48	17	12	—	608	195
Retail florists	1 685	2 351	26	48	8	35	845	953
Miscellaneous retail stores	9 959	8 849	322	373	68	83	4 556	4 131
Not specified retail trade	3 251	3 604	137	309	37	86	1 396	2 080
Retail trade—allocated	12 105	17 285	1 483	2 464	122	219	5 474	8 140
<b>Finance, insurance, and real estate</b>	<b>60 657</b>	<b>69 807</b>	<b>3 083</b>	<b>5 835</b>	<b>410</b>	<b>715</b>	<b>33 532</b>	<b>40 020</b>
Banking	11 599	25 274	646	2 059	91	220	6 454	13 492
Credit agencies	5 017	6 711	173	366	26	101	3 036	4 085
Security, commodity brokerage, and investment companies	3 246	1 901	54	71	12	25	2 019	1 385
Insurance	22 805	22 049	925	1 976	187	258	12 039	12 926
Real estate, including real estate—insurance—law offices	15 895	10 637	1 018	836	87	90	8 949	6 320
Finance, insurance, and real estate—allocated	2 095	3 235	267	527	7	21	1 035	1 812
<b>Business and repair services</b>	<b>57 969</b>	<b>25 569</b>	<b>5 117</b>	<b>2 634</b>	<b>635</b>	<b>226</b>	<b>33 216</b>	<b>16 231</b>
Business services	25 684	19 665	2 246	2 024	230	165	16 836	12 874
Advertising	4 124	2 614	102	67	60	23	3 096	2 043
Services to dwellings and other buildings	3 493	2 382	801	696	20	26	1 897	1 593
Commercial research, development, and testing labs	1 819	502	56	19	7	11	1 094	285
Employment and temporary help agencies	1 064	2 759	129	325	10	22	676	1 956
Business management and consulting services	3 390	2 483	169	158	35	7	2 391	1 569
Computer programming services	1 464	1 018	47	114	17	23	894	727
Detective and protective services	3 423	386	605	88	18	—	2 341	294
Business services, n.e.c.	6 907	7 521	337	557	63	53	4 427	4 405
Repair services	29 357	4 130	2 375	283	381	54	14 736	2 269
Automobile services, except repair	4 763	1 055	850	109	73	11	2 944	747
Automobile repair and related services	12 821	1 068	1 045	50	195	21	5 714	432
Electrical repair shops	3 877	594	206	55	68	8	2 047	351
Miscellaneous repair services	7 896	1 413	274	69	45	14	4 031	739
Business and repair services—allocated	2 928	1 774	496	327	24	7	1 644	1 088
<b>Personal services</b>	<b>30 935</b>	<b>85 250</b>	<b>3 946</b>	<b>20 417</b>	<b>403</b>	<b>826</b>	<b>14 759</b>	<b>39 928</b>
Private households	2 326	28 619	405	9 002	18	237	990	12 960
Hotels and motels	5 628	9 590	691	1 901	143	134	2 274	4 005
Lodging places, except hotels and motels	1 433	2 288	41	174	11	27	364	546
Laundry, cleaning, and other garment services	7 499	14 966	1 438	4 427	62	181	4 123	8 213
Beauty shops	1 584	17 337	94	1 266	23	178	945	7 893
Barber shops	6 103	359	660	56	105	8	2 882	194
Shoe repair shops	719	143	97	12	7	—	402	73
Dressmaking shops	149	731	5	66	—	16	88	271
Miscellaneous personal services	3 650	2 965	147	203	21	7	1 813	1 441
Personal services—allocated	1 844	8 252	368	3 310	13	38	878	4 328
<b>Entertainment and recreation services</b>	<b>12 730</b>	<b>8 947</b>	<b>1 078</b>	<b>529</b>	<b>135</b>	<b>110</b>	<b>7 019</b>	<b>4 712</b>
Theaters and motion pictures	3 447	2 386	211	109	29	30	2 012	1 362
Bowling alleys, and billiard and pool parlors	2 780	2 098	136	51	41	26	1 395	1 077
Miscellaneous entertainment and recreation services	5 583	3 810	609	292	57	54	3 140	1 981
Entertainment and recreation services—allocated	920	653	122	77	8	—	472	292
<b>Professional and related services</b>	<b>207 237</b>	<b>369 107</b>	<b>15 693</b>	<b>48 270</b>	<b>2 291</b>	<b>3 234</b>	<b>89 908</b>	<b>163 573</b>
Health services	44 623	146 969	5 313	25 936	799	1 509	21 422	68 220
Offices of physicians	7 466	14 495	256	738	199	161	4 044	7 550
Offices of dentists	3 955	6 197	123	125	18	29	2 048	3 259
Offices of chiropractors	523	204	—	5	6	—	185	61
Hospitals	25 740	98 220	4 315	19 950	512	1 017	12 224	45 857
Convalescent institutions	2 694	20 378	336	4 198	15	246	961	8 197
Offices of health practitioners, n.e.c.	908	855	11	28	6	—	451	411
Health services, n.e.c.	3 337	6 620	272	892	43	56	1 509	2 883
Legal services	6 846	5 855	170	279	16	28	4 300	3 180
Educational services	104 163	163 551	6 336	14 646	937	1 164	37 194	67 017
Elementary and secondary schools	62 693	122 125	4 644	11 843	492	784	28 326	56 742
Government	49 898	92 472	3 821	9 593	397	553	22 928	43 507
Private	12 795	29 653	823	2 250	95	231	5 398	13 235
Colleges and universities	38 810	34 169	1 440	2 286	416	349	7 569	7 435
Government	28 026	22 666	1 004	1 262	266	211	4 649	4 151
Private	10 784	11 503	436	1 024	150	138	2 920	3 286
Libraries	736	3 550	117	300	—	11	385	1 375
Educational services, n.e.c.	1 902	3 697	135	212	29	20	908	1 451
Not specified educational services	22	10	—	5	—	—	6	10
Museums, art galleries, and zoos	640	467	41	43	7	14	429	281
Religious organizations	11 067	7 264	594	429	95	51	4 332	3 572
Welfare services	3 822	7 187	672	1 583	57	117	1 971	3 447
Residential welfare facilities	294	903	36	158	—	7	128	361
Nonprofit membership organizations	6 099	5 899	657	802	61	65	3 221	1 293
Engineering and architectural services	12 385	2 028	228	51	182	26	8 430	2 595
Accounting, auditing, and bookkeeping services	5 845	4 700	114	231	36	36	3 352	2 872
Miscellaneous professional and related services	2 559	1 964	80	124	13	7	1 421	9 719
Professional and related services—allocated	8 894	22 320	1 452	3 988	88	210	3 708	—
<b>Public administration</b>	<b>82 292</b>	<b>42 662</b>	<b>9 008</b>	<b>9 658</b>	<b>760</b>	<b>405</b>	<b>42 020</b>	<b>21 709</b>
Postal service	17 782	8 184	3 425	2 626	139	62	9 047	4 770
Federal public administration	13 249	9 771	1 176	2 852	207	140	7 615	6 044
State public administration	11 535	8 084	460	1 066	53	85	2 456	2 215
Local public administration	37 928	14 760	3 600	2 451	346	89	22 078	7 657
Public administration—allocated	1 798	1 863	347	663	15	29	824	1 023

Table 184. Detailed Industry of Employed Persons by Race and Sex: 1970—Continued

(Data based on sample, see text. For meaning of symbols, see text)

The State  
Standard Metropolitan Statistical Areas  
of 250,000 or More

	Standard metropolitan statistical areas—Con.							
	Flint		Grand Rapids		Lansing		Toledo, Ohio-Mich.	
	Male	Female	Male	Female	Male	Female	Male	Female
<b>Total employed, 16 years old and over</b> .....	<b>117 434</b>	<b>59 132</b>	<b>127 690</b>	<b>76 183</b>	<b>91 823</b>	<b>57 608</b>	<b>169 497</b>	<b>96 186</b>
<b>Agriculture, forestry, and fisheries</b> .....	<b>1 912</b>	<b>292</b>	<b>3 397</b>	<b>554</b>	<b>3 307</b>	<b>409</b>	<b>3 471</b>	<b>629</b>
Agricultural production .....	1 540	182	2 743	419	2 894	246	2 560	460
Agricultural services, except horticultural .....	70	42	184	87	99	102	119	60
Horticultural services .....	98	12	206	4	119	23	326	10
Forestry .....	23	—	22	—	21	6	62	5
Fisheries .....	—	—	25	—	—	—	75	4
Agriculture, forestry, and fisheries—allocated .....	181	56	217	44	174	32	329	90
<b>Mining</b> .....	<b>167</b>	<b>14</b>	<b>209</b>	<b>9</b>	<b>199</b>	<b>45</b>	<b>408</b>	<b>39</b>
Metal mining .....	—	—	5	—	15	4	—	—
Coal mining .....	4	—	—	—	10	—	7	—
Crude petroleum and natural gas extractions .....	40	7	70	—	129	41	51	15
Nonmetallic mining and quarrying, except fuel .....	123	7	98	9	39	—	308	24
Mining—allocated .....	—	—	36	—	6	—	42	—
<b>Construction</b> .....	<b>6 559</b>	<b>364</b>	<b>9 964</b>	<b>617</b>	<b>7 967</b>	<b>695</b>	<b>13 011</b>	<b>877</b>
General building contractors .....	1 347	150	2 190	116	1 637	98	3 037	241
General contractors, except building .....	1 012	18	1 644	102	2 193	421	2 069	120
Special trade contractors .....	3 386	141	5 234	326	3 073	149	6 056	419
Not specified construction .....	405	24	354	58	403	7	987	78
Construction—allocated .....	409	31	542	15	661	20	862	19
<b>Manufacturing</b> .....	<b>68 568</b>	<b>12 223</b>	<b>50 659</b>	<b>17 322</b>	<b>30 781</b>	<b>6 332</b>	<b>72 117</b>	<b>17 457</b>
<b>Durable goods</b> .....	<b>65 489</b>	<b>10 835</b>	<b>40 246</b>	<b>11 414</b>	<b>27 881</b>	<b>4 782</b>	<b>57 838</b>	<b>12 382</b>
Lumber and wood products, except furniture .....	116	11	945	277	195	24	408	108
Logging .....	10	—	15	—	19	—	5	—
Sawmills, planing mills, and millwork .....	53	11	576	93	172	10	248	79
Miscellaneous wood products .....	53	—	354	184	4	14	155	29
Furniture and fixtures .....	83	23	7 064	1 799	133	52	1 215	413
Stone, clay, and glass products .....	296	73	847	161	596	330	10 145	2 344
Glass and glass products .....	15	10	213	123	382	277	8 002	1 837
Cement, concrete, gypsum, and plaster products .....	202	24	558	11	125	23	1 814	424
Structural clay products .....	—	—	16	9	46	12	42	6
Pottery and related products .....	75	34	—	4	—	9	49	3
Miscellaneous nonmetallic mineral and stone products .....	4	5	60	14	43	9	238	74
<b>Metal industries</b> .....	<b>3 000</b>	<b>604</b>	<b>10 374</b>	<b>3 128</b>	<b>2 858</b>	<b>624</b>	<b>11 996</b>	<b>1 790</b>
Primary metal industries .....	570	15	2 691	443	1 792	296	5 291	450
Blast furnaces, steelworks, rolling and finishing mills .....	33	—	62	4	35	—	1 056	69
Other primary iron and steel industries .....	518	15	851	95	1 424	70	1 870	88
Primary aluminum industries .....	19	—	524	100	284	187	842	203
Other primary nonferrous industries .....	—	—	1 254	244	49	37	1 523	90
Fabricated metal industries .....	2 430	589	7 683	2 685	1 066	326	6 705	1 340
Cutlery, handtools, and other hardware .....	467	220	1 397	754	14	33	418	38
Fabricated structural metal products .....	408	65	1 248	269	278	90	1 081	212
Screw-machine products .....	59	14	411	131	187	46	93	23
Metal stamping .....	1 172	234	1 926	476	118	98	3 378	697
Miscellaneous fabricated metal products .....	214	47	2 339	993	360	55	1 258	305
Not specified metal industries .....	110	9	362	62	109	4	477	65
<b>Machinery, except electrical</b> .....	<b>1 462</b>	<b>198</b>	<b>7 801</b>	<b>1 268</b>	<b>2 833</b>	<b>468</b>	<b>7 842</b>	<b>1 745</b>
Engines and turbines .....	46	—	516	121	71	47	71	—
Farm machinery and equipment .....	4	—	181	92	338	55	40	15
Construction and material-handling machines .....	73	3	874	145	238	55	871	124
Metalworking machinery .....	879	99	3 077	314	1 271	95	1 908	197
Office and accounting machines .....	29	5	332	174	11	11	1 110	261
Electronic computing equipment .....	80	23	74	25	54	19	48	35
Machinery, except electrical, n.e.c. .....	319	60	2 661	372	833	183	3 698	1 106
Not specified machinery .....	32	4	86	25	3	—	96	7
<b>Electrical machinery, equipment, and supplies</b> .....	<b>908</b>	<b>734</b>	<b>3 220</b>	<b>1 424</b>	<b>222</b>	<b>183</b>	<b>2 720</b>	<b>1 754</b>
Household appliances .....	10	4	1 972	560	22	—	181	50
Radio, television, and communication equipment .....	30	5	259	156	83	37	198	181
Electrical machinery, equipment, and supplies, n.e.c. .....	812	710	897	639	117	142	2 207	1 452
Not specified electrical machinery, equipment, and supplies .....	56	15	92	69	—	4	134	71
<b>Transportation equipment</b> .....	<b>55 973</b>	<b>8 514</b>	<b>5 855</b>	<b>1 806</b>	<b>19 018</b>	<b>2 754</b>	<b>19 602</b>	<b>2 689</b>
Motor vehicles and motor vehicle equipment .....	55 326	8 317	4 668	1 554	18 925	2 735	18 340	2 478
Aircraft and parts .....	47	4	635	151	27	4	682	133
Ship and boat building and repairing .....	20	6	450	58	5	—	464	29
Railroad locomotives and equipment .....	6	—	40	8	—	—	—	5
Mobile dwellings and campers .....	252	67	56	30	38	10	98	44
Cycles and miscellaneous transportation equipment .....	322	120	6	5	23	5	18	—
<b>Professional and photographic equipment, and watches</b> .....	<b>32</b>	<b>13</b>	<b>1 383</b>	<b>651</b>	<b>45</b>	<b>5</b>	<b>234</b>	<b>153</b>
Scientific and controlling instruments .....	10	—	1 234	556	3	—	10	7
Optical and health services supplies .....	22	13	84	24	20	—	110	116
Photographic equipment and supplies .....	—	—	18	5	22	5	114	30
Watches, clocks, and clockwork-operated devices .....	—	—	43	61	—	—	—	—
Not specified professional equipment .....	—	—	4	5	—	—	—	—
<b>Ordnance</b> .....	<b>17</b>	<b>3</b>	<b>11</b>	<b>5</b>	<b>—</b>	<b>—</b>	<b>64</b>	<b>36</b>
Miscellaneous manufacturing industries .....	395	73	1 052	297	293	48	890	724
Manufacturing—allocated .....	3 207	589	1 694	598	1 688	294	2 722	626
<b>Nondurable goods</b> .....	<b>2 934</b>	<b>1 345</b>	<b>10 080</b>	<b>5 806</b>	<b>2 824</b>	<b>1 498</b>	<b>13 922</b>	<b>4 940</b>
<b>Food and kindred products</b> .....	<b>724</b>	<b>246</b>	<b>2 350</b>	<b>1 021</b>	<b>958</b>	<b>227</b>	<b>2 666</b>	<b>943</b>
Meat products .....	113	32	290	120	66	14	144	83
Dairy products .....	164	38	329	27	312	60	376	70
Canning and preserving fruits, vegetables, and seafoods .....	64	82	308	162	84	29	487	197
Grain-mill products .....	15	—	111	9	200	51	563	177
Bakery products .....	87	19	865	478	132	35	412	163
Confectionery and related products .....	—	—	86	125	—	—	10	10
Beverage industries .....	176	66	262	46	111	16	447	50
Miscellaneous food preparation and kindred products .....	27	9	65	40	31	12	128	138
Not specified food industries .....	78	—	34	14	22	10	99	55
<b>Tobacco manufactures</b> .....	<b>76</b>	<b>6</b>	<b>3</b>	<b>4</b>	<b>—</b>	<b>—</b>	<b>142</b>	<b>99</b>
<b>Textile mill products</b> .....	<b>165</b>	<b>17</b>	<b>458</b>	<b>269</b>	<b>25</b>	<b>10</b>	<b>670</b>	<b>102</b>
Knitting mills .....	—	—	5	—	3	—	—	20
Dyeing and finishing textiles, except wool and knit goods .....	—	—	36	56	—	—	—	—
Floor coverings, except hard surface .....	15	—	5	6	—	—	4	—
Yarn, thread, and fabric mills .....	41	—	87	55	12	10	171	39
Miscellaneous textile mill products .....	109	17	325	152	10	—	495	43
Apparel and other fabricated textile products .....	118	252	503	790	49	58	171	457
Apparel and accessories .....	9	17	145	378	39	25	62	243
Miscellaneous fabricated textile products .....	109	235	358	412	10	33	109	214

Table 184. Detailed Industry of Employed Persons by Race and Sex: 1970—Continued

[Data based on sample, see text. For meaning of symbols, see text]

The State  
Standard Metropolitan Statistical Areas  
of 250,000 or More

	Standard metropolitan statistical areas—Con.							
	Flint		Grand Rapids		Lansing		Toledo, Ohio-Mich.	
	Male	Female	Male	Female	Male	Female	Male	Female
<b>Manufacturing—Continued</b>								
<b>Nondurable goods—Continued</b>								
Paper and allied products	203	125	1 141	441	102	13	2 303	753
Pulp, paper, and paperboard mills	5	10	315	123	38	5	863	135
Miscellaneous paper and pulp products	11	—	84	41	31	—	356	219
Paperboard containers and boxes	187	115	742	277	33	8	1 084	306
Printing, publishing, and allied industries	688	368	2 190	1 353	1 068	770	2 099	750
Newspaper publishing and printing	511	231	648	261	548	419	1 197	414
Printing, publishing, and allied industries, except newspapers	177	137	1 542	1 092	520	351	902	336
Chemicals and allied products	666	80	1 650	752	177	57	2 108	350
Industrial chemicals	38	6	298	33	4	—	315	29
Plastics, synthetics and resins, except fibers	4	10	22	25	16	—	516	52
Synthetic fibers	—	—	4	—	3	—	10	—
Drugs and medicines	41	5	333	160	34	4	85	4
Soaps and cosmetics	55	13	456	409	10	5	247	89
Paints, varnishes, and related products	476	46	329	76	17	—	386	57
Agricultural chemicals	—	—	21	9	66	9	116	10
Miscellaneous chemicals	14	—	84	24	10	24	114	56
Not specified chemicals and allied products	38	—	103	16	17	15	324	43
Petroleum and coal products	12	—	60	6	46	—	1 818	144
Petroleum refining	12	—	33	6	27	—	1 752	135
Miscellaneous petroleum and coal products	—	—	27	—	19	—	66	9
Rubber and miscellaneous plastic products	90	134	588	345	225	217	1 312	956
Rubber products	9	—	296	176	53	11	667	282
Miscellaneous plastic products	81	134	292	169	172	206	645	674
Leather and leather products	4	—	743	527	11	17	35	22
Tanned, curried, and finished leather	—	—	269	102	—	—	14	—
Footwear, except rubber	—	—	453	425	6	17	10	19
Leather products, except footwear	4	—	21	—	5	—	11	3
Manufacturing, nondurable goods—allocated	188	117	394	298	163	129	598	364
<b>Not specified manufacturing industries</b>	<b>145</b>	<b>43</b>	<b>333</b>	<b>102</b>	<b>76</b>	<b>52</b>	<b>357</b>	<b>135</b>
<b>Transportation, communications, and other public utilities</b>	<b>4 585</b>	<b>1 829</b>	<b>8 386</b>	<b>2 609</b>	<b>4 122</b>	<b>1 452</b>	<b>16 544</b>	<b>3 390</b>
<b>Transportation</b>	<b>2 449</b>	<b>780</b>	<b>5 252</b>	<b>1 111</b>	<b>1 804</b>	<b>600</b>	<b>11 295</b>	<b>1 448</b>
Railroads and railway express service	504	26	1 352	83	376	5	4 465	188
Street railways and bus lines	123	465	378	401	172	300	460	544
Taxicab service	76	33	93	4	52	48	193	34
Trucking service	1 536	146	2 841	430	996	121	4 362	423
Warehousing and storage	109	64	275	85	85	43	414	87
Water transportation	11	4	65	—	6	—	1 055	35
Air transportation	68	20	188	29	98	16	246	45
Pipelines, except natural gas	6	—	—	—	—	—	37	—
Services incidental to transportation	16	22	60	79	19	67	93	90
<b>Communications</b>	<b>768</b>	<b>793</b>	<b>1 268</b>	<b>1 127</b>	<b>847</b>	<b>570</b>	<b>1 480</b>	<b>1 323</b>
Radio broadcasting and television	199	74	376	110	200	36	373	59
Telephone (wire and radio)	569	694	888	986	631	523	1 028	1 213
Telegraph and miscellaneous communication services	—	25	4	31	16	11	79	51
<b>Utilities and sanitary services</b>	<b>1 103</b>	<b>170</b>	<b>1 588</b>	<b>288</b>	<b>1 311</b>	<b>219</b>	<b>3 196</b>	<b>465</b>
Electric light and power	273	60	711	111	217	36	1 451	226
Electric-gas utilities	407	73	213	48	677	130	192	32
Gas and steam supply systems	77	3	264	91	75	13	422	126
Water supply	120	16	178	20	154	23	455	56
Sanitary services	226	18	203	18	183	10	656	25
Other and not specified utilities	—	—	19	—	5	7	20	—
<b>Transportation, communications, and other public utilities—allocated</b>	<b>265</b>	<b>86</b>	<b>278</b>	<b>83</b>	<b>160</b>	<b>63</b>	<b>573</b>	<b>156</b>
<b>Wholesale and retail trade</b>	<b>16 813</b>	<b>14 363</b>	<b>27 170</b>	<b>19 508</b>	<b>15 989</b>	<b>12 165</b>	<b>29 261</b>	<b>24 545</b>
<b>Wholesale trade</b>	<b>4 240</b>	<b>1 304</b>	<b>9 187</b>	<b>2 607</b>	<b>3 617</b>	<b>899</b>	<b>8 331</b>	<b>2 431</b>
Motor vehicles and equipment	1 530	346	683	171	410	70	874	157
Drugs, chemicals, and allied products	56	33	409	162	154	96	405	156
Dry goods and apparel	6	3	115	52	30	—	37	47
Food and related products	692	194	2 296	763	730	102	1 154	293
Farm products—raw materials	43	14	56	22	47	9	379	62
Electrical goods	225	65	454	203	170	10	473	182
Hardware, plumbing, and heating supplies	127	79	344	86	167	68	427	151
Not specified electrical and hardware products	—	—	—	—	10	—	19	12
Machinery, equipment, and supplies	493	191	1 597	369	719	143	1 342	421
Metals and minerals, n.e.c.	58	20	289	52	123	20	480	101
Petroleum products	191	51	255	47	140	46	369	69
Scrap and waste materials	71	8	228	25	155	4	310	85
Alcoholic beverages	109	12	161	34	89	10	229	36
Paper and its products	77	25	220	25	70	35	267	48
Lumber and construction materials	101	36	736	87	172	24	426	110
Wholesalers, n.e.c.	255	122	881	351	268	157	728	357
Not specified wholesale trade	20	9	191	46	32	10	214	64
Wholesale trade—allocated	186	96	272	112	131	95	198	80
<b>Retail trade</b>	<b>12 573</b>	<b>13 059</b>	<b>17 983</b>	<b>16 901</b>	<b>12 372</b>	<b>11 266</b>	<b>20 930</b>	<b>22 114</b>
Lumber and building material retailing	599	257	780	124	517	102	778	108
Hardware and farm equipment stores	284	98	351	165	272	98	382	140
General merchandise stores	1 091	3 168	1 867	4 647	1 391	3 001	2 139	6 160
Department and mail-order establishments	754	2 258	1 216	3 432	1 100	2 114	1 604	4 622
Limited-price variety stores	74	343	120	488	97	374	140	665
Vending machine operators	145	34	287	95	95	35	161	107
Direct-selling establishments	92	343	190	460	82	282	121	497
Miscellaneous general merchandise stores	26	190	54	172	17	196	113	269
<b>Food stores</b>	<b>2 424</b>	<b>1 561</b>	<b>3 836</b>	<b>2 607</b>	<b>1 799</b>	<b>1 217</b>	<b>3 776</b>	<b>2 813</b>
Grocery stores	2 171	1 293	3 366	2 077	1 578	911	3 273	2 256
Dairy products stores	66	22	87	51	57	45	92	135
Retail bakeries	114	192	202	415	91	184	211	283
Food stores, n.e.c.	73	54	181	64	73	77	200	139
Motor vehicle dealers	1 491	202	1 519	224	1 278	147	2 107	284
Tire, battery, and accessory dealers	262	77	307	53	176	26	380	86
Gasoline service stations	1 485	161	1 699	87	1 362	61	2 424	180



Table 184. Detailed Industry of Employed Persons by Race and Sex: 1970—Continued

[Data based on sample, see text. For meaning of symbols, see text]

The State Standard Metropolitan Statistical Areas of 250,000 or More	Standard metropolitan statistical areas—Con.							
	Flint		Grand Rapids		Lansing		Toledo, Ohio-Mich.	
	Male	Female	Male	Female	Male	Female	Male	Female
<b>Wholesale and retail trade—Continued</b>								
<b>Retail trade—Continued</b>								
Miscellaneous vehicle dealers.....	163	23	264	39	138	35	186	23
Apparel and accessories stores, except shoe stores.....	349	1 259	553	1 253	429	968	437	1 179
Shoe stores.....	157	105	221	111	177	135	313	195
Furniture and home furnishings stores.....	490	270	643	263	407	163	595	285
Household appliances, television, and radio stores.....	392	188	548	187	269	102	514	193
Eating and drinking places.....	1 534	3 176	2 479	4 296	1 995	2 957	3 135	6 503
Drug stores.....	387	773	448	687	269	394	709	971
Liquor stores.....	58	34	81	10	11	30	162	48
Farm and garden supply stores.....	83	22	163	67	155	44	227	72
Jewelry stores.....	99	98	176	212	122	131	275	281
Fuel and ice dealers.....	80	33	92	22	119	14	147	9
Retail florists.....	69	142	140	217	64	119	189	250
Miscellaneous retail stores.....	440	398	814	611	694	600	747	703
Not specified retail trade.....	103	102	252	110	220	128	333	229
Retail trade—allocated.....	533	912	750	909	508	794	975	1 402
<b>Finance, insurance, and real estate</b>	<b>2 436</b>	<b>2 876</b>	<b>4 410</b>	<b>4 504</b>	<b>3 267</b>	<b>3 638</b>	<b>4 580</b>	<b>4 941</b>
Banking.....	447	1 264	641	1 615	586	1 098	848	1 773
Credit agencies.....	213	226	310	324	164	274	414	534
Security, commodity brokerage, and investment companies.....	97	42	285	191	103	73	248	131
Insurance.....	905	677	2 103	1 652	1 465	1 485	1 742	1 367
Real estate, including real estate—insurance—low offices.....	722	540	935	577	848	566	1 128	882
Finance, insurance, and real estate—allocated.....	52	127	136	145	97	142	200	254
<b>Business and repair services</b>	<b>2 153</b>	<b>1 071</b>	<b>4 378</b>	<b>1 715</b>	<b>2 186</b>	<b>1 217</b>	<b>4 641</b>	<b>2 040</b>
Business services.....	738	801	1 762	1 327	956	1 884	1 884	1 542
Advertising.....	62	60	247	162	137	79	183	74
Services to dwellings and other buildings.....	124	60	379	230	122	84	270	253
Commercial research, development, and testing labs.....	42	22	27	12	37	12	131	24
Employment and temporary help agencies.....	34	88	76	151	65	121	114	236
Business management and consulting services.....	120	173	292	156	121	128	215	302
Computer programming services.....	24	41	49	37	48	26	74	17
Detective and protective services.....	88	33	257	9	97	15	277	60
Business services, n.e.c.....	244	324	435	570	323	491	620	576
Repair services.....	1 287	181	2 398	286	1 081	182	2 525	390
Automobile services, except repair.....	292	55	429	54	147	47	385	100
Automobile repair and related services.....	545	47	1 023	83	433	66	985	58
Electrical repair shops.....	169	53	298	29	197	—	415	60
Miscellaneous repair services.....	281	26	648	120	304	69	740	172
Business and repair services—allocated.....	128	89	218	102	155	79	232	108
<b>Personal services</b>	<b>1 365</b>	<b>4 145</b>	<b>2 139</b>	<b>5 215</b>	<b>1 481</b>	<b>3 847</b>	<b>2 569</b>	<b>7 736</b>
Private households.....	65	1 416	124	1 562	157	1 172	169	2 194
Hotels and motels.....	100	303	488	628	342	545	436	1 126
Lodging places, except hotels and motels.....	95	122	98	131	101	228	51	201
Laundering, cleaning, and other garment services.....	344	788	581	1 031	288	635	556	1 337
Beauty shops.....	84	965	101	1 201	41	794	175	1 614
Barber shops.....	426	18	374	9	238	8	594	62
Shoe repair shops.....	48	—	34	12	15	5	98	26
Dressmaking shops.....	—	59	11	63	7	18	8	69
Miscellaneous personal services.....	140	184	266	189	196	160	329	304
Personal services—allocated.....	63	290	62	389	96	282	153	803
<b>Entertainment and recreation services</b>	<b>501</b>	<b>524</b>	<b>683</b>	<b>585</b>	<b>532</b>	<b>359</b>	<b>1 178</b>	<b>879</b>
Theaters and motion pictures.....	114	63	175	156	177	108	226	150
Bowling alleys, and billiard and pool parlors.....	133	135	155	104	125	52	249	240
Miscellaneous entertainment and recreation services.....	218	250	309	284	213	193	654	447
Entertainment and recreation services—allocated.....	36	76	44	41	17	6	49	42
<b>Professional and related services</b>	<b>9 297</b>	<b>19 682</b>	<b>12 280</b>	<b>22 230</b>	<b>16 148</b>	<b>21 936</b>	<b>15 632</b>	<b>31 467</b>
Health services.....	2 203	8 818	2 770	9 057	1 888	5 841	2 958	12 516
Offices of physicians.....	443	956	497	824	311	599	583	1 014
Offices of dentists.....	158	286	287	354	294	237	237	409
Offices of chiropractors.....	34	6	54	19	16	10	38	31
Hospitals.....	1 040	5 688	1 470	5 425	756	3 396	1 722	8 759
Convalescent institutions.....	300	1 471	219	1 911	70	688	65	1 582
Offices of health practitioners, n.e.c.....	49	58	44	48	33	48	66	85
Health services, n.e.c.....	179	353	199	476	509	805	247	636
Legal services.....	235	170	368	431	191	240	686	549
Educational services.....	4 815	8 404	5 772	9 457	11 265	12 886	7 729	13 998
Elementary and secondary schools.....	3 821	7 480	4 132	7 428	2 770	5 756	4 449	9 577
Government.....	2 891	5 407	2 877	5 188	2 243	4 437	3 475	6 943
Private.....	930	2 073	1 255	2 240	527	1 319	974	2 634
Colleges and universities.....	868	545	1 486	1 395	8 221	6 510	3 160	3 595
Government.....	405	299	406	354	7 173	5 305	2 720	2 922
Private.....	463	246	1 080	1 041	1 048	1 205	440	673
Libraries.....	43	182	50	308	31	297	69	555
Educational services, n.e.c.....	83	197	104	326	243	323	51	271
Not specified educational services.....	—	—	—	—	—	—	—	—
Museums, art galleries, and zoos.....	6	9	50	45	28	5	84	52
Religious organizations.....	588	338	1 149	722	575	285	856	716
Welfare services.....	145	344	216	451	322	467	405	718
Residential welfare facilities.....	17	34	27	98	44	83	40	105
Nonprofit membership organizations.....	294	268	306	392	408	496	611	609
Engineering and architectural services.....	356	39	634	158	379	57	992	136
Accounting, auditing, and bookkeeping services.....	150	278	375	369	365	226	530	294
Miscellaneous professional and related services.....	82	69	151	98	169	190	158	187
Professional and related services—allocated.....	406	911	462	952	514	1 160	583	1 587
<b>Public administration</b>	<b>3 078</b>	<b>1 749</b>	<b>4 015</b>	<b>1 315</b>	<b>5 844</b>	<b>5 513</b>	<b>6 085</b>	<b>2 186</b>
Postal service.....	559	556	1 290	258	753	339	1 827	529
Federal public administration.....	234	144	437	233	575	417	805	405
State public administration.....	316	220	430	111	2 764	3 884	391	216
Local public administration.....	1 892	779	1 769	691	1 604	672	2 905	988
Public administration—allocated.....	77	50	89	22	148	201	157	48

Table 185. Industry of the Experienced Civilian Labor Force by Race and Sex, and Weeks Worked in 1969 and Experienced Workers Not in the Labor Force by Sex: 1970

[Data based on sample, see text. For meaning of symbols, see text]

The State Standard Metropolitan Statistical Areas of 250,000 or More	Experienced civilian labor force				Weeks worked in 1969 of the experienced civilian labor force				Year last worked of experienced workers not in labor force		
	Total	White	Negro	Persons of Spanish language	Total	50 to 52 weeks	27 to 49 weeks	1 to 26 weeks	1960-63	1964-68	1969-70
<b>THE STATE</b>	<b>2 203 876</b>	<b>1 983 761</b>	<b>210 780</b>	<b>27 640</b>	<b>2 176 068</b>	<b>1 524 767</b>	<b>491 522</b>	<b>159 779</b>	<b>50 613</b>	<b>127 497</b>	<b>218 773</b>
Male, 16 years old and over	2 203 876	1 983 761	210 780	27 640	2 176 068	1 524 767	491 522	159 779	50 613	127 497	218 773
<b>Agriculture, forestry, and fisheries</b>	<b>53 034</b>	<b>51 622</b>	<b>1 233</b>	<b>838</b>	<b>51 766</b>	<b>37 482</b>	<b>8 423</b>	<b>5 861</b>	<b>2 492</b>	<b>6 112</b>	<b>16 374</b>
Agriculture	51 674	50 314	1 189	831	50 452	36 591	8 118	5 743	2 413	5 902	15 895
Forestry and fisheries	1 360	1 308	34	7	1 314	891	305	118	79	210	479
<b>Mining</b>	<b>13 906</b>	<b>13 642</b>	<b>235</b>	<b>85</b>	<b>13 680</b>	<b>10 032</b>	<b>2 783</b>	<b>865</b>	<b>710</b>	<b>1 407</b>	<b>1 156</b>
<b>Construction</b>	<b>168 269</b>	<b>155 914</b>	<b>11 670</b>	<b>1 559</b>	<b>166 338</b>	<b>92 121</b>	<b>62 450</b>	<b>11 767</b>	<b>3 997</b>	<b>9 828</b>	<b>18 882</b>
<b>Manufacturing</b>	<b>997 549</b>	<b>869 979</b>	<b>124 878</b>	<b>15 455</b>	<b>988 249</b>	<b>733 629</b>	<b>209 594</b>	<b>45 026</b>	<b>25 837</b>	<b>62 946</b>	<b>66 280</b>
Durable goods	844 167	726 156	115 222	13 345	836 479	615 019	185 151	36 309	22 114	54 034	52 688
Logging	3 148	3 070	42	35	3 076	1 379	1 313	384	117	338	538
Sawmills, planing mills, and millwork	6 067	5 970	103	66	5 980	1 865	1 452	663	221	330	682
Miscellaneous wood products	4 031	3 790	222	66	3 943	2 730	738	475	97	256	372
Furniture and fixtures	16 315	15 590	677	277	16 150	12 402	2 873	875	487	1 051	1 197
Stone, clay, and glass products	16 022	14 751	1 221	284	15 895	11 510	3 628	757	315	897	1 170
Cement, concrete, gypsum, and plaster products	7 374	6 943	404	101	7 330	5 317	1 721	292	131	480	503
Primary iron and steel industries	53 047	49 119	9 711	2 177	52 585	39 198	10 867	2 520	1 231	3 383	3 735
Primary nonferrous industries	16 712	15 425	1 265	315	16 564	12 740	2 943	881	354	925	1 056
Fabricated metal industries, including not specified metal	71 597	66 656	4 752	987	71 047	53 102	14 501	3 444	1 117	3 099	4 493
Machinery, except electrical	143 842	137 412	6 061	1 483	142 962	109 083	28 078	5 801	2 545	5 758	7 135
Office, accounting, and computing machines	8 650	8 221	385	56	8 620	7 163	1 203	254	162	297	319
Electrical machinery, equipment, and supplies	24 544	25 500	905	269	26 315	20 203	4 864	1 248	594	1 310	1 872
Radio, television, and communication equipment	3 471	3 306	150	33	3 439	2 544	517	172	52	126	196
Motor vehicles and motor vehicle equipment	400 690	323 199	76 212	6 413	397 934	289 310	94 920	13 704	12 200	31 691	21 639
Aircraft and parts	6 365	6 203	144	77	6 305	4 929	1 133	243	77	301	423
Other transportation equipment	10 625	10 375	205	139	10 482	7 287	2 448	747	258	522	834
Professional and photographic equipment, and watches	5 959	5 795	132	28	5 929	4 874	763	292	76	152	278
Ordnance	3 434	3 187	230	25	3 412	2 842	475	95	73	138	183
Miscellaneous manufactures and durable goods—allocated	59 789	46 125	13 340	770	57 900	39 565	14 155	4 180	2 253	3 683	7 081
Nondurable goods	148 641	138 999	9 165	2 080	147 134	115 421	23 376	8 337	3 572	8 515	13 092
Meat products	3 988	3 225	736	148	3 941	2 914	727	300	98	198	396
Canning and preserving produce, seafoods, and beverages	9 519	8 636	842	299	9 454	6 926	1 699	829	231	696	1 669
Bakery products	4 239	3 684	543	154	4 197	3 140	773	284	70	193	314
Other food industries	14 139	13 401	715	180	14 026	10 855	2 379	792	411	994	1 084
Yarn, thread, and fabric mills	642	571	71	11	633	471	119	43	86	67	110
Other textile mill products	1 115	1 035	76	23	1 099	829	199	71	14	80	108
Apparel and other fabricated textile products	4 580	4 098	482	119	4 515	3 293	1 006	216	96	201	302
Paper and allied products	22 169	21 370	754	173	22 039	17 285	3 779	975	541	1 110	1 479
Printing, publishing, and allied industries	26 054	25 009	988	265	25 783	20 014	3 923	1 846	433	1 557	2 343
Chemicals and allied products	31 275	29 989	1 149	284	31 099	26 819	3 363	917	731	1 592	1 670
Petroleum and coal products	6 229	6 056	141	81	6 205	5 402	638	165	111	283	309
Rubber and miscellaneous plastic products	14 326	12 928	1 369	241	14 128	10 737	2 580	811	285	797	1 272
Footwear, except rubber	1 301	1 277	13	20	1 284	990	260	34	31	102	116
Other nondurable goods	9 065	7 720	1 286	82	8 731	5 746	1 931	1 054	374	645	1 920
Not specified manufacturing industries	4 721	4 224	491	30	4 636	3 189	1 067	380	151	337	500
<b>Transportation, communications, and other public utilities<sup>1</sup></b>	<b>134 340</b>	<b>123 283</b>	<b>10 578</b>	<b>1 464</b>	<b>133 159</b>	<b>99 501</b>	<b>27 405</b>	<b>6 253</b>	<b>3 733</b>	<b>8 337</b>	<b>9 524</b>
Railroads and railway express service	18 374	17 462	833	282	18 226	14 274	3 334	618	1 123	2 294	1 285
Street railways and bus lines	6 384	4 874	1 485	38	6 358	4 378	1 606	374	237	445	525
Trucking service and warehousing	38 455	36 504	1 817	499	38 212	26 301	10 021	1 890	570	1 740	2 395
Water transportation	2 583	2 339	211	—	2 538	1 028	1 190	320	1 321	721	494
Air transportation	5 062	4 695	346	84	5 015	3 980	778	257	41	99	251
All other transportation	4 190	3 457	720	36	4 153	2 390	1 340	423	146	401	579
Communications	19 781	18 741	983	173	19 612	16 362	2 534	716	257	656	802
Electric and gas utilities	24 895	23 716	1 143	190	24 756	20 050	3 984	722	590	1 251	1 187
Water supply, sanitary services, and other utilities	8 820	6 643	2 148	83	8 735	6 925	1 340	470	363	673	891
<b>Wholesale and retail trade</b>	<b>369 184</b>	<b>346 043</b>	<b>21 660</b>	<b>3 335</b>	<b>361 760</b>	<b>238 174</b>	<b>74 705</b>	<b>48 881</b>	<b>5 802</b>	<b>16 602</b>	<b>51 300</b>
Wholesale trade	95 647	89 303	6 027	947	94 858	74 223	15 272	5 363	1 491	3 508	6 686
Food and farm products	19 592	18 033	1 508	301	19 419	15 157	3 073	1 189	392	880	1 840
Retail trade	273 537	256 740	15 633	2 388	266 902	163 951	59 433	43 518	4 311	13 094	44 614
Hardware, farm equipment, and building material retailing	18 073	17 655	394	54	17 894	13 309	3 172	1 413	435	990	1 607
General merchandise stores	26 536	24 493	1 985	186	26 078	17 631	5 028	3 419	360	1 141	3 947
Food stores	47 982	45 161	2 697	539	46 776	28 193	10 318	8 265	821	2 184	7 505
Motor vehicles and accessories retailing	34 578	32 858	1 635	242	34 237	25 449	6 000	2 788	425	1 250	2 564
Gasoline service stations	32 227	30 545	1 605	234	30 989	15 867	8 431	6 691	284	1 221	5 359
Apparel and accessories stores	11 558	10 579	920	116	11 385	6 732	2 727	1 926	213	533	2 287
Furniture, home furnishings, and equipment stores	17 635	16 680	894	97	17 487	12 609	3 460	1 418	183	795	1 565
Eating and drinking places	40 783	37 701	2 532	590	38 914	17 226	10 764	10 924	695	2 622	10 623
Drugstores	7 516	7 082	413	40	7 412	4 566	1 559	1 287	83	295	1 181
Other retail trade	36 649	33 986	2 558	290	35 730	22 369	7 974	5 387	812	2 063	7 976
<b>Finance, insurance, and real estate</b>	<b>61 673</b>	<b>58 326</b>	<b>3 228</b>	<b>416</b>	<b>61 217</b>	<b>48 717</b>	<b>9 449</b>	<b>3 051</b>	<b>1 100</b>	<b>2 686</b>	<b>4 457</b>
Banking and credit agencies	16 792	15 919	840	117	16 706	13 936	1 929	841	290	611	956
Insurance	22 993	21 997	958	187	22 892	19 293	2 982	617	333	364	782
Other finance and real estate	21 888	20 410	1 430	112	21 619	15 486	4 538	1 593	477	1 311	2 719
<b>Business and repair services</b>	<b>61 174</b>	<b>55 158</b>	<b>5 705</b>	<b>656</b>	<b>59 985</b>	<b>39 818</b>	<b>13 654</b>	<b>6 513</b>	<b>943</b>	<b>2 765</b>	<b>6 679</b>
Advertising	4 228	4 100	106	60	4 194	3 343	588	263	69	135	288
Commercial research, management, and programing services	6 958	6 634	281	67	6 893	5 247	1 124	522	30	137	438
Automobile services	18 566	16 328	2 106	281	18 030	11 400	4 286	2 344	335	865	2 055
Other business and repair services	31 422	28 096	3 212	448	30 868	19 828	7 656	3 384	509	1 628	3 898
<b>Personal services</b>	<b>32 664</b>	<b>28 274</b>	<b>4 252</b>	<b>440</b>	<b>31 997</b>	<b>19 794</b>	<b>7 445</b>	<b>4 758</b>	<b>1 234</b>	<b>3 261</b>	<b>7 675</b>
Private households	2 488	2 189	457	25	2 523	958	586	979	209	472	1 783
Hotels and lodging places	7 828	6 989	823	167	7 675	3 709	2 163	1 803	363	1 145	3 308
Laundry, cleaning, and other garment services	7 808	6 225	1 548	71	7 677	5 485	1 306	886	232	709	907
Barber and beauty shops	7 721	6 955	759	136	7 598	5 223	2 053	322	165	414	430
Other personal services	6 619	5 916	665	41	6 524	4 419	1 337	768	265	521	1 247
<b>Entertainment and recreation services</b>	<b>14 175</b>	<b>12 880</b>	<b>1 258</b>	<b>161</b>	<b>13 775</b>	<b>6 575</b>	<b>4 284</b>	<b>2 916</b>	<b>247</b>	<b>1 294</b>	<b>6 333</b>
<b>Professional and related services</b>	<b>211 981</b>	<b>193 193</b>	<b>16 478</b>	<b>2 410</b>	<b>209 521</b>	<b>126 69</b>					

Table 185. Industry of the Experienced Civilian Labor Force by Race and Sex, and Weeks Worked in 1969 and Experienced Workers Not in the Labor Force by Sex: 1970—Continued

[Data based on sample, see text. For meaning of symbols, see text]

The State Standard Metropolitan Statistical Areas of 250,000 or More	Experienced civilian labor force				Weeks worked in 1969 of the experienced civilian labor force				Year last worked of experienced workers not in labor force		
	Total	White	Negro	Persons of Spanish language	Total	50 to 52 weeks	27 to 49 weeks	1 to 26 weeks	1960-63	1964-68	1969-70
<b>THE STATE—Continued</b>											
<b>Female, 16 years old and over</b>	<b>1 238 577</b>	<b>1 083 570</b>	<b>148 633</b>	<b>12 984</b>	<b>1 178 191</b>	<b>563 700</b>	<b>385 183</b>	<b>229 308</b>	<b>116 000</b>	<b>307 826</b>	<b>340 419</b>
<b>Agriculture, forestry, and fisheries</b>	<b>8 691</b>	<b>7 916</b>	<b>666</b>	<b>232</b>	<b>7 983</b>	<b>3 891</b>	<b>1 897</b>	<b>2 195</b>	<b>887</b>	<b>2 812</b>	<b>6 175</b>
Agriculture	8 546	7 771	666	225	7 843	3 804	1 874	2 165	858	2 737	6 074
Forestry and fisheries	145	145	—	7	140	87	23	30	29	75	101
<b>Mining</b>	<b>977</b>	<b>930</b>	<b>47</b>	<b>—</b>	<b>960</b>	<b>642</b>	<b>185</b>	<b>133</b>	<b>108</b>	<b>174</b>	<b>192</b>
<b>Construction</b>	<b>10 762</b>	<b>10 003</b>	<b>741</b>	<b>80</b>	<b>10 384</b>	<b>6 399</b>	<b>2 565</b>	<b>1 420</b>	<b>858</b>	<b>2 052</b>	<b>2 689</b>
<b>Manufacturing</b>	<b>249 413</b>	<b>223 999</b>	<b>24 229</b>	<b>3 246</b>	<b>240 964</b>	<b>134 139</b>	<b>72 920</b>	<b>33 905</b>	<b>24 058</b>	<b>63 977</b>	<b>55 644</b>
Durable goods	173 231	154 404	18 115	1 994	167 845	95 241	51 074	21 530	15 633	40 924	33 543
Logging	105	99	6	—	85	35	21	29	9	—	58
Sawmills, planing mills, and millwork	1 115	1 075	38	6	1 046	496	346	204	66	228	329
Miscellaneous wood products	1 123	1 058	53	6	1 045	524	325	196	113	235	306
Furniture and fixtures	6 204	5 758	430	154	6 003	3 387	1 738	878	508	1 452	1 268
Stone, clay, and glass products	4 486	3 944	528	62	4 339	2 424	1 221	694	389	945	1 119
Cement, concrete, gypsum, and plaster products	522	499	23	—	512	318	130	64	55	120	151
Primary iron and steel industries	4 460	4 086	370	53	4 386	2 613	1 298	475	344	1 002	790
Primary nonferrous industries	4 489	4 142	313	88	4 335	2 498	1 213	624	279	1 124	938
Fabricated metal industries, including not specified metal	21 273	19 969	1 233	324	20 746	11 109	6 587	3 050	1 835	5 486	4 698
Machinery, except electrical	25 767	24 420	1 223	236	25 119	15 242	6 754	3 123	2 004	5 275	4 201
Office, accounting, and computing machines	4 455	4 087	358	54	4 402	2 692	1 321	389	497	875	562
Electrical machinery, equipment, and supplies	15 928	14 973	864	227	15 460	8 492	4 714	2 254	1 726	5 045	3 747
Radio, television, and communication equipment	2 687	2 386	291	31	2 616	1 599	590	427	369	1 142	881
Motor vehicles and motor vehicle equipment	64 325	54 000	10 096	590	63 434	37 088	20 153	6 193	5 759	14 156	9 356
Aircraft and parts	1 724	1 619	98	13	1 694	1 042	505	147	241	483	338
Other transportation equipment	1 793	1 723	70	4	1 709	869	538	302	140	466	495
Professional and photographic equipment, and watches	3 149	3 014	115	41	3 061	1 734	893	434	315	732	603
Ordnance	6 745	555	120	8	6 42	374	166	102	138	275	160
Miscellaneous manufactures and durable goods—allocated	16 615	13 969	2 558	182	14 741	7 314	4 602	2 825	1 767	4 020	5 137
Nondurable goods	74 211	67 883	5 867	1 312	71 210	38 019	21 200	11 991	8 109	22 427	21 443
Meat products	1 719	1 430	260	89	1 665	877	494	294	191	498	520
Canning and preserving produce, seafoods, and beverages	4 660	4 199	415	247	4 451	1 587	1 461	1 403	924	2 237	3 003
Bakery products	2 154	1 967	187	46	2 057	1 092	669	296	270	640	554
Other food industries	4 944	4 682	243	50	4 826	2 638	1 490	698	559	1 246	1 052
Yarn, thread, and fabric mills	536	460	76	—	489	194	180	115	117	220	237
Other textile mill products	823	736	87	—	802	457	238	107	128	439	284
Apparel and other fabricated textile products	9 073	8 105	894	227	8 696	4 017	3 408	1 271	1 123	3 652	2 465
Paper and allied products	6 654	6 295	351	43	6 450	3 886	1 661	903	682	1 645	1 277
Printing, publishing, and allied industries	15 308	14 208	1 003	187	14 793	7 915	4 236	2 642	1 255	3 366	3 775
Chemicals and allied products	9 381	8 790	516	127	9 157	5 893	2 001	1 263	949	2 323	1 946
Petroleum and coal products	1 038	992	41	14	1 008	733	392	183	136	319	131
Rubber and miscellaneous plastic products	10 105	9 180	893	183	9 717	4 899	3 086	1 732	771	3 198	3 314
Footwear, except rubber	1 925	1 906	15	36	1 893	1 173	473	247	225	738	518
Other nondurable goods	5 891	4 933	886	63	5 206	2 658	1 611	937	759	1 763	2 367
Not specified manufacturing industries	1 971	1 712	247	40	1 909	879	646	384	316	626	678
<b>Transportation, communications, and other public utilities<sup>1</sup></b>	<b>42 467</b>	<b>37 197</b>	<b>5 211</b>	<b>410</b>	<b>41 235</b>	<b>24 228</b>	<b>11 472</b>	<b>5 535</b>	<b>5 414</b>	<b>10 036</b>	<b>8 086</b>
Railroads and railway express service	2 002	1 854	148	28	1 946	1 373	422	151	260	494	285
Street railways and bus lines	5 472	5 240	232	13	5 351	730	3 561	1 060	110	493	599
Trucking service and warehousing	4 410	4 185	215	89	4 301	2 751	1 011	539	381	1 148	914
Water transportation	241	224	17	—	235	158	42	35	27	68	107
Air transportation	1 842	1 627	215	18	1 820	1 204	422	194	212	491	421
All other transportation	2 014	1 821	176	61	1 910	1 041	504	365	90	432	462
Communications	19 153	15 934	3 192	131	18 648	12 195	4 135	2 318	3 057	4 930	3 895
Electric and gas utilities	4 626	4 165	456	51	4 580	3 414	661	505	813	1 206	545
Water supply, sanitary services, and other utilities	724	585	139	12	686	515	110	61	107	124	145
<b>Wholesale and retail trade</b>	<b>300 405</b>	<b>275 162</b>	<b>24 025</b>	<b>3 130</b>	<b>282 441</b>	<b>129 596</b>	<b>83 172</b>	<b>69 673</b>	<b>33 161</b>	<b>92 087</b>	<b>111 919</b>
Wholesale trade	27 992	25 543	2 358	420	26 990	15 792	6 908	4 290	3 046	6 997	7 113
Food and farm products	5 651	5 117	497	149	5 467	2 760	1 618	1 089	712	1 757	1 650
Retail trade	272 413	249 619	21 667	2 710	255 451	113 804	76 264	65 383	30 115	85 090	104 806
Hardware, farm equipment, and building material retailing	5 243	5 132	106	20	5 064	2 828	1 295	941	522	1 365	1 583
General merchandise stores	66 956	60 945	5 826	546	64 087	30 857	17 338	15 892	8 492	24 604	24 356
Food stores	36 163	33 847	2 230	331	34 414	17 273	10 150	6 991	3 738	9 729	10 714
Motor vehicles and accessories retailing	6 084	5 886	187	10	5 894	3 518	1 403	973	513	1 546	1 429
Gasoline service stations	1 906	1 757	149	—	1 788	991	402	395	69	356	472
Apparel and accessories stores	23 398	21 469	1 859	190	22 413	9 747	7 091	5 575	2 779	6 361	7 933
Furniture, home furnishings, and equipment stores	8 060	7 471	565	79	7 724	4 062	2 273	1 389	775	1 869	2 107
Eating and drinking places	74 557	67 863	6 079	985	68 394	23 804	22 873	21 715	7 929	25 501	34 858
Drugstores	11 409	10 591	795	57	10 869	4 889	3 133	2 847	1 384	3 459	3 677
Other retail trade	38 637	34 658	3 871	492	34 804	15 833	10 306	8 665	3 914	10 300	17 677
<b>Finance, insurance, and real estate</b>	<b>71 540</b>	<b>65 194</b>	<b>6 165</b>	<b>735</b>	<b>68 960</b>	<b>42 346</b>	<b>16 178</b>	<b>10 436</b>	<b>8 346</b>	<b>18 183</b>	<b>14 383</b>
Banking and credit agencies	32 691	30 042	2 573	333	31 813	20 269	7 004	4 540	3 919	8 431	6 089
Insurance	22 546	20 451	2 053	258	21 792	13 669	5 022	3 101	2 996	6 053	4 331
Other finance and real estate	16 303	14 701	1 539	144	15 355	8 408	4 152	2 795	1 431	3 699	3 963
<b>Business and repair services</b>	<b>27 657</b>	<b>24 483</b>	<b>3 046</b>	<b>281</b>	<b>25 947</b>	<b>12 269</b>	<b>7 524</b>	<b>6 154</b>	<b>2 675</b>	<b>7 904</b>	<b>10 936</b>
Advertising	2 765	2 646	101	23	2 657	1 677	595	385	423	870	666
Commercial research, management, and programing services	4 221	3 884	314	41	3 901	1 711	1 033	1 157	212	877	1 306
Automobile services	2 292	2 095	191	40	2 227	1 188	642	397	132	495	505
Other business and repair services	18 379	15 858	2 440	177	17 162	7 693	5 254	4 215	1 908	5 662	8 459
<b>Personal services</b>	<b>90 781</b>	<b>68 026</b>	<b>22 202</b>	<b>881</b>	<b>83 586</b>	<b>34 698</b>	<b>27 127</b>	<b>21 761</b>	<b>10 264</b>	<b>28 095</b>	<b>31 139</b>
Private households	30 339	20 547	9 598	241	27 632	8 767	9 052	9 813	3 720	9 944	10 563
Hotels and lodging places	13 310	10 860	2 378	179	12 130	5 170	3 667	3 293	1 434	4 797	7 023
Laundering, cleaning, and other garment services	15 949	10 959	4 911	196	14 977	7 470	4 541	2 966	1 853	4 959	4 699
Barber and beauty shops	18 128	16 669	1 395	186	17 294	8 200	6 018	3 076	1 871	5 624	3 722
Other personal services	13 055	8 991	3 920	79	11 553	5 091	3 849	2 613	1 386	2 771	5 132
<b>Entertainment and recreation services</b>	<b>9 773</b>	<b>9 058</b>	<b>695</b>	<b>116</b>	<b>9 066</b>	<b>2 829</b>	<b>3 428</b>	<b>2 809</b>	<b>903</b>	<b>2 880</b>	<b>5 443</b>
<b>Professional and related services</b>	<b>378 909</b>	<b>325 402</b>	<b>50 854</b>	<b>3 332</b>	<b>364 269</b>	<b>145 001</b>	<b>149 856</b>	<b>69 412</b>	<b>25 898</b>	<b>70 914</b>	<b>82 235</b>
Health services	150 875	122 271	27 179	1 557	145 430	81 383	39 575	24 472	11 448	30 534	29 943
Educational services, government	121 386	108 993	11 719	776	117						

Table 185. Industry of the Experienced Civilian Labor Force by Race and Sex, and Weeks Worked in 1969 and Experienced Workers Not in the Labor Force by Sex: 1970—Continued

[Data based on sample, see text. For meaning of symbols, see text]

The State  
Standard Metropolitan Statistical  
Areas of 250,000 or More

DETROIT SMSA

	Experienced civilian labor force				Weeks worked in 1969 of the experienced civilian labor force				Year last worked of experienced workers not in labor force		
	Total	White	Negro	Persons of Spanish language	Total	50 to 52 weeks	27 to 49 weeks	1 to 26 weeks	1960-63	1964-68	1969-70
<b>Male, 16 years old and over</b> .....	<b>1 069 364</b>	<b>899 364</b>	<b>165 023</b>	<b>13 448</b>	<b>1 055 444</b>	<b>736 516</b>	<b>248 125</b>	<b>70 803</b>	<b>23 348</b>	<b>56 044</b>	<b>85 155</b>
<b>Agriculture, forestry, and fisheries</b> .....	<b>6 366</b>	<b>5 549</b>	<b>812</b>	<b>106</b>	<b>6 150</b>	<b>3 571</b>	<b>1 706</b>	<b>873</b>	<b>240</b>	<b>639</b>	<b>2 156</b>
Agriculture.....	6 222	5 429	788	106	6 011	3 451	1 687	873	233	629	2 142
Forestry and fisheries.....	144	120	24	—	139	120	19	—	7	10	14
<b>Mining</b> .....	<b>1 629</b>	<b>1 437</b>	<b>189</b>	<b>37</b>	<b>1 594</b>	<b>1 087</b>	<b>394</b>	<b>113</b>	<b>86</b>	<b>84</b>	<b>124</b>
<b>Construction</b> .....	<b>70 315</b>	<b>61 099</b>	<b>8 934</b>	<b>604</b>	<b>69 415</b>	<b>37 841</b>	<b>27 236</b>	<b>4 338</b>	<b>1 350</b>	<b>3 418</b>	<b>5 680</b>
<b>Manufacturing</b> .....	<b>515 386</b>	<b>417 836</b>	<b>95 881</b>	<b>7 218</b>	<b>510 179</b>	<b>374 081</b>	<b>114 439</b>	<b>21 659</b>	<b>14 164</b>	<b>31 586</b>	<b>28 883</b>
<b>Durable goods</b> .....	<b>456 654</b>	<b>366 599</b>	<b>88 568</b>	<b>6 481</b>	<b>452 152</b>	<b>329 707</b>	<b>104 210</b>	<b>18 235</b>	<b>12 764</b>	<b>28 166</b>	<b>24 410</b>
Logging.....	109	85	24	—	109	68	41	—	27	9	13
Sawmills, planing mills, and millwork.....	775	730	45	—	755	517	162	76	—	39	56
Miscellaneous wood products.....	942	784	158	23	917	639	193	85	31	65	41
Furniture and fixtures.....	1 918	1 677	236	24	1 866	1 366	413	87	55	113	115
Stone, clay, and glass products.....	7 162	6 126	1 002	163	7 075	4 914	1 784	377	115	406	486
Cement, concrete, gypsum, and plaster products.....	2 415	2 098	293	55	2 386	1 600	721	65	36	134	169
Primary iron and steel industries.....	26 479	21 503	4 895	967	26 234	19 366	5 625	1 243	563	1 436	1 677
Primary nonferrous industries.....	4 752	4 062	686	66	4 710	3 592	1 219	211	146	331	296
Fabricated metal industries, including not specified metal.....	37 200	33 393	3 700	526	36 929	27 666	7 490	1 773	607	1 452	2 017
Machinery, except electrical.....	78 470	73 858	4 454	754	77 967	58 454	16 475	3 038	1 231	2 637	3 171
Office, accounting, and computing machines.....	6 845	6 488	323	44	6 815	5 692	1 148	119	119	257	179
Electrical machinery, equipment, and supplies.....	9 110	8 614	475	59	9 020	7 078	1 533	409	145	226	495
Radio, television, and communication equipment.....	1 323	1 238	85	12	1 312	1 028	225	59	42	47	47
Motor vehicles and motor vehicle equipment.....	248 916	185 841	62 169	3 503	247 036	178 500	60 131	8 405	8 360	19 451	12 626
Aircraft and parts.....	2 492	2 581	111	21	2 663	2 077	497	89	97	104	147
Other transportation equipment.....	2 250	2 105	134	7	2 234	1 735	356	143	105	99	165
Professional and photographic equipment, and watches.....	1 787	1 731	56	7	1 770	1 421	251	98	19	24	90
Ordnance.....	2 265	2 031	226	—	2 247	1 809	351	87	33	67	96
Miscellaneous manufactures and durable goods—allocated.....	31 827	21 478	10 197	354	30 620	20 505	8 001	2 114	1 230	1 707	2 989
<b>Nondurable goods</b> .....	<b>56 702</b>	<b>49 591</b>	<b>6 929</b>	<b>721</b>	<b>56 023</b>	<b>43 007</b>	<b>9 730</b>	<b>3 286</b>	<b>1 329</b>	<b>3 253</b>	<b>4 261</b>
Meat products.....	2 086	1 385	689	72	2 051	1 439	454	158	55	109	143
Canning and preserving produce, seafoods, and beverages.....	3 861	3 234	616	20	3 822	2 864	752	206	91	246	272
Bakery products.....	2 203	1 753	446	39	2 180	1 592	493	95	32	113	120
Other food industries.....	3 651	3 145	500	39	3 611	2 769	660	182	115	250	265
Yarn, thread, and fabric mills.....	335	275	60	5	331	253	52	26	5	47	35
Other textile mill products.....	294	232	58	13	283	220	40	23	5	23	23
Apparel and other fabricated textile products.....	2 503	2 066	437	38	2 453	1 798	548	107	61	89	115
Paper and allied products.....	3 214	2 793	417	33	3 192	2 365	542	285	53	106	243
Printing, publishing, and allied industries.....	13 769	12 936	805	165	13 626	10 451	2 225	950	179	794	1 134
Chemicals and allied products.....	13 034	12 095	877	128	12 961	10 974	1 536	451	315	697	610
Petroleum and coal products.....	1 316	1 219	97	50	1 311	1 061	200	50	52	64	59
Rubber and miscellaneous plastic products.....	6 996	5 901	1 070	74	6 917	5 194	1 388	335	198	441	557
Footwear, except rubber.....	109	103	6	14	109	66	43	6	6	9	11
Other nondurable goods.....	3 331	2 454	851	31	3 176	1 961	797	418	163	265	674
Not specified manufacturing industries.....	2 030	1 646	384	16	2 004	1 367	499	138	71	167	212
<b>Transportation, communications, and other public utilities<sup>1</sup></b> .....	<b>68 065</b>	<b>58 548</b>	<b>9 191</b>	<b>1 063</b>	<b>67 507</b>	<b>50 170</b>	<b>14 225</b>	<b>3 112</b>	<b>1 483</b>	<b>3 247</b>	<b>3 943</b>
Railroads and railway express service.....	7 438	6 705	693	223	7 395	5 559	1 569	267	381	734	417
Street railways and bus lines.....	3 540	2 182	1 342	26	3 530	2 765	620	145	123	235	246
Trucking service and warehousing.....	20 294	18 626	1 567	389	20 150	13 483	5 651	1 016	228	803	1 037
Water transportation.....	1 208	1 004	167	—	1 188	386	656	146	21	95	132
Air transportation.....	3 330	2 984	325	70	3 301	2 581	567	153	27	49	131
All other transportation.....	2 790	2 130	657	36	2 772	1 501	1 032	239	79	219	351
Communications.....	10 210	9 309	853	109	10 140	8 350	1 410	380	124	227	322
Electric and gas utilities.....	11 414	10 523	867	99	11 347	9 694	1 306	347	192	462	436
Water supply, sanitary services, and other utilities.....	4 992	2 997	1 972	55	4 947	3 904	819	224	192	290	393
<b>Wholesale and retail trade</b> .....	<b>179 303</b>	<b>160 328</b>	<b>17 904</b>	<b>1 794</b>	<b>175 632</b>	<b>113 858</b>	<b>38 632</b>	<b>23 142</b>	<b>2 518</b>	<b>7 549</b>	<b>22 762</b>
Wholesale trade.....	52 158	46 713	5 218	491	51 662	40 291	8 797	2 574	719	1 606	2 967
Food and farm products.....	9 250	7 869	1 353	68	9 176	7 128	1 605	443	165	371	673
Retail trade.....	127 145	113 615	12 686	1 303	123 970	73 567	29 835	20 568	1 799	5 943	19 795
Hardware, farm equipment, and building material retailing.....	5 890	5 562	323	14	5 824	4 094	1 227	503	109	233	526
General merchandise stores.....	14 845	13 132	1 666	106	14 597	10 016	2 715	1 866	183	682	1 935
Food stores.....	22 705	20 358	2 271	326	22 164	13 008	5 445	3 711	390	1 124	3 228
Motor vehicles and accessories retailing.....	14 878	13 612	1 217	129	14 720	10 487	3 055	1 178	127	488	1 038
Gasoline service stations.....	13 424	12 018	1 369	93	12 913	5 915	3 838	3 160	94	484	2 305
Apparel and accessories stores.....	6 425	5 567	807	67	6 304	3 591	1 625	1 088	91	222	1 034
Furniture, home furnishings, and equipment stores.....	8 472	7 630	787	69	8 379	5 813	1 875	691	85	339	612
Eating and drinking places.....	20 639	18 278	1 913	315	19 709	9 004	5 466	5 239	364	1 409	5 143
Drug stores.....	3 985	3 640	337	34	3 920	2 290	881	749	31	146	598
Other retail trade.....	15 882	13 818	1 996	150	15 440	9 349	3 708	2 383	325	816	3 376
<b>Finance, insurance, and real estate</b> .....	<b>34 056</b>	<b>31 095</b>	<b>2 875</b>	<b>278</b>	<b>33 760</b>	<b>26 789</b>	<b>5 310</b>	<b>1 661</b>	<b>583</b>	<b>1 258</b>	<b>2 130</b>
Banking and credit agencies.....	9 567	8 797	737	82	9 517	7 799	1 204	514	144	391	447
Insurance.....	12 146	11 226	887	112	12 083	10 095	1 648	340	202	275	430
Other finance and real estate.....	12 343	11 072	1 251	84	12 160	8 895	2 458	807	237	592	1 253
<b>Business and repair services</b> .....	<b>35 040</b>	<b>30 018</b>	<b>4 855</b>	<b>426</b>	<b>34 406</b>	<b>22 793</b>	<b>8 008</b>	<b>3 605</b>	<b>427</b>	<b>1 476</b>	<b>3 224</b>
Advertising.....	3 172	3 049	101	54	3 138	2 526	429	183	38	89	161
Commercial research, management, and programing services.....	4 569	4 301	241	38	4 535	3 497	760	278	19	83	200
Automobile services.....	9 141	7 339	1 744	193	8 860	5 345	2 348	1 167	138	371	951
Other business and repair services.....	18 158	15 329	2 769	141	17 873	11 425	4 471	1 977	232	933	1 912
<b>Personal services</b> .....	<b>15 487</b>	<b>11 960</b>	<b>3 458</b>	<b>279</b>	<b>15 160</b>	<b>9 344</b>	<b>3 812</b>	<b>2 004</b>	<b>558</b>	<b>1 376</b>	<b>2 678</b>
Private households.....	1 147	788	346	18	1 083	433	307	343	82	182	524
Hotels and lodging places.....	2 898	2 256	633	116	2 842	1 385	804	653	149	372	989
Laundry, cleaning, and other garment services.....	4 285	2 961	1 307	48	4 205	2 933	765	507	127	389	454
Barber and beauty shops.....	3 861	3 256	598	70	3 786	2 433	1 199	154	80	212	236
Other personal services.....	3 296	2 699	574	27	3 244	2 160	737	347	120	221	475
<b>Entertainment and recreation services</b> .....	<b>7 747</b>	<b>6 750</b>	<b>973</b>	<b>93</b>	<b>7 518</b>	<b>3 643</b>	<b>2 421</b>	<b>1 454</b>	<b>97</b>	<b>574</b>	<b>2 867</b>
<b>Professional and related services</b> .....	<b>92 405</b>	<b>79 616</b>	<b>11 651</b>	<b>1 088</b>	<b>91 302</b>	<b>56 230</b>	<b>27 545</b>	<b>7 527</b>	<b>1 046</b>	<b>2 832</b>	<b>7 278</b>
Health services.....	21 880	17 153	4 149	460	21 561	14 601	5 092	1 868	230	783	1 652
Educational services, government.....	28 577	24 987	3 365	194	28 329	13 032	13 037	2 260	346	898	2 099
Educational services, private.....	9 251	8 284	873	104							

Table 185. Industry of the Experienced Civilian Labor Force by Race and Sex, and Weeks Worked in 1969 and Experienced Workers Not in the Labor Force by Sex: 1970—Continued

[Data based on sample, see text. For meaning of symbols, see text]

The State  
Standard Metropolitan Statistical  
Areas of 250,000 or More

DETROIT SMSA—Continued

	Experienced civilian labor force				Weeks worked in 1969 of the experienced civilian labor force				Year last worked of experienced workers not in labor force		
	Total	White	Negro	Persons of Spanish language	Total	50 to 52 weeks	27 to 49 weeks	1 to 26 weeks	1960-63	1964-68	1969-70
<b>Female, 16 years old and over</b> .....	<b>589 484</b>	<b>470 504</b>	<b>115 847</b>	<b>6 359</b>	<b>561 602</b>	<b>273 916</b>	<b>186 366</b>	<b>101 320</b>	<b>56 909</b>	<b>147 194</b>	<b>144 206</b>
Agriculture, forestry, and fisheries.....	2 028	1 532	464	6	1 899	818	577	504	142	592	794
Agriculture.....	2 023	1 547	464	6	1 894	818	577	499	134	564	794
Forestry and fisheries.....	5	5	-	-	5	-	-	5	8	28	-
Mining.....	279	238	41	-	273	166	60	47	4	57	52
Construction.....	5 652	4 969	670	56	5 440	3 294	1 404	742	468	1 133	1 159
Manufacturing.....	110 817	93 613	16 732	1 411	107 448	61 024	32 783	13 641	11 383	27 939	22 822
Durable goods.....	82 338	69 714	12 361	851	80 106	46 770	23 995	9 341	8 095	19 159	14 813
Logging.....	5	5	-	-	5	-	-	-	-	-	12
Sawmills, planing mills, and millwork.....	278	251	27	6	272	115	51	46	25	56	53
Miscellaneous wood products.....	339	312	23	-	314	149	115	50	15	79	91
Furniture and fixtures.....	701	583	118	23	685	357	248	80	69	210	129
Stone, clay, and glass products.....	2 519	2 034	471	41	2 468	1 406	676	386	208	504	586
Cement, concrete, gypsum, and plaster products.....	192	181	11	-	192	139	50	3	20	71	65
Primary iron and steel industries.....	1 780	1 606	174	6	1 766	1 143	443	180	172	413	307
Primary nonferrous industries.....	1 185	1 049	116	20	1 134	680	326	128	111	259	236
Fabricated metal industries, including not specified metal.....	9 511	8 614	882	141	9 340	4 980	2 979	1 381	853	2 415	2 181
Machinery, except electrical.....	14 416	13 403	963	135	14 087	8 570	3 918	1 599	1 274	2 962	2 271
Office, accounting, and computing machines.....	3 613	3 259	350	50	3 590	2 233	1 084	273	437	662	447
Electrical machinery, equipment, and supplies.....	4 151	3 740	389	41	4 014	2 240	1 167	607	520	1 275	967
Radio, television, and communication equipment.....	605	535	70	-	588	271	151	166	77	265	192
Motor vehicles and motor vehicle equipment.....	37 654	30 283	7 239	335	37 168	22 584	11 302	3 282	3 768	8 502	5 198
Aircraft and parts.....	499	453	46	7	489	332	112	45	81	178	121
Other transportation equipment.....	306	268	38	-	291	186	80	25	43	88	86
Professional and photographic equipment, and watches.....	808	751	57	10	797	395	237	165	61	212	182
Ordnance.....	451	353	98	-	429	270	101	58	109	186	125
Miscellaneous manufactures and durable goods—allocated.....	7 735	5 989	1 720	86	6 847	3 358	2 180	1 309	786	1 820	2 328
Nondurable goods.....	27 628	23 245	4 181	550	26 523	13 843	8 540	4 140	3 162	8 519	7 732
Meat products.....	988	740	240	62	958	470	343	145	114	245	231
Canning and preserving produce, seafoods, and beverages.....	903	704	199	25	859	443	295	121	116	385	262
Bakery products.....	1 944	1 798	146	14	1 923	1 026	289	108	127	293	175
Other food industries.....	1 258	1 119	125	11	1 215	568	436	211	192	397	313
Yarn, thread, and fabric mills.....	264	188	76	-	238	72	115	51	19	88	90
Other textile mill products.....	167	94	73	-	167	65	46	56	36	165	90
Apparel and other fabricated textile products.....	3 606	2 799	766	164	3 473	1 447	1 505	521	400	1 299	1 020
Paper and allied products.....	1 599	1 386	205	5	1 558	842	452	264	183	472	502
Printing, publishing, and allied industries.....	6 437	5 701	680	115	6 216	3 245	1 892	1 079	666	1 564	1 649
Chemicals and allied products.....	4 403	3 968	393	45	4 324	2 789	1 003	532	480	1 039	903
Petroleum and coal products.....	256	234	22	-	249	175	49	25	47	76	90
Rubber and miscellaneous plastic products.....	4 540	3 853	682	64	4 370	2 238	1 431	701	412	1 650	1 591
Footwear, except rubber.....	45	45	-	8	45	24	15	6	26	41	49
Other nondurable goods.....	2 218	1 616	574	37	1 928	939	669	320	344	805	819
Not specified manufacturing industries.....	851	654	190	10	819	411	248	160	126	261	277
Transportation, communications, and other public utilities <sup>1</sup> .....	22 456	18 054	4 353	273	21 728	13 573	5 648	2 507	2 794	5 222	3 991
Railroads and railway express service.....	1 498	1 355	143	28	1 463	1 046	329	88	166	323	315
Street railways and bus lines.....	1 654	1 527	127	-	1 592	351	980	261	45	146	222
Trucking service and warehousing.....	2 335	2 174	151	66	2 269	1 425	562	282	175	595	490
Water transportation.....	142	130	12	-	136	98	33	5	11	27	51
Air transportation.....	1 515	1 315	200	18	1 498	1 007	376	115	134	314	282
All other transportation.....	1 248	1 108	129	47	1 180	684	308	188	52	261	218
Communications.....	10 718	7 959	2 736	75	10 413	6 844	2 365	1 204	1 523	2 534	1 918
Electric and gas utilities.....	1 991	1 605	381	26	1 956	1 422	332	202	484	659	233
Water supply, sanitary services, and other utilities.....	349	218	131	6	324	258	54	12	56	59	42
Wholesale and retail trade.....	150 088	129 872	19 561	1 722	141 531	66 841	42 494	32 196	16 606	45 986	49 217
Wholesale trade.....	15 726	13 668	2 022	220	15 234	9 251	3 824	2 159	1 795	3 838	3 545
Food and farm products.....	2 536	2 122	400	51	2 454	1 287	757	410	305	695	527
Retail trade.....	134 362	116 204	17 539	1 502	126 297	57 590	38 670	30 037	14 811	42 148	45 672
Hardware, farm equipment, and building material retailing.....	1 696	1 613	83	-	1 640	726	551	363	162	530	474
General merchandise stores.....	36 863	31 998	4 800	254	35 475	17 532	9 678	6 265	4 547	13 684	12 644
Food stores.....	17 526	15 641	1 839	201	16 711	8 428	5 109	3 174	1 890	4 501	4 605
Motor vehicles and accessories retailing.....	3 058	2 914	138	5	2 965	1 799	669	497	307	816	643
Gasoline service stations.....	606	493	113	-	584	323	152	109	25	103	129
Apparel and accessories stores.....	12 345	10 822	1 489	127	11 813	4 990	3 850	2 973	1 489	3 421	3 569
Furniture, home furnishings, and equipment stores.....	4 284	3 811	459	44	4 134	2 084	1 282	768	388	947	986
Eating and drinking places.....	34 093	28 866	4 819	549	31 360	11 693	10 843	8 824	3 442	11 227	13 721
Drugs.....	5 560	4 862	681	44	5 279	2 318	1 625	1 336	594	1 888	1 607
Other retail trade.....	18 331	15 184	3 118	278	16 336	7 697	4 911	3 728	1 967	5 031	7 294
Finance, insurance, and real estate.....	40 998	35 426	5 449	421	39 623	24 167	9 349	6 107	4 745	10 358	7 353
Banking and credit agencies.....	17 948	15 654	2 245	192	17 532	11 115	3 899	2 578	2 152	4 610	3 113
Insurance.....	13 223	11 322	1 875	133	12 813	8 011	2 942	1 860	1 716	3 582	2 261
Other finance and real estate.....	9 827	8 450	1 329	96	9 278	5 041	2 568	1 669	877	2 166	1 979
Business and repair services.....	17 506	14 948	2 509	190	16 527	7 867	4 911	3 749	1 800	5 028	6 059
Advertising.....	2 151	2 049	91	8	2 093	1 361	458	274	321	666	415
Commercial research, management, and programing services.....	2 681	2 404	271	36	2 522	1 158	717	647	155	523	710
Automobile services.....	1 253	1 101	152	22	1 212	636	365	211	79	299	273
Other business and repair services.....	11 421	9 394	1 995	124	10 700	4 712	3 371	2 617	1 245	3 540	4 661
Personal services.....	42 309	24 371	17 644	392	39 105	16 714	13 681	8 710	5 153	13 756	12 319
Private households.....	13 693	5 940	7 675	121	12 675	4 571	4 453	3 651	1 962	4 877	4 161
Hotels and lodging places.....	4 951	3 191	1 742	69	4 543	2 089	1 538	916	524	1 690	1 845
Laundering, cleaning, and other garment services.....	8 765	4 666	4 050	73	8 212	4 036	2 659	1 517	1 021	2 643	2 348
Barber and beauty shops.....	8 315	7 117	1 154	103	7 894	3 521	2 955	1 418	963	3 183	1 741
Other personal services.....	6 585	3 457	3 023	26	5 781	2 497	2 076	1 208	683	1 363	2 224
Entertainment and recreation services.....	5 151	4 686	455	68	4 799	1 597	1 806	1 396	500	1 552	2 191
Professional and related services.....	168 121	128 368	38 426	1 590	161 521	63 635	68 751	29 135	11 628	31 518	33 192
Health services.....	70 000	48 349	20 783	683	67 470	37 000	19 629	10 841	4 760	13 340	12 464
Educational services, government <sup>1</sup> .....	50 226	41 384	8 421	397	48 774	8 365	30 482	9 727	3 612	9 577	10 290
Educational services, private.....	18 288	15 795	2 397	174	17 663	3 762	10 115	3 816	977	3 074	3 622
Welfare, religious, and nonprofit membership organizations.....	10 678	8 118	2 508	132	10 394	5 687	3 016	1 691	686	2 066	2 211
Other professional and related services.....	18 929	14 722	4 117	204	17 220	8 851	5 309	3 060	1 593	3 461	4 605
Public administration <sup>1</sup> .....	22 491	13 307	9 065	206	21 708	14 220	4 902	2 586	1 686	4 053	5 057
Postal service.....	5 045	2 459	2 537	25	4 901	2 942	1 411	548	135	763	1 240
Federal public administration.....	6 229	3 404	2 800	85	6 008	4 397	1 061	550	722	1 336	1 070
State and local public administration.....	10 136	7 012									

Table 185. Industry of the Experienced Civilian Labor Force by Race and Sex, and Weeks Worked in 1969 and Experienced Workers Not in the Labor Force by Sex: 1970—Continued

[Data based on sample, see text. For meaning of symbols, see text]

The State  
Standard Metropolitan Statistical  
Areas of 250,000 or More

FLINT SMSA

	Experienced civilian labor force				Weeks worked in 1969 of the experienced civilian labor force				Year last worked of experienced workers not in labor force		
	Total	White	Negro	Persons of Spanish language	Total	50 to 52 weeks	27 to 49 weeks	1 to 26 weeks	1960-63	1964-68	1969-70
<b>Males, 16 years old and over</b> .....	<b>122 005</b>	<b>108 525</b>	<b>13 176</b>	<b>1 658</b>	<b>120 453</b>	<b>80 384</b>	<b>31 975</b>	<b>8 094</b>	<b>2 551</b>	<b>7 210</b>	<b>8 570</b>
Agriculture, forestry, and fisheries.....	1 995	1 949	46	148	1 952	1 360	326	266	131	216	494
Agriculture.....	1 972	1 926	46	148	1 929	1 351	317	261	131	216	484
Forestry and fisheries.....	23	23	-	-	23	9	9	5	-	-	10
Mining.....	199	199	-	9	195	103	71	21	-	16	33
Construction.....	7 512	7 029	469	106	7 393	3 807	3 054	532	145	327	626
Manufacturing.....	70 409	59 941	10 326	1 026	69 810	48 446	18 330	3 034	1 681	4 867	3 102
Durable goods.....	67 172	56 845	10 185	956	66 619	46 014	17 835	2 770	1 608	4 693	2 839
Logging.....	10	10	-	-	10	4	6	-	-	-	-
Sawmills, planing mills, and millwork.....	58	58	-	-	58	28	10	10	-	10	-
Miscellaneous wood products.....	59	54	5	11	59	42	12	5	-	-	6
Furniture and fixtures.....	83	68	15	6	83	39	44	-	-	21	11
Stone, clay, and glass products.....	318	272	46	9	309	210	82	17	-	30	17
Cement, concrete, gypsum, and plaster products.....	224	189	35	9	220	158	49	13	-	27	17
Primary iron and steel industries.....	570	464	106	21	567	444	112	11	19	50	37
Primary nonferrous industries.....	23	23	-	-	23	15	8	-	4	16	6
Fabricated metal industries, including not specified metal.....	2 524	2 316	208	34	2 516	1 796	629	91	31	76	97
Machinery, except electrical.....	1 517	1 492	25	11	1 498	1 132	322	44	31	98	72
Office, accounting, and computing machines.....	109	109	-	-	109	95	14	-	-	-	-
Electrical machinery, equipment, and supplies.....	929	848	70	7	929	765	139	25	3	50	29
Radio, television, and communication equipment.....	30	30	-	-	30	30	-	-	-	-	-
Motor vehicles and motor vehicle equipment.....	56 436	47 561	8 767	771	56 080	38 680	15 249	2 151	1 406	4 101	2 209
Aircraft and parts.....	60	60	-	-	60	22	38	-	5	-	14
Other transportation equipment.....	647	641	-	-	632	378	161	93	16	17	57
Professional and photographic equipment, and watches.....	32	32	-	-	32	22	-	10	-	-	11
Ordnance.....	22	22	-	-	22	17	5	-	-	-	3
Miscellaneous manufactures and durable goods—allocated.....	3 884	2 924	943	86	3 741	2 420	1 008	313	93	224	270
Nondurable goods.....	3 077	2 953	124	70	3 031	2 328	463	240	64	159	249
Meat products.....	113	106	7	24	106	80	20	6	-	14	10
Canning and preserving produce, seafoods, and beverages.....	285	260	25	11	278	173	44	61	8	5	47
Bakery products.....	87	87	-	-	87	66	16	5	-	-	6
Other food industries.....	284	280	4	5	279	211	56	12	6	4	19
Yarn, thread, and fabric mills.....	41	41	-	-	41	19	22	-	-	5	17
Other textile mill products.....	124	118	6	3	119	76	43	-	-	16	6
Apparel and other fabricated textile products.....	133	133	-	-	133	106	21	6	5	-	4
Paper and allied products.....	226	219	7	7	226	171	25	30	-	6	26
Printing, publishing, and allied industries.....	698	694	4	-	692	548	88	56	10	59	68
Chemicals and allied products.....	688	652	36	9	688	613	59	16	12	17	27
Petroleum and coal products.....	18	18	-	-	18	-	12	6	-	-	-
Rubber and miscellaneous plastic products.....	90	90	-	-	90	66	16	8	-	6	6
Footwear, except rubber.....	6	6	-	-	-	-	-	-	-	-	-
Other nondurable goods.....	284	249	35	11	274	199	41	34	23	27	13
Not specified manufacturing industries.....	160	143	17	-	160	104	32	24	9	15	14
Transportation, communications, and other public utilities <sup>1</sup> .....	4 744	4 492	238	26	4 683	3 072	1 388	223	86	210	204
Railroads and railway express service.....	510	489	21	-	510	361	123	26	46	46	30
Street railways and bus lines.....	127	107	16	-	127	79	35	13	-	-	17
Trucking service and warehousing.....	1 757	1 697	54	6	1 747	1 064	615	68	14	72	50
Water transportation.....	11	11	-	-	11	6	5	-	8	6	5
Air transportation.....	83	83	-	-	65	49	16	-	-	-	11
All other transportation.....	104	85	19	-	104	59	27	18	6	6	-
Communications.....	768	746	22	-	765	585	152	28	-	35	11
Electric and gas utilities.....	757	723	34	12	757	447	264	46	-	22	28
Water supply, sanitary services, and other utilities.....	362	349	13	8	353	283	56	14	12	5	42
Wholesale and retail trade.....	17 679	16 835	788	150	17 211	11 156	3 602	2 453	246	730	2 305
Wholesale trade.....	4 349	4 127	222	32	4 318	3 478	637	203	51	155	169
Food and farm products.....	745	710	35	13	735	582	90	63	13	39	55
Retail trade.....	13 330	12 708	566	118	12 893	7 678	2 965	2 250	195	575	2 136
Hardware, farm equipment, and building material retailing.....	928	928	-	-	923	682	174	67	16	39	66
General merchandise stores.....	1 166	1 086	80	-	1 133	707	252	174	17	50	141
Food stores.....	2 533	2 443	90	22	2 456	1 394	579	483	45	101	425
Motor vehicles and accessories retailing.....	2 012	1 913	90	16	1 982	1 439	378	165	29	63	137
Gasoline service stations.....	1 663	1 619	44	23	1 569	684	500	385	15	46	306
Apparel and accessories stores.....	1 615	1 587	28	19	1 594	1 114	90	10	40	103	94
Furniture, home furnishings, and equipment stores.....	914	893	23	13	909	665	208	36	10	38	94
Eating and drinking places.....	1 664	1 527	97	31	1 535	662	355	518	15	119	470
Drugstores.....	404	377	20	-	400	224	99	77	9	15	46
Other retail trade.....	1 529	1 435	94	7	1 492	931	306	255	29	64	348
Finance, insurance, and real estate.....	2 500	2 441	59	12	2 484	1 913	450	121	59	147	124
Banking and credit agencies.....	673	665	8	-	673	575	73	25	12	42	27
Insurance.....	905	879	26	-	905	731	141	33	10	19	25
Other finance and real estate.....	922	897	25	12	906	607	236	63	37	86	74
Business and repair services.....	2 270	2 098	167	17	2 215	1 343	621	251	17	86	230
Advertising.....	67	67	-	-	67	58	4	5	-	-	21
Commercial research, management, and programing services.....	202	198	4	-	180	115	50	15	-	-	5
Automobile services.....	890	811	79	-	880	451	291	138	17	37	84
Other business and repair services.....	1 111	1 022	84	17	1 088	719	276	93	-	49	120
Personal services.....	1 435	1 252	177	14	1 417	842	416	159	44	120	190
Private households.....	74	56	18	-	74	17	15	42	3	8	46
Hotels and lodging places.....	223	187	36	-	210	119	67	24	18	24	46
Laundry, cleaning, and other garment services.....	370	303	61	6	370	237	89	44	5	44	40
Barber and beauty shops.....	510	470	40	8	510	308	180	22	18	27	33
Other personal services.....	258	236	22	-	253	161	65	27	-	17	25
Entertainment and recreation services.....	554	507	47	8	533	247	177	109	4	56	281
Professional and related services.....	9 534	8 819	648	142	9 414	5 492	3 164	758	71	308	654
Health services.....	2 264	2 018	189	42	2 247	1 563	460	224	46	113	134
Educational services, government <sup>1</sup> .....	3 401	3 164	233	42	3 354	1 469	1 676	209	17	114	249
Educational services, private.....	1 489	1 395	94	9	1 486	784	574	128	8	36	74
Welfare, religious, and nonprofit membership organizations.....	1 071	985	86	34	1 052	753	188	111	-	25	107
Other professional and related services.....	1 309	1 257	46	15	1 275	923	266	86	-	20	90
Public administration <sup>1</sup> .....	3 159	2 957	202	-	3 146	2 603	376	167	67	127	325
Postal service.....	559	476	83	-	554	472	49	33	26	21	42
Federal public administration.....	300	284	16	-	300	232	44	24	13	64	95
State and local public administration.....	2 214	2 143	71	-	2 206	1 813	283	110	28	42	147
Unemployed persons, last worked 1959 or earlier <sup>2</sup> .....	15	6	9	-	...	...	...	...	...	...	...

<sup>1</sup>Includes allocated cases not shown separately. <sup>2</sup>See text for explanation.

Table 185. Industry of the Experienced Civilian Labor Force by Race and Sex, and Weeks Worked in 1969 and Experienced Workers Not in the Labor Force by Sex: 1970—Continued

[Data based on sample, see text. For meaning of symbols, see text]

The State Standard Metropolitan Statistical Areas of 250,000 or More	Experienced civilian labor force				Weeks worked in 1969 of the experienced civilian labor force				Year last worked of experienced workers not in labor force		
	Total	White	Negro	Persons of Spanish language	Total	50 to 52 weeks	27 to 49 weeks	1 to 26 weeks	1960-63	1964-68	1969-70
<b>FLINT SMSA—Continued</b>											
<b>Female, 16 years old and over</b>	63 464	54 824	8 441	523	60 018	26 173	21 512	12 333	6 291	17 258	16 742
Agriculture, forestry, and fisheries	292	272	20	18	245	146	59	40	42	96	213
Agriculture	292	272	20	18	245	146	59	40	42	96	207
Forestry and fisheries	—	—	—	—	—	—	—	—	—	—	6
Mining	14	14	—	—	14	14	—	—	6	5	—
Construction	417	386	31	—	391	187	143	61	59	109	128
Manufacturing	13 718	11 530	2 144	125	13 236	7 083	4 653	1 500	1 288	3 379	2 414
Durable goods	12 003	9 917	2 047	102	11 633	6 284	4 168	1 181	987	2 522	1 621
Logging	—	—	—	—	—	—	—	—	—	—	—
Sawmills, planing mills, and millwork	11	5	6	—	11	—	—	11	—	3	3
Miscellaneous wood products	—	—	—	—	—	—	—	—	5	4	—
Furniture and fixtures	23	23	—	—	18	13	5	—	4	24	6
Stone, clay, and glass products	85	80	5	—	78	32	41	5	5	33	39
Cement, concrete, gypsum, and plaster products	29	29	—	—	29	10	19	—	5	4	4
Primary iron and steel industries	19	19	—	—	19	15	—	—	4	13	17
Primary nonferrous industries	—	—	—	—	—	—	—	—	4	15	—
Fabricated metal industries, including not specified metal	726	644	76	—	708	399	195	114	94	258	124
Machinery, except electrical	241	236	5	6	227	109	81	37	16	94	74
Office, accounting, and computing machines	33	33	—	—	28	5	12	11	—	10	14
Electrical machinery, equipment, and supplies	799	689	104	8	771	442	255	74	58	166	99
Radio, television, and communication equipment	—	—	—	—	—	—	—	—	4	17	15
Motor vehicles and motor vehicle equipment	9 154	7 433	1 706	88	8 973	4 843	3 333	797	663	1 632	986
Aircraft and parts	4	4	—	—	4	—	—	—	5	—	15
Other transportation equipment	193	193	—	—	175	94	52	29	6	85	40
Professional and photographic equipment, and watches	18	18	—	—	13	6	7	—	6	10	6
Ordnance	3	3	—	—	3	3	—	—	—	12	5
Miscellaneous manufactures and durable goods—allocated	727	570	145	—	633	324	199	110	109	173	207
Nondurable goods	1 667	1 568	94	15	1 555	779	462	314	289	844	758
Meat products	32	32	—	—	32	10	13	9	6	16	27
Canning and preserving produce, seafoods, and beverages	165	136	29	6	165	88	35	42	30	94	151
Bakery products	24	15	9	—	24	10	—	14	14	22	16
Other food industries	47	47	—	—	42	19	16	7	15	58	29
Yarn, thread, and fabric mills	18	18	—	—	13	6	—	7	14	26	18
Other textile mill products	17	17	—	—	17	10	7	—	15	18	23
Apparel and other fabricated textile products	381	377	4	9	357	155	155	47	36	173	116
Paper and allied products	161	133	28	—	155	87	39	29	16	74	38
Printing, publishing, and allied industries	378	369	9	—	352	202	101	49	55	144	106
Chemicals and allied products	100	96	4	—	89	65	5	19	19	52	22
Petroleum and coal products	—	—	—	—	—	—	—	—	—	—	7
Rubber and miscellaneous plastic products	206	206	—	—	196	66	77	53	36	100	76
Footwear, except rubber	5	5	—	—	5	—	—	5	11	15	4
Other nondurable goods	133	117	11	—	108	61	14	33	22	52	125
Not specified manufacturing industries	48	45	3	—	48	20	23	5	12	13	35
Transportation, communications, and other public utilities <sup>1</sup>	1 921	1 727	194	25	1 864	900	661	303	200	457	341
Railroads and railway express service	26	26	—	—	26	17	9	—	—	6	5
Street railways and bus lines	475	442	33	—	475	27	316	132	5	40	65
Trucking service and warehousing	237	206	31	4	226	139	50	37	26	42	51
Water transportation	4	4	—	—	4	—	4	—	—	13	—
Air transportation	25	25	—	—	25	16	4	5	—	16	5
All other transportation	59	46	13	8	59	39	20	—	—	10	15
Communications	820	718	102	7	806	495	204	107	121	266	128
Electric and gas utilities	141	135	6	—	136	105	22	9	17	49	16
Water supply, sanitary services, and other utilities	39	39	—	—	39	30	—	—	5	5	9
Wholesale and retail trade	15 607	14 211	1 336	142	14 512	5 912	4 645	3 955	2 194	5 775	6 017
Wholesale trade	1 419	1 350	63	19	1 369	789	352	228	161	287	302
Food and farm products	227	211	16	7	221	109	69	43	15	70	56
Retail trade	14 188	12 861	1 273	123	13 143	5 123	4 293	3 727	2 033	5 488	5 715
Hardware, farm equipment, and building material retailing	365	348	17	—	361	176	123	62	61	47	73
General merchandise stores	3 446	3 089	347	33	3 252	1 422	1 036	794	602	1 401	1 278
Food stores	1 673	1 582	91	12	1 569	639	530	400	141	591	574
Motor vehicles and accessories retailing	316	311	5	—	313	188	87	38	39	87	81
Gasoline service stations	171	159	12	—	162	66	63	33	—	46	44
Apparel and accessories stores	1 462	1 333	123	—	1 400	476	513	411	241	495	517
Furniture, home furnishings, and equipment stores	482	440	42	12	444	212	145	87	72	119	153
Eating and drinking places	3 552	3 157	366	54	3 192	1 007	1 029	1 156	561	1 938	1 949
Drugstores	812	783	29	—	765	280	229	256	133	244	276
Other retail trade	1 909	1 659	241	—	1 685	657	538	490	183	520	770
Finance, insurance, and real estate	2 954	2 766	183	24	2 831	1 724	720	387	296	843	563
Banking and credit agencies	1 514	1 399	110	12	1 456	988	307	161	185	360	218
Insurance	692	682	10	8	675	433	175	67	83	254	144
Other finance and real estate	748	685	63	4	700	303	238	159	28	229	201
Business and repair services	1 186	1 023	154	—	1 067	450	276	341	96	297	564
Advertising	60	60	—	—	54	33	11	10	10	18	30
Commercial research, management, and programing services	246	224	22	—	225	70	42	113	10	16	53
Automobile services	110	99	11	—	100	47	40	13	4	15	25
Other business and repair services	770	640	121	—	688	300	183	205	72	248	456
Personal services	4 411	3 510	893	33	4 048	1 617	1 353	1 078	484	1 729	1 484
Private households	1 538	1 083	450	4	1 372	409	409	554	207	676	579
Hotels and lodging places	475	403	72	—	423	211	113	99	37	170	184
Laundering, cleaning, and other garment services	830	627	203	18	783	316	289	178	90	349	282
Barber and beauty shops	1 001	956	42	—	957	460	382	115	83	375	215
Other personal services	567	441	126	11	513	221	160	132	67	159	224
Entertainment and recreation services	568	479	89	—	526	114	242	170	46	171	291
Professional and related services	20 389	17 267	3 049	147	19 498	7 020	8 290	4 188	1 381	3 947	4 220
Health services	9 217	7 369	1 805	71	8 847	4 571	2 549	1 727	748	1 860	1 780
Educational services, government	5 984	5 362	610	22	5 815	1 007	3 534	1 274	307	1 056	1 225
Educational services, private	2 607	2 293	302	14	2 484	401	1 459	624	114	403	415
Welfare, religious, and nonprofit membership organizations	1 000	925	75	20	945	418	267	260	60	245	292
Other professional and related services	1 581	1 318	257	20	1 407	623	481	303	152	383	508
Public administration <sup>1</sup>	1 852	1 539	313	9	1 786	1 066	470	310	199	450	507
Postal service	595	459	136	9	586	357	140	89	12	105	52
Federal public administration	153	143	10	—	127	70	30	27	73	89	44
State and local public administration	1 054	909	145	—	1 031	556	290	185	88	236	364
Unemployed persons, last worked 1959 or earlier <sup>2</sup>	135	100	35	—	—	—	—	—	—	—	—

<sup>1</sup>Includes allocated cases not shown separately. <sup>2</sup>See text for explanation.

Table 185. Industry of the Experienced Civilian Labor Force by Race and Sex, and Weeks Worked in 1969 and Experienced Workers Not in the Labor Force by Sex: 1970—Continued

(Data based on sample, see text). For meaning of symbols, see text.)

The State  
Standard Metropolitan Statistical  
Areas of 250,000 or More

GRAND RAPIDS SMSA

	Experienced civilian labor force				Weeks worked in 1969 of the experienced civilian labor force				Year last worked of experienced workers not in labor force		
	Total	White	Negro	Persons of Spanish language	Total	50 to 52 weeks	27 to 49 weeks	1 to 26 weeks	1960-63	1964-68	1969-70
<b>Male, 16 years old and over</b> .....	<b>134 289</b>	<b>129 486</b>	<b>4 357</b>	<b>1 641</b>	<b>133 040</b>	<b>95 109</b>	<b>28 038</b>	<b>9 893</b>	<b>2 733</b>	<b>5 828</b>	<b>11 793</b>
<b>Agriculture, forestry, and fisheries</b> .....	<b>3 507</b>	<b>3 487</b>	<b>3</b>	<b>85</b>	<b>3 448</b>	<b>2 356</b>	<b>552</b>	<b>540</b>	<b>121</b>	<b>362</b>	<b>1 317</b>
Agriculture.....	3 460	3 440	3	85	3 401	2 327	544	530	114	362	1 263
Forestry and fisheries.....	47	47	-	-	47	29	8	10	7	-	54
<b>Mining</b> .....	<b>229</b>	<b>229</b>	<b>-</b>	<b>-</b>	<b>223</b>	<b>143</b>	<b>70</b>	<b>10</b>	<b>4</b>	<b>-</b>	<b>13</b>
<b>Construction</b> .....	<b>11 283</b>	<b>10 926</b>	<b>323</b>	<b>54</b>	<b>11 236</b>	<b>6 858</b>	<b>3 580</b>	<b>798</b>	<b>214</b>	<b>480</b>	<b>1 201</b>
<b>Manufacturing</b> .....	<b>53 647</b>	<b>51 219</b>	<b>2 247</b>	<b>1 079</b>	<b>53 289</b>	<b>40 471</b>	<b>10 381</b>	<b>2 437</b>	<b>1 126</b>	<b>2 410</b>	<b>3 336</b>
Durable goods.....	42 858	40 847	1 881	785	42 571	32 132	8 610	1 829	911	1 996	2 550
Logging.....	21	21	-	-	21	17	4	-	-	-	-
Sawmills, planing mills, and millwork.....	594	554	31	12	584	426	113	45	8	74	34
Miscellaneous wood products.....	361	345	16	-	361	265	68	28	8	5	41
Furniture and fixtures.....	7 363	7 080	245	197	7 336	5 762	1 227	347	249	398	484
Stone, clay, and glass products.....	897	877	20	18	892	704	166	22	25	34	79
Cement, concrete, gypsum, and plaster products.....	587	567	20	-	582	454	112	16	8	29	38
Primary iron and steel industries.....	1 013	847	166	57	997	692	253	52	24	33	96
Primary nonferrous industries.....	2 004	1 787	205	58	1 982	1 450	429	103	40	112	96
Fabricated metal industries, including not specified metal.....	8 395	7 966	406	147	8 330	6 101	1 892	337	102	299	513
Machinery, except electrical.....	8 030	7 934	90	68	7 980	6 311	1 391	278	136	243	327
Office, accounting, and computing machines.....	417	410	7	6	417	374	43	-	12	10	10
Electrical machinery, equipment, and supplies.....	3 334	3 224	105	66	3 320	2 250	888	182	151	277	259
Radio, television, and communication equipment.....	275	275	-	6	275	252	23	-	-	4	11
Motor vehicles and motor vehicle equipment.....	5 135	4 769	350	111	5 103	3 830	1 130	143	62	297	262
Aircraft and parts.....	695	674	13	17	690	539	138	13	-	32	39
Other transportation equipment.....	626	620	6	7	626	469	151	6	10	26	41
Professional and photographic equipment, and watches.....	1 474	1 456	18	-	1 474	1 261	161	52	6	33	26
Ordnance.....	11	11	-	-	11	-	-	-	-	-	-
Miscellaneous manufactures and durable goods—allocated.....	2 905	2 682	210	27	2 864	2 044	599	221	90	128	249
Nondurable goods.....	10 447	10 030	366	294	10 380	8 087	1 706	587	210	391	969
Meat products.....	290	276	7	11	285	207	57	21	-	8	33
Canning and preserving produce, seafoods, and beverages.....	601	584	7	114	601	437	121	43	22	29	97
Bakery products.....	898	816	74	92	894	655	151	88	-	27	70
Other food industries.....	625	615	6	12	625	526	72	27	21	13	48
Yarn, thread, and fabric mills.....	87	76	11	4	87	70	13	4	5	-	22
Other textile mill products.....	394	382	12	-	394	288	74	32	10	18	13
Apparel and other fabricated textile products.....	545	511	34	14	545	396	132	17	-	-	35
Paper and allied products.....	1 199	1 160	32	9	1 192	966	185	41	33	57	99
Printing, publishing, and allied industries.....	2 258	2 230	22	9	2 233	1 740	395	98	52	119	231
Chemicals and allied products.....	1 665	1 627	34	20	1 656	1 406	186	64	20	22	81
Petroleum and coal products.....	60	60	-	-	60	60	-	-	-	4	-
Rubber and miscellaneous plastic products.....	621	563	58	-	614	453	93	68	10	22	60
Footwear, except rubber.....	460	448	7	-	455	375	68	12	23	33	21
Other nondurable goods.....	744	682	62	7	739	508	159	72	14	39	159
Not specified manufacturing industries.....	342	342	-	-	338	252	65	21	5	23	37
<b>Transportation, communications, and other public utilities</b> <sup>1</sup> .....	<b>8 665</b>	<b>8 387</b>	<b>253</b>	<b>44</b>	<b>8 625</b>	<b>6 599</b>	<b>1 718</b>	<b>308</b>	<b>303</b>	<b>503</b>	<b>364</b>
Railroads and railway express service.....	1 366	1 295	53	5	1 360	1 104	230	26	103	179	54
Street railways and bus lines.....	378	360	18	-	378	239	117	22	5	20	20
Trucking service and warehousing.....	3 285	3 239	46	7	3 270	2 408	745	117	72	103	145
Water transportation.....	79	75	4	-	79	47	23	9	-	11	28
Air transportation.....	188	188	-	-	188	156	25	7	5	4	20
All other transportation.....	169	150	19	-	164	123	33	8	-	22	5
Communications.....	1 294	1 263	31	16	1 288	1 113	137	38	32	36	33
Electric and gas utilities.....	1 188	1 139	42	16	1 184	901	252	31	42	75	23
Water supply, sanitary services, and other utilities.....	407	402	5	-	407	328	49	30	18	39	21
<b>Wholesale and retail trade</b> .....	<b>28 204</b>	<b>27 596</b>	<b>543</b>	<b>206</b>	<b>27 858</b>	<b>19 105</b>	<b>5 497</b>	<b>3 256</b>	<b>402</b>	<b>988</b>	<b>2 378</b>
Wholesale trade.....	9 427	9 275	143	90	9 396	7 473	1 449	474	106	339	493
Food and farm products.....	2 421	2 387	34	43	2 402	1 885	335	182	25	88	197
Retail trade.....	18 777	18 321	400	116	18 462	11 632	4 048	2 782	296	649	2 285
Hardware, farm equipment, and building material retailing.....	1 182	1 182	-	14	1 176	906	196	74	24	50	86
General merchandise stores.....	1 959	1 916	43	21	1 936	1 322	449	165	16	51	230
Food stores.....	3 969	3 864	99	29	3 924	2 376	797	166	53	111	390
Motor vehicles and accessories retailing.....	2 149	2 087	44	-	2 144	1 712	266	166	63	72	97
Gasoline service stations.....	1 793	1 772	21	7	1 728	895	565	268	11	54	247
Apparel and accessories stores.....	804	787	17	-	797	547	136	114	17	40	137
Furniture, home furnishings, and equipment stores.....	1 210	1 197	13	-	1 204	910	199	95	23	59	75
Eating and drinking places.....	2 636	2 556	59	38	2 531	944	820	767	15	90	593
Drug stores.....	461	455	-	-	461	303	91	67	21	13	37
Other retail trade.....	2 614	2 505	104	7	2 561	1 717	529	315	55	108	393
<b>Finance, insurance, and real estate</b> .....	<b>4 472</b>	<b>4 449</b>	<b>17</b>	<b>25</b>	<b>4 441</b>	<b>3 673</b>	<b>597</b>	<b>171</b>	<b>73</b>	<b>155</b>	<b>220</b>
Banking and credit agencies.....	966	961	5	7	957	891	42	24	19	68	78
Insurance.....	2 108	2 096	12	18	2 101	1 790	282	29	22	55	46
Other finance and real estate.....	1 398	1 392	-	-	1 383	992	273	118	32	32	96
<b>Business and repair services</b> .....	<b>4 582</b>	<b>4 354</b>	<b>167</b>	<b>33</b>	<b>4 462</b>	<b>2 957</b>	<b>910</b>	<b>595</b>	<b>42</b>	<b>115</b>	<b>453</b>
Advertising.....	247	247	-	-	247	217	16	14	5	-	24
Commercial research, management, and programing services.....	375	363	5	-	371	296	44	31	-	-	15
Automobile services.....	1 545	1 447	50	26	1 478	884	345	249	26	45	157
Other business and repair services.....	2 415	2 297	112	7	2 366	1 560	505	301	11	70	257
<b>Personal services</b> .....	<b>2 190</b>	<b>2 062</b>	<b>123</b>	<b>7</b>	<b>2 160</b>	<b>1 422</b>	<b>466</b>	<b>272</b>	<b>90</b>	<b>161</b>	<b>370</b>
Private households.....	134	134	-	-	134	38	40	56	10	31	104
Hotels and lodging places.....	604	553	51	7	587	307	158	122	26	72	181
Laundering, cleaning, and other gorment services.....	591	540	46	-	582	448	92	42	15	36	46
Barber and beauty shops.....	475	467	8	-	475	361	101	13	8	9	5
Other personal services.....	386	368	18	-	382	268	75	39	31	13	34
<b>Entertainment and recreation services</b> .....	<b>733</b>	<b>673</b>	<b>55</b>	<b>-</b>	<b>714</b>	<b>350</b>	<b>253</b>	<b>111</b>	<b>17</b>	<b>36</b>	<b>199</b>
<b>Professional and related services</b> .....	<b>12 562</b>	<b>12 038</b>	<b>483</b>	<b>83</b>	<b>12 467</b>	<b>7 571</b>	<b>3 635</b>	<b>1 261</b>	<b>213</b>	<b>393</b>	<b>917</b>
Health services.....	2 838	2 624	182	19	2 804	1 858	674	272	70	100	120
Educational services, government.....	3 422	3 263	154	19	3 392	1 679	1 394	319	26	90	266
Educational services, private.....	2 454	2 427	27	24	2 436	1 167	948	321	17	49	193
Welfare, religious, and nonprofit membership organizations.....	1 747	1 660	87	5	1 738	1 287	274	177	42	84	178
Other professional and related services.....	2 101	2 064	33	16	2 097	1 580	345	172	58	70	160
<b>Public administration</b> <sup>1</sup> .....	<b>4 150</b>	<b>4 011</b>	<b>133</b>	<b>25</b>	<b>4 117</b>	<b>3 604</b>	<b>378</b>	<b>134</b>	<b>128</b>	<b>225</b>	<b>405</b>
Postal service.....	1 297	1 254	43	8	1 290	1 154	98	38	20	49	73
Federal public administration.....	534	515	19	14	520	434	73	13	26	50	142
State and local public administration.....	2 230	2 153	71	3	2 218	1 943	203	72	56	124	179
<b>Unemployed persons, last worked 1959 or earlier</b> <sup>2</sup> .....	<b>65</b>	<b>55</b>	<b>10</b>	<b>-</b>	<b>...</b>	<b>...</b>	<b>...</b>	<b>...</b>	<b>...</b>	<b>...</b>	<b>...</b>

<sup>1</sup>Includes allocated cases not shown separately.



Table 185. Industry of the Experienced Civilian Labor Force by Race and Sex, and Weeks Worked in 1969 and Experienced Workers Not in the Labor Force by Sex: 1970—Continued

[Data based on sample, see text. For meaning of symbols, see text]

The State  
Standard Metropolitan Statistical  
Areas of 250,000 or More

GRAND RAPIDS SMSA—Continued

Female, 16 years old and over

	Experienced civilian labor force				Weeks worked in 1969 of the experienced civilian labor force				Year last worked of experienced workers not in labor force		
	Total	White	Negro	Persons of Spanish language	Total	50 to 52 weeks	27 to 49 weeks	1 to 26 weeks	1960-63	1964-68	1969-70
<b>GRAND RAPIDS SMSA—Continued</b>											
<b>Female, 16 years old and over</b>	<b>81 337</b>	<b>77 484</b>	<b>3 494</b>	<b>959</b>	<b>78 384</b>	<b>36 162</b>	<b>26 506</b>	<b>15 716</b>	<b>7 051</b>	<b>17 990</b>	<b>21 355</b>
Agriculture, forestry, and fisheries	604	568	23	78	545	144	161	240	63	137	645
Agriculture	604	568	23	78	545	144	161	240	52	131	645
Forestry and fisheries	—	—	—	—	—	—	—	—	11	6	—
Mining	9	9	—	—	9	9	—	—	—	4	5
Construction	659	650	9	20	640	431	104	105	27	97	189
Manufacturing	20 065	19 020	901	413	19 543	10 102	6 519	2 922	1 663	4 818	4 418
Durable goods	13 605	12 830	673	241	13 275	6 660	4 643	1 972	1 097	3 053	2 612
Logging	—	—	—	—	—	—	—	—	—	—	—
Sawmills, planing mills, and millwork	109	104	5	—	109	56	44	9	16	46	37
Miscellaneous wood products	193	189	—	6	185	104	56	25	26	26	64
Furniture and fixtures	2 027	1 899	122	73	1 980	1 110	609	261	149	360	438
Stone, clay, and glass products	182	179	3	13	182	76	73	33	21	38	51
Cement, concrete, gypsum, and plaster products	—	11	—	—	—	11	—	—	—	—	—
Primary iron and steel industries	114	114	—	6	114	52	45	17	17	11	21
Primary nonferrous industries	385	339	46	7	382	210	127	47	5	83	116
Fabricated metal industries, including not specified metal	3 290	3 107	165	33	3 213	1 599	1 133	481	227	817	676
Machinery, except electrical	1 441	1 409	23	6	1 417	810	437	170	92	255	188
Office, accounting, and computing machines	281	271	4	—	281	172	80	29	9	51	32
Electrical machinery, equipment, and supplies	1 768	1 719	34	45	1 736	691	720	325	145	507	407
Radio, television, and communication equipment	221	221	—	7	221	130	64	27	27	137	71
Motor vehicles and motor vehicle equipment	1 974	1 810	152	15	1 952	898	759	295	96	482	211
Aircraft and parts	204	193	4	—	199	115	67	17	60	58	19
Other transportation equipment	155	155	—	—	146	85	45	16	17	31	28
Professional and photographic equipment, and watches	759	730	19	9	747	454	226	67	81	100	58
Ordnance	5	5	—	—	5	5	—	—	4	—	—
Miscellaneous manufactures and durable goods—allocated	999	878	100	28	908	395	302	211	141	239	298
Nondurable goods	6 340	6 075	228	163	6 148	3 393	1 815	940	528	1 712	1 777
Meat products	128	124	—	6	125	93	12	20	5	41	22
Canning and preserving produce, seafoods, and beverages	240	233	—	66	235	120	65	50	39	99	123
Bakery products	543	530	13	24	526	284	183	59	31	145	162
Other food industries	244	244	—	12	244	122	86	36	28	72	93
Yarn, thread, and fabric mills	60	60	—	—	60	29	16	15	—	4	5
Other textile mill products	219	210	9	—	214	143	61	10	10	72	83
Apparel and other fabricated textile products	873	769	93	6	850	421	345	84	55	260	167
Paper and allied products	481	477	4	—	467	291	110	66	39	151	79
Printing, publishing, and allied industries	1 400	1 367	27	—	1 370	721	395	254	133	238	303
Chemicals and allied products	788	777	11	25	765	438	211	116	62	175	237
Petroleum and coal products	6	6	—	—	6	6	—	—	—	3	—
Rubber and miscellaneous plastic products	444	407	33	11	435	227	129	79	27	115	157
Footwear, except rubber	488	488	—	6	483	294	106	83	60	182	149
Other nondurable goods	426	383	38	7	368	204	96	68	39	155	197
Not specified manufacturing industries	120	115	—	9	120	49	61	10	38	53	29
Transportation, communications, and other public utilities <sup>1</sup>	2 664	2 545	115	—	2 630	1 565	706	359	348	540	447
Railroads and railway express service	83	81	2	—	83	49	23	11	5	20	4
Street railways and bus lines	401	401	—	—	396	56	246	94	10	28	40
Trucking service and warehousing	545	533	12	—	545	375	130	40	63	97	89
Water transportation	—	—	—	—	—	—	—	—	6	5	10
Air transportation	37	37	—	—	37	33	4	—	—	21	—
All other transportation	83	83	—	—	79	39	15	25	—	18	—
Communications	1 144	1 055	85	—	1 119	748	222	149	211	254	258
Electric and gas utilities	250	234	16	—	250	206	26	18	29	46	12
Water supply, sanitary services, and other utilities	38	38	—	—	38	10	24	4	10	9	9
Wholesale and retail trade	20 553	20 079	407	185	19 569	8 261	6 369	4 939	1 702	5 030	6 821
Wholesale trade	2 738	2 709	19	53	2 617	1 439	718	460	251	679	661
Food and farm products	848	848	—	6	809	383	262	164	96	238	236
Retail trade	17 815	17 370	388	132	16 952	6 822	5 651	4 479	1 451	4 351	6 160
Hardware, farm equipment, and building material retailing	289	289	—	13	276	168	64	44	26	75	63
General merchandise stores	4 929	4 775	126	18	4 786	2 175	1 446	1 165	478	1 402	1 505
Food stores	2 702	2 654	48	19	2 614	1 230	793	591	229	579	834
Motor vehicles and accessories retailing	325	319	6	—	306	129	123	54	24	66	57
Gasoline service stations	93	93	—	—	84	56	—	28	—	4	19
Apparel and accessories stores	1 414	1 360	54	9	1 363	539	528	296	105	345	443
Furniture, home furnishings, and equipment stores	480	470	10	—	476	221	196	59	70	129	148
Eating and drinking places	4 597	4 474	94	39	4 264	1 121	1 548	1 595	287	1 014	1 786
Drugstores	697	691	6	6	659	283	260	116	58	182	218
Other retail trade	2 289	2 245	44	28	2 124	900	693	531	174	555	1 087
Finance, insurance, and real estate	4 576	4 477	99	54	4 484	2 922	987	575	693	1 258	815
Banking and credit agencies	1 972	1 928	44	42	1 942	1 319	417	206	371	610	313
Insurance	1 661	1 651	10	12	1 647	1 045	357	245	206	456	253
Other finance and real estate	943	898	45	—	895	558	213	124	116	192	249
Business and repair services	1 828	1 744	59	22	1 763	827	534	402	135	461	698
Advertising	166	162	—	—	166	105	23	38	14	18	34
Commercial research, management, and programing services	226	226	—	—	216	68	65	83	6	49	76
Automobile services	151	139	6	7	151	72	59	20	5	44	38
Other business and repair services	1 285	1 217	53	15	1 230	582	387	261	110	350	550
Personal services	5 551	4 927	605	45	5 193	2 125	1 722	1 346	522	1 174	1 744
Private households	1 655	1 461	175	11	1 524	380	526	618	159	394	613
Hotels and lodging places	862	731	131	9	783	345	219	219	87	213	337
Laundering, cleaning, and other garment services	1 076	879	197	8	1 027	502	314	211	89	201	352
Barber and beauty shops	1 220	1 187	33	8	1 196	632	421	143	127	247	188
Other personal services	738	669	69	9	663	266	242	155	60	119	254
Entertainment and recreation services	623	607	16	7	608	140	248	220	10	142	327
Professional and related services	22 718	21 469	1 176	109	22 046	8 807	8 846	4 393	1 718	4 013	4 811
Health services	9 216	8 656	527	51	9 031	4 789	2 520	1 722	804	1 741	1 907
Educational services, government	5 995	5 648	325	9	5 808	1 223	3 306	1 279	395	1 211	1 310
Educational services, private	3 636	3 530	93	35	3 549	767	2 048	734	212	480	664
Welfare, religious, and nonprofit membership organizations	1 718	1 591	122	8	1 685	959	435	291	118	301	300
Other professional and related services	2 153	2 044	109	6	1 973	1 069	537	367	189	280	630
Public administration <sup>1</sup>	1 383	1 289	80	26	1 354	829	310	215	170	316	435
Pastal service	267	251	16	—	262	153	59	50	18	48	65
Federal public administration	264	231	19	19	244	146	46	52	75	113	101
State and local public administration	830	785	45	7	826	515	198	113	68	155	241
Unemployed persons, last worked 1959 or earlier <sup>2</sup>	104	100	4	—	...	...	...	...	...	...	...

<sup>1</sup>Includes allocated cases not shown separately. <sup>2</sup>See text for explanation.

Table 185. Industry of the Experienced Civilian Labor Force by Race and Sex, and Weeks Worked in 1969 and Experienced Workers Not in the Labor Force by Sex: 1970—Continued

[Data based on sample, see text. For meaning of symbols, see text]

The State Standard Metropolitan Statistical Areas of 250,000 or More	Experienced civilian labor force				Weeks worked in 1969 of the experienced civilian labor force				Year last worked of experienced workers not in labor force		
	Total	White	Negro	Persons of Spanish language	Total	50 to 52 weeks	27 to 49 weeks	1 to 26 weeks	1960-63	1964-68	1969-70
<b>LANSING SMSA</b>											
Male, 16 years old and over .....	96 695	92 956	3 197	1 929	95 767	63 507	22 757	9 503	1 481	4 205	15 587
Agriculture, forestry, and fisheries .....	3 428	3 405	23	70	3 334	2 330	542	462	185	259	1 182
Agriculture .....	3 407	3 384	23	63	3 313	2 309	542	462	185	251	1 150
Forestry and fisheries .....	21	21	—	7	21	21	—	—	—	8	32
Mining .....	227	223	4	8	227	158	60	9	7	5	20
Construction .....	9 133	8 743	328	235	9 060	5 222	3 156	682	121	305	1 343
Manufacturing .....	32 249	30 586	1 527	938	32 082	23 374	7 053	1 655	611	1 719	9 950
Durable goods .....	29 186	27 617	1 446	894	29 067	21 182	6 549	1 336	567	1 574	3 156
Logging .....	23	23	—	—	19	6	8	5	—	—	8
Sawmills, planing mills, and millwork .....	195	195	—	—	195	123	29	43	—	10	39
Miscellaneous wood products .....	4	4	—	—	4	—	—	—	—	—	9
Furniture and fixtures .....	141	135	6	5	131	90	17	24	4	19	49
Stone, clay, and glass products .....	631	631	—	4	631	499	116	16	22	8	95
Cement, concrete, gypsum, and plaster products .....	148	148	—	—	148	106	37	5	6	—	35
Primary iron and steel industries .....	1 674	1 593	76	21	1 664	1 235	331	98	33	120	248
Primary nonferrous industries .....	358	353	5	—	358	280	68	10	4	6	76
Fabricated metal industries, including not specified metal .....	1 192	1 183	5	21	1 177	749	301	127	22	48	297
Machinery, except electrical .....	2 970	2 946	8	20	2 960	2 379	511	212	61	123	428
Office, accounting, and computing machines .....	90	90	—	—	90	67	—	—	—	—	20
Electrical machinery, equipment, and supplies .....	243	243	—	5	243	186	45	12	16	23	149
Radio, television, and communication equipment .....	83	83	—	—	83	72	11	—	16	15	22
Motor vehicles and motor vehicle equipment .....	19 486	18 308	1 089	754	19 423	14 085	4 729	629	333	1 089	1 343
Aircraft and parts .....	33	33	—	—	33	22	11	—	—	—	21
Other transportation equipment .....	71	63	8	—	71	33	15	23	5	19	19
Professional and photographic equipment, and watches .....	45	45	—	—	38	33	—	5	—	—	5
Ordnance .....	—	—	—	—	—	—	—	—	—	—	—
Miscellaneous manufactures and durable goods—allocated .....	2 120	1 862	249	64	2 120	1 620	368	132	62	104	370
Nondurable goods .....	2 978	2 884	81	44	2 930	2 151	475	304	44	138	767
Meat products .....	66	58	—	8	66	35	5	26	—	9	33
Canning and preserving produce, seafoods, and beverages .....	205	183	22	—	205	131	56	18	5	14	102
Bakery products .....	136	132	4	—	136	117	10	9	—	5	26
Other food industries .....	574	574	—	10	574	470	69	35	5	25	90
Yarn, thread, and fabric mills .....	17	17	—	—	12	12	—	—	—	—	15
Other textile mill products .....	13	13	—	—	13	6	3	4	—	—	16
Apparel and other fabricated textile products .....	54	54	—	—	54	38	11	5	—	—	10
Paper and allied products .....	122	113	9	—	122	91	10	21	—	5	88
Printing, publishing, and allied industries .....	1 108	1 093	15	8	1 098	791	206	101	27	35	125
Chemicals and allied products .....	188	188	—	6	161	130	17	14	7	22	59
Petroleum and coal products .....	56	51	—	—	56	17	22	17	—	—	5
Rubber and miscellaneous plastic products .....	251	242	9	12	245	197	31	17	—	13	88
Footwear, except rubber .....	6	6	—	—	6	6	—	—	—	—	—
Other nondurable goods .....	182	160	22	—	182	110	35	37	—	10	110
Not specified manufacturing industries .....	85	85	—	—	85	41	29	15	—	7	27
Transportation, communications, and other public utilities <sup>1</sup> .....	4 299	4 204	79	32	4 269	3 199	818	252	110	201	555
Railroads and railway express service .....	387	383	4	—	387	316	61	10	20	45	70
Street railroads and bus lines .....	183	172	11	—	183	102	60	21	5	—	28
Trucking service and warehousing .....	1 174	1 146	23	9	1 174	785	292	97	13	61	144
Water transportation .....	6	6	—	—	6	—	6	—	—	—	26
Air transportation .....	98	98	—	—	98	81	17	—	5	—	14
All other transportation .....	86	86	—	—	86	57	10	19	—	7	9
Communications .....	858	850	8	6	848	646	145	57	4	16	77
Electric and gas utilities .....	987	966	16	8	981	821	145	15	33	47	91
Water supply, sanitary services, and other utilities .....	351	334	17	4	346	260	61	25	18	15	51
Wholesale and retail trade .....	16 920	16 520	356	214	16 663	10 057	3 915	2 691	87	662	3 597
Wholesale trade .....	3 725	3 663	47	37	3 704	2 738	631	335	22	131	456
Food and farm products .....	807	801	6	20	802	584	144	74	4	30	138
Retail trade .....	13 195	12 857	309	177	12 959	7 319	3 284	2 356	65	531	3 141
Hardware, farm equipment, and building material retailing .....	831	816	11	12	831	612	165	54	16	42	104
General merchandise stores .....	1 489	1 421	68	18	1 475	877	363	235	5	31	467
Food stores .....	1 952	1 928	24	28	1 905	921	573	411	—	70	541
Motor vehicles and accessories retailing .....	1 640	1 625	15	29	1 626	1 258	215	153	10	42	148
Gasoline service stations .....	1 495	1 477	14	9	1 474	720	452	302	5	57	336
Apparel and accessories stores .....	661	637	24	5	656	331	172	153	5	21	202
Furniture, home furnishings, and equipment stores .....	712	704	8	11	712	511	142	59	—	24	110
Eating and drinking places .....	2 156	2 061	84	25	2 052	749	667	636	14	119	725
Drugstores .....	269	258	11	—	269	164	70	35	5	23	80
Other retail trade .....	1 990	1 930	50	40	1 959	1 176	465	318	5	102	428
Finance, insurance, and real estate .....	3 323	3 300	14	22	3 311	2 595	528	188	48	104	345
Banking and credit agencies .....	769	769	—	5	769	622	83	64	19	44	83
Insurance .....	1 474	1 462	7	13	1 474	1 228	209	37	15	27	99
Other finance and real estate .....	1 080	1 069	7	4	1 068	745	236	87	14	33	163
Business and repair services .....	2 312	2 247	56	50	2 260	1 424	573	263	34	99	412
Advertising .....	144	139	5	6	144	86	41	17	—	7	24
Commercial research, management, and programing services .....	211	200	6	10	211	158	35	18	—	9	53
Automobile services .....	628	608	20	—	613	355	178	80	5	28	100
Other business and repair services .....	1 329	1 300	25	34	1 292	825	319	148	29	55	235
Personal services .....	1 580	1 516	60	29	1 552	848	323	381	32	101	419
Private households .....	162	151	11	—	151	20	46	85	—	7	79
Hotels and lodging places .....	502	476	22	5	492	182	150	160	11	33	208
Laundry, cleaning, and other gorment services .....	307	299	8	17	300	204	44	52	4	17	48
Barber and beauty shops .....	279	279	—	7	279	225	38	16	17	29	10
Other personal services .....	330	311	19	—	330	217	45	68	—	15	74
Entertainment and recreation services .....	602	588	14	21	584	260	177	147	4	42	400
Professional and related services .....	16 502	15 676	574	244	16 340	9 039	4 891	2 410	149	466	2 393
Health services .....	1 904	1 833	55	37	1 882	1 133	581	168	31	97	293
Educational services, government .....	9 799	9 230	358	116	9 705	4 752	3 369	1 584	71	232	1 344
Educational services, private .....	1 707	1 626	61	33	1 701	930	506	265	5	59	253
Welfare, religious, and nonprofit membership organizations .....	1 368	1 321	47	12	1 362	1 109	143	110	28	54	172
Other professional and related services .....	1 724	1 666	53	46	1 690	1 115	292	283	14	24	331
Public administration <sup>1</sup> .....	6 109	5 937	162	66	6 085	5 001	721	363	93	242	971
Postal service .....	789	751	31	9	789	648	100	41	8	20	190
Federal public administration .....	688	677	8	4	672	557	77	38	15	80	355
State and local public administration .....	4 468	4 345	123	46	4 460	3 694	522	244	66	127	362
Unemployed persons, last worked 1959 or earlier <sup>2</sup> .....	11	11	—	—	...	...	...	...	...	...	...

<sup>1</sup>Includes allocated cases not shown separately. <sup>2</sup>See text for explanation.

Table 185. Industry of the Experienced Civilian Labor Force by Race and Sex, and Weeks Worked in 1969 and Experienced Workers Not in the Labor Force by Sex: 1970—Continued

[Data based on sample, see text. For meaning of symbols, see text]

The State  
Standard Metropolitan Statistical  
Areas of 250,000 or More

LANSING SMSA—Continued

	Experienced civilian labor force				Weeks worked in 1969 of the experienced civilian labor force				Year last worked of experienced workers not in labor force		
	Total	White	Negro	Persons of Spanish language	Total	50 to 52 weeks	27 to 49 weeks	1 to 26 weeks	1960-63	1964-68	1969-70
<b>Female, 16 years old and over</b> .....	<b>60 409</b>	<b>57 446</b>	<b>2 569</b>	<b>934</b>	<b>58 102</b>	<b>26 079</b>	<b>19 737</b>	<b>12 286</b>	<b>4 572</b>	<b>13 337</b>	<b>20 036</b>
Agriculture, forestry, and fisheries .....	437	429	8	—	398	222	123	53	27	135	238
Agriculture .....	431	423	8	—	392	216	123	53	27	120	232
Forestry and fisheries .....	6	6	—	—	6	6	—	—	—	15	6
<b>Mining</b> .....	<b>45</b>	<b>45</b>	<b>—</b>	<b>—</b>	<b>45</b>	<b>33</b>	<b>—</b>	<b>12</b>	<b>5</b>	<b>10</b>	<b>4</b>
<b>Construction</b> .....	<b>746</b>	<b>729</b>	<b>12</b>	<b>—</b>	<b>723</b>	<b>511</b>	<b>146</b>	<b>66</b>	<b>53</b>	<b>153</b>	<b>169</b>
<b>Manufacturing</b> .....	<b>6 793</b>	<b>6 308</b>	<b>451</b>	<b>133</b>	<b>6 554</b>	<b>3 440</b>	<b>2 200</b>	<b>914</b>	<b>602</b>	<b>1 619</b>	<b>2 074</b>
Durable goods .....	5 104	4 684	398	105	4 944	2 692	1 658	594	419	1 045	1 326
Logging .....	25	25	—	—	15	5	5	5	—	11	11
Sawmills, planing mills, and millwork .....	14	14	—	—	14	8	—	6	—	5	—
Miscellaneous wood products .....	72	72	—	14	51	26	10	15	13	25	23
Furniture and fixtures .....	355	355	—	8	336	195	89	52	41	44	105
Stone, clay, and glass products .....	23	23	—	—	23	19	4	—	5	—	10
Cement, concrete, gypsum, and plaster products .....	85	77	8	—	85	52	21	12	—	27	21
Primary iron and steel industries .....	256	256	—	7	250	112	99	39	5	69	52
Primary nonferrous industries .....	366	366	—	8	357	166	125	66	34	70	141
Fabricated metal industries, including not specified metal .....	479	476	3	—	479	300	110	69	39	87	101
Machinery, except electrical .....	37	37	—	—	37	11	19	7	4	4	11
Office, accounting, and computing machines .....	197	190	7	17	184	93	76	15	54	129	135
Electrical machinery, equipment, and supplies .....	44	37	7	9	44	12	22	10	11	23	37
Radio, television, and communication equipment .....	2 855	2 524	315	39	2 819	1 558	1 029	232	197	498	504
Motor vehicles and motor vehicle equipment .....	4	4	—	—	4	4	—	—	5	—	5
Aircraft and parts .....	20	20	—	—	15	10	5	—	5	10	28
Other transportation equipment .....	5	5	—	—	5	5	—	—	5	—	5
Professional and photographic equipment, and watches .....	—	—	—	—	—	—	—	—	4	5	5
Ordnance .....	371	300	65	12	330	158	89	83	22	60	187
Miscellaneous manufactures and durable goods—allocated .....	1 637	1 581	44	21	1 558	721	527	310	178	574	716
Nondurable goods .....	14	14	—	—	14	9	—	5	—	16	5
Meat products .....	58	52	—	—	51	26	19	6	26	46	83
Canning and preserving produce, seafoods, and beverages .....	39	39	—	—	39	25	9	5	—	19	10
Bakery products .....	138	138	—	6	138	77	26	35	7	69	37
Other food industries .....	21	21	—	—	17	6	—	11	—	22	28
Yarn, thread, and fabric mills .....	—	—	—	—	—	—	—	—	—	5	3
Other textile mill products .....	74	68	6	6	59	22	27	10	25	41	53
Apparel and other fabricated textile products .....	28	28	—	—	28	—	13	15	14	5	13
Paper and allied products .....	810	800	10	4	791	362	302	127	63	157	253
Printing, publishing, and allied industries .....	65	63	2	5	59	20	20	19	4	35	44
Chemicals and allied products .....	—	—	—	—	—	—	—	—	—	5	—
Petroleum and coal products .....	227	218	9	—	213	97	53	63	—	81	92
Rubber and miscellaneous plastic products .....	17	17	—	—	17	10	7	—	5	15	15
Footwear, except rubber .....	146	123	17	7	132	67	46	19	34	58	80
Other nondurable goods .....	52	43	9	7	52	27	15	10	5	—	34
Not specified manufacturing industries .....	1 461	1 397	58	14	1 434	752	475	207	191	337	407
Transportation, communications, and other public utilities <sup>1</sup> .....	5	5	—	—	5	—	5	—	11	4	9
Railroads and railway express service .....	300	290	10	—	300	12	227	61	—	22	31
Street railways and bus lines .....	164	148	16	—	159	106	32	21	9	26	29
Trucking service and warehousing .....	16	16	—	—	16	11	—	5	—	6	9
Water transportation .....	115	95	14	6	115	60	29	26	—	26	49
Air transportation .....	579	567	12	8	567	361	130	76	128	199	183
All other transportation .....	179	179	—	—	179	137	30	12	25	34	26
Communications .....	40	40	—	—	30	25	5	—	—	—	20
Electric and gas utilities .....	13 115	12 652	382	211	12 409	4 806	3 849	3 754	1 171	3 674	6 685
Water supply, sanitary services, and other utilities .....	979	911	56	20	938	514	243	181	85	240	330
Wholesale and retail trade .....	117	114	—	5	109	53	33	18	16	61	75
Food and farm products .....	12 136	11 741	326	191	11 471	4 292	3 606	3 573	1 086	3 434	6 355
Retail trade .....	223	223	—	—	217	136	33	48	36	31	101
Hardware, farm equipment, and building material retailing .....	3 210	3 074	113	42	3 095	1 252	811	1 032	325	1 111	1 641
General merchandise stores .....	1 269	1 226	34	12	1 203	506	331	366	119	373	543
Food stores .....	220	214	6	—	214	134	28	52	14	82	75
Motor vehicles and accessories retailing .....	71	71	—	—	71	32	15	24	—	36	30
Gasoline service stations .....	1 212	1 172	28	9	1 165	441	353	371	104	195	656
Apparel and accessories stores .....	297	292	5	—	289	144	97	48	6	60	150
Furniture, home furnishings, and equipment stores .....	3 212	3 123	75	91	2 968	842	1 153	973	263	1 029	1 912
Eating and drinking places .....	444	429	9	—	405	134	131	140	82	138	176
Drugstores .....	1 978	1 917	56	37	1 844	671	654	519	137	379	1 071
Other retail trade .....	3 695	3 598	68	63	3 555	1 998	940	617	404	889	912
Finance, insurance, and real estate .....	1 396	1 350	28	16	1 343	762	339	242	135	404	331
Banking and credit agencies .....	1 495	1 467	22	33	1 435	852	401	182	219	320	396
Insurance .....	804	781	18	14	777	384	200	193	50	165	185
Other finance and real estate .....	1 329	1 250	74	18	1 253	461	426	366	71	358	736
Business and repair services .....	88	83	—	8	72	33	22	17	19	43	68
Advertising .....	176	176	—	—	162	61	49	52	8	35	69
Commercial research, management, and programing services .....	113	113	—	—	113	41	42	30	9	37	42
Automobile services .....	952	878	72	10	906	326	313	267	35	243	557
Other business and repair services .....	4 074	3 788	269	168	3 834	1 410	1 294	1 130	376	1 135	1 492
Personal services .....	1 240	1 108	132	21	1 144	216	420	508	129	394	365
Private households .....	860	787	60	30	819	284	317	217	37	282	454
Hotels and lodging places .....	667	633	34	88	641	331	153	158	73	231	205
Laundering, cleaning, and other garment services .....	810	791	19	12	779	356	279	144	85	158	194
Barber and beauty shops .....	497	469	24	17	451	223	125	103	52	70	274
Other personal services .....	381	339	42	11	351	105	135	111	33	85	356
Entertainment and recreation services .....	22 598	21 438	979	267	21 991	8 426	9 169	4 396	1 322	4 005	5 842
Professional and related services .....	6 030	5 760	219	135	5 868	3 140	1 842	886	522	1 510	1 473
Health services .....	10 476	9 852	518	96	10 285	2 946	5 126	2 213	459	1 545	2 637
Educational services, government .....	2 763	2 633	121	29	2 686	639	1 373	674	119	396	616
Educational services, private .....	1 374	1 322	49	—	1 341	857	264	220	100	255	410
Welfare, religious, and nonprofit membership organizations .....	1 955	1 871	72	7	1 811	844	564	403	122	299	706
Other professional and related services .....	5 653	5 391	226	44	5 555	3 915	980	660	317	937	1 119
Public administration <sup>1</sup> .....	350	330	20	—	350	223	79	48	14	43	112
Postal service .....	430	401	15	—	426	239	103	84	80	163	131
Federal public administration .....	4 659	4 465	178	44	4 582	3 321	763	498	212	709	803
State and local public administration .....	82	82	—	5	...	...	...	...	...	...	...
Unemployed persons, last worked 1959 or earlier <sup>2</sup> .....	...	...	...	...	...	...	...	...	...	...	...

<sup>1</sup>Includes allocated cases not shown separately. <sup>2</sup>See text for explanation.

Table 185. Industry of the Experienced Civilian Labor Force by Race and Sex, and Weeks Worked in 1969 and Experienced Workers Not in the Labor Force by Sex: 1970—Continued

[Data based on sample, see text. For meaning of symbols, see text]

The State  
Standard Metropolitan Statistical  
Areas of 250,000 or More

TOLEDO, OHIO-MICH., SMSA

	Experienced civilian labor force				Weeks worked in 1969 of the experienced civilian labor force				Year last worked of experienced workers not in labor force		
	Total	White	Negro	Persons of Spanish language	Total	50 to 52 weeks	27 to 49 weeks	1 to 26 weeks	1960-63	1964-68	1969-70
<b>Male, 16 years old and over</b> .....	175 656	163 547	11 551	2 484	173 740	124 581	37 393	11 766	4 144	8 141	17 136
<b>Agriculture, forestry, and fisheries</b> .....	3 599	3 472	109	68	3 489	2 279	783	427	160	292	1 306
Agriculture.....	3 449	3 327	104	68	3 350	2 177	765	408	153	283	1 295
Forestry and fisheries.....	150	145	5	—	139	102	18	19	7	9	11
<b>Mining</b> .....	408	383	25	11	408	301	77	30	20	19	55
<b>Construction</b> .....	14 118	12 928	1 125	148	14 028	7 766	5 431	831	285	584	1 578
<b>Manufacturing</b> .....	74 618	68 962	5 457	1 417	74 002	57 388	13 640	2 974	1 888	3 808	5 004
Durable goods.....	59 931	55 118	4 668	1 174	59 447	46 031	11 276	2 140	1 538	3 035	3 709
Logging.....	5	—	—	—	5	—	—	5	—	—	5
Sawmills, planing mills, and millwork.....	289	285	4	—	289	220	64	5	—	6	19
Miscellaneous wood products.....	155	139	16	—	155	112	28	15	18	5	7
Furniture and fixtures.....	1 241	1 216	25	13	1 226	835	223	68	12	22	91
Stone, clay, and glass products.....	10 348	9 915	413	154	10 301	8 463	1 547	291	166	408	414
Cement, concrete, gypsum, and plaster products.....	1 889	1 809	70	49	1 889	1 577	248	64	12	52	54
Primary iron and steel industries.....	2 984	2 347	628	105	2 952	2 258	566	128	102	163	358
Primary nonferrous industries.....	2 457	2 146	311	22	2 454	1 860	503	91	50	153	222
Fabricated metal industries, including not specified metal.....	6 925	6 492	413	167	6 878	5 230	1 407	241	145	322	381
Machinery, except electrical.....	7 946	7 662	264	142	7 911	6 262	1 314	335	17	389	486
Office, accounting, and computing machines.....	1 177	1 097	76	28	1 172	978	157	37	16	34	41
Electrical machinery, equipment, and supplies.....	2 776	2 646	130	30	2 745	2 185	466	94	162	159	198
Radio, television, and communication equipment.....	209	209	—	6	209	177	32	—	—	4	16
Motor vehicles and motor vehicle equipment.....	19 412	17 676	1 688	422	19 300	14 900	3 887	513	495	1 126	950
Aircraft and parts.....	719	672	43	6	719	594	109	16	6	11	15
Other transportation equipment.....	597	565	22	42	584	319	247	18	4	24	75
Professional and photographic equipment, and watches.....	242	220	22	—	242	181	43	18	14	5	31
Ordnance.....	64	49	15	—	64	48	16	—	17	—	7
Miscellaneous manufactures and durable goods—allocated.....	3 771	3 083	674	64	3 622	2 464	856	302	149	237	450
Non-durable goods.....	14 312	13 499	764	221	14 180	11 088	2 294	798	308	720	1 264
Meat products.....	154	145	9	—	149	122	13	14	8	5	36
Canning and preserving produce, seafoods, and beverages.....	972	871	91	54	964	714	186	64	—	46	168
Bakery products.....	416	370	46	—	410	338	51	21	—	17	8
Other food industries.....	1 215	1 138	55	35	1 203	936	186	81	37	76	169
Yarn, thread, and fabric mills.....	175	149	26	5	175	145	20	10	9	—	—
Other textile mill products.....	502	458	44	7	502	410	84	8	6	14	18
Apparel and other fabricated textile products.....	176	176	—	8	176	116	44	16	11	6	26
Paper and allied products.....	2 395	2 333	62	13	2 379	1 782	483	114	66	153	159
Printing, publishing, and allied industries.....	2 120	2 062	58	15	2 100	1 707	260	133	28	62	179
Chemicals and allied products.....	2 161	2 089	60	26	2 154	1 736	325	93	28	94	127
Petroleum and coal products.....	1 833	1 735	98	23	1 833	1 537	265	31	70	121	103
Rubber and miscellaneous plastic products.....	1 368	1 254	114	28	1 354	1 042	210	102	19	69	132
Footwear, except rubber.....	10	10	—	—	10	6	—	4	—	2	—
Other non-durable goods.....	815	709	101	7	771	497	167	107	26	55	139
Not specified manufacturing industries.....	375	345	25	22	375	269	70	36	42	53	31
<b>Transportation, communications, and other public utilities<sup>1</sup></b> .....	17 095	16 164	912	242	16 964	12 489	3 762	713	491	962	1 183
Railroads and railway express service.....	4 587	4 497	90	88	4 560	3 498	906	156	239	486	268
Street railways and bus lines.....	441	399	42	14	431	329	97	5	18	28	10
Trucking service and warehousing.....	4 891	4 682	209	69	4 879	3 538	1 079	262	71	160	348
Water transportation.....	1 243	1 149	88	17	1 224	350	798	76	23	69	129
Air transportation.....	250	241	9	—	250	193	40	17	—	4	11
All other transportation.....	344	334	10	7	338	237	84	17	21	30	48
Communications.....	1 500	1 391	102	11	1 477	1 198	202	77	—	34	79
Electric and gas utilities.....	2 065	1 999	60	15	2 055	1 787	233	35	62	53	88
Water supply, sanitary services, and other utilities.....	1 152	964	188	15	1 145	927	188	30	31	49	114
<b>Wholesale and retail trade</b> .....	30 183	28 605	1 513	204	29 688	20 226	5 934	3 528	544	1 153	4 013
Wholesale trade.....	8 543	8 062	472	85	8 477	6 719	1 312	446	190	403	619
Food and farm products.....	1 546	1 506	40	6	1 546	1 271	198	77	46	87	154
Retail trade.....	21 640	20 543	1 041	119	21 211	13 507	4 622	3 082	354	750	3 394
Hardware, farm equipment, and building material retailing.....	1 165	1 155	10	—	1 151	890	154	107	29	57	122
General merchandise stores.....	2 215	2 084	131	8	2 173	1 420	446	307	32	68	445
Food stores.....	3 855	3 748	99	19	3 808	2 471	758	579	50	103	476
Motor vehicles and accessories retailing.....	2 722	2 607	115	21	2 696	2 123	479	94	57	57	250
Gasoline service stations.....	2 563	2 514	44	12	2 516	1 319	750	447	11	51	407
Apparel and accessories stores.....	773	730	43	10	768	458	219	91	13	30	175
Furniture, home furnishings, and equipment stores.....	1 160	1 136	21	11	1 144	846	165	133	30	37	162
Eating and drinking places.....	3 303	3 043	226	29	3 204	1 421	863	920	52	149	782
Drugstores.....	723	703	20	—	709	475	144	90	13	32	98
Other retail trade.....	3 161	2 823	332	9	3 042	2 084	644	314	67	166	475
<b>Finance, insurance, and real estate</b> .....	4 613	4 442	167	17	4 580	3 749	636	195	85	201	395
Banking and credit agencies.....	1 266	1 229	37	6	1 261	1 101	100	60	29	50	63
Insurance.....	1 746	1 690	56	5	1 732	1 522	191	19	31	39	64
Other finance and real estate.....	1 601	1 523	74	6	1 587	1 126	345	116	25	112	268
<b>Business and repair services</b> .....	4 887	4 581	287	47	4 820	3 285	978	557	66	170	565
Advertising.....	188	185	3	—	188	143	39	6	6	7	16
Commercial research, management, and programing services.....	430	408	22	—	430	355	51	24	—	15	40
Automobile services.....	1 466	1 369	87	20	1 431	934	296	201	18	26	188
Other business and repair services.....	2 803	2 619	175	27	2 771	1 853	592	326	42	122	321
<b>Personal services</b> .....	2 684	2 379	300	23	2 637	1 667	616	354	137	137	511
Private households.....	191	167	24	—	185	84	35	66	32	21	103
Hotels and lodging places.....	530	422	108	16	515	261	144	110	33	37	164
Laundering, cleaning, and other garment services.....	602	505	92	—	584	409	109	66	17	38	106
Barber and beauty shops.....	769	745	24	7	769	514	219	36	17	21	39
Other personal services.....	592	540	52	—	584	399	109	76	38	20	99
<b>Entertainment and recreation services</b> .....	1 258	1 191	67	14	1 224	538	343	343	22	62	592
<b>Professional and related services</b> .....	15 878	14 794	952	215	15 685	9 443	4 653	1 589	206	405	1 327
Health services.....	2 996	2 647	259	39	2 939	2 059	689	191	56	121	254
Educational services, government.....	6 331	5 995	306	105	6 258	2 929	2 608	721	50	83	390
Educational services, private.....	1 456	1 368	83	30	1 439	740	512	187	5	38	153
Welfare, religious, and nonprofit membership organizations.....	1 972	1 834	138	29	1 957	1 404	312	241	58	107	243
Other professional and related services.....	3 123	2 950	166	12	3 092	2 311	532	249	37	56	287
<b>Public administration<sup>1</sup></b> .....	6 269	5 610	627	78	6 215	5 450	540	225	240	348	607
Postal service.....	1 847	1 558	289	22	1 842	1 584	185	73	38	41	99
Federal public administration.....	910	831	79	9	894	796	55	43	59	107	211
State and local public administration.....	3 327	3 108	214	39	3 309	2 948	272	89	109	200	281
Unemployed persons, last worked 1959 or earlier <sup>2</sup> .....	46	36	10	—	...	...	...	...	...	...	...

<sup>1</sup>Includes allocated cases not shown separately. <sup>2</sup>See text for explanation.

Table 185. Industry of the Experienced Civilian Labor Force by Race and Sex, and Weeks Worked in 1969 and Experienced Workers Not in the Labor Force by Sex: 1970—Continued

[Data based on a sample, see text. For meaning of symbols, see text]

The State Standard Metropolitan Statistical Areas of 250,000 or More	Experienced civilian labor force				Weeks worked in 1969 of the experienced civilian labor force				Year last worked of experienced workers not in labor force		
	Total	White	Negro	Persons of Spanish language	Total	50 to 52 weeks	27 to 49 weeks	1 to 26 weeks	1960-63	1964-68	1969-70
<b>TOLEDO, OHIO-MICH., SMSA—Continued</b>											
Female, 16 years old and over	100 869	90 930	9 592	1 343	96 322	46 929	31 143	18 250	9 899	23 669	27 782
<i>Agriculture, forestry, and fisheries</i>	465	595	59	86	637	214	194	229	116	252	333
Agriculture	656	586	59	86	628	214	190	224	116	252	333
Forestry and fisheries	9	9	—	—	9	—	4	5	—	—	—
Mining	39	39	—	—	39	28	11	—	6	11	10
Construction	925	888	32	4	914	533	250	133	102	276	209
Manufacturing	18 858	17 421	1 369	287	18 231	10 857	5 186	2 188	2 029	4 244	4 017
Durable goods	13 247	12 259	955	224	12 852	7 905	3 570	1 377	1 386	2 625	2 303
Logging	—	—	—	—	—	—	—	—	—	—	—
Sawmills, planing mills, and millwork	79	79	—	—	79	58	5	16	9	19	6
Miscellaneous wood products	29	29	—	13	29	13	6	10	4	4	5
Furniture and fixtures	429	416	13	24	413	215	135	63	27	77	147
Stone, clay, and glass products	2 424	2 259	147	44	2 391	1 682	464	244	294	416	258
Cement, concrete, gypsum, and plaster products	429	410	14	13	429	298	65	66	22	33	62
Primary iron and steel industries	167	150	17	—	160	98	47	15	27	62	35
Primary nonferrous industries	366	317	49	—	355	214	102	39	26	64	33
Fabricated metal industries, including not specified metal	1 456	1 353	97	14	1 420	804	456	160	131	334	299
Machinery, except electrical	1 808	1 741	62	16	1 769	1 101	486	182	141	297	342
Office, accounting, and computing machines	305	305	—	—	302	232	60	10	35	70	41
Electrical machinery, equipment, and supplies	1 910	1 837	73	44	1 839	1 067	595	177	227	363	401
Radio, television, and communication equipment	228	228	—	22	215	124	72	19	27	81	143
Motor vehicles and motor vehicle equipment	2 718	2 460	254	52	2 681	1 745	708	228	290	546	330
Aircraft and parts	137	129	8	—	133	101	25	7	17	15	5
Other transportation equipment	87	87	—	—	87	43	34	10	14	42	61
Professional and photographic equipment, and watches	164	159	5	—	153	79	48	26	13	10	11
Ordnance	36	36	—	—	36	30	—	6	—	—	—
Miscellaneous manufactures and durable goods—allocated	1 437	1 207	230	10	1 307	655	459	193	161	362	338
Nondurable goods	5 432	5 019	378	63	5 200	2 894	1 529	777	629	1 574	1 680
Meat products	92	83	9	—	92	60	32	—	5	38	24
Canning and preserving produce, seafoods, and beverages	292	252	34	29	273	127	58	88	82	305	370
Bakery products	178	147	31	—	168	83	74	11	25	31	32
Other food industries	461	445	16	—	455	262	162	31	70	110	131
Yarn, thread, and fabric mills	49	43	6	—	43	20	19	4	5	18	10
Other textile mill products	63	63	—	—	63	33	9	21	18	27	54
Apparel and other fabricated textile products	492	458	29	6	477	251	149	77	77	153	160
Paper and allied products	795	777	18	—	759	489	189	81	70	177	50
Printing, publishing, and allied industries	800	754	41	5	791	494	192	105	76	186	202
Chemicals and allied products	411	390	16	—	401	214	120	67	34	123	135
Petroleum and coal products	149	133	16	—	149	128	21	—	46	12	24
Rubber and miscellaneous plastic products	1 139	1 052	82	18	1 097	520	343	234	39	263	270
Footwear, except rubber	26	21	5	—	26	5	16	5	—	5	10
Other nondurable goods	485	401	75	5	406	208	145	53	82	126	208
Not specified manufacturing industries	179	143	36	—	179	58	87	34	14	45	34
Transportation, communications, and other public utilities <sup>1</sup>	3 496	3 184	302	28	3 359	1 798	1 071	490	427	874	718
Railroads and railway express service	188	181	7	—	183	140	29	14	45	56	9
Street railways and bus lines	556	518	38	—	534	42	396	96	—	65	35
Trucking service and warehousing	518	514	4	—	508	344	126	38	43	102	114
Water transportation	53	53	—	—	48	25	13	10	6	6	—
Air transportation	45	45	—	—	40	30	10	—	14	24	14
All other transportation	124	106	18	—	124	65	26	33	16	29	21
Communications	1 367	1 187	170	28	1 326	774	300	252	191	460	362
Electric and gas utilities	389	374	15	—	384	276	93	15	52	92	67
Water supply, sanitary services, and other utilities	87	70	17	—	72	62	10	—	5	—	34
Wholesale and retail trade	25 852	24 390	1 386	277	24 504	11 630	7 065	5 809	3 169	7 904	10 126
Wholesale trade	2 528	2 420	100	35	2 467	1 495	703	269	298	534	605
Food and farm products	373	354	14	10	373	221	113	39	76	66	111
Retail trade	23 324	21 970	1 286	242	22 037	10 135	6 362	5 540	2 871	7 370	9 521
Hardware, farm equipment, and building material retailing	258	258	—	—	258	126	76	56	31	108	105
General merchandise stores	6 505	6 230	271	48	6 261	2 919	1 798	1 544	883	2 110	2 685
Food stores	2 898	2 796	102	17	2 776	1 428	823	525	351	810	849
Motor vehicles and accessories retailing	412	412	—	6	412	254	106	52	34	121	87
Gasoline service stations	185	181	4	—	185	119	41	25	11	14	54
Apparel and accessories stores	1 484	1 420	64	12	1 413	680	438	295	199	351	427
Furniture, home furnishings, and equipment stores	493	486	7	—	486	325	69	92	52	178	154
Eating and drinking places	6 937	6 363	510	84	6 447	2 391	1 973	2 083	740	2 417	3 330
Drugstores	986	964	22	11	935	497	232	206	129	293	305
Other retail trade	3 166	2 860	306	64	2 864	1 396	806	662	441	968	1 525
Finance, insurance, and real estate	5 058	4 745	295	16	4 883	3 044	1 140	699	674	1 219	1 044
Banking and credit agencies	2 339	2 181	140	12	2 320	1 488	510	322	419	571	378
Insurance	1 424	1 384	40	—	1 370	856	308	206	138	319	374
Other finance and real estate	1 295	1 180	115	4	1 193	700	322	171	117	329	292
Business and repair services	2 220	2 082	129	43	2 133	1 108	589	436	175	577	977
Advertising	74	70	—	—	74	29	30	15	12	30	46
Commercial research, management, and programing services	394	376	18	6	377	144	143	90	30	60	188
Automobile services	184	161	3	—	184	117	49	18	20	36	40
Other business and repair services	1 568	1 455	108	31	1 498	818	367	313	113	451	701
Personal services	8 173	6 226	1 919	110	7 609	3 220	2 479	1 910	753	2 037	2 203
Private households	2 323	1 531	784	26	2 191	668	751	772	253	684	671
Hotels and lodging places	1 433	1 134	299	19	1 323	567	378	378	87	300	489
Laundering, cleaning, and other garment services	1 443	1 100	337	33	1 335	689	352	294	174	395	350
Barber and beauty shops	1 707	1 632	75	26	1 605	816	570	219	127	435	315
Other personal services	1 267	829	424	6	1 155	480	428	247	112	223	378
Entertainment and recreation services	952	844	97	5	927	278	380	269	97	247	642
Professional and related services	32 175	28 559	3 509	457	30 914	12 777	12 322	5 815	2 114	5 517	6 867
Health services	12 790	11 086	1 669	231	12 331	6 812	3 274	2 245	802	2 461	2 408
Educational services, government	10 522	9 565	896	129	10 198	2 483	5 639	2 076	651	1 549	2 148
Educational services, private	3 718	3 485	233	35	3 614	831	2 063	720	173	518	706
Welfare, religious, and nonprofit membership organizations	2 204	1 910	294	49	2 101	1 263	533	305	176	388	558
Other professional and related services	2 941	2 513	417	13	2 670	1 388	813	469	312	601	1 047
Public administration <sup>1</sup>	2 260	1 809	447	30	2 170	1 442	456	272	237	511	636
Postal service	558	415	143	—	551	360	120	71	40	86	70
Federal public administration	425	325	100	24	377	217	102	58	86	183	158
State and local public administration	1 229	1 041	184	6	1 200	836	234	130	102	216	373
Unemployed persons, last worked 1959 or earlier <sup>2</sup>	196	148	48	—	...	...	...	...	...	...	...

<sup>1</sup>Includes allocated cases not shown separately. <sup>2</sup>See text for explanation.