

Table 172. Occupation of the Experienced Civilian Labor Force by Race and Sex, and Weeks Worked in 1969 and Experienced Workers Not in 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

THE STATE

	Total experienced civilian labor force	White	Negro	Persons of Spanish language	Weeks worked in 1969 of the experienced civilian labor force				Year last worked of experienced workers not in labor force		
					Total	50 to 52 weeks	27 to 49 weeks	1 to 26 weeks	1960-63	1944-68	1969-70
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
Professional, technical, and kindred workers	290 279	276 914	10 461	2 949	288 698	212 604	60 974	15 120	2 474	7 373	17 013
Accountants	21 462	20 929	481	155	21 346	18 524	1 882	940	247	674	860
Architects	1 977	1 883	42	27	1 972	1 682	239	51	12	81	99
Computer specialists	7 822	7 507	262	61	7 779	6 450	963	366	-	15	283
Engineers	54 427	53 206	717	489	54 306	48 050	4 946	1 310	571	1 625	1 850
Aeronautical and astronautical	384	372	6	14	380	324	40	16	-	5	24
Civil	4 528	4 318	139	33	4 521	3 953	461	107	59	206	278
Electrical and electronic	6 823	6 613	141	90	6 806	5 922	654	230	125	216	207
Mechanical	17 205	16 927	130	109	17 175	15 282	1 475	418	152	541	529
Other engineers	25 487	24 976	301	243	25 424	22 569	2 316	539	235	657	812
Lawyers and judges	8 723	8 507	196	21	8 699	7 165	1 297	237	88	134	339
Life and physical scientists	5 943	5 571	192	32	5 899	5 036	623	240	45	181	299
Chemists	4 080	3 840	147	20	4 054	3 547	365	142	40	138	157
Physicians, dentists, and related practitioners	20 702	19 520	552	518	20 627	15 022	4 962	643	201	502	598
Dentists	3 871	3 733	118	13	3 846	1 949	1 831	66	23	97	85
Pharmacists	4 043	3 858	168	19	4 043	3 438	2 451	154	57	155	242
Physicians, medical and osteopathic	10 725	9 885	262	459	10 691	7 918	2 387	386	86	181	232
Other related practitioners	2 063	2 044	4	27	2 047	1 717	293	37	35	69	39
Health technologists and technicians	3 352	2 953	334	70	3 333	2 302	712	319	16	80	334
Religious workers	8 485	8 060	400	34	8 447	7 150	1 029	268	72	183	443
Social scientists	4 355	4 167	132	28	4 326	3 582	566	178	11	67	153
Social and recreation workers	4 527	3 761	733	42	4 508	3 147	856	505	40	204	1 363
Teachers	51 607	48 630	2 409	442	51 233	20 914	26 192	4 127	239	969	2 864
College and university	14 689	13 975	274	169	14 527	7 434	5 815	1 278	69	282	907
Elementary and prekindergarten	10 828	9 992	795	109	10 737	3 699	6 111	927	51	212	660
Secondary	23 992	22 693	1 222	118	23 881	8 544	13 646	1 691	101	433	1 105
Engineering and science technicians	36 625	35 459	935	391	36 408	28 641	5 621	2 146	253	776	2 670
Draftsmen and surveyors	21 439	20 884	433	274	21 294	16 547	3 537	1 210	94	498	1 583
Electrical and electronic engineering technicians	3 102	2 954	133	37	3 086	2 420	546	120	11	32	157
Technicians, except health, and engineering and science	2 911	2 793	98	34	2 906	2 395	405	106	16	92	110
Airplane pilots	892	892	-	12	887	726	144	17	-	19	15
Writers, artists, and entertainers	22 538	21 559	840	291	22 381	16 612	4 023	1 746	232	614	1 950
Other professional, technical, and kindred workers	34 823	32 389	2 138	314	34 528	25 932	6 658	1 938	431	1 178	2 796
Managers and administrators, except farm	194 673	188 914	5 281	1 247	193 928	167 724	22 425	3 779	3 846	8 650	8 464
Buyers, purchasing agents, and sales managers	26 075	25 584	456	139	26 034	23 678	1 967	389	358	667	630
School administrators	6 787	6 418	353	27	6 787	3 934	2 746	107	58	169	172
Specified managers and administrators, public administration	10 801	10 196	594	72	10 769	9 706	792	271	318	609	657
Other specified managers and administrators	32 520	31 022	1 338	308	32 293	27 060	4 312	921	947	1 894	2 208
Managers and administrators, n.e.c., salaried	91 531	89 437	1 734	516	91 276	81 440	8 485	1 351	1 346	3 338	2 954
Manufacturing	29 549	29 252	262	131	29 492	27 603	1 720	169	444	1 102	809
Wholesale and retail trade	28 858	28 226	562	211	28 785	25 443	2 837	505	408	919	925
Transportation, communications, and other public utilities	6 857	6 750	98	49	6 829	6 295	474	60	152	453	156
All other industries	26 267	25 409	812	125	26 170	22 099	3 454	617	342	864	1 024
Managers and administrators, n.e.c., self-employed	26 959	26 057	806	185	26 769	21 906	4 123	740	819	1 973	1 843
Construction	4 976	4 823	149	6	4 935	3 097	1 601	237	144	289	424
Manufacturing	2 749	2 710	28	31	2 735	2 374	286	75	88	158	132
Wholesale and retail trade	13 599	13 198	344	127	13 518	11 917	1 377	224	453	1 030	731
All other industries	5 635	5 326	285	21	5 581	4 518	859	204	134	496	556
Sales workers	129 262	125 027	4 002	828	128 136	96 615	22 214	9 307	1 883	5 245	11 956
Insurance agents, brokers, and underwriters	13 994	13 414	562	130	13 942	11 742	1 846	354	233	335	380
Real estate agents and brokers	8 384	8 118	266	36	8 311	6 011	1 878	422	137	382	562
Sales representatives, manufacturing industries	15 950	15 721	218	89	15 915	13 813	1 808	294	193	471	531
Sales representatives, wholesale trade	23 157	22 761	350	160	23 102	19 570	2 950	582	221	624	795
Sales clerks, retail trade	30 378	29 005	1 294	175	29 974	18 179	7 156	4 639	540	1 445	5 457
Salesmen, retail trade	17 072	16 656	401	84	16 965	13 138	2 881	946	244	634	1 036
Salesmen of services and construction	6 201	6 058	124	31	6 183	4 840	971	372	55	231	576
Other sales workers	14 126	13 294	787	123	13 744	9 322	2 724	1 698	260	1 123	2 619
Clerical and kindred workers	144 933	131 478	13 052	1 445	143 452	107 555	24 885	11 012	3 246	8 050	14 881
Bank tellers and cashiers	4 477	4 180	285	69	4 349	2 200	1 252	897	123	284	1 001
Bookkeepers and billing clerks	11 857	11 362	480	55	11 762	9 425	1 680	657	257	761	944
Mail handlers and postal clerks	16 317	13 589	2 681	105	16 199	13 308	2 057	834	401	736	1 508
Other clerical and kindred workers	112 282	102 347	9 606	1 216	111 142	82 622	19 896	8 624	2 465	6 269	11 428
Craftsmen and kindred workers	506 903	474 023	31 390	5 172	503 316	368 432	114 820	20 064	13 514	31 881	32 261
Apparel craftsmen and upholsterers	3 301	3 011	279	43	3 276	2 262	824	190	142	281	246
Bakers	2 998	2 667	323	44	2 976	2 114	652	210	89	191	250
Cabinetmakers	2 143	2 079	64	12	2 130	1 502	513	115	93	295	180
Construction craftsmen	116 628	109 935	6 257	1 067	115 806	66 161	42 991	6 654	3 148	7 567	10 251
Carpenters	31 825	30 791	884	254	31 594	15 817	13 602	2 175	1 198	2 370	3 221
Excavating, grading, and road machine operators	11 929	11 352	556	129	11 870	6 458	4 757	655	200	564	767
Electricians	22 523	21 660	806	172	22 466	17 223	4 714	529	354	1 079	901
Masons and tile setters	9 231	8 246	952	62	9 175	3 726	4 967	482	220	551	782
Painters, construction and maintenance, and paperhangers	12 216	10 859	1 302	182	12 022	5 480	5 098	1 444	436	1 400	2 676
Plasterers and cement finishers	3 946	3 051	886	53	3 902	1 318	2 280	304	171	315	440
Plumbers and pipe fitters	18 518	17 841	638	155	18 420	13 152	4 761	507	433	982	938
Other construction craftsmen	6 440	6 135	233	60	6 357	2 987	2 812	558	136	306	526
Foremen, n.e.c.	78 008	75 049	3 234	569	78 201	69 020	8 319	862	2 040	4 864	2 870
Manufacturing	55 871	53 493	2 292	382	55 760	50 148	5 168	444	1 466	3 623	2 004
Nonmanufacturing industries	22 537	21 556	942	187	22 441	18 872	3 151	418	574	1 241	866
Linemen and servicemen, telephone and power	14 466	13 804	622	137	14 382	11 490	2 371	521	161	396	454
Locomotive engineers and firemen	2 241	2 169	63	7	2 230	1 635	557	38	155	264	105
Mechanics and repairmen	111 149	103 011	7 761	1 292	110 413	83 394	22 216	4 803	2 109	5 621	4 904
Air conditioning, heating, and refrigeration	4 486	4 289	191	15	4 461	3 335	960	166	82	160	250
Aircraft	1 543	1 509	34	26	1 538	1 268	200	70	21	22	50
Automobile, including body	47 763	43 144	4 426	592	47 364	34 164	10 907	2 293	847	2 448	1 984
Radio and television	4 301	4 027	251	87	4 271	3 244	757	270	26	119	227
Other mechanics and repairmen	53 056	50 042	2 859	572	52 779	41 383	9 392	2 004	1 133	2 872	2 393
Metal craftsmen, except mechanics	99 487	93 670	5 633								

Table 172. Occupation of the Experienced Civilian Labor Force by Race and Sex, and Weeks Worked in 1969 and Experienced Workers Not in Labor Force by Sex: 1970—Continued

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

The State
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THE STATE—Continued

Male, 16 years old and over—Continued

	Total experienced civilian labor force	White	Negro	Persons of Spanish language	Weeks worked in 1969 of the experienced civilian labor force				Year last worked of experienced workers not in labor force		
					Total	50 to 52 weeks	27 to 49 weeks	1 to 26 weeks	1960-63	1964-68	1969-70
Operatives, except transport	461 276	377 115	82 423	8 730	454 142	291 399	127 768	34 975	12 691	30 959	41 602
Assemblers	68 476	49 161	19 067	1 960	67 414	37 647	24 600	5 167	1 671	4 287	6 106
Checkers, examiners, and inspectors; manufacturing	38 191	33 468	4 649	467	37 995	27 211	9 641	1 143	1 296	3 120	2 193
Garage workers and gas station attendants	21 048	19 697	1 295	164	19 923	6 666	6 809	6 448	135	674	5 089
Laundry and drycleaning operatives, n.e.c.	2 463	1 693	764	42	2 423	1 484	538	401	60	187	359
Meat cutters and butchers	8 589	7 886	676	100	8 513	6 735	1 345	433	183	435	554
Mine operatives, n.e.c.	3 427	3 366	49	47	3 330	2 182	776	372	245	469	328
Packers and wrappers, except produce	9 001	7 871	1 087	234	8 802	4 952	2 301	1 549	209	562	1 866
Painters, manufactured articles	8 493	6 709	1 760	212	8 370	5 017	2 888	465	249	710	654
Precision machine operatives	46 784	42 678	3 957	692	46 412	33 555	10 837	2 020	1 318	2 997	2 593
Sawyers	4 002	3 831	147	47	3 960	2 479	1 134	347	142	352	381
Stationary firemen	4 819	4 249	570	35	4 766	3 914	714	138	231	527	333
Textile operatives	4 498	457	41	6	483	322	109	52	55	76	90
Welders and fittercutters	37 545	29 597	7 823	741	37 277	24 154	11 192	1 931	707	2 110	2 022
Other metalworking operatives	40 450	30 596	9 716	861	39 957	25 382	12 027	2 548	1 468	3 304	2 857
Other specified operatives	57 884	44 243	13 245	739	56 137	35 358	15 773	5 006	2 008	3 976	7 365
Miscellaneous and not specified operatives	109 606	91 613	17 577	2 383	108 380	74 341	27 084	6 955	2 714	6 973	8 812
Occupation:											
Machine operatives, miscellaneous specified	43 739	36 987	6 574	1 147	43 285	30 613	10 099	2 573	1 030	2 606	2 920
Machine operatives, not specified	31 346	25 158	6 099	490	31 023	21 709	7 633	1 681	771	2 042	2 382
Miscellaneous operatives	20 730	17 647	2 985	423	20 499	12 917	5 813	1 749	528	1 362	2 058
Not specified operatives	13 791	11 821	1 919	323	13 573	9 102	3 539	932	385	963	1 452
Industry:											
Manufacturing	100 135	83 416	16 356	2 146	99 079	68 772	24 490	5 817	2 462	6 425	7 490
Durable goods	76 574	61 916	14 338	1 681	75 804	51 709	19 761	4 334	1 937	4 923	5 496
Wood products, including furniture	3 404	3 218	152	33	3 342	2 308	738	296	98	213	318
Primary metal industries	10 963	8 626	2 288	572	10 837	7 576	2 500	761	267	597	813
Fabricated metal industries	7 002	6 189	790	125	6 920	4 768	1 630	522	75	287	654
Machinery, including electrical	16 420	15 052	1 054	180	16 500	11 451	4 085	964	208	623	1 086
Motor vehicles and equipment	31 837	22 281	9 437	631	31 572	21 271	9 070	1 231	1 069	2 786	2 029
Transportation equipment, except motor vehicles	1 522	1 497	25	19	1 492	1 026	351	115	47	97	114
Other durable goods	5 226	4 603	592	121	5 141	3 309	1 387	445	173	320	482
Non-durable goods	22 812	20 888	1 887	461	22 556	16 695	4 475	1 386	514	1 443	1 924
Food and kindred products	4 660	4 189	455	171	4 625	3 239	1 001	385	135	397	677
Apparel and other fabricated textile products	460	394	66	34	455	308	102	45	4	45	25
Paper and allied products	6 284	6 016	264	54	6 228	4 690	1 224	314	158	331	398
Chemicals and allied products	4 625	4 342	278	54	4 577	3 746	672	155	85	304	257
Other non-durable goods	6 783	5 947	824	148	6 671	4 712	1 476	487	132	366	567
Not specified manufacturing industries	749	612	131	4	719	368	254	97	11	59	70
Nonmanufacturing industries	9 471	8 197	1 221	237	9 301	5 569	2 594	1 138	252	548	1 322
Transportation, communications, and other public utilities	1 823	1 654	169	76	1 810	1 301	426	83	61	129	147
Wholesale and retail trade	4 075	3 501	542	120	3 987	2 403	1 015	569	108	244	591
All other industries	3 573	3 042	510	41	3 504	1 865	1 153	486	83	175	584
Transport equipment operatives	124 496	109 344	14 833	1 514	123 268	83 597	32 160	7 511	2 242	6 370	9 779
Bus drivers	4 654	3 509	1 140	30	4 646	3 009	1 403	234	155	337	414
Taxicab drivers and chauffeurs	5 632	4 409	1 191	68	5 596	3 098	1 869	629	160	491	644
Truck drivers and deliverymen	84 764	77 450	7 131	881	84 059	57 792	21 540	4 727	1 458	4 232	6 034
Other transport equipment operatives	29 446	23 976	5 371	535	28 967	19 698	7 348	1 921	469	1 310	2 687
Laborers, except farm	135 302	111 947	22 636	2 786	130 903	64 325	40 873	25 705	3 495	10 336	36 057
Construction laborers	20 091	16 284	3 682	562	19 598	7 786	8 699	3 113	602	1 544	4 923
Freight, stock, and material handlers	60 985	52 689	8 072	1 024	59 085	29 527	17 066	12 492	928	2 855	13 275
Other specified laborers	29 932	24 165	5 524	352	28 591	13 838	8 486	6 267	1 036	2 999	12 526
Miscellaneous and not specified laborers	24 294	18 809	5 358	848	23 629	13 174	6 622	3 833	929	2 938	5 333
Occupation:											
Miscellaneous laborers	8 407	6 372	1 987	347	8 240	5 269	2 126	845	342	953	1 327
Not specified laborers	15 887	12 437	3 371	501	15 389	7 905	4 496	2 988	587	1 985	4 006
Industry:											
Manufacturing	15 340	11 317	3 980	654	14 956	8 808	4 345	1 803	538	1 725	2 575
Durable goods	12 854	9 184	3 627	567	12 574	7 466	3 759	1 349	417	1 487	1 983
Wood products, including furniture	598	553	39	19	568	260	195	113	15	112	143
Metal industries	5 117	3 698	1 401	338	5 006	3 087	1 395	524	152	484	850
Machinery, including electrical	1 439	1 275	159	44	1 404	825	396	183	20	126	227
Transportation equipment	4 791	2 885	1 892	154	4 701	2 743	1 569	389	210	614	508
Other durable goods	909	773	136	12	895	551	204	140	20	151	255
Non-durable goods	2 352	2 039	313	81	2 257	1 263	554	440	106	219	560
Food and kindred products	893	745	148	41	861	404	258	199	36	83	274
Not specified manufacturing industries	134	94	40	6	125	79	32	14	15	19	32
Nonmanufacturing industries	8 954	7 492	1 378	194	8 673	4 366	2 277	2 030	391	1 213	2 758
Railroads and railway express service	1 213	1 067	127	75	1 199	840	258	101	83	274	178
Transportation, except railroads	422	369	53	8	406	202	118	86	8	37	92
Communications, and utilities and sanitary services	1 132	859	273	22	1 132	744	264	124	28	111	258
Wholesale and retail trade	3 045	2 573	441	62	2 948	1 293	801	654	107	339	842
All other industries	3 142	2 624	484	27	2 988	1 287	836	865	165	452	1 308
Farmers and farm managers	29 994	29 749	207	110	29 594	25 716	2 798	1 080	1 725	3 616	5 578
Farm laborers and farm foremen	13 902	13 213	610	568	13 245	6 829	3 062	3 354	483	1 616	7 207
Paid farm laborers and farm foremen	12 113	11 468	566	568	11 582	5 685	2 778	3 119	420	1 491	6 316
Unpaid family workers	1 789	1 745	44	—	1 663	1 144	284	235	63	125	891
Service workers, except private household¹	171 342	145 012	25 402	2 267	166 572	99 627	39 357	27 588	4 933	13 259	33 704
Cleaning service workers	67 305	53 488	13 570	1 077	65 692	40 336	15 720	9 636	2 387	6 484	11 476
Food service workers	35 895	32 489	2 917	601	34 103	11 760	10 519	11 824	638	2 415	11 276
Cooks, except private household	12 451	11 294	864	222	11 942	4 774	3 842	3 326	222	698	2 986
Busboys and dishwashers	10 131	9 094	1 500	150	9 398	1 366	2 818	5 214	92	651	5 149
Health service workers	6 445	4 958	1 433	44	6 245	3 766	1 492	987	157	424	1 011
Personal service workers	13 691	11 841	1 800	162	13 392	7 735	3 626	2 031	351	1 017	3 927
Protective service workers	37 038	34 298	2 704	260	36 801	30 297	5 018	1 486	972	2 094	2 291
Firemen, fire protection	6 288	6 158	122	75	6 279	5 947	307	25	105	215	134
Guards and watchmen	14 071	12 422	1 634	64	13 919	10 099	2 801	1 019	654	1 428	1 684
Policemen and detectives	14 651	13 784	854	121	14 585	12 908	1 381	296	150	258	342
Private household workers	887	621	260	6	814	344	186	284	81	<	

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

**The State
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THE STATE—Continued

	Total experienced civilian labor force	White	Negro	Persons of Spanish language	Weeks worked in 1969 of the experienced civilian labor force				Year last worked of experienced workers not in labor force		
					Total	50 to 52 weeks	27 to 49 weeks	1 to 26 weeks	1960-63	1964-68	1969-70
Female, 16 years old and over	1 238 577	1 083 570	148 633	12 984	1 178 191	563 700	385 183	229 308	116 000	307 826	340 419
Professional, technical, and kindred workers	180 506	163 272	15 470	1 410	175 282	62 484	82 749	30 029	12 728	32 505	36 367
Accountants	7 032	6 411	599	79	6 769	4 598	1 136	1 035	404	1 042	906
Computer specialists	1 641	1 439	171	12	1 624	1 134	317	173	37	184	204
Librarians	3 745	3 522	169	22	3 667	1 321	1 789	557	163	540	653
Mathematical specialists	265	238	23	3	265	205	30	30	18	72	49
Life and physical scientists	965	805	64	—	960	608	229	123	106	208	120
Registered nurses, dietitians, and therapists	34 996	31 430	3 054	282	34 064	18 887	10 212	4 965	2 822	6 555	5 663
Dietitians	1 463	1 226	13	13	1 406	865	397	144	126	317	180
Registered nurses	31 283	28 391	2 428	86	30 480	17 042	8 954	4 484	2 587	5 900	5 086
Health technologists and technicians	8 195	6 946	1 091	88	8 058	4 694	2 276	1 088	597	1 372	1 193
Social scientists	696	610	82	—	6 492	352	1 264	76	15	92	73
Social and recreation workers	6 186	4 849	1 288	67	6 054	3 238	1 942	874	359	1 110	2 222
Teachers: College and university	5 591	5 295	185	105	5 448	1 453	2 895	1 100	227	575	899
Elementary and prekindergarten	55 158	50 317	4 622	271	53 869	7 441	36 088	10 340	4 237	11 316	12 153
Secondary	20 789	19 254	1 418	112	20 326	2 810	13 723	3 793	1 425	3 814	4 065
Other teachers	4 830	4 617	197	68	4 666	1 284	2 310	1 072	206	791	1 017
Engineering and science technicians	2 684	2 503	136	29	2 598	1 615	615	368	244	536	569
Technicians, except health, and engineering and science	514	451	63	—	503	291	139	73	20	129	101
Writers, artists, and entertainers	7 659	7 226	370	60	7 412	3 258	2 479	1 675	481	1 242	2 143
Actors and dancers	314	277	30	20	305	55	164	86	4	69	99
Authors, editors, and reporters	1 778	1 682	78	15	1 738	947	538	253	168	292	349
Other professional, technical, and kindred workers	19 560	17 359	1 938	172	18 287	9 295	6 305	2 687	1 367	2 927	4 338
Managers and administrators, except farm	36 234	33 692	2 407	279	35 309	24 566	7 904	2 839	2 375	6 552	6 402
Buyers, purchasing agents, and sales managers	5 057	4 759	277	16	4 998	3 718	969	311	381	864	562
Restaurant, cafeteria, and bar managers	3 627	3 352	250	17	3 501	2 021	1 098	382	300	827	801
School administrators	2 276	2 093	165	8	2 237	632	1 410	195	92	296	293
Other specified managers and administrators	8 770	7 777	962	84	8 386	6 221	1 443	722	618	1 654	2 363
Managers and administrators, n.e.c., salaried	12 023	11 462	521	103	11 836	8 807	2 151	878	640	1 859	1 552
Wholesale and retail trade	4 142	3 993	149	36	4 080	3 049	706	325	256	593	559
Managers and administrators, n.e.c., self-employed	4 481	4 249	232	51	4 351	3 167	833	351	344	1 052	831
Wholesale and retail trade	2 738	2 590	148	33	2 645	1 928	530	187	248	662	404
Sales workers	100 521	94 467	5 846	776	94 770	40 593	29 230	24 947	12 076	31 814	38 951
Demonstrators, hucksters, and peddlers	5 451	5 304	143	31	4 656	1 303	1 561	1 792	326	1 839	2 563
Insurance, real estate agents, and brokers	5 630	5 315	300	35	5 425	2 938	1 672	815	234	761	944
Sales clerks, retail trade	72 439	68 092	4 209	530	69 180	29 238	21 057	18 885	9 822	24 699	27 757
Salesmen, retail trade	3 320	3 158	154	8	3 161	1 468	1 042	653	250	676	1 050
Other sales workers	13 681	12 598	1 040	172	12 348	5 648	3 898	2 802	1 444	3 839	6 637
Clerical and kindred workers	426 548	384 226	41 085	3 784	410 111	235 804	105 579	68 728	44 241	104 413	105 260
Bank tellers	10 759	10 105	631	80	10 532	6 536	2 482	1 514	825	2 586	1 984
Bookkeepers	49 481	47 284	2 097	354	48 443	33 088	10 034	5 321	4 729	10 377	9 040
Cashiers	34 658	31 451	3 104	317	32 957	13 499	10 628	8 830	3 073	10 179	12 696
Counter clerks, except food	7 914	7 075	823	68	7 477	3 461	2 183	1 833	634	2 090	2 328
Enumerators and interviewers	1 760	1 538	222	20	1 251	282	396	573	426	755	858
File clerks	11 920	10 149	1 722	118	11 209	5 064	3 139	3 006	1 490	3 522	4 017
Office machine operators	18 521	15 754	2 726	197	18 065	10 861	4 504	2 700	2 249	4 653	3 594
Bookkeeping and billing machine operators	2 401	2 130	263	27	2 339	1 383	485	471	486	747	421
Keypunch operators	10 927	9 126	1 768	141	10 672	6 336	2 850	1 486	1 022	2 746	2 193
Payroll and timekeeping clerks	4 881	4 592	264	52	4 788	3 432	919	437	490	973	730
Receptionists	13 981	12 967	982	151	13 253	6 343	3 926	2 984	1 536	3 769	4 399
Secretaries	107 499	102 598	4 685	889	105 122	67 791	24 903	12 428	11 249	26 859	21 077
Stenographers	5 175	4 687	457	23	5 060	3 514	985	561	766	1 292	820
Telephone operators	15 003	12 576	2 367	96	14 440	8 305	3 730	2 405	2 221	4 125	3 471
Typists	41 126	36 014	5 011	386	39 511	21 309	10 322	7 880	5 335	11 298	10 613
Other clerical and kindred workers	103 870	87 436	15 994	1 033	98 003	52 319	27 428	18 256	9 218	21 935	29 633
Craftsmen and kindred workers	21 938	19 784	2 071	267	21 211	12 220	6 413	2 578	1 402	4 466	4 613
Foremen, n.e.c.	3 894	3 572	310	38	3 825	2 959	727	139	238	661	445
Operatives, except transport	170 312	144 059	25 254	2 997	163 142	77 182	58 244	27 716	15 485	46 547	43 965
Assemblers	32 919	28 434	4 328	417	31 972	14 227	12 680	5 065	2 410	7 933	7 083
Bottling and canning operatives	718	650	58	48	701	200	259	242	126	313	474
Checkers, examiners, and inspectors, manufacturing	14 760	13 285	1 388	228	14 457	7 900	4 992	1 565	1 436	3 725	2 388
Dressmakers and seamstresses, except factory	3 380	2 912	409	72	3 270	1 401	1 315	554	475	1 114	989
Laundry and drycleaning operatives, including ironers	9 767	5 704	4 018	175	9 187	4 914	2 703	1 570	1 182	3 011	2 644
Graders and sorters, manufacturing	815	758	51	44	745	235	304	228	228	597	687
Packers and wrappers, except produce	15 263	13 445	1 715	360	14 584	6 508	4 888	3 188	1 584	4 751	5 180
Sewers and stitchers	12 422	10 716	1 604	252	12 015	5 321	5 186	1 508	1 550	4 273	2 694
Textile operatives	458	413	45	—	431	194	162	75	107	244	208
Other specified operatives	43 902	36 843	6 788	792	41 040	19 799	14 010	7 231	3 807	11 464	12 160
Miscellaneous and not specified operatives	35 908	30 899	4 850	609	34 740	16 512	11 814	6 414	2 580	9 122	9 456
Manufacturing	32 446	28 119	4 185	539	31 453	15 128	10 728	5 597	2 273	8 199	8 300
Durable goods	19 219	16 437	2 701	301	18 648	9 194	6 488	2 966	1 188	4 249	3 882
Machinery, including electrical	4 487	4 114	340	70	4 339	2 124	1 515	700	264	967	882
Other durable goods	14 732	12 323	2 361	231	14 309	7 070	4 973	2 266	924	3 282	3 000
Nondurable goods, including not specified manufacturing	13 227	11 682	1 484	238	12 805	5 934	4 240	2 631	1 085	3 950	4 418
Food and kindred products	1 847	1 687	145	58	1 793	726	565	502	302	814	981
Apparel and other fabricated textile products	802	671	126	—	781	351	281	149	47	267	280
Nonmanufacturing industries	3 462	2 780	665	70	3 287	1 384	1 086	817	307	923	1 156
Transport equipment operatives	8 797	8 152	618	81	8 444	1 938	4 847	1 659	208	1 013	1 314
Laborers, except farm	13 529	10 923	2 536	151	12 787	5 667	3 873	3 247	1 162	3 332	5 058
Farmers and farm managers	1 949	1 768	168	6	1 846	1 415	242	189	148	313	661
Farm laborers and farm foremen	3 698	3 241	383	167	3 295	1 079	855	1 361	506	1 738	4 127
Paid farm laborers and farm foremen	2 778	2 334	370	167	2 481	490	739	1 252	406	1 469	3 370
Unpaid family workers	920	907	13	—	814	589	116	109	100	269	757
Service workers, except private household	239 039	196 831	40 720	2 812	222 568	91 066	75 570	55 932	21 788	64 870	82 406
Cleaning service workers	28 847	20 580	8 121	387	27 228	13 847	8 267	5 114	2 271	7 282	7 901
Chambermaids and maids	6 174	4 083	2 047	87	5 621	2					

Table 172. Occupation of the Experienced Civilian Labor Force by Race and Sex, and Weeks Worked in 1969 and Experienced Workers Not in 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

Male, 16 years old and over

Professional, technical, and kindred workers

	Total experienced civilian labor force	White	Negro	Persons of Spanish language	Weeks worked in 1969 of the experienced civilian labor force				Year last worked of experienced workers not in labor force		
					Total	50 to 52 weeks	27 to 49 weeks	1 to 26 weeks	1960-63	1964-68	1969-70
Male, 16 years old and over	1 069 364	899 364	165 023	13 448	1 055 444	736 516	248 125	70 803	23 348	56 044	85 155
Professional, technical, and kindred workers	154 644	145 026	7 976	1 672	153 924	116 971	30 335	6 618	1 280	3 092	6 536
Accountants	12 484	12 050	402	82	12 446	10 864	1 117	465	148	322	422
Architects	1 228	1 151	42	21	1 223	1 059	123	41	12	26	40
Computer specialists	4 892	4 641	210	37	4 881	4 099	609	173	—	10	84
Engineers	34 009	33 114	541	314	33 941	30 203	2 992	746	341	765	760
Aeronautical and astronautical	193	187	—	—	189	157	24	8	—	5	15
Civil	2 192	2 043	98	21	2 192	1 901	231	60	26	70	95
Electrical and electronic	3 732	3 581	108	49	3 715	3 275	310	130	69	51	78
Mechanical	12 879	12 633	119	93	12 859	11 506	1 052	301	89	276	264
Other engineers	15 013	14 670	216	151	14 986	13 364	1 375	247	157	363	308
Lawyers and judges	5 277	5 099	169	14	5 264	4 278	882	104	45	44	148
Life and physical scientists	2 250	2 058	140	11	2 245	1 902	253	90	27	77	60
Chemists	1 805	1 648	124	6	1 800	1 551	189	60	22	62	47
Physicians, dentists, and related practitioners	10 747	9 851	437	352	10 708	7 766	2 584	358	63	152	296
Dentists	2 080	1 969	106	7	2 058	1 067	965	26	—	17	40
Pharmacists	1 917	1 777	128	19	1 917	1 629	216	72	20	43	84
Physicians, medical and osteopathic	5 883	5 247	199	305	5 866	4 327	1 287	252	27	72	156
Other related practitioners	867	858	4	21	867	743	116	8	16	20	16
Health technologists and technicians	1 611	1 307	261	26	1 606	1 124	318	164	5	31	112
Religious workers	3 103	2 801	288	8	3 075	2 579	397	99	24	71	141
Social scientists	2 787	2 671	107	21	2 758	2 322	330	106	—	10	44
Social and recreation workers	2 188	1 617	544	11	2 183	1 479	450	254	24	62	511
Teachers	19 591	17 655	1 757	168	19 472	6 556	11 325	1 591	121	289	936
College and university	3 134	2 934	86	36	3 110	1 509	1 345	256	19	51	195
Elementary and prekindergarten	4 943	4 255	668	50	4 901	1 343	3 083	475	27	70	267
Secondary	10 464	9 516	913	52	10 416	3 079	6 604	733	71	163	427
Engineering and science technicians	21 710	20 836	726	242	21 580	17 285	3 336	959	129	418	1 029
Draftsmen and surveyors	13 861	13 373	383	178	13 789	10 719	2 400	670	49	313	702
Electrical and electronic engineering technicians	1 744	1 630	102	15	1 733	1 398	285	50	—	15	54
Technicians, except health, and engineering and science	1 329	1 241	79	7	1 329	1 104	196	29	10	31	39
Airplane pilots	361	361	—	—	361	284	77	—	—	—	—
Writers, artists, and entertainers	14 229	13 462	684	192	14 153	10 879	2 460	814	142	298	884
Other professional, technical, and kindred workers	17 229	15 472	1 589	166	17 060	13 472	2 963	625	189	486	1 010
Managers and administrators, except farm	95 657	91 104	4 192	738	95 309	82 249	11 131	1 929	1 574	3 554	3 096
Buyers, purchasing agents, and sales managers	14 727	14 364	338	85	14 696	13 140	1 121	245	165	341	330
School administrators	2 692	2 445	231	5	2 692	1 270	1 404	18	15	48	58
Specified managers and administrators, public administration	4 803	4 322	475	25	4 782	4 341	358	83	67	201	144
Other specified managers and administrators	16 302	15 091	1 081	177	16 188	13 556	2 087	545	429	855	741
Managers and administrators, n.e.c., salaried	46 260	44 703	1 434	314	46 161	41 154	4 346	646	606	1 382	1 132
Manufacturing	15 862	15 637	198	104	15 832	14 857	894	81	225	483	314
Wholesale and retail trade	13 296	12 751	486	89	13 263	11 499	1 510	254	145	387	333
Transportation, communications, and other public utilities	3 307	3 205	93	37	3 298	3 060	226	12	53	157	79
All other industries	13 795	13 110	657	84	13 768	11 738	1 716	314	183	355	406
Managers and administrators, n.e.c., self-employed	10 873	10 179	633	132	10 790	8 598	1 815	377	292	727	691
Construction	1 753	1 622	131	—	1 753	1 014	612	127	47	101	146
Manufacturing	1 415	1 388	21	25	1 410	1 230	147	33	20	47	47
Wholesale and retail trade	5 188	4 889	262	86	5 138	4 407	629	102	170	401	266
All other industries	2 517	2 280	219	21	2 489	1 947	427	115	55	178	232
Sales workers	65 957	62 456	3 359	548	65 343	48 903	11 952	4 488	880	2 537	5 169
Insurance agents, brokers, and underwriters	6 770	6 246	511	74	6 732	5 633	947	152	135	185	222
Real estate agents and brokers	4 420	4 182	238	36	4 383	3 099	1 038	246	78	175	225
Sales representatives, manufacturing industries	9 089	8 910	178	82	9 063	7 877	1 042	144	105	228	221
Sales representatives, wholesale trade	12 975	12 634	312	104	12 940	10 844	1 772	324	119	308	324
Sales clerks, retail trade	14 537	13 888	1 090	112	14 322	8 416	3 738	2 168	646	2 278	2 373
Salesmen, retail trade	7 480	7 145	330	58	7 426	5 530	1 457	439	70	287	439
Salesmen of services and construction	3 597	3 485	103	24	3 579	2 779	587	213	22	113	242
Other sales workers	7 089	6 466	602	58	6 898	4 725	1 371	802	145	595	1 223
Clerical and kindred workers	79 627	68 486	10 901	917	78 702	59 102	13 940	5 660	1 595	4 116	6 323
Bank tellers and cashiers	2 167	1 948	213	39	2 107	1 082	605	420	65	147	379
Bookkeepers and billing clerks	5 811	5 391	420	17	5 782	4 552	879	351	140	384	325
Mail handlers and postal clerks	8 411	5 993	2 396	49	8 344	6 701	1 204	439	165	329	601
Other clerical and kindred workers	63 238	55 154	7 872	812	62 469	46 767	11 252	4 450	1 225	3 256	5 018
Craftsmen and kindred workers	242 165	216 897	24 482	2 858	240 341	174 952	56 992	8 397	6 502	14 444	11 938
Apparel craftsmen and upholsterers	1 767	1 531	225	18	1 750	1 209	477	64	97	131	169
Bakers	1 484	1 238	246	9	1 471	992	380	99	43	91	109
Cabinetmakers	643	496	47	8	634	394	197	43	25	64	60
Construction craftsmen	50 220	44 998	5 052	513	49 834	28 380	19 102	2 352	1 230	3 006	2 977
Carpenters	11 950	11 259	650	113	11 879	5 692	5 626	561	328	676	647
Excavating, grading, and road machine operators	3 605	3 136	464	46	3 600	1 883	1 529	188	49	151	130
Electricians	4 589	4 220	648	95	4 544	3 122	2 190	232	200	477	387
Masons and tile setters	4 498	3 731	764	31	4 466	1 782	2 459	225	87	235	291
Painters, construction and maintenance, and paperhangers	6 020	4 839	1 149	70	5 897	2 718	2 620	559	183	670	780
Plasterers and cement finishers	2 097	1 408	689	17	2 060	635	1 266	159	108	145	215
Plumbers and pipe fitters	8 400	7 869	513	99	8 369	6 044	2 144	181	212	503	353
Other construction craftsmen	3 061	2 836	175	42	3 019	1 504	1 268	247	63	149	174
Foremen, n.e.c.	37 998	35 315	2 593	370	37 917	33 591	3 970	563	895	2 623	1 163
Manufacturing	27 420	25 558	1 801	223	27 377	24 605	2 568	204	714	1 838	914
Nonmanufacturing industries	10 578	9 757	792	147	10 540	8 986	1 402	152	181	425	249
Linemen and servicemen, telephone and power	6 563	6 002	525	96	6 526	5 079	1 156	291	52	106	151
Locomotive engineers and firemen	948	897	42	7	941	616	317	8	23	67	48
Mechanics and repairmen	53 237	46 662	6 360	757	52 872	39 171	11 676	2 025	1 097	2 674	1 975
Air conditioning, heating, and refrigeration	2 044	1 879	165	6	2 032	1 436	512	84	30	63	64
Aircraft	888	854	34	19	883	744	112	27	19	11	16
Automobile, including body	23 421	19 665	3 625	335	23 239	16 253	5 978	1 008	528	1 313	854
Radio and television	2 125	1 893	218	63	2 120	1 584	389	147	4	54	80
Other mechanics and repairmen	24 759	22 371	2 318	334	24 598	19 154	4 685	759	516	1 233	961
Metal craftsmen, except mechanics	52 476	48 498	3 860	574	52 231	39 169	11 744	1 318	1 847	3 671	1 829
Machinists and job and die setters	13 029	11 304	1 689	108	12 983	9 846	2 855	282	569	1 204	621
Sheetmetal workers and fitters	3 809	3 665	136	36	3 799	2 657	1 028	114	44	168	114
Tool and die makers	21 878	21 399	451	237	21 768						

Table 172. Occupation of the Experienced Civilian Labor Force by Race and Sex, and Weeks Worked in 1969 and Experienced Workers Not in 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

Male, 16 years old and over—Continued

	Total experienced civilian labor force	White	Negro	Persons of Spanish language	Weeks worked in 1969 of the experienced civilian labor force				Year last worked of experienced workers not in labor force		
					Total	50 to 52 weeks	27 to 49 weeks	1 to 26 weeks	1960-63	1964-68	1969-70
Operatives, except transport	221 136	156 017	64 327	3 717	217 196	133 401	67 358	16 437	6 533	14 792	18 177
Assemblers.....	36 118	20 801	15 182	911	35 476	18 526	14 139	2 811	986	2 417	2 983
Checkers, examiners, and inspectors, manufacturing.....	19 541	15 988	3 518	156	19 400	13 409	5 386	605	758	1 746	1 000
Garage workers and gas station attendants.....	9 004	7 860	1 119	53	8 559	2 377	3 205	2 977	48	317	2 235
Laundry and drycleaning operatives, n.e.c.....	1 310	705	605	28	1 281	750	287	244	8	109	178
Meat cutters and butchers.....	3 913	3 264	639	62	3 869	3 022	702	145	91	204	190
Mine operatives, n.e.c.....	261	213	45	31	251	111	102	38	45	18	38
Packers and wrappers, except produce.....	3 927	3 021	868	65	3 784	1 832	1 093	859	73	220	820
Painters, manufactured articles.....	4 071	2 651	1 416	108	3 994	2 310	1 488	196	151	387	305
Precision machine operatives.....	24 516	21 497	2 957	323	24 263	17 215	5 985	1 063	683	1 514	1 186
Sawyers.....	926	832	89	5	910	617	242	51	38	65	59
Stationary firemen.....	2 361	1 858	503	28	2 322	1 927	347	48	98	188	101
Textile operatives.....	149	125	24	—	139	101	21	17	—	45	38
Welders and flamecutters.....	18 923	12 131	6 730	346	18 768	11 611	6 218	939	431	1 150	927
Other metalworking operatives.....	19 718	12 287	7 379	324	19 445	11 791	6 493	1 161	920	1 725	1 397
Other specified operatives.....	28 362	17 972	10 184	334	27 309	16 830	8 256	2 223	887	1 635	3 144
Miscellaneous and not specified operatives.....	48 036	34 812	13 069	943	47 426	30 972	13 394	3 060	3 116	3 052	3 576
Occupation:											
Machine operatives, miscellaneous specified.....	16 773	12 080	4 628	326	16 585	11 147	4 486	952	443	988	1 138
Machine operatives, not specified.....	13 845	9 203	4 619	264	13 675	8 888	3 998	789	403	895	936
Miscellaneous operatives.....	10 559	8 144	2 373	208	10 415	6 452	3 102	861	278	662	954
Not specified operatives.....	6 859	5 385	1 449	145	6 751	4 485	1 808	458	192	507	548
Industry:											
Manufacturing.....	43 153	30 989	12 035	812	42 638	28 066	12 060	2 512	1 187	2 850	3 089
Durable goods.....	36 250	25 583	10 549	669	35 855	23 376	10 447	2 032	1 038	2 359	2 448
Wood products, including furniture.....	417	334	83	4	408	251	134	23	22	27	38
Primary metal industries.....	4 090	2 999	1 080	172	4 018	2 749	988	281	128	248	288
Fabricated metal industries.....	3 520	2 930	584	78	3 502	2 370	826	306	43	145	320
Machinery, including electrical.....	8 275	7 507	753	63	8 227	5 493	2 239	495	96	217	452
Motor vehicles and equipment.....	17 466	9 831	7 560	325	17 281	11 042	5 545	694	680	1 576	1 147
Transportation equipment, except motor vehicles.....	283	263	20	—	270	180	58	32	12	16	31
Other durable goods.....	2 199	1 719	469	27	2 149	1 291	657	201	57	130	172
Nondurable goods.....	6 618	5 225	1 382	139	6 510	4 567	1 506	437	145	476	597
Food and kindred products.....	1 364	990	374	64	1 337	935	329	73	46	113	155
Apparel and other fabricated textile products.....	210	156	54	5	205	136	48	21	4	30	11
Paper and allied products.....	739	606	133	10	727	515	125	87	10	35	94
Chemicals and allied products.....	1 731	1 517	209	26	1 711	1 341	293	77	25	112	134
Other nondurable goods.....	2 574	1 956	612	34	2 530	1 640	711	179	60	186	203
Not specified manufacturing industries.....	285	181	104	4	273	123	107	43	4	15	44
Nonmanufacturing industries.....	4 883	3 823	1 034	131	4 788	2 906	1 334	548	129	202	487
Transportation, communications, and other public utilities.....	901	748	153	36	894	636	212	46	32	67	56
Wholesale and retail trade.....	2 065	1 566	477	61	2 012	1 221	522	269	62	79	185
All other industries.....	1 917	1 509	404	34	1 882	1 049	600	233	35	56	246
Transport equipment operatives.....	60 043	47 480	12 431	761	59 358	39 530	16 386	3 442	917	2 674	4 068
Bus drivers.....	2 314	1 298	1 016	18	2 314	1 808	442	64	64	147	158
Taxicab drivers and chauffeurs.....	3 615	2 581	1 017	35	3 588	1 906	1 276	406	105	284	429
Truck drivers and deliverymen.....	38 990	33 108	5 803	460	38 604	25 919	10 589	2 096	540	1 690	2 267
Other transport equipment operatives.....	15 124	10 493	4 595	248	14 852	9 897	4 079	876	208	553	1 214
Laborers, except farm.....	63 356	45 633	17 442	1 179	61 297	30 023	19 900	11 374	1 465	4 022	13 947
Construction laborers.....	8 466	5 801	2 635	181	8 262	3 309	3 854	1 099	238	511	1 475
Freight, stock, and material handlers.....	31 076	24 241	6 682	490	30 169	14 644	9 272	6 253	512	1 491	6 216
Other specified laborers.....	12 508	8 237	4 198	108	11 833	6 017	3 435	2 381	369	1 001	4 195
Miscellaneous and not specified laborers.....	11 306	7 354	3 927	400	11 033	6 053	3 339	1 641	346	1 019	2 061
Occupation:											
Miscellaneous laborers.....	3 956	2 549	1 387	169	3 898	2 444	1 117	337	95	441	421
Not specified laborers.....	7 350	4 805	2 540	231	7 135	3 609	2 222	1 304	251	578	1 640
Industry:											
Manufacturing.....	7 410	4 631	2 768	293	7 238	4 166	2 207	865	277	648	1 070
Durable goods.....	6 522	4 025	2 486	258	6 368	3 711	1 973	684	232	577	913
Wood products, including furniture.....	46	24	22	—	46	20	15	11	—	7	13
Metal industries.....	2 596	1 931	659	175	2 542	1 522	769	251	54	218	376
Machinery, including electrical.....	532	426	106	—	517	296	128	93	5	8	119
Transportation equipment.....	2 941	1 348	1 588	78	2 870	1 629	973	268	168	301	304
Other durable goods.....	407	296	111	5	393	244	88	61	5	43	101
Nondurable goods.....	845	595	250	35	827	418	228	181	40	71	151
Food and kindred products.....	294	163	131	6	290	121	81	88	6	14	56
Not specified manufacturing industries.....	43	11	32	—	43	37	6	—	5	—	6
Nonmanufacturing industries.....	3 896	2 723	1 159	107	3 795	1 887	1 132	776	69	371	991
Railroads and railway express service.....	340	233	93	66	335	200	101	34	15	63	45
Transportation, except railroads.....	271	222	49	—	267	119	82	66	—	30	42
Communications, and utilities and sanitary services.....	530	281	249	—	530	360	134	36	13	42	68
Wholesale and retail trade.....	1 435	1 069	366	30	1 397	645	414	338	23	126	296
All other industries.....	1 320	918	402	11	1 266	563	401	302	18	110	540
Farmers and farm managers.....	1 522	1 382	140	—	1 477	1 239	184	54	129	277	263
Farm laborers and farm foremen.....	1 507	1 164	338	41	1 408	676	452	280	50	148	728
Paid farm laborers and farm foremen.....	1 347	1 029	313	41	1 279	606	411	262	34	143	633
Unpaid family workers.....	160	135	25	—	129	70	41	18	16	5	95
Service workers, except private household ¹	82 811	63 202	19 039	993	80 583	49 259	19 376	11 948	2 376	6 306	14 759
Cleaning service workers.....	30 964	20 841	10 009	416	30 322	18 578	7 861	3 883	1 126	3 133	4 723
Food service workers.....	16 702	14 236	2 113	298	15 883	5 950	4 784	5 149	301	1 201	5 150
Cooks, except private household.....	6 060	5 254	575	94	5 845	2 445	1 892	1 508	107	309	1 329
Busboys and dishwashers.....	4 445	3 771	643	74	4 112	613	1 148	2 351	45	348	2 405
Health service workers.....	2 617	1 540	1 051	14	2 494	1 285	718	491	55	173	410
Personal service workers.....	6 660	5 223	1 399	85	6 508	3 662	1 926	920	191	496	1 967
Protective service workers.....	20 548	18 252	2 273	150	20 416	17 062	2 626	728	504	975	982
Firemen, fire protection.....	3 587	3 488	95	34	3 583	3 427	149	7	54	86	69
Guards and watchmen.....	7 715	6 304	1 405	33	7 620	5 554	1 542	524	336	693	780
Policemen and detectives.....	8 719	7 982	724	83	8 686	7 723	819	144	97	141	113
Private household workers.....	524	310	208	6	506	211	119	176	47	82	151
Unemployed persons, last worked 1959 or earlier ²	395	207	188	18	...	...	...	...	...	...	...

¹Includes allocated cases not shown separately. ²See text for explanation.

Table 172. Occupation of the Experienced Civilian Labor Force by Race and Sex, and Weeks Worked in 1969 and Experienced Workers Not in 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

	Total experienced civilian labor force			Persons of Spanish language	Weeks worked in 1969 of the experienced civilian labor force				Year last worked of experienced workers not in labor force		
	White	Negro			Total	50 to 52 weeks	27 to 49 weeks	1 to 26 weeks	1960-63	1964-68	1969-70
Female, 16 years old and over	589 484	470 504	115 847	6 359	561 602	273 916	186 366	101 320	56 909	147 194	144 266
Professional, technical, and kindred workers	83 220	69 899	12 362	811	80 859	28 733	38 866	13 260	6 019	14 980	14 553
Accountants	3 848	3 297	540	65	3 707	2 565	630	512	190	519	422
Computer specialists	909	753	145	—	897	648	149	100	21	100	94
Librarians	1 282	1 149	113	—	1 250	422	661	167	58	193	173
Mathematical specialists	181	158	23	—	181	149	14	18	13	40	10
Life and physical scientists	345	275	39	—	345	243	65	37	54	71	73
Registered nurses, dietitians, and therapists	15 346	12 543	2 437	158	14 894	7 973	4 902	2 019	1 183	2 757	2 300
Dietitians	737	413	296	6	702	392	244	66	37	168	116
Registered nurses	13 654	11 355	1 967	137	13 273	7 215	4 228	1 830	1 091	2 425	2 054
Health technologists and technicians	4 097	3 122	886	50	4 039	2 449	1 141	449	306	706	509
Social scientists	325	263	62	—	325	171	118	36	15	49	25
Social and recreation workers	3 162	2 059	1 082	47	3 087	1 544	1 067	476	162	503	768
Teachers: College and university	1 618	1 500	75	37	1 569	458	825	286	48	156	269
Elementary and prekindergarten	25 258	21 524	3 629	165	24 685	2 831	16 989	4 865	2 004	5 385	4 979
Secondary	9 835	8 687	1 102	119	9 634	1 118	6 772	1 744	763	1 786	1 750
Other teachers	1 993	1 840	153	29	1 940	518	953	469	103	312	381
Engineering and science technicians	1 220	1 092	102	11	1 196	794	278	124	130	216	207
Technicians, except health, and engineering and science	296	249	47	—	291	181	76	34	5	75	51
Writers, artists, and entertainers	3 913	3 565	312	38	3 817	1 773	1 275	769	314	697	853
Actors and dancers	280	243	30	20	271	46	154	71	4	52	68
Authors, editors, and reporters	755	700	52	—	745	466	173	106	110	154	135
Other professional, technical, and kindred workers	9 592	7 823	1 615	78	9 002	4 896	2 951	1 155	650	1 415	1 689
Managers and administrators, except farm	17 435	15 369	1 990	152	16 983	11 794	3 902	1 287	1 057	2 861	2 543
Buyers, purchasing agents, and sales managers	2 649	2 439	203	9	2 614	1 917	534	163	194	467	231
Restaurant, cafeteria, and bar managers	1 689	1 463	209	7	1 626	947	484	195	132	322	266
School administrators	1 128	998	124	—	1 114	280	758	76	30	133	76
Other specified managers and administrators	4 015	3 187	805	42	3 815	2 800	671	344	291	744	971
Managers and administrators, n.e.c., salaried	6 244	5 758	463	66	6 156	4 683	1 125	348	262	813	695
Wholesale and retail trade	1 966	1 831	135	9	1 933	1 485	339	109	93	246	260
Managers and administrators, n.e.c., self-employed	1 710	1 524	186	28	1 658	1 167	330	161	148	382	304
Wholesale and retail trade	1 036	904	132	17	994	696	205	93	117	262	176
Sales workers	50 637	45 800	4 759	394	47 865	20 724	15 170	11 971	6 215	16 597	17 495
Demonstrators, hucksters, and peddlers	1 930	1 816	114	7	1 659	412	586	661	148	757	1 064
Insurance, real estate agents, and brokers	3 273	3 007	255	24	3 137	1 620	1 035	482	136	438	434
Sales clerks, retail trade	36 980	33 946	3 443	288	35 349	15 071	11 085	9 193	5 041	13 064	12 585
Salesmen, retail trade	1 670	1 547	115	—	1 622	671	601	350	130	294	418
Other sales workers	6 784	5 934	832	75	6 098	2 950	1 863	1 285	760	2 044	2 994
Clerical and kindred workers	224 886	189 810	34 363	2 233	216 575	125 839	56 170	34 566	24 088	55 746	50 671
Bank tellers	5 473	4 933	517	30	5 374	3 337	1 297	740	374	1 334	1 009
Bookkeepers	23 928	22 019	1 844	206	23 473	15 774	5 250	2 449	2 315	5 075	3 949
Cashiers	18 097	15 537	2 473	184	17 197	6 857	5 654	4 686	1 559	5 298	6 151
Counter clerks, except food	4 177	3 440	726	39	3 972	1 880	1 103	989	324	1 248	1 281
Enumerators and interviewers	606	412	194	6	504	152	155	197	187	284	352
File clerks	7 161	5 642	1 484	74	6 732	3 090	1 879	1 763	844	2 228	2 239
Office machine operators	11 428	8 952	2 451	149	11 133	6 631	2 844	1 658	1 411	2 703	1 993
Bookkeeping and billing machine operators	1 381	1 118	255	24	1 350	776	257	317	338	441	228
Keypunch operators	6 677	5 098	1 562	114	6 500	3 799	1 843	858	608	1 556	1 239
Payroll and timekeeping clerks	2 491	2 240	247	38	2 455	1 777	454	224	296	496	320
Receptionists	6 942	6 113	810	95	6 569	3 215	1 996	1 358	846	1 989	2 115
Secretaries	53 693	49 946	3 664	519	52 670	35 148	12 047	5 475	6 201	14 207	9 561
Stenographers	3 043	2 635	387	23	2 997	1 998	649	350	497	788	463
Telephone operators	8 324	6 299	2 000	51	7 972	4 696	2 071	1 205	1 108	2 038	1 765
Typists	24 095	19 611	4 410	253	23 176	12 568	6 127	4 481	3 180	6 423	5 663
Other clerical and kindred workers	55 428	42 031	13 156	566	52 351	28 716	14 644	8 991	4 946	11 635	13 804
Craftsman and kindred workers	9 432	7 812	1 593	149	9 101	5 301	2 797	1 003	699	1 999	1 750
Foremen, n.e.c.	2 042	1 797	238	26	2 002	1 586	349	67	131	311	198
Operatives, except transport	69 685	51 528	17 791	1 086	66 775	30 606	25 640	10 529	6 396	18 781	17 544
Assemblers	12 118	9 345	2 714	133	11 849	5 119	4 909	1 821	841	2 915	2 787
Battling and canning operatives	169	132	37	14	164	59	69	36	35	61	42
Checkers, examiners, and inspectors, manufacturing	5 458	4 603	826	51	5 344	2 789	1 985	570	601	1 308	887
Dressmakers and seamstresses, except factory	1 811	1 463	322	34	1 761	745	763	253	281	634	479
Laundry and drycleaning operatives, including ironers	4 795	1 651	3 113	59	4 468	2 360	1 528	580	573	1 356	1 107
Graders and sorters, manufacturing	110	84	26	—	96	41	33	22	11	76	58
Packers and wrappers, except produce	6 496	5 175	1 285	160	6 290	2 887	2 205	1 198	692	2 122	2 197
Sewers and stitchers	5 954	4 513	1 383	154	5 763	2 390	2 760	613	658	1 752	1 160
Textile operatives	112	67	45	—	102	23	52	27	26	123	64
Other specified operatives	18 588	13 829	4 664	310	17 376	7 946	6 428	3 002	1 670	4 988	4 958
Miscellaneous and not specified operatives	14 074	10 666	3 376	171	13 562	6 247	4 908	2 407	1 008	3 446	3 815
Manufacturing	12 343	9 485	2 826	158	11 943	5 497	4 366	2 080	816	3 018	3 247
Durable goods	7 604	5 720	1 867	84	7 360	3 412	2 720	1 228	419	1 465	1 542
Machinery, including electrical	1 796	1 563	222	22	1 720	823	624	273	88	306	298
Other durable goods	5 808	4 157	1 645	62	5 640	2 589	2 096	955	331	1 159	1 244
Nondurable goods, including not specified manufacturing	4 739	3 765	959	74	4 583	2 085	1 646	852	397	1 553	1 705
Food and kindred products	462	394	68	—	446	204	193	49	81	165	101
Apparel and other fabricated textile products	328	208	120	—	323	152	131	40	16	75	122
Nonmanufacturing industries	1 731	1 181	550	13	1 619	750	542	327	192	428	568
Transport equipment operatives	3 078	2 686	386	43	2 923	882	1 507	534	88	329	481
Laborers, except farm	6 080	4 035	2 027	62	5 731	2 582	1 786	1 363	485	1 310	2 059
Farmers and farm managers	347	215	128	—	341	236	63	42	27	55	86
Farm laborers and farm foremen	617	375	234	—	547	140	196	52	52	270	370
Paid farm laborers and farm foremen	546	308	230	—	490	108	200	182	38	246	293
Unpaid family workers	71	67	4	—	57	32	11	14	14	24	77
Service workers, except private household ¹	107 135	75 844	30 548	1 313	99 895	41 880	35 306	22 709	9 657	29 104	32 021
Cleaning service workers	14 067	8 139	5 898	144	13 381	6 888	4 490	2 003	1 129	3 290	3 031
Chambermaids and maids	2 754	1 492	1 126	31	2 515	1 126	950	439	242	920	787
Food service workers	42 200	34 334	7 513	625	39 075	13 399	14 766	10 910	4 332	13 955	16 096
Cooks, except private household	8 604	5 997	2 518	153	8 141	3 375	3 368	1 398	632	2 234	2 366
Waiters and food counter workers	25 163	22 363	2 588								

Table 172. Occupation of the Experienced Civilian Labor Force by Race and Sex, and Weeks Worked in 1969 and Experienced Workers Not in 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

	Total experienced civilian labor force	White	Negro	Persons of Spanish language	Weeks worked in 1969 of the experienced civilian labor force				Year last worked of experienced workers not in labor force		
					Total	50 to 52 weeks	27 to 49 weeks	1 to 26 weeks	1960-63	1964-68	1969-70
Male, 16 years old and over	122 005	108 525	13 176	1 658	120 453	80 484	31 975	8 094	2 551	7 210	8 570
Professional, technical, and kindred workers	12 221	11 675	456	169	12 155	8 155	3 179	821	147	330	596
Accountants	740	719	15	21	736	613	89	34	10	27	22
Architects	68	62	—	—	68	47	21	—	—	—	—
Computer specialists	248	237	5	—	248	225	23	—	—	—	6
Engineers	2 097	2 070	23	15	2 091	1 690	236	165	43	65	119
Aeronautical and astronautical	6	6	—	—	6	—	6	—	—	—	—
Civil	140	132	8	—	140	110	21	9	—	—	16
Electrical and electronic	216	206	10	—	216	166	33	17	11	8	8
Mechanical	768	768	—	—	768	634	84	50	15	47	53
Other engineers	967	958	5	15	961	780	92	89	17	10	42
Lawyers and judges	276	270	6	—	272	239	33	—	4	—	12
Life and physical scientists	187	181	6	—	187	162	19	6	—	4	—
Chemists	155	149	6	—	155	130	19	6	—	4	—
Physicians, dentists, and related practitioners	1 127	1 033	46	44	1 122	758	336	28	21	37	—
Dentists	159	154	5	—	159	50	109	—	5	5	—
Pharmacists	220	203	17	—	220	174	46	—	5	10	—
Physicians, medical and osteopathic	637	565	24	44	637	449	160	28	—	5	—
Other related practitioners	111	111	—	—	106	85	21	—	11	17	—
Health technologists and technicians	163	142	16	—	163	130	21	12	—	—	6
Religious workers	464	443	21	6	464	371	60	33	3	13	5
Social scientists	113	107	6	—	113	97	11	5	—	—	—
Social and recreation workers	225	191	34	6	225	152	43	30	—	—	48
Teachers	2 673	2 519	150	24	2 660	1 025	1 477	158	9	38	93
College and university	422	413	9	—	422	266	151	5	—	5	—
Elementary and prekindergarten	688	634	54	18	688	221	422	45	—	—	33
Secondary	1 479	1 388	87	6	1 466	476	889	101	5	24	51
Engineering and science technicians	1 647	1 604	32	13	1 631	1 088	314	229	24	61	95
Draftsmen and surveyors	875	863	12	13	859	677	119	63	11	29	18
Electrical and electronic engineering technicians	69	65	4	—	69	60	9	—	—	—	—
Technicians, except health, and engineering and science	116	111	5	—	111	87	18	6	—	—	11
Airplane pilots	27	—	—	—	22	—	—	—	9	23	67
Writers, artists, and entertainers	646	634	12	21	636	463	117	56	24	62	112
Other professional, technical, and kindred workers	1 431	1 352	79	19	1 428	1 008	361	59	—	—	—
Managers and administrators, except farm	7 867	7 655	188	74	7 863	6 515	1 200	148	91	322	289
Buyers, purchasing agents, and sales managers	922	906	10	6	922	844	74	4	15	15	15
School administrators	362	345	17	—	362	169	193	—	—	5	25
Specified managers and administrators, public administration	441	441	—	—	441	384	50	7	10	24	38
Other specified managers and administrators	1 361	1 308	44	27	1 361	1 120	212	29	10	70	81
Managers and administrators, n.e.c., salaried	3 583	3 511	72	21	3 583	3 099	409	75	28	108	73
Manufacturing	748	736	12	—	748	671	57	20	4	49	22
Wholesale and retail trade	1 405	1 392	13	11	1 405	1 237	139	29	14	18	29
Transportation, communications, and other public utilities	274	269	5	—	274	253	21	—	—	4	—
All other industries	1 156	1 114	42	10	1 156	899	192	26	10	37	22
Managers and administrators, n.e.c., self-employed	1 198	1 144	45	20	1 194	899	262	33	28	100	57
Construction	238	224	10	—	234	146	7	—	—	15	4
Manufacturing	70	58	7	—	70	63	7	—	—	—	15
Wholesale and retail trade	674	651	23	20	674	554	110	10	22	49	38
All other industries	216	211	5	—	216	136	69	11	—	29	—
Sales workers	5 697	5 536	161	21	5 598	4 006	1 139	453	106	329	504
Insurance agents, brokers, and underwriters	664	642	22	—	664	528	116	20	10	10	17
Real estate agents and brokers	450	436	14	—	434	295	124	15	16	27	18
Sales representatives, manufacturing industries	400	400	—	—	400	321	68	11	23	27	20
Sales representatives, wholesale trade	857	845	12	—	848	733	88	27	5	39	15
Sales clerks, retail trade	1 519	1 458	61	—	1 475	786	412	277	11	86	281
Salesmen, retail trade	957	916	41	10	948	783	123	42	25	32	30
Salesmen of services and construction	229	229	—	—	229	172	51	6	5	—	31
Other sales workers	621	610	11	11	600	388	157	55	11	108	92
Clerical and kindred workers	6 802	6 319	483	6	6 733	5 105	1 268	360	126	492	456
Bank tellers and cashiers	299	280	19	—	294	133	103	58	5	18	46
Bookkeepers and billing clerks	514	506	8	—	508	434	50	24	5	35	28
Mail handlers and postal clerks	450	398	52	—	445	361	47	37	22	14	49
Other clerical and kindred workers	5 539	5 135	404	6	5 486	4 177	1 068	241	94	425	333
Craftsmen and kindred workers	32 007	30 059	1 887	269	31 789	23 273	7 471	1 045	692	2 104	1 474
Apparel craftsmen and upholsterers	153	126	27	6	149	89	42	18	8	22	6
Bakers	93	93	—	—	93	42	25	26	—	5	11
Cabinetmakers	82	82	—	—	82	46	30	6	5	12	—
Construction craftsmen	6 435	6 177	249	85	6 382	3 733	2 350	299	116	320	355
Carpenters	1 442	1 408	29	3	1 425	656	668	101	41	80	115
Excavating, grading, and road machine operators	601	596	5	—	601	327	244	30	17	17	18
Electricians	1 673	1 608	61	13	1 670	1 273	383	14	10	73	38
Masons and tile setters	373	329	44	—	373	179	174	20	—	25	14
Painters, construction and maintenance, and paperhangers	562	513	49	22	540	251	225	64	5	46	108
Plasterers and cement finishers	171	122	49	5	164	74	66	24	5	12	6
Plumbers and pipe fitters	1 251	1 244	7	—	1 247	824	394	29	34	48	21
Other construction craftsmen	362	357	5	7	362	149	196	17	4	19	35
Foremen, n.e.c.	4 962	4 800	156	18	4 946	4 371	508	67	109	415	113
Manufacturing	4 043	3 904	133	5	4 032	3 589	398	45	84	350	87
Nonmanufacturing industries	919	896	23	13	914	782	110	22	25	65	26
Linemen and servicemen, telephone and power	618	602	16	—	615	448	139	28	—	21	10
Locomotive engineers and firemen	44	44	—	—	44	33	6	5	5	3	—
Mechanics and repairmen	7 089	6 541	524	64	7 053	4 944	1 834	275	141	411	280
Air conditioning, heating, and refrigeration	169	155	14	—	160	116	35	9	10	5	5
Aircraft	11	—	—	—	11	—	—	—	—	—	—
Automobile, including body	3 809	3 447	349	29	3 790	2 484	1 159	147	75	198	161
Radio and television	188	181	7	—	188	138	39	11	—	—	6
Other mechanics and repairmen	2 912	2 747	154	35	2 904	2 195	601	108	56	208	103
Metal craftsmen, except mechanics	8 611	8 060	535	68	8 580	6 824	1 619	137	199	638	259
Machinists and job and die setters	2 896	2 534	349	21	2 882	2 311	536	35	72	258	94
Sheetmetal workers and tinsmiths	530	509	21	13	530	354	176	—	12	24	33
Tool and die makers	3 531	3 435	91	12	3 521	2 863	618	40	80	245	59
Other metal craftsmen	1 654	1 580	74	22	1 647	1 296	289	62	35	111	73
Printing craftsmen	271	271	—	—	271	237	24	10	—	—	5
Compositors and typesetters	132	132	—	—	132	108	14	10	—	—	5
Pressmen and plate printers, printing	100	100	—	—	100	100	—	—	—	—	5
Stationary engineers and power station operators	248	232	16	—	244	198	39	7	—	28	9
Other craftsmen and kindred workers	3 401	3 031	364	28	3 330	2 308	855	167	109	216	421

Table 172. Occupation of the Experienced Civilian Labor Force by Race and Sex, and Weeks Worked in 1969 and Experienced Workers Not in 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—Continued

Male, 16 years old and over—Continued

	Total experienced civilian labor force	White	Negro	Persons of Spanish language	Weeks worked in 1969 of the experienced civilian labor force			Year last worked of experienced workers not in labor force			
					Total	50 to 52 weeks	27 to 49 weeks	1 to 26 weeks	1960-63	1964-68	1969-70
Operatives, except transport	32 974	26 320	6 583	607	32 524	19 290	11 036	2 198	853	2 238	1 951
Assemblers.....	8 876	6 566	2 298	248	8 752	4 449	3 744	559	158	379	451
Checkers, examiners, and inspectors; manufacturing.....	3 770	3 316	446	37	3 759	2 535	1 119	105	133	314	135
Garage workers and gas station attendants.....	1 184	1 149	35	29	1 100	308	397	395	8	29	322
Laundry and drycleaning operatives, n.e.c.....	153	104	43	5	153	82	45	26	11	4	9
Meat cutters and butchers.....	325	313	12	12	318	270	39	9	—	18	24
Mine operatives, n.e.c.....	70	70	—	9	70	23	36	11	—	—	14
Packers and wrappers, except produce.....	395	362	33	7	395	286	90	19	5	24	30
Painters, manufactured articles.....	913	801	112	17	907	472	378	57	19	58	41
Precision machine operatives.....	2 157	1 965	192	28	2 145	1 513	568	64	132	270	84
Sewyers.....	68	68	—	—	68	43	25	—	—	9	—
Stationary firemen.....	169	169	—	—	169	150	19	—	4	24	6
Textile operatives.....	27	27	—	—	27	17	10	—	—	5	11
Welders and flamecutters.....	2 585	2 056	529	40	2 559	1 573	857	129	30	146	138
Other metalworking operatives.....	3 639	2 751	873	62	3 618	2 328	1 114	176	92	333	177
Other specified operatives.....	3 193	2 341	841	55	3 070	1 835	941	294	81	225	212
Miscellaneous and not specified operatives.....	5 450	4 262	1 169	58	5 414	3 406	1 654	354	180	400	297
Occupation:											
Machine operatives, miscellaneous specified.....	1 540	1 324	211	33	1 536	936	503	97	52	124	61
Machine operatives, not specified.....	2 069	1 417	643	—	2 052	1 358	585	109	67	181	106
Miscellaneous operatives.....	1 008	839	164	17	1 008	595	317	96	33	41	39
Not specified operatives.....	833	682	151	8	818	517	249	52	28	54	91
Industry:											
Manufacturing.....	5 151	3 985	1 147	58	5 115	3 223	1 583	309	170	383	248
Durable goods.....	4 881	3 729	1 133	53	4 845	3 034	1 542	269	162	364	208
Wood products, including furniture.....	34	28	6	—	34	16	13	5	—	—	6
Primary metal industries.....	94	73	21	—	94	77	11	6	5	—	—
Fabricated metal industries.....	173	153	20	—	173	100	43	30	—	—	3
Machinery, including electrical.....	147	140	7	5	147	108	28	11	11	6	25
Motor vehicles and equipment.....	4 265	3 175	1 071	48	4 229	2 641	1 379	209	142	352	171
Transportation equipment, except motor vehicles.....	42	42	—	—	42	10	28	4	—	—	—
Other durable goods.....	126	118	8	—	126	82	40	4	4	6	3
Nondurable goods.....	266	252	14	5	266	185	41	40	5	19	35
Food and kindred products.....	48	48	—	5	48	31	7	10	—	—	17
Apparel and other fabricated textile products.....	13	13	—	—	13	5	8	—	—	—	—
Paper and allied products.....	79	77	2	—	79	54	11	14	—	6	11
Chemicals and allied products.....	101	89	12	—	101	80	10	11	—	7	7
Other nondurable goods.....	25	25	—	—	25	15	5	5	5	6	—
Not specified manufacturing industries.....	4	4	—	—	4	4	—	—	3	—	5
Nonmanufacturing industries.....	299	277	22	—	299	183	71	45	10	17	49
Transportation, communications, and other public utilities.....	33	33	—	—	33	19	14	—	5	—	14
Wholesale and retail trade.....	155	151	4	—	155	103	22	30	5	17	35
All other industries.....	111	93	18	—	111	61	35	15	—	—	—
Transport equipment operatives	6 829	5 989	834	85	6 755	4 281	2 113	361	100	251	269
Bus drivers.....	90	74	16	—	90	51	30	9	—	—	11
Taxicab drivers and chauffeurs.....	361	259	102	—	356	159	164	33	11	21	12
Truck drivers and deliverymen.....	4 838	4 291	541	59	4 782	3 094	1 484	204	81	187	178
Other transport equipment operatives.....	1 540	1 365	175	26	1 527	977	435	115	8	43	68
Laborers, except farm	7 604	6 465	1 123	165	7 377	3 694	2 479	1 204	116	360	1 370
Construction laborers.....	935	765	170	33	888	294	449	145	26	49	150
Freight, stock, and material handlers.....	4 111	3 675	429	91	4 004	2 079	1 221	704	39	210	544
Other specified laborers.....	1 575	1 200	366	9	1 514	738	548	228	25	47	567
Miscellaneous and not specified laborers.....	983	825	158	32	971	583	261	127	26	54	109
Occupation:											
Miscellaneous laborers.....	361	320	41	8	356	245	68	43	18	19	20
Not specified laborers.....	622	505	117	24	615	338	193	84	8	35	89
Industry:											
Manufacturing.....	692	561	131	24	680	428	213	39	8	40	35
Durable goods.....	643	515	128	24	631	399	203	29	8	36	21
Wood products, including furniture.....	14	14	—	11	14	7	7	—	—	—	—
Metal industries.....	52	52	—	—	48	33	15	—	8	5	13
Machinery, including electrical.....	14	14	—	—	14	14	—	—	—	—	—
Transportation equipment.....	536	418	118	13	528	340	177	11	—	31	4
Other durable goods.....	27	17	10	—	27	5	4	18	—	—	4
Nondurable goods.....	46	46	—	—	46	26	10	10	—	—	14
Food and kindred products.....	22	22	—	—	22	16	6	—	—	—	4
Not specified manufacturing industries.....	3	—	3	—	3	3	—	—	—	4	—
Nonmanufacturing industries.....	291	264	27	8	291	155	48	88	18	14	74
Railroads and railway express service.....	42	42	—	—	42	32	—	10	—	14	5
Transportation, except railroads.....	11	11	—	—	11	6	5	—	8	—	—
Communications, and utilities and sanitary services.....	59	59	—	8	59	42	12	5	—	—	13
Wholesale and retail trade.....	70	53	17	—	70	35	11	24	4	—	38
All other industries.....	109	99	10	—	109	40	20	49	6	—	18
Farmers and farm managers	993	979	14	—	982	851	91	40	80	147	132
Farm laborers and farm foremen	697	669	28	142	670	354	141	175	42	56	244
Paid farm laborers and farm foremen.....	635	610	25	142	608	299	137	172	32	51	218
Unpaid family workers.....	62	59	3	—	62	55	4	3	10	5	26
Service workers, except private household¹	8 270	6 832	1 402	120	7 978	4 856	1 847	1 275	198	578	1 280
Cleaning service workers.....	3 575	2 693	877	72	3 449	2 144	844	461	89	244	415
Food service workers.....	1 206	1 094	81	26	1 102	311	289	502	20	98	461
Cooks, except private household.....	528	455	51	20	485	198	123	164	—	29	127
Busboys and dishwashers.....	299	287	12	6	272	11	56	205	—	19	217
Health service workers.....	429	373	56	—	429	289	73	67	11	41	47
Personal service workers.....	752	640	112	19	738	370	268	100	18	57	130
Protective service workers.....	1 815	1 730	85	3	1 800	1 483	243	74	60	87	106
Firemen, fire protection.....	286	286	—	—	286	279	7	—	—	16	—
Guards and watchmen.....	642	587	55	3	632	529	80	23	46	66	78
Police and detectives.....	724	699	25	—	719	616	58	45	10	—	13
Private household workers	29	21	8	—	29	4	11	14	—	3	5
Unemployed persons, last worked 1959 or earlier²	15	6	9	—	...	...	...	...	...	...	...

¹Includes allocated cases not shown separately.

²See text for explanation.

Table 172. Occupation of the Experienced Civilian Labor Force by Race and Sex, and Weeks Worked in 1969 and Experienced Workers Not in 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	Total experienced civilian labor force	White	Negro	Persons of Spanish language	Weeks worked in 1969 of the experienced civilian labor force				Year last worked of experienced workers not in labor force			
					Total	50 to 52 weeks	27 to 49 weeks	1 to 26 weeks	1960-63	1964-68	1969-70	
FLINT SMSA—Continued												
Female, 16 years old and over	63 464	54 824	8 441	523	60 018	26 173	21 512	12 333	6 291	17 258	16 742	
Professional, technical, and kindred workers	8 923	8 169	719	48	8 666	2 537	4 448	1 681	591	1 443	1 797	
Accountants	348	348	—	—	335	203	45	87	11	—	36	
Computer specialists	51	47	4	—	51	41	10	—	—	—	15	
Librarians	145	133	12	—	140	56	63	21	25	21	35	
Mathematical specialists	5	5	—	—	5	5	—	—	—	—	—	
Life and physical scientists	17	17	—	—	17	11	6	—	—	—	—	
Registered nurses, dietitians, and therapists	1 847	1 691	149	8	1 793	932	577	284	173	331	307	
Dietitians	87	63	21	—	81	56	25	—	17	8	19	
Registered nurses	1 680	1 553	123	8	1 632	828	525	279	156	307	269	
Health technologists and technicians	488	434	54	—	480	244	158	78	36	68	57	
Social scientists	35	35	—	—	31	11	9	11	—	—	5	
Social and recreation workers	265	234	31	—	260	113	116	31	14	40	81	
Teachers: College and university	127	123	4	—	123	38	68	17	—	34	15	
Elementary and prekindergarten	3 107	2 801	300	7	3 046	345	2 074	627	182	505	664	
Secondary	1 218	1 136	71	7	1 213	128	856	229	55	155	171	
Other teachers	287	287	—	7	270	43	115	112	9	74	75	
Engineering and science technicians	57	50	—	—	57	30	20	7	5	6	11	
Technicians, except health, and engineering and science	18	13	5	—	18	8	10	—	4	—	—	
Writers, artists, and entertainers	271	267	4	—	248	92	84	72	20	60	99	
Actors and dancers	—	—	—	—	—	—	—	—	—	7	—	
Authors, editors, and reporters	55	55	—	—	50	16	29	5	6	15	15	
Other professional, technical, and kindred workers	637	548	85	19	579	237	237	105	57	92	226	
Managers and administrators, except farm	1 648	1 571	77	15	1 623	1 063	434	126	141	350	310	
Buyers, purchasing agents, and sales managers	281	251	30	—	281	205	57	19	16	36	20	
Restaurant, cafeteria, and bar managers	205	196	9	—	200	117	67	16	15	41	71	
School administrators	109	98	11	—	109	25	78	6	—	14	25	
Other specified managers and administrators	371	356	15	—	365	242	94	29	37	99	109	
Managers and administrators, n.e.c., salaried	541	534	7	8	531	367	113	51	25	74	62	
Wholesale and retail trade	216	211	5	—	216	151	39	26	15	37	20	
Managers and administrators, n.e.c., self-employed	141	136	5	7	137	107	25	5	48	86	23	
Wholesale and retail trade	90	85	5	—	90	70	15	5	48	49	19	
Sales workers	5 082	5 082	339	19	5 046	1 689	1 796	1 561	796	1 875	2 176	
Demonstrators, hucksters, and peddlers	320	317	3	—	271	62	101	108	34	132	151	
Insurance, real estate agents, and brokers	248	245	3	4	245	86	90	69	—	35	72	
Sales clerks, retail trade	3 983	3 708	266	15	3 727	1 250	1 301	1 176	652	1 483	1 525	
Salesmen, retail trade	220	203	17	—	207	93	71	43	24	48	82	
Other sales workers	659	609	50	—	596	198	233	165	86	177	346	
Clerical and kindred workers	19 170	17 351	1 786	146	18 325	9 808	5 131	3 386	2 221	5 061	4 587	
Bank tellers	495	446	49	6	482	312	113	57	44	64	62	
Bookkeepers	2 432	2 364	68	26	2 377	1 539	590	248	259	479	330	
Cashiers	1 851	1 648	203	19	1 759	644	632	483	218	673	780	
Counter clerks, except food	457	443	14	—	425	186	140	99	62	119	77	
Enumerators and interviewers	59	54	5	—	36	11	19	6	28	32	29	
File clerks	404	376	28	12	390	150	98	142	75	147	115	
Office machine operators	796	735	56	4	756	452	152	152	107	190	186	
Bookkeeping and billing machine operators	86	86	—	—	81	47	10	24	11	23	16	
Keypunch operators	483	437	41	—	468	271	94	103	56	101	95	
Payroll and timekeeping clerks	212	204	8	—	196	120	62	14	21	39	49	
Receptionists	661	616	45	—	623	302	206	115	71	169	184	
Secretaries	4 472	4 294	178	57	4 298	2 549	1 160	589	460	1 292	885	
Stenographers	302	268	29	—	297	216	50	31	45	67	50	
Telephone operators	566	427	122	—	553	282	177	94	114	232	142	
Typists	1 654	1 511	143	—	1 585	917	357	215	215	464	374	
Other clerical and kindred workers	4 809	3 965	838	22	4 548	2 128	1 421	999	502	1 094	1 324	
Craftsman and kindred workers	1 082	897	180	14	1 051	597	333	121	72	228	216	
Foremen, n.e.c.	184	159	25	—	184	144	36	4	6	35	33	
Operatives, except transport	10 935	8 832	2 058	143	10 508	4 988	4 126	1 394	914	2 834	2 195	
Assemblers	3 690	2 974	704	41	3 602	1 623	1 580	399	246	737	485	
Bottling and canning operatives	34	29	5	—	34	9	14	11	6	13	13	
Checkers, examiners, and inspectors; manufacturing	905	708	191	8	887	471	344	72	81	285	124	
Dressmakers and seamstresses, except factory	233	195	32	17	218	83	95	40	14	53	86	
Laundry and drycleaning operatives, including ironers	497	289	208	5	482	211	152	119	50	233	184	
Graders and sorters, manufacturing	40	40	—	8	40	14	16	10	4	16	10	
Packers and wrappers, except produce	589	525	59	6	546	230	218	98	51	230	266	
Sewers and stitchers	291	260	31	15	266	120	107	39	66	139	77	
Textile operatives	7	7	—	—	7	—	—	—	20	15	18	
Other specified operatives	2 396	1 946	438	—	2 250	1 164	789	297	227	530	524	
Miscellaneous and not specified operatives	2 253	1 859	390	43	2 176	1 063	804	309	149	583	408	
Manufacturing	2 055	1 680	371	24	1 983	995	739	249	138	523	367	
Durable goods	1 688	1 345	339	24	1 642	853	613	176	98	360	228	
Machinery, including electrical	188	153	35	—	170	87	70	13	5	10	25	
Other durable goods	1 500	1 192	304	24	1 472	766	543	163	93	350	203	
Nondurable goods, including not specified manufacturing	367	335	32	—	341	142	126	73	40	163	139	
Food and kindred products	28	21	7	—	28	18	5	5	5	23	29	
Apparel and other fabricated textile products	97	97	—	—	92	38	40	14	5	38	21	
Nonmanufacturing industries	198	179	19	19	193	68	65	60	11	60	41	
Transport equipment operatives	647	604	39	—	626	90	410	126	5	70	130	
Laborers, except farm	646	483	163	—	611	238	231	142	75	171	153	
Farmers and farm managers	70	66	4	—	70	61	9	—	5	15	24	
Farm laborers and farm foremen	115	99	16	—	91	48	22	21	13	65	143	
Paid farm laborers and farm foremen	69	53	16	—	45	8	16	21	8	59	129	
Unpaid family workers	46	46	—	—	46	40	6	—	5	6	14	
Service workers, except private household ¹	13 092	10 487	2 542	134	12 011	4 644	4 143	3 224	1 251	4 459	4 427	
Cleaning service workers	1 648	1 169	479	30	1 547	668	576	303	98	359	379	
Chambermaids and maids	221	110	111	—	195	69	29	29	24	76	88	
Food service workers	4 795	4 148	614	60	4 334	1 183	1 590	1 561	668	2 397	2 256	
Cooks, except private household	1 170	964	206	35	1 074	321	471	282	92	376	352	
Waiters and food counter workers	2 769	2 515	230	6	2 488	603	826	1 059	510	1 692	1 588	
Health service workers	3 069	2 731	962	31	3 526	1 662	1 025	839	287	882	805	
Nursing aides, orderlies, and attendants	2 700	1 337	717	31	1 943	895	492	556	149	515	463	
Practical nurses	987	869	113	—	940	507	283	150	91	189	167	
Personal service workers	1 784	1 638	143	7	1 676	685	666	325	110	558	520	
Hairdressers and cosmetologists	979	934	42	—	940	452	381	107	69	366	218	
Private household workers	1 571	1 083	483	4	1 390	410	429	551	207	687	584	
Private household workers, living in	136	132	4	—	136	96	21	19	—	5	—	
Private household workers, living out	1 435	951	479	4	1 254	314	408	532	207	682	584	
Unemployed persons, last worked 1959 or earlier ²	135	100	35	—	—	—	—	—	—	—	—	

¹Includes protective service workers and allocated cases not shown separately.

²See text for explanation.

Table 172. Occupation of the Experienced Civilian Labor Force by Race and Sex, and Weeks Worked in 1969 and Experienced Workers Not in 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

	Total experienced civilian labor force	White	Negro	Persons of Spanish language	Weeks worked in 1969 of the experienced civilian labor force				Year last worked of experienced workers not in labor force		
					Total	50 to 52 weeks	27 to 49 weeks	1 to 26 weeks	1960-63	1964-68	1969-70
Male, 16 years old and over	134 289	129 486	4 357	1 641	133 040	95 109	28 038	9 893	2 733	5 828	11 793
Professional, technical, and kindred workers	15 695	15 403	240	94	15 627	11 504	3 376	747	147	362	599
Accountants	1 496	1 484	12	10	1 475	1 246	121	108	14	38	39
Architects	118	118	—	6	118	109	9	—	—	6	—
Computer specialists	202	188	14	—	202	174	21	7	—	—	—
Engineers	2 540	2 520	10	8	2 540	2 337	168	35	9	94	55
Aeronautical and astronautical	45	45	—	—	45	45	—	—	—	—	—
Civil	237	237	—	—	237	206	26	5	—	14	7
Electrical and electronic	400	400	—	—	400	374	21	5	—	25	17
Mechanical	427	422	5	—	427	393	34	—	4	15	—
Other engineers	1 431	1 416	5	8	1 431	1 319	87	25	5	40	31
Lawyers and judges	444	444	—	—	437	343	85	9	5	19	—
Life and physical scientists	274	274	—	—	269	236	11	22	—	15	3
Chemists	213	213	—	—	208	181	5	22	—	10	—
Physicians, dentists, and related practitioners	1 380	1 372	—	6	1 374	1 004	331	39	43	44	12
Dentists	266	266	—	—	266	131	126	9	5	15	9
Pharmacists	308	308	—	—	308	269	29	10	17	5	3
Physicians, medical and osteopathic	653	645	—	—	653	476	157	20	21	14	—
Other related practitioners	153	153	—	6	147	128	19	—	—	10	—
Health technologists and technicians	199	193	—	—	199	137	49	13	—	6	—
Religious workers	833	822	11	—	833	664	120	49	13	11	57
Social scientists	186	175	5	—	186	125	61	—	—	—	9
Social and recreation workers	282	251	31	—	282	214	59	9	—	6	58
Teachers	3 194	3 123	66	7	3 183	1 465	1 523	195	11	53	103
College and university	625	615	10	—	619	320	279	20	6	9	30
Elementary and prekindergarten	600	580	20	—	600	293	262	45	5	24	24
Secondary	1 854	1 813	36	7	1 849	770	959	120	—	10	37
Engineering and science technicians	1 622	1 597	25	28	1 618	1 327	226	65	16	14	79
Draftsmen and surveyors	1 033	1 024	9	16	1 029	844	159	26	6	10	42
Electrical and electronic engineering technicians	138	135	3	—	138	123	15	—	—	—	5
Technicians, except health, and engineering and science	134	128	—	—	134	117	17	—	—	5	6
Airplane pilots	48	48	—	—	48	34	14	—	—	—	—
Writers, artists, and entertainers	1 260	1 225	24	20	1 250	874	276	100	22	19	81
Other professional, technical, and kindred workers	1 531	1 489	42	9	1 527	1 132	299	96	14	32	97
Managers and administrators, except farm	13 454	13 321	115	21	13 424	11 833	1 362	229	267	488	424
Buyers, purchasing agents, and sales managers	2 100	2 068	28	6	2 096	1 899	166	31	28	23	45
School administrators	396	385	11	—	396	207	173	16	—	6	—
Specified managers and administrators, public administration	615	594	21	7	615	576	39	—	22	32	26
Other specified managers and administrators	1 979	1 958	17	—	1 970	1 693	226	51	85	83	79
Managers and administrators, n.e.c., salaried	6 668	6 650	14	8	6 656	6 060	512	84	97	206	181
Manufacturing	2 288	2 280	4	—	2 288	2 155	218	18	23	70	65
Wholesale and retail trade	2 162	2 157	5	—	2 158	1 959	175	24	25	51	40
Transportation, communications, and other public utilities	561	561	—	—	561	520	41	—	18	47	14
All other industries	1 657	1 652	5	8	1 649	1 426	181	42	18	47	62
Managers and administrators, n.e.c., self-employed	1 696	1 666	24	—	1 691	1 398	246	47	35	138	93
Construction	451	451	—	—	446	321	109	16	5	25	14
Manufacturing	182	182	—	—	182	153	24	5	—	14	17
Wholesale and retail trade	706	688	18	—	706	607	85	14	18	63	45
All other industries	357	345	6	—	357	317	28	12	12	36	17
Sales workers	11 112	11 012	79	48	11 071	8 707	1 745	619	166	337	767
Insurance agents, brokers, and underwriters	1 386	1 380	6	12	1 383	1 148	217	18	17	35	28
Real estate agents and brokers	591	591	—	—	586	446	111	29	5	14	35
Sales representatives, manufacturing industries	1 483	1 483	—	—	1 483	1 273	194	16	10	25	70
Sales representatives, wholesale trade	2 512	2 491	21	20	2 512	2 161	313	38	15	61	61
Sales clerks, retail trade	2 270	2 240	25	9	2 262	1 458	474	330	69	87	326
Salesmen, retail trade	1 342	1 331	5	—	1 342	1 116	182	44	36	32	56
Salesmen of services and construction	510	491	9	—	510	407	80	23	6	18	41
Other sales workers	1 018	1 005	13	7	993	698	174	121	8	62	150
Clerical and kindred workers	9 086	8 888	186	83	9 036	6 962	1 401	673	216	367	633
Bank tellers and cashiers	307	301	6	—	307	167	115	25	11	35	62
Bookkeepers and billing clerks	840	838	2	—	830	679	104	47	20	55	58
Mail handlers and postal clerks	1 155	1 132	23	8	1 148	964	124	60	19	32	82
Other clerical and kindred workers	6 784	6 617	155	75	6 751	5 152	1 058	541	166	245	431
Craftsmen and kindred workers	30 903	30 121	659	222	30 782	22 793	6 605	1 384	754	1 383	1 818
Apparel craftsmen and upholsterers	518	502	16	—	514	344	121	49	25	34	27
Bakers	329	293	33	12	323	205	76	42	4	10	33
Cabinetmakers	369	359	10	—	369	289	57	23	4	79	23
Construction craftsmen	7 408	7 252	150	21	7 394	4 326	2 539	529	196	292	576
Carpenters	2 228	2 203	25	8	2 218	1 236	803	179	77	100	210
Excavating, grading, and road machine operators	659	644	15	—	659	353	283	23	—	11	21
Electricians	1 214	1 206	8	—	1 214	901	271	42	22	33	33
Masons and tile setters	605	587	18	—	601	307	248	46	—	4	48
Painters, construction and maintenance, and paperhangers	970	943	27	5	970	447	358	165	62	71	154
Plasterers and cement finishers	403	358	45	—	403	162	225	16	7	31	19
Plumbers and pipe fitters	1 014	1 007	7	8	1 014	784	193	37	19	23	55
Other construction craftsmen	315	304	5	—	315	136	158	21	9	19	36
Foremen, n.e.c.	4 665	4 568	97	33	4 665	4 102	508	55	126	234	170
Manufacturing	3 202	3 137	65	27	3 202	2 890	291	21	80	159	118
Nonmanufacturing industries	1 463	1 431	32	6	1 463	1 212	217	34	46	75	52
Linemen and servicemen, telephone and power	813	795	18	7	803	680	100	23	13	17	21
Locomotive engineers and firemen	149	139	10	—	149	105	44	—	10	30	—
Mechanics and repairmen	6 389	6 245	79	63	6 350	4 846	1 170	334	98	243	275
Air conditioning, heating, and refrigeration	414	414	—	—	414	315	85	14	11	23	30
Aircraft	57	57	—	—	57	37	20	—	—	—	11
Automobile, including body	2 464	2 399	38	20	2 450	1 782	478	190	30	74	79
Radio and television	269	265	—	7	264	205	47	12	6	12	14
Other mechanics and repairmen	3 185	3 110	41	36	3 165	2 507	540	118	51	134	141
Metal craftsmen, except mechanics	5 397	5 290	102	59	5 385	4 205	1 035	145	84	201	204
Machinists and job and die setters	1 539	1 515	19	5	1 539	1 234	273	32	32	49	36
Sheetmetal workers and tinsmiths	427	427	—	6	427	341	81	5	5	10	38
Tool and die makers	2 550	2 535	15	15	2 544	1 983	500	61	38	109	83
Other metal craftsmen	881	813	68	33	875	647	181	47	9	33	47
Printing craftsmen	1 140	1 129	5	—	1 132	946	167	19	23	15	70
Compositors and typesetters	435	435	—	7	427	350	58	19	15	9	22
Pressmen and plate printers, printing	582	571	5	—	582	482	100	—	2	—	12
Stationary engineers and power station operators	390	384	6	—	390	331	59	—	5	21	12
Other craftsmen and kindred workers	3 336	3 165	133	20	3 308	2 414	729	165	124	207	407

Table 172. Occupation of the Experienced Civilian Labor Force by Race and Sex, and Weeks Worked in 1969 and Experienced Workers Not in 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

Male, 16 years old and over—Continued

	Total experienced civilian labor force	White	Negro	Persons of Spanish language	Weeks worked in 1969 of the experienced civilian labor force				Year last worked of experienced workers not in labor force		
					Total	50 to 52 weeks	27 to 49 weeks	1 to 26 weeks	1960-63	1964-68	1969-70
Operatives, except transport	25 180	23 549	1 513	692	24 896	16 613	6 415	1 868	535	1 239	2 178
Assemblers.....	2 932	2 734	188	99	2 913	1 934	756	223	75	147	274
Checkers, examiners, and inspectors; manufacturing.....	1 597	1 547	44	26	1 597	1 179	348	70	38	111	66
Garage workers and gas station attendants.....	1 195	1 182	13	7	1 136	364	490	282	11	57	211
Laundry and drycleaning operatives, n.e.c.....	148	124	24	—	148	95	27	26	11	12	27
Meat cutters and butchers.....	680	673	7	11	680	534	118	28	6	40	36
Mine operatives, n.e.c.....	22	22	—	—	22	11	11	—	—	—	—
Packers and wrappers, except produce.....	955	906	49	57	930	515	255	160	22	34	147
Painters, manufactured articles.....	640	600	28	22	635	393	206	36	5	48	66
Precision machine operatives.....	1 978	1 873	101	29	1 966	1 505	382	79	47	61	67
Sawyers.....	508	496	12	13	508	361	106	41	5	49	83
Stationary firemen.....	192	184	8	—	186	145	32	9	12	32	19
Textile operatives.....	142	125	17	6	142	86	40	16	5	7	19
Welders and flamecutters.....	2 198	2 106	82	53	2 187	1 547	518	122	31	56	70
Other metalworking operatives.....	3 181	2 905	263	63	3 140	1 974	980	186	64	210	204
Other specified operatives.....	3 064	2 776	269	57	3 016	2 069	714	233	88	120	374
Miscellaneous and not specified operatives.....	5 748	5 296	408	249	5 690	3 901	1 432	357	115	255	515
Occupation:											
Machine operatives, miscellaneous specified.....	2 689	2 456	204	147	2 659	1 948	558	153	42	140	200
Machine operatives, not specified.....	1 113	1 035	73	47	1 105	767	274	64	14	33	76
Miscellaneous operatives.....	1 131	1 050	76	22	1 125	673	358	94	31	44	153
Not specified operatives.....	815	755	55	33	801	513	242	46	28	38	86
Industry:											
Manufacturing	5 133	4 723	366	226	5 081	3 567	1 223	291	109	227	436
Durable goods	3 823	3 509	282	173	3 779	2 694	917	168	90	169	276
Wood products, including furniture.....	928	863	50	9	915	672	191	52	49	67	57
Primary metal industries.....	513	438	63	64	510	377	116	17	—	19	32
Fabricated metal industries.....	745	651	89	31	722	494	201	27	18	15	65
Machinery, including electrical.....	787	764	23	37	782	507	235	40	18	39	41
Motor vehicles and equipment.....	349	307	42	14	349	254	85	10	—	19	21
Transportation equipment, except motor vehicles.....	122	122	—	—	122	109	13	—	—	—	—
Other durable goods.....	379	364	15	18	379	281	76	22	5	10	60
Non-durable goods	1 273	1 177	84	53	1 265	854	295	116	19	53	154
Food and kindred products.....	324	312	—	46	320	201	69	50	—	23	69
Apparel and other fabricated textile products.....	31	25	6	—	31	31	—	—	—	—	—
Paper and allied products.....	233	216	17	—	233	187	46	—	5	14	29
Chemicals and allied products.....	228	223	5	7	224	174	46	4	—	5	11
Other non-durable goods.....	457	401	56	—	457	261	134	62	14	11	45
Not specified manufacturing industries.....	37	37	—	—	37	19	11	7	—	5	6
Nonmanufacturing industries	615	573	42	23	609	334	209	66	6	28	79
Transportation, communications, and other public utilities.....	92	92	—	7	92	62	23	7	—	—	9
Wholesale and retail trade.....	341	327	14	16	335	164	127	44	6	11	32
All other industries.....	182	154	28	—	182	108	59	15	—	17	38
Transport equipment operatives	7 669	7 422	220	49	7 617	5 394	1 853	370	120	330	444
Bus drivers.....	258	246	12	—	258	142	100	16	5	20	29
Taxicab drivers and chauffeurs.....	127	108	19	—	127	88	35	4	—	14	10
Truck drivers and deliverymen.....	5 586	5 477	98	17	5 555	4 007	1 326	222	93	209	278
Other transport equipment operatives.....	1 698	1 591	91	32	1 677	1 157	392	128	22	87	127
Laborers, except farm	8 196	7 652	515	184	7 971	3 933	2 354	1 684	181	386	2 092
Construction laborers.....	1 061	950	105	40	1 037	399	414	224	25	86	347
Freight, stock, and material handlers.....	4 315	4 116	196	87	4 236	2 202	1 211	823	55	102	699
Other specified laborers.....	1 735	1 629	91	25	1 669	782	449	438	67	144	857
Miscellaneous and not specified laborers.....	1 085	957	123	32	1 029	550	280	199	34	54	189
Occupation:											
Miscellaneous laborers.....	488	410	78	20	454	281	107	66	22	13	48
Not specified laborers.....	597	547	45	12	575	269	173	133	12	41	141
Industry:											
Manufacturing	548	457	86	32	528	291	175	62	13	16	108
Durable goods	462	376	81	32	449	256	141	52	13	16	78
Wood products, including furniture.....	52	47	5	—	52	24	19	9	—	8	15
Metal industries.....	223	164	59	15	210	139	48	23	6	—	29
Machinery, including electrical.....	87	77	5	17	87	33	44	10	7	8	10
Transportation equipment.....	61	54	7	—	61	41	15	5	—	—	7
Other durable goods.....	39	34	5	—	39	19	15	5	—	—	17
Non-durable goods	86	81	5	—	79	35	34	10	—	—	25
Food and kindred products.....	42	37	5	—	42	10	27	5	—	—	25
Not specified manufacturing industries.....	—	—	—	—	—	—	—	—	—	—	5
Nonmanufacturing industries	537	500	37	—	501	259	105	137	21	38	81
Railroads and railway express service.....	74	63	11	—	74	63	5	6	8	9	—
Transportation, except railroads.....	14	10	4	—	14	9	5	—	—	—	—
Communications, and utilities and sanitary services.....	99	96	3	—	99	63	18	18	4	—	18
Wholesale and retail trade.....	212	198	14	—	185	74	52	59	—	20	34
All other industries.....	138	133	5	—	129	50	25	54	9	9	29
Farmers and farm managers	1 693	1 693	—	—	1 674	1 484	129	61	83	202	347
Farm laborers and farm foremen	1 263	1 188	3	74	1 168	500	297	371	12	122	673
Paid farm laborers and farm foremen.....	1 078	1 063	3	74	1 053	425	275	353	12	112	614
Unpaid family workers.....	125	125	—	—	115	75	22	18	—	10	59
Service workers, except private household¹	10 002	9 151	817	174	9 743	5 375	2 486	1 882	247	601	1 809
Cleaning service workers.....	4 197	3 744	447	109	4 101	2 394	975	732	152	322	762
Food service workers.....	2 425	2 273	135	37	2 312	663	813	836	5	119	641
Cooks, except private household.....	798	778	15	30	768	261	245	262	—	27	156
Busboys and dishwashers.....	811	737	62	7	760	117	267	376	—	24	336
Health service workers.....	443	386	51	—	431	253	109	69	5	8	22
Personal service workers.....	805	741	59	—	782	504	184	94	12	34	145
Protective service workers.....	1 596	1 555	41	6	1 591	1 276	230	85	30	66	93
Firemen, fire protection.....	254	254	—	—	254	238	12	4	3	5	5
Guards and watchmen.....	615	594	21	6	610	381	157	72	10	47	73
Policemen and detectives.....	650	637	13	—	650	591	50	9	17	9	15
Private household workers	31	31	—	—	31	11	15	5	5	11	9
Unemployed persons, last worked 1959 or earlier²	65	55	10	—	—	—	—	—	—	—	—

¹Includes allocated cases not shown separately. ²See text for explanation.

Table 172. Occupation of the Experienced Civilian Labor Force by Race and Sex, and Weeks Worked in 1969 and Experienced Workers Not in 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

	Total experienced civilian labor force	White	Negro	Persons of Spanish language	Weeks worked in 1969 of the experienced civilian labor force				Year last worked of experienced workers not in labor force			
					Total	50 to 52 weeks	27 to 49 weeks	1 to 26 weeks	1960-63	1964-68	1969-70	
GRAND RAPIDS SMSA—Continued												
Female, 16 years old and over	81 337	77 484	3 494	959	78 384	36 162	26 506	15 716	7 051	17 990	21 333	
Professional, technical, and kindred workers	11 124	10 829	260	13	10 888	3 934	4 975	1 979	992	1 970	2 331	
Accountants	416	416	—	—	401	260	64	77	41	88	66	
Computer specialists	37	37	—	—	37	18	6	13	—	4	11	
Librarians	252	247	—	—	252	119	102	31	8	33	37	
Mathematical specialists	21	21	—	—	21	16	5	—	—	—	6	
Life and physical scientists	50	50	—	—	50	37	11	2	5	12	—	
Registered nurses, dietitians, and therapists	2 283	2 250	33	—	2 259	1 191	634	434	289	388	368	
Dietitians	67	63	4	—	67	30	22	15	18	6	—	
Registered nurses	2 097	2 068	29	—	2 073	1 109	569	395	266	365	335	
Health technologists and technicians	412	402	10	—	407	253	117	37	31	56	60	
Social scientists	21	21	—	—	21	5	13	3	—	5	5	
Social and recreation workers	375	344	31	—	365	250	84	31	27	53	146	
Teachers: College and university	288	266	19	—	288	54	166	68	21	32	46	
Elementary and prekindergarten	3 604	3 500	92	7	3 544	630	2 258	656	335	817	785	
Secondary	1 271	1 228	33	6	1 234	227	731	276	51	202	272	
Other teachers	414	408	6	—	405	136	207	62	26	33	98	
Engineering and science technicians	216	216	—	—	199	81	83	35	18	12	25	
Technicians, except health, and engineering and science	16	16	—	—	16	10	—	—	—	6	5	
Writers, artists, and entertainers	508	508	—	—	493	188	156	149	33	50	198	
Actors and dancers	5	5	—	—	5	—	5	—	—	—	—	
Authors, editors, and reporters	108	108	—	—	108	58	29	21	17	10	38	
Other professional, technical, and kindred workers	940	899	36	—	896	459	338	99	107	179	203	
Managers and administrators, except farm	2 072	1 997	66	10	2 013	1 395	506	112	125	270	295	
Buyers, purchasing agents, and sales managers	395	389	6	—	395	279	90	26	35	38	58	
Restaurant, cafeteria, and bar managers	186	176	5	—	175	42	110	23	5	33	34	
School administrators	133	128	5	—	129	65	64	—	—	39	19	
Other specified managers and administrators	366	343	23	10	347	290	42	15	37	53	100	
Managers and administrators, n.e.c., salaried	739	713	22	—	723	536	154	33	35	79	60	
Wholesale and retail trade	183	183	—	—	177	109	53	15	12	33	18	
Managers and administrators, n.e.c., self-employed	253	248	5	—	244	183	46	15	13	28	24	
Wholesale and retail trade	149	149	—	—	140	110	20	10	4	15	5	
Sales workers	6 849	6 733	93	64	6 594	2 619	2 317	1 658	625	1 792	2 342	
Demonstrators, hucksters, and peddlers	408	402	6	—	362	112	137	113	10	120	186	
Insurance, real estate agents, and brokers	359	353	6	—	335	200	79	56	16	29	35	
Sales clerks, retail trade	5 049	4 974	59	35	4 903	1 862	1 748	1 293	501	1 396	1 594	
Salesmen, retail trade	172	172	—	—	172	87	63	22	23	41	89	
Other sales workers	861	832	22	29	822	358	290	174	75	206	438	
Clerical and kindred workers	26 035	25 334	655	149	25 335	14 507	6 761	4 067	2 680	6 005	5 893	
Bank tellers	624	614	10	16	614	418	103	93	105	229	120	
Bookkeepers	2 960	2 948	12	—	2 927	2 071	543	313	285	545	553	
Cashiers	2 211	2 149	62	29	2 113	864	715	534	145	564	706	
Counter clerks, except food	478	472	6	—	456	204	154	98	20	78	116	
Enumerators and interviewers	102	91	11	7	102	11	48	43	34	86	78	
File clerks	686	650	36	—	638	251	216	171	109	158	202	
Office machine operators	960	939	21	7	955	588	253	114	164	247	138	
Bookkeeping and billing machine operators	148	148	—	—	148	92	35	21	30	57	23	
Keypunch operators	580	564	16	—	575	384	128	63	68	145	71	
Payroll and timekeeping clerks	333	318	9	7	325	250	46	29	38	95	38	
Receptionists	934	908	15	9	907	501	265	141	77	272	233	
Secretaries	7 381	7 313	58	33	7 278	4 567	1 879	832	813	1 621	1 296	
Stenographers	250	245	5	—	245	158	57	30	24	60	38	
Telephone operators	1 009	959	46	—	1 003	550	273	180	137	208	200	
Typists	2 257	2 170	80	10	2 182	1 186	550	446	282	680	608	
Other clerical and kindred workers	5 850	5 558	284	31	5 590	2 888	1 659	1 043	447	1 160	1 567	
Craftsmen and kindred workers	1 695	1 608	68	33	1 659	930	551	178	124	326	403	
Foremen, n.e.c.	243	229	14	—	243	212	27	4	15	52	22	
Operatives, except transport	15 080	13 922	1 033	427	14 583	6 562	5 455	2 566	1 188	3 634	3 739	
Assemblers	3 111	2 962	135	64	3 033	1 303	1 070	525	241	694	594	
Bottling and canning operatives	39	39	—	5	39	14	14	11	5	13	18	
Checkers, examiners, and inspectors; manufacturing	1 388	1 311	63	43	1 345	610	570	165	104	310	260	
Dressmakers and seamstresses, except factory	232	221	11	9	228	54	144	30	18	83	88	
Laundry and drycleaning operatives, including ironers	701	505	196	13	676	371	175	130	72	133	213	
Graders and sorters, manufacturing	44	44	—	5	44	21	14	9	5	49	21	
Packers and wrappers, except produce	1 493	1 426	49	65	1 424	584	452	388	190	433	571	
Sewers and stitchers	1 423	1 271	140	21	1 397	597	608	192	87	349	245	
Textile operatives	154	154	—	—	149	86	53	10	5	36	55	
Other specified operatives	4 044	3 670	324	112	3 836	1 770	1 415	651	298	1 054	1 149	
Miscellaneous and not specified operatives	2 451	2 319	115	90	2 412	1 152	805	455	163	480	525	
Manufacturing	2 142	2 027	98	79	2 113	1 015	692	406	148	429	468	
Durable goods	1 200	1 126	68	40	1 191	561	418	212	108	192	202	
Machinery, including electrical	310	284	20	—	306	110	119	77	21	57	59	
Other durable goods	890	842	48	40	885	451	299	135	79	135	143	
Nondurable goods, including not specified manufacturing	942	901	30	39	922	454	274	194	48	237	266	
Food and kindred products	196	190	6	25	184	110	48	26	—	47	41	
Apparel and other fabricated textile products	66	55	6	—	66	31	18	17	—	18	14	
Nonmanufacturing industries	309	292	17	11	299	137	113	49	15	53	57	
Transport equipment operatives	610	593	17	—	590	112	313	165	20	62	87	
Laborers, except farm	1 205	1 147	55	27	1 160	475	360	325	56	352	534	
Farmers and farm managers	87	82	5	—	82	45	8	29	—	13	50	
Farm laborers and farm foremen	331	313	10	64	297	35	79	183	43	105	494	
Paid farm laborers and farm foremen	272	254	10	64	244	20	56	168	43	86	415	
Unpaid family workers	59	59	—	—	53	15	23	15	—	19	79	
Service workers, except private household¹	14 408	13 317	1 019	152	13 606	5 119	4 659	3 828	1 033	3 054	4 563	
Cleaning service workers	1 823	1 459	354	20	1 715	799	511	405	163	745	414	
Chambermaids and maids	430	294	131	—	390	148	140	102	50	123	120	
Food service workers	6 210	5 917	259	70	5 833	1 642	2 185	2 006	427	1 398	2 215	
Cooks, except private household	1 223	1 125	94	26	1 135	359	503	273	70	258	233	
Waiters and food counter workers	3 632	3 535	72	21	3 422	885	1 226	1 311	264	871	1 678	
Health service workers	3 502	3 261	219	26	3 388	1 529	1 003	856	211	749	977	
Nursing aides, orderlies, and attendants	1 881	1 706	157	13	1 833	695	576	562	86	369	633	
Practical nurses	1 054	1 005	49	13	1 016	534	278	204	81	225	204	
Personal service workers	1 783	1 687	90	30	1 714	799	599	316	165	373	484	
Hairdressers and cosmetologists	1 163	1 130	33	8	1 139	610	409	120	123	243	176	
Private household workers	1 737	1 509	209	20	1 577	429	522	626	165	405	624	
Private household workers, living in	82	74	3	—	82	44	27	11	—	—	8	
Private household workers, living out	1 655	1 435	206	20	1 495	385	495	615	165	405	616	
Unemployed persons, last worked 1959 or earlier ²												

Table 172. Occupation of the Experienced Civilian Labor Force by Race and Sex, and Weeks Worked in 1969 and Experienced Workers Not in 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

	Total experienced civilian labor force	White	Negro	Persons of Spanish language	Weeks worked in 1969 of the experienced civilian labor force				Year last worked of experienced workers not in labor force		
					Total	50 to 52 weeks	27 to 49 weeks	1 to 26 weeks	1960-63	1964-68	1969-70
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
Professional, technical, and kindred workers	16 174	15 583	334	157	16 068	10 816	3 794	1 458	124	415	1 683
Accountants	1 021	1 008	13	17	1 012	867	88	57	20	18	52
Architects	123	118	—	—	123	112	11	—	—	—	5
Computer specialists	586	586	—	—	581	401	108	72	—	5	50
Engineers	2 111	2 064	28	16	2 105	1 849	204	52	20	56	133
Aeronautical and astronautical	—	—	—	—	—	—	—	—	—	—	—
Civil	616	589	13	—	616	568	41	7	10	25	27
Electrical and electronic	196	196	—	—	196	156	29	11	4	15	20
Mechanical	383	378	—	—	383	333	38	12	—	16	35
Other engineers	916	901	15	8	910	792	96	22	6	—	51
Lawyers and judges	391	391	—	7	391	355	22	14	9	—	14
Life and physical scientists	418	382	10	—	403	342	40	21	—	26	60
Chemists	113	99	5	—	107	92	9	6	—	8	19
Physicians, dentists, and related practitioners	770	748	17	8	765	444	284	37	14	33	25
Dentists	177	177	—	—	177	49	128	—	—	15	7
Pharmacists	138	132	6	—	138	119	14	5	5	13	5
Physicians, medical and osteopathic	349	338	11	8	349	205	118	26	9	5	13
Other related practitioners	106	101	—	—	101	71	24	6	—	—	—
Health technologists and technicians	225	211	8	13	225	144	42	39	5	8	32
Religious workers	440	430	10	—	440	399	31	10	9	—	48
Social scientists	216	200	5	—	216	155	38	23	—	29	15
Social and recreation workers	316	283	33	11	312	194	63	55	—	27	128
Teachers	4 434	4 234	76	47	4 396	2 090	1 825	481	19	101	472
College and university	2 950	2 787	47	35	2 920	1 564	1 062	294	15	53	299
Elementary and prekindergarten	331	322	5	6	327	84	189	54	—	4	32
Secondary	1 086	1 058	24	6	1 082	403	560	119	4	39	121
Engineering and science technicians	1 471	1 438	15	10	1 466	1 033	238	195	—	23	240
Draftsmen and surveyors	906	906	—	10	906	683	130	93	—	14	151
Electrical and electronic engineering technicians	162	154	5	—	157	119	38	—	—	—	5
Technicians, except health, and engineering and science	175	170	—	6	175	156	11	8	—	6	5
Airplane pilots	37	37	—	—	37	37	—	—	—	—	—
Writers, artists, and entertainers	1 036	1 021	15	10	1 027	679	192	156	5	33	190
Other professional, technical, and kindred workers	2 441	2 299	104	12	2 431	1 596	597	238	25	45	214
Managers and administrators, except farm	8 959	8 784	162	69	8 935	7 678	1 018	239	99	336	553
Buyers, purchasing agents, and sales managers	1 114	1 100	14	5	1 114	976	108	30	—	41	43
School administrators	459	441	18	7	459	341	97	21	8	28	15
Specified managers and administrators, public administration	877	840	37	12	877	785	62	30	16	30	58
Other specified managers and administrators	1 602	1 569	33	7	1 602	1 320	223	59	29	56	153
Managers and administrators, n.e.c., salaried	3 907	3 852	42	32	3 883	3 379	416	88	27	88	197
Manufacturing	618	618	—	—	612	573	27	12	27	4	32
Wholesale and retail trade	1 426	1 422	4	32	1 422	1 221	159	42	—	35	69
Transportation, communications, and other public utilities	243	243	—	—	243	224	19	—	—	16	11
All other industries	1 620	1 569	38	—	1 606	1 361	211	34	—	33	85
Managers and administrators, n.e.c., self-employed	1 000	982	18	6	1 000	877	112	11	19	93	87
Construction	220	220	—	—	220	168	46	6	10	4	10
Manufacturing	53	53	—	—	53	47	6	—	—	5	9
Wholesale and retail trade	529	519	10	6	529	477	47	5	—	73	43
All other industries	198	190	8	—	198	185	13	—	9	11	25
Sales workers	6 241	6 137	80	37	6 228	4 337	1 252	639	55	213	924
Insurance agents, brokers, and underwriters	859	847	7	8	859	677	157	25	15	16	26
Real estate agents and brokers	462	458	4	—	462	329	124	9	8	9	5
Sales representatives, manufacturing industries	557	557	—	—	557	476	65	16	6	19	40
Sales representatives, wholesale trade	915	905	—	5	915	764	114	37	4	28	69
Sales clerks, retail trade	1 771	1 740	26	12	1 766	971	469	326	10	83	543
Salesmen, retail trade	747	743	—	6	747	558	129	60	7	20	44
Salesmen of services and construction	245	245	—	—	245	171	56	18	5	10	62
Other sales workers	685	642	43	6	677	391	138	148	—	28	135
Clerical and kindred workers	6 680	6 417	251	64	6 602	4 480	1 358	764	108	348	1 314
Bank tellers and cashiers	338	314	24	13	333	123	137	73	10	31	85
Bookkeepers and billing clerks	590	579	6	14	572	420	91	61	15	17	93
Mail handlers and postal clerks	715	680	28	—	715	576	84	55	8	25	220
Other clerical and kindred workers	5 037	4 844	193	37	4 982	3 361	1 046	575	75	275	916
Craftsmen and kindred workers	19 788	19 323	436	294	19 720	14 168	4 705	847	383	897	1 951
Apparel craftsmen and upholsterers	76	76	—	—	76	49	22	5	—	13	4
Bakers	121	121	—	8	121	97	20	4	—	5	8
Cabinetmakers	38	38	—	—	38	32	—	6	—	10	5
Construction craftsmen	4 943	4 802	130	85	4 921	2 656	320	84	84	179	705
Carpenters	1 329	1 316	13	24	1 321	619	592	110	36	36	224
Excavating, grading, and road machine operators	461	461	—	20	456	215	212	29	6	4	44
Electricians	1 003	974	29	7	1 003	777	194	32	7	20	51
Masons and tile setters	427	396	25	—	427	160	246	21	6	24	67
Painters, construction and maintenance, and paperhangers	492	487	5	6	492	187	219	86	8	63	198
Plasterers and cement finishers	203	158	45	14	203	79	119	5	16	19	45
Plumbers and pipe fitters	809	791	13	14	800	535	251	14	5	13	50
Other construction craftsmen	219	219	—	—	219	84	112	23	—	—	26
Foremen, n.e.c.	2 666	2 629	23	14	2 661	2 287	321	53	80	95	165
Manufacturing	1 627	1 612	11	14	1 622	1 450	161	11	50	70	108
Nonmanufacturing industries	1 039	1 017	12	—	1 039	837	160	42	30	25	57
Linemen and servicemen, telephone and power	586	583	3	12	586	448	103	35	—	—	—
Locomotive engineers and firemen	28	28	—	—	28	28	—	—	8	—	—
Mechanics and repairmen	4 957	4 853	100	85	4 947	3 691	1 034	222	78	176	274
Air conditioning, heating, and refrigeration	242	233	9	—	242	172	49	21	4	—	12
Aircraft	58	58	—	—	58	45	13	—	—	—	8
Automobile, including body	2 420	2 354	62	58	2 410	1 776	546	88	22	83	115
Radio and television	224	224	—	10	224	167	48	9	—	5	26
Other mechanics and repairmen	2 013	1 984	29	17	2 013	1 531	378	104	52	88	113
Metal craftsmen, except mechanics	3 211	3 155	56	34	3 206	2 556	582	68	82	226	207
Machinists and job and die setters	858	840	18	20	853	693	141	19	40	69	49
Sheetmetal workers and tinsmiths	353	348	5	—	353	259	84	10	—	14	28
Tool and die makers	1 214	1 208	6	—	1 214	969	220	25	34	95	76
Other metal craftsmen	786	759	27	14	786	635	137	14	8	48	54
Printing craftsmen	482	482	—	8	482	412	55	15	5	16	13
Compositors and typesetters	208	204	—	—	208	176	32	—	5	10	13
Pressmen and plate printers, printing	204	204	—	—	204	170	19	15	—	6	—
Stationary engineers and power station operators	247	247	—	—	247	214	33	—	—	—	14
Other craftsmen and kindred workers	2 433	2 309	124	48	2 407	1 698	590	119	46	153	521

Table 172. Occupation of the Experienced Civilian Labor Force by Race and Sex, and Weeks Worked in 1969 and Experienced Workers Not in Labor Force by Sex: 1970—Continued

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

The State
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Areas of 250,000 or More

LANSING SMSA—Continued

Male, 16 years old and over—Continued

	Total experienced civilian labor force	White	Negro	Persons of Spanish language	Weeks worked in 1969 of the experienced civilian labor force				Year last worked of experienced workers not in labor force		
					Total	50 to 52 weeks	27 to 49 weeks	1 to 26 weeks	1960-63	1964-68	1969-70
Operatives, except transport	16 564	15 416	1 050	685	16 418	9 983	4 989	1 446	237	741	2 541
Assemblers.....	3 175	2 887	273	260	3 148	1 605	1 284	257	9	114	499
Checkers, examiners, and inspectors; manufacturing.....	1 651	1 593	53	53	1 647	1 054	559	34	45	95	160
Garage workers and gas station attendants.....	882	863	19	9	861	265	306	290	5	36	292
Laundry and drycleaning operatives, n.e.c.....	137	137	—	9	130	65	36	29	6	4	14
Meat cutters and butchers.....	303	295	—	—	300	193	77	30	—	—	51
Mine operatives, n.e.c.....	48	48	—	—	48	35	13	—	—	—	6
Packers and wrappers, except produce.....	260	256	4	7	260	105	82	73	—	10	175
Painters, manufactured articles.....	427	372	51	7	427	228	179	20	5	25	20
Precision machine operatives.....	1 290	1 259	27	25	1 290	955	276	59	33	88	152
Sawyers.....	78	69	4	—	73	38	20	15	5	23	22
Stationary firemen.....	124	112	12	—	124	115	9	—	—	5	—
Textile operatives.....	11	11	—	—	6	6	—	—	—	—	10
Welders and flamecutters.....	1 244	1 157	83	66	1 234	744	387	103	17	41	96
Other metalworking operatives.....	1 754	1 589	156	113	1 739	1 141	423	175	37	60	205
Other specified operatives.....	1 963	1 724	221	64	1 963	1 325	498	140	27	99	319
Miscellaneous and not specified operatives.....	3 217	3 044	147	72	3 168	2 109	838	221	48	141	520
Occupation:											
Machine operatives, miscellaneous specified.....	1 117	1 058	49	27	1 089	777	251	61	5	68	156
Machine operatives, not specified.....	803	747	46	6	799	573	167	59	5	26	107
Miscellaneous operatives.....	700	670	24	22	688	401	235	52	14	29	141
Not specified operatives.....	597	569	28	17	592	358	185	49	24	18	116
Industry:											
Manufacturing.....	2 767	2 609	132	64	2 723	1 863	685	175	48	125	406
Durable goods.....	2 453	2 313	114	64	2 421	1 673	608	140	48	107	293
Wood products, including furniture.....	79	79	—	5	79	40	13	26	5	5	27
Primary metal industries.....	245	243	2	—	245	153	78	14	—	13	53
Fabricated metal industries.....	138	138	—	—	134	73	58	5	—	4	41
Machinery, including electrical.....	392	381	—	—	392	284	57	51	5	—	82
Motor vehicles and equipment.....	1 371	1 244	112	52	1 350	972	348	30	33	77	58
Transportation equipment, except motor vehicles.....	6	6	—	—	6	—	—	—	5	—	—
Other durable goods.....	222	222	—	7	215	145	56	14	—	8	32
Nondurable goods.....	289	271	18	—	277	190	62	25	—	18	113
Food and kindred products.....	147	147	—	—	147	104	29	14	—	5	47
Apparel and other fabricated textile products.....	—	—	—	—	—	—	—	—	—	—	—
Paper and allied products.....	47	38	9	—	47	38	4	5	—	—	19
Chemicals and allied products.....	22	22	—	—	16	16	—	—	—	—	—
Other nondurable goods.....	73	64	9	—	67	32	29	6	—	13	47
Not specified manufacturing industries.....	25	25	—	—	25	—	15	10	—	—	—
Nonmanufacturing industries.....	450	435	15	8	445	246	153	46	—	16	114
Transportation, communications, and other public utilities.....	66	61	5	—	66	55	11	—	—	6	9
Wholesale and retail trade.....	194	194	—	8	189	99	59	31	—	5	54
All other industries.....	190	180	10	—	190	92	83	15	—	5	51
Transport equipment operatives.....	4 793	4 584	177	131	4 777	3 180	1 231	364	61	187	794
Bus drivers.....	165	154	11	—	165	84	60	21	—	—	28
Taxicab drivers and chauffeurs.....	243	226	10	13	243	141	67	35	—	11	24
Truck drivers and deliverymen.....	3 364	3 241	113	102	3 359	2 230	878	251	56	134	536
Other transport equipment operatives.....	1 021	963	43	16	1 010	725	226	59	5	42	206
Laborers, except farm.....	5 332	5 015	288	276	5 154	2 170	1 581	1 403	66	293	2 439
Construction laborers.....	1 051	933	98	127	1 021	365	439	217	17	81	393
Freight, stock, and material handlers.....	2 287	2 215	67	65	2 216	923	627	666	23	42	960
Other specified laborers.....	1 310	1 206	100	60	1 259	584	333	342	18	103	814
Miscellaneous and not specified laborers.....	684	661	23	24	658	298	182	178	8	67	272
Occupation:											
Miscellaneous laborers.....	242	239	3	18	242	132	45	65	8	22	98
Not specified laborers.....	442	422	20	6	416	166	137	113	—	45	174
Industry:											
Manufacturing.....	296	280	16	6	291	146	84	61	3	32	76
Durable goods.....	245	229	16	6	240	119	72	49	3	21	56
Wood products, including furniture.....	5	5	—	—	5	—	5	—	—	6	—
Metal industries.....	50	46	4	—	50	10	20	20	—	5	15
Machinery, including electrical.....	34	34	—	6	29	10	9	10	—	—	5
Transportation equipment.....	151	139	12	—	151	99	33	19	3	10	22
Other durable goods.....	5	5	—	—	5	—	5	—	—	—	14
Nondurable goods.....	44	44	—	—	44	24	8	12	—	11	20
Food and kindred products.....	17	17	—	—	17	13	4	—	—	11	—
Not specified manufacturing industries.....	7	7	—	—	7	3	4	—	—	—	—
Nonmanufacturing industries.....	388	381	7	18	367	152	98	117	5	35	196
Railroads and railway express service.....	37	37	—	—	37	26	11	—	—	13	20
Transportation, except railroads.....	22	22	—	—	22	13	4	5	—	—	—
Communications, and utilities and sanitary services.....	32	28	4	4	32	24	4	4	5	4	11
Wholesale and retail trade.....	123	120	3	14	123	36	36	51	—	8	52
All other industries.....	174	174	—	—	153	53	43	57	—	10	113
Farmers and farm managers.....	2 225	2 221	4	12	2 185	1 755	267	163	114	147	390
Farm laborers and farm foremen.....	842	830	12	33	804	398	201	205	64	76	506
Paid farm laborers and farm foremen.....	704	692	12	33	690	345	173	172	60	66	417
Unpaid family workers.....	138	138	—	—	114	53	28	33	4	10	89
Service workers, except private household ¹	9 050	8 610	392	171	8 845	4 532	2 351	1 962	168	552	2 478
Cleaning service workers.....	3 576	3 357	206	97	3 527	1 893	917	717	100	256	862
Food service workers.....	2 567	2 420	112	41	2 423	570	922	931	10	148	975
Cooks, except private household.....	978	922	56	11	938	273	411	254	10	52	357
Busboys and dishwashers.....	918	839	48	15	862	98	277	487	—	61	422
Health service workers.....	166	166	—	—	166	68	68	30	—	20	82
Personal service workers.....	688	675	13	7	688	391	149	148	22	45	204
Protective service workers.....	1 576	1 566	10	8	1 576	1 308	198	70	31	78	152
Firemen, fire protection.....	342	332	10	—	342	314	28	—	5	11	4
Guards and watchmen.....	492	492	—	—	492	361	85	46	10	38	87
Policemen and detectives.....	656	656	—	8	656	592	54	10	4	15	42
Private household workers.....	36	25	11	—	31	10	10	11	—	—	14
Unemployed persons, last worked 1959 or earlier ²	11	11	—	—	—	—	—	—	—	—	—

¹Includes allocated cases not shown separately. ²See text for explanation.

Table 172. Occupation of the Experienced Civilian Labor Force by Race and Sex, and Weeks Worked in 1969 and Experienced Workers Not in 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

	Total experienced civilian labor force	White	Negro	Persons of Spanish language	Weeks worked in 1969 of the experienced civilian labor force				Year last worked of experienced workers not in labor force		
					Total	50 to 52 weeks	27 to 49 weeks	1 to 26 weeks	1960-63	1964-68	1969-70
Female, 16 years old and over	60 409	57 446	2 569	934	58 102	26 079	19 737	12 286	4 572	13 337	20 036
Professional, technical, and kindred workers	10 204	9 817	264	78	9 978	3 545	4 716	1 717	619	1 774	2 428
Accountants	407	407	—	—	404	309	37	58	21	56	60
Computer specialists	138	129	4	—	138	90	36	12	—	16	33
Librarians	402	383	19	—	398	156	154	88	12	30	78
Mathematical specialists	19	15	—	—	19	8	6	5	—	5	—
Life and physical scientists	121	89	8	3	121	70	35	16	6	33	28
Registered nurses, dietitians, and therapists	1 516	1 474	30	7	1 493	744	524	225	116	331	216
Dietitians	37	32	5	—	32	—	—	—	5	27	—
Registered nurses	1 384	1 347	25	7	1 366	684	474	208	111	289	183
Health technologists and technicians	420	386	5	—	405	212	139	54	10	86	90
Social scientists	55	51	4	—	55	20	26	9	—	—	9
Social and recreation workers	329	301	28	—	324	186	95	43	32	97	251
Teachers: College and university	959	890	35	18	949	236	494	219	44	75	141
Elementary and kindergarten	2 461	2 417	44	5	2 414	351	1 662	401	209	535	620
Secondary	1 064	1 048	16	7	1 058	197	671	190	81	220	290
Other teachers	203	193	10	7	197	42	131	24	4	47	91
Engineering and science technicians	217	217	—	18	201	94	61	46	5	51	50
Technicians, except health, and engineering and science	42	36	6	—	42	18	14	10	—	5	5
Writers, artists, and entertainers	491	463	23	—	478	189	177	112	23	52	154
Actors and dancers	5	5	—	—	5	—	—	5	—	—	5
Authors, editors, and reporters	185	172	13	—	185	55	96	34	5	23	15
Other professional, technical, and kindred workers	1 362	1 318	32	13	1 282	623	454	205	56	137	312
Managers and administrators, except farm	1 680	1 608	55	5	1 643	1 110	361	172	91	314	309
Buyers, purchasing agents, and sales managers	190	181	5	—	190	126	49	15	17	49	19
Restaurant, cafeteria, and bar managers	155	145	10	5	150	108	39	3	—	43	29
School administrators	122	113	9	—	116	32	58	26	—	19	15
Other specified managers and administrators	463	448	15	—	459	357	63	39	43	84	117
Managers and administrators, n.e.c., salaried	613	595	5	—	600	393	124	83	20	97	101
Wholesale and retail trade	183	183	—	—	183	129	33	21	4	16	34
Managers and administrators, n.e.c., self-employed	137	126	11	—	128	94	28	6	11	22	28
Wholesale and retail trade	90	90	—	—	86	60	20	6	11	14	17
Sales workers	4 882	4 739	118	62	4 633	1 620	1 511	1 502	430	1 454	2 749
Demonstrators, hucksters, and peddlers	284	284	—	7	258	86	85	87	27	71	127
Insurance, real estate agents, and brokers	280	280	—	7	280	120	107	53	9	65	86
Sales clerks, retail trade	3 482	3 370	87	34	3 325	1 120	986	1 219	333	1 109	2 095
Salesmen, retail trade	127	127	—	—	119	58	45	16	—	25	64
Other sales workers	709	678	31	14	651	236	288	127	61	184	377
Clerical and kindred workers	24 397	23 494	792	225	23 730	13 161	6 202	4 367	1 901	4 896	6 882
Bank tellers	440	423	17	—	425	217	99	109	41	141	119
Bookkeepers	2 522	2 486	31	26	2 484	1 655	540	289	185	454	412
Cashiers	1 611	1 576	29	23	1 572	506	540	546	98	454	821
Counter clerks, except food	362	357	—	—	333	145	107	81	13	68	170
Enumerators and interviewers	42	42	—	—	42	10	5	27	41	46	69
File clerks	931	881	43	11	899	461	225	213	83	321	344
Office machine operators	1 086	1 040	40	7	1 069	626	275	168	80	240	213
Bookkeeping and billing machine operators	140	136	4	—	131	85	25	21	27	20	15
Keypunch operators	673	639	28	—	665	382	203	80	31	168	131
Payroll and timekeeping clerks	235	235	—	—	225	188	—	27	10	9	31
Receptionists	903	858	43	11	867	332	271	10	9	31	56
Secretaries	6 810	6 627	161	6	6 694	4 138	1 671	885	438	1 269	1 438
Stenographers	454	437	12	—	433	296	86	51	26	61	99
Telephone operators	629	614	8	—	629	391	132	106	99	199	213
Typists	2 713	2 586	112	44	2 588	1 454	684	448	296	660	809
Other clerical and kindred workers	5 659	5 330	296	97	5 470	2 742	1 558	1 170	406	864	1 720
Craftsmen and kindred workers	921	886	35	—	868	447	283	138	30	187	203
Foremen, n.e.c.	167	164	3	—	151	105	41	5	14	5	14
Operatives, except transport	4 910	4 388	472	203	4 695	2 162	1 736	797	466	1 271	1 529
Assemblers	1 019	884	132	14	1 014	353	530	131	85	152	282
Bottling and canning operatives	10	10	—	—	10	10	—	—	—	16	17
Checkers, examiners, and inspectors; manufacturing	665	638	27	29	654	397	189	68	30	122	87
Dressmakers and seamstresses, except factory	167	153	6	5	152	72	64	16	13	33	50
Laundry and drycleaning operatives, including ironers	455	398	51	73	423	224	121	78	81	171	136
Graders and sorters, manufacturing	24	24	—	—	24	—	19	5	—	13	23
Packers and wrappers, except produce	338	309	20	11	319	133	80	106	18	112	249
Sewers and sitchers	117	111	6	6	107	52	40	15	48	84	91
Textile operatives	15	15	—	—	11	—	—	—	—	22	21
Other specified operatives	1 279	1 077	187	46	1 183	563	404	216	151	322	343
Miscellaneous and not specified operatives	821	769	43	19	798	358	289	151	40	224	230
Manufacturing	616	582	34	13	597	286	227	84	40	174	182
Durable goods	451	422	29	13	437	228	167	42	13	68	99
Machinery, including electrical	86	83	3	—	80	51	23	6	5	17	29
Other durable goods	365	339	26	13	357	177	144	36	8	51	70
Non-durable goods, including not specified manufacturing	165	160	5	—	160	58	60	42	27	106	83
Food and kindred products	18	18	—	—	18	11	—	7	9	26	24
Apparel and other fabricated textile products	10	10	—	—	5	5	—	—	6	—	—
Nonmanufacturing industries	205	187	9	6	201	72	62	67	—	50	48
Transport equipment operatives	487	453	24	17	473	55	307	111	5	52	96
Laborers, except farm	346	325	21	21	334	132	91	111	28	138	282
Farmers and farm managers	111	111	—	—	106	84	12	10	—	10	35
Farm laborers and farm foremen	138	130	8	—	116	47	46	23	22	68	120
Paid farm laborers and farm foremen	93	85	8	—	83	31	36	16	17	58	76
Unpaid family workers	45	45	—	—	33	16	10	7	5	10	44
Service workers, except private household¹	10 968	10 272	640	297	10 341	3 481	4 044	2 816	867	2 773	5 034
Cleaning service workers	1 087	873	199	51	1 041	529	300	212	56	391	371
Chambermaids and maids	250	218	28	5	235	92	76	67	24	145	102
Food service workers	5 382	5 202	162	139	5 060	1 102	2 289	1 669	455	1 389	2 850
Cooks, except private household	1 082	1 037	41	23	1 056	289	548	219	85	309	288
Waiters and food counter workers	2 726	2 662	30	65	2 476	473	1 071	922	281	787	1 869
Health service workers	2 033	1 890	133	61	1 954	911	492	361	191	544	642
Nursing aides, orderlies, and attendants	1 045	953	88	51	987	370	418	199	89	335	397
Practical nurses	526	491	31	—	526	268	152	106	64	75	93
Personal service workers	1 598	1 505	88	24	1 513	605	509	399	110	308	448
Hairdressers and cosmetologists	772	753	19	12	736	357	249	130	74	154	168
Private household workers	1 281	1 141	140	21	1 185	235	428	222	113	398	369
Private household workers, living in	115	107	8	—	115	41	51	23	—	4	—
Private household workers, living out	1 166	1 034	132	21	1 070	194	377	499	113	394	369
Unemployed persons, last worked 1959 or earlier ²	82	82	—	5	...	...	...	...	...	...	...

¹Includes protective service workers and allocated cases not shown separately. ²See text for explanation.

Table 172. Occupation of the Experienced Civilian Labor Force by Race and Sex, and Weeks Worked in 1969 and Experienced Workers Not in 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	Total experienced civilian labor force	White	Negro	Persons of Spanish language	Weeks worked in 1969 of the experienced civilian labor force				Year last worked of experienced workers not in labor force			
					Total	50 to 52 weeks	27 to 49 weeks	1 to 26 weeks	1960-63	1964-68	1969-70	
TOLEDO, OHIO-MICH., SMSA												
Male, 16 years old and over	175 656	163 547	11 551	2 484	173 740	124 581	37 393	11 766	4 144	8 141	17 136	
Professional, technical, and kindred workers	21 426	20 619	623	236	21 232	15 232	4 794	1 206	275	500	991	
Accountants	1 874	1 834	35	8	1 864	1 617	163	84	40	69	46	
Architects	83	83	—	—	83	76	7	—	—	—	3	
Computer specialists	458	452	6	7	458	411	42	5	—	—	—	
Engineers	4 132	4 059	32	28	4 109	3 584	442	83	67	127	115	
Aeronautical and astronautical	15	15	—	—	15	15	—	—	—	—	—	
Civil	531	514	12	—	531	494	33	4	6	18	12	
Electrical and electronic	555	549	6	5	555	502	46	7	5	45	21	
Mechanical	811	786	9	7	807	650	148	9	26	32	16	
Other engineers	2 220	2 195	5	16	2 201	1 923	215	63	30	32	66	
Lawyers and judges	794	772	22	12	794	640	136	18	2	21	17	
Life and physical scientists	435	414	5	6	423	355	51	17	5	5	32	
Chemists	338	317	5	—	326	281	41	4	5	5	20	
Physicians, dentists, and related practitioners	1 502	1 386	48	8	1 485	1 043	404	38	15	36	59	
Dentists	248	234	14	—	248	115	128	5	—	11	15	
Pharmacists	429	414	15	—	429	359	55	15	5	16	34	
Physicians, medical and osteopathic	711	624	19	8	694	470	206	18	10	5	10	
Other related practitioners	114	114	—	—	114	99	15	—	—	4	—	
Health technologists and technicians	242	222	20	—	242	162	52	28	—	3	35	
Religious workers	678	650	28	7	669	558	98	13	11	23	5	
Social scientists	323	320	3	7	323	279	44	—	—	10	5	
Social and recreation workers	361	315	46	—	361	256	50	55	5	11	98	
Teachers	4 255	4 081	143	74	4 207	1 599	2 503	355	23	46	156	
College and university	1 460	1 421	19	33	1 428	563	746	119	5	9	61	
Elementary and prekindergarten	545	501	44	13	545	198	266	81	5	9	15	
Secondary	2 090	2 009	75	28	2 079	763	1 382	134	13	28	57	
Engineering and science technicians	2 395	2 314	81	10	2 374	1 897	1 677	110	35	40	146	
Draftsmen and surveyors	1 281	1 223	58	10	1 276	1 026	176	74	21	32	51	
Electrical and electronic engineering technicians	245	241	4	—	229	193	36	—	7	—	10	
Technicians, except health, and engineering and science	250	244	6	—	250	221	16	13	5	5	24	
Airplane pilots	73	73	—	—	73	67	6	—	—	—	5	
Writers, artists, and entertainers	1 413	1 360	46	17	1 398	945	294	159	10	59	140	
Other professional, technical, and kindred workers	2 231	2 113	102	52	2 192	1 589	375	228	57	45	110	
Managers and administrators, except farm	16 736	16 390	332	79	16 661	14 635	1 758	268	355	668	681	
Buyers, purchasing agents, and sales managers	2 399	2 369	30	18	2 389	2 178	183	28	18	96	51	
School administrators	444	424	6	10	444	276	162	6	—	—	25	
Specified managers and administrators, public administration	761	712	49	6	761	686	38	37	40	51	34	
Other specified managers and administrators	3 010	2 952	53	11	2 983	2 465	416	102	94	128	196	
Managers and administrators, n.e.c., salaried	8 316	8 183	124	25	8 283	7 521	691	71	162	278	286	
Manufacturing	2 683	2 666	17	—	2 679	2 523	133	23	53	120	87	
Wholesale and retail trade	2 672	2 643	26	11	2 662	2 410	225	27	42	58	82	
Transportation, communications, and other public utilities	789	772	11	7	782	698	84	—	27	38	27	
All other industries	2 172	2 102	70	7	2 160	1 890	249	21	40	62	90	
Managers and administrators, n.e.c., self-employed	1 806	1 740	66	13	1 801	1 509	268	24	41	115	89	
Construction	356	340	16	6	356	253	99	4	14	19	22	
Manufacturing	167	167	—	—	167	150	11	6	—	17	—	
Wholesale and retail trade	907	881	26	—	907	791	102	14	22	62	46	
All other industries	376	352	24	7	371	315	56	—	5	17	21	
Sales workers	10 622	10 423	195	48	10 537	8 184	1 677	676	177	438	1 061	
Insurance agents, brokers, and underwriters	1 208	1 180	28	5	1 204	1 055	130	19	22	39	47	
Real estate agents and brokers	517	513	—	—	514	352	143	19	6	24	57	
Sales representatives, manufacturing industries	1 409	1 398	11	—	1 404	1 247	130	27	26	63	51	
Sales representatives, wholesale trade	1 961	1 955	6	6	1 949	1 681	225	43	6	61	75	
Sales clerks, retail trade	2 428	2 323	105	12	2 412	1 474	543	395	45	140	474	
Salesmen, retail trade	1 471	1 471	—	—	1 465	1 224	183	58	43	35	126	
Salesmen of services and construction	571	568	3	13	571	445	88	38	7	24	71	
Other sales workers	1 057	1 015	42	—	1 018	706	235	77	22	52	160	
Clerical and kindred workers	12 359	11 585	720	130	12 250	9 258	2 050	942	332	656	1 376	
Bank tellers and cashiers	455	448	7	—	443	252	69	122	12	12	109	
Bookkeepers and billing clerks	1 157	1 101	45	13	1 142	892	212	38	40	72	81	
Mail handlers and postal clerks	1 587	1 385	202	22	1 571	1 292	196	83	37	33	100	
Other clerical and kindred workers	9 160	8 651	466	95	9 094	6 822	1 573	699	243	539	1 086	
Craftsmen and kindred workers	41 418	39 698	1 629	430	41 185	30 759	8 903	1 523	1 041	1 905	2 193	
Apparel craftsmen and upholsters	347	337	10	6	342	254	77	11	11	21	4	
Bakers	170	166	4	—	170	142	28	—	10	8	11	
Cabinetmakers	155	150	5	—	150	95	49	—	10	—	6	
Construction craftsmen	9 232	8 859	350	68	9 190	5 195	3 560	435	216	448	714	
Carpenters	2 452	2 392	42	13	2 441	1 190	1 109	142	67	102	245	
Excavating, grading, and road machine operators	716	689	27	8	711	452	231	28	26	31	17	
Electricians	1 887	1 840	47	6	1 870	1 355	454	61	55	94	61	
Masons and tile setters	629	553	76	—	629	247	357	25	11	33	29	
Painters, construction and maintenance, and paperhangers	987	923	64	5	983	447	447	89	33	72	236	
Plasterers and cement finishers	289	231	58	17	289	83	188	18	—	14	18	
Plumbers and pipe fitters	1 590	1 558	27	8	1 585	1 125	416	44	21	51	53	
Other construction craftsmen	682	673	9	11	682	296	358	28	3	51	55	
Foremen, n.e.c.	6 563	6 398	152	51	6 549	5 846	620	83	195	304	183	
Manufacturing	4 476	4 372	94	40	4 467	4 065	361	41	137	194	133	
Nonmanufacturing industries	2 087	2 026	58	11	2 082	1 781	259	42	58	110	50	
Linemen and servicemen, telephone and power	1 094	1 013	81	12	1 082	908	123	61	12	16	60	
Locomotive engineers and firemen	994	984	10	7	989	726	235	26	28	83	46	
Mechanics and repairmen	8 620	8 275	335	105	8 583	6 766	1 481	336	138	222	389	
Air conditioning, heating, and refrigeration	267	267	—	—	267	200	67	—	—	13	34	
Aircraft	115	115	—	—	115	103	8	—	—	—	—	
Automobile, including body	3 424	3 262	157	23	3 401	2 611	647	143	50	69	163	
Radio and television	408	408	—	—	408	334	52	22	—	9	17	
Other mechanics and repairmen	4 406	4 223	178	82	4 392	3 518	710	164	88	131	175	
Metal craftsmen, except mechanics	7 595	7 351	232	104	7 579	5 888	1 502	189	226	454	231	
Machinists and job and die setters	2 512	2 395	111	64	2 508	1 984	430	94	82	196	65	
Sheetmetal workers and tinsmiths	650	644	6	—	645	402	232	11	10	15	20	
Tool and die makers	2 297	2 290	7	6	2 297	1 891	341	65	62	96	92	
Other metal craftsmen	2 136	2 022	108	34	2 129	1 611	499	19	72	147	54	
Printing craftsmen	991	951	40	8	986	807	150	29	14	49	54	
Compositors and typesetters	405	375	30	—	400	325	64	11	10	12	37	
Pressmen and plate printers, printing	394	389	5	8	394	317	59	18	4	21	11	
Stationary engineers and power station operators	858	836	22	—	858	720	125	13	29	69	53	
Other craftsmen and kindred workers	4 799	4 378	388	75	4 707	3 410	953	344	152	231	442	

Table 172. Occupation of the Experienced Civilian Labor Force by Race and Sex, and Weeks Worked in 1969 and Experienced Workers Not in 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—Continued

Male, 16 years old and over—Continued

	Total experienced civilian labor force	White	Negro	Persons of Spanish language	Weeks worked in 1969 of the experienced civilian labor force				Year last worked of experienced workers not in labor force		
					Total	50 to 52 weeks	27 to 49 weeks	1 to 26 weeks	1960-63	1964-68	1969-70
Operatives, except transport	34 264	30 562	3 610	794	33 853	23 183	8 509	2 161	915	1 731	3 026
Assemblers.....	3 306	2 959	342	111	3 262	2 183	874	205	65	202	393
Checkers, examiners, and inspectors, manufacturing.....	3 142	2 873	264	60	3 136	2 445	640	51	105	159	152
Garage workers and gas station attendants.....	1 684	1 637	42	12	1 637	525	664	448	3	55	390
Laundry and drycleaning operatives, n.e.c.....	160	128	27	—	156	93	33	30	5	11	31
Meat cutters and butchers.....	566	560	6	—	561	463	82	16	18	28	14
Mine operatives, n.e.c.....	45	57	8	—	65	40	19	6	—	10	20
Packers and wrappers, except produce.....	918	847	71	20	901	575	246	80	38	95	151
Painters, manufactured articles.....	582	515	67	6	582	363	187	32	11	23	37
Precision machine operatives.....	2 520	2 383	128	78	2 509	1 793	580	136	69	182	141
Sawyers.....	210	204	6	7	205	184	16	5	5	4	15
Stationary firemen.....	669	619	50	7	661	485	160	16	28	23	31
Textile operatives.....	196	164	32	—	196	174	22	—	5	4	—
Welders and flamecutters.....	2 583	2 384	179	72	2 562	1 729	718	115	49	87	106
Other metalworking operatives.....	3 172	2 734	429	92	3 151	2 249	757	145	110	229	209
Other specified operatives.....	5 036	4 204	812	76	4 915	3 128	1 368	419	178	269	583
Miscellaneous and not specified operatives.....	9 455	8 294	1 147	253	9 354	6 754	2 143	457	226	350	753
Occupation:											
Machine operatives, miscellaneous specified.....	3 692	3 356	332	94	3 679	2 751	794	134	93	109	299
Machine operatives, not specified.....	2 859	2 333	516	104	2 829	1 996	687	146	67	133	204
Miscellaneous operatives.....	1 435	1 299	136	32	1 392	920	375	97	44	52	181
Not specified operatives.....	1 469	1 306	163	23	1 454	1 087	287	80	22	56	69
Industry:											
Manufacturing	8 627	7 568	1 045	224	8 532	6 289	1 888	355	192	289	618
Durable goods	6 594	5 658	932	191	6 536	4 825	1 492	219	117	221	433
Wood products, including furniture.....	166	159	7	—	166	112	38	16	—	4	19
Primary metal industries.....	774	494	280	28	765	522	210	33	13	27	88
Fabricated metal industries.....	632	544	88	51	622	454	129	39	4	34	38
Machinery, including electrical.....	937	886	51	11	927	688	210	29	25	22	106
Motor vehicles and equipment.....	2 471	2 080	387	80	2 455	1 811	578	66	35	93	134
Transportation equipment, except motor vehicles.....	126	92	34	8	122	70	52	—	10	—	4
Other durable goods.....	1 488	1 403	85	13	1 479	1 168	275	36	30	41	44
Nondurable goods	2 000	1 882	108	33	1 963	1 436	396	131	67	63	185
Food and kindred products.....	325	291	24	21	318	232	61	25	—	5	17
Apparel and other fabricated textile products.....	5	5	—	—	5	—	5	—	—	—	—
Paper and allied products.....	599	594	5	—	588	423	140	25	27	25	51
Chemicals and allied products.....	369	365	4	5	369	283	63	23	10	5	20

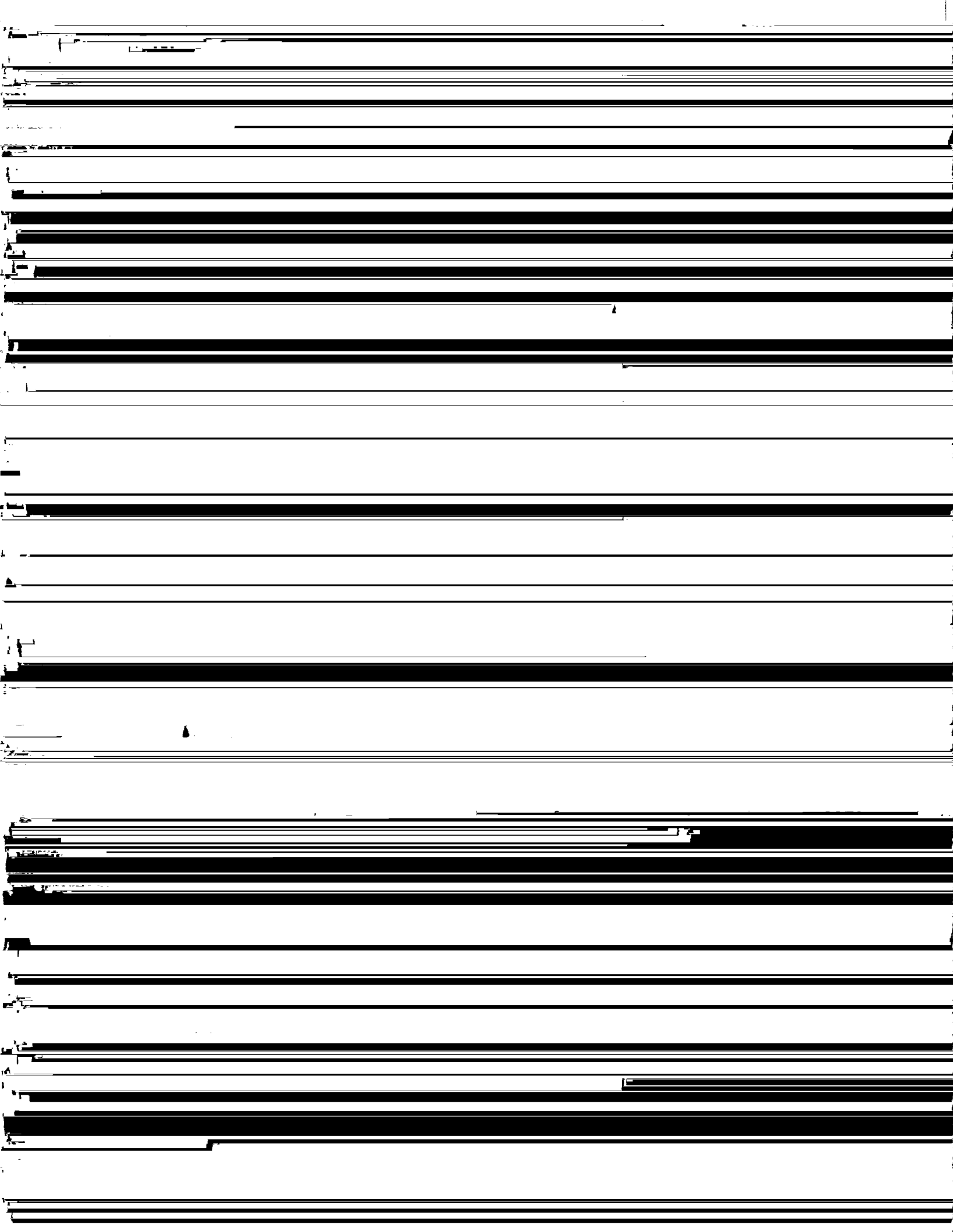


Table 173. Occupation of Employed Persons by Class of Worker, Race, and Sex: 1970

[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

	Total employed	Private wage and salary workers	Government workers				Self-employed workers	Unpaid family workers
			Total	Federal	State	Local		
Total								
Male, 16 years old and over	2 089 004	1 707 981	222 982	40 786	58 151	124 045	153 976	4 065
Professional, technical, and kindred workers	284 817	186 971	72 896	7 385	26 947	38 564	24 870	80
Accountants	21 266	16 392	2 752	1 049	998	705	2 122	—
Architects	1 950	1 393	106	11	44	51	451	—
Computer specialists	7 741	6 474	1 230	405	626	199	37	—
Engineers	53 509	48 564	3 964	1 374	1 410	1 180	981	—
Aeronautical and astronautical	344	315	24	9	15	—	5	—
Civil	4 428	2 589	1 699	224	729	746	140	—
Electrical and electronic	6 721	6 230	411	102	191	118	80	—
Mechanical	16 947	16 193	633	500	70	63	121	—
Other engineers	25 069	23 237	1 197	539	405	253	635	—
Lawyers and judges	8 707	2 538	1 447	228	513	706	4 722	—
Life and physical scientists	5 857	4 530	1 236	374	721	141	91	—
Chemists	4 018	3 711	288	63	149	76	19	—
Physicians, dentists, and related practitioners	20 639	8 564	1 459	278	689	492	10 612	4
Dentists	3 865	612	83	36	10	38	3 170	—
Pharmacists	4 003	2 858	176	45	56	75	965	4
Physicians, medical and osteopathic	10 713	4 507	1 088	160	567	361	5 118	—
Other related practitioners	2 058	587	112	38	56	18	1 359	—
Health technologists and technicians	3 334	2 270	889	132	369	388	175	—
Religious workers	8 450	7 022	79	6	42	31	1 349	—
Social scientists	4 316	3 027	1 148	178	396	574	141	—
Social and recreation workers	4 397	1 104	3 283	224	1 535	1 524	10	—
Teachers	51 097	11 737	38 932	358	11 933	26 641	424	4
College and university	14 555	3 292	11 263	101	9 702	1 460	—	—
Elementary and prekindergarten	10 726	2 320	8 406	94	680	7 632	—	—
Secondary	25 771	4 949	18 822	107	1 323	17 392	—	—
Engineering and science technicians	35 113	31 561	3 152	596	1 460	1 096	392	8
Draftsmen and surveyors	20 232	18 312	1 582	155	670	757	333	5
Electrical and electronic engineering technicians	3 057	2 613	439	191	79	79	5	—
Technicians, except health, and engineering and science	2 849	1 684	1 083	538	193	352	77	—
Airplane pilots	845	750	62	30	32	—	28	—
Writers, artists, and entertainers	21 593	18 004	1 306	205	686	415	2 257	26
Other professional, technical, and kindred workers	33 999	22 107	10 830	1 429	5 332	4 069	1 259	33
Managers and administrators, except farm	191 993	136 503	22 364	4 966	5 788	11 610	32 813	313
Buyers, purchasing agents, and sales managers	25 773	23 674	828	306	244	278	1 257	14
School administrators	6 754	1 400	5 312	38	1 003	4 271	42	—
Specified managers and administrators, public administration	10 696	5	10 691	3 930	2 269	4 492	—	—
Other specified managers and administrators	31 984	24 878	1 755	351	692	712	5 323	28
Managers and administrators, n.e.c., salaried	90 324	86 546	3 778	341	1 580	1 857	—	—
Manufacturing	29 252	29 166	86	56	9	21	—	—
Wholesale and retail trade	28 544	28 383	161	35	106	20	—	—
Transportation, communications and other public utilities	6 815	6 318	497	18	26	453	—	—
All other industries	25 713	22 679	3 034	232	1 439	1 363	—	—
Managers and administrators, n.e.c., self-employed	26 462	—	—	—	—	—	26 191	271
Construction	4 745	—	—	—	—	—	4 718	27
Manufacturing	2 710	—	—	—	—	—	2 687	23
Wholesale and retail trade	13 466	—	—	—	—	—	13 328	138
All other industries	5 541	—	—	—	—	—	5 458	83
Sales workers	125 944	108 453	766	195	248	323	16 461	264
Insurance agents, brokers, and underwriters	13 904	11 569	55	35	—	20	2 280	—
Real estate agents and brokers	8 277	6 036	32	—	4	28	2 184	25
Sales representatives, manufacturing industries	15 772	14 872	11	—	5	6	878	11
Sales representatives, wholesale trade	22 854	20 106	30	8	11	11	2 699	19
Sales clerks, retail trade	29 169	24 925	153	30	109	14	3 935	156
Salesmen, retail trade	16 619	14 506	41	5	5	31	2 025	47
Salesmen of services and construction	6 007	5 262	162	51	46	65	583	—
Other sales workers	13 342	11 177	282	66	68	148	1 877	6
Clerical and kindred workers	140 423	110 137	28 126	18 258	4 291	5 582	1 957	203
Bank tellers and cashiers	4 281	3 892	269	66	102	101	88	32
Bookkeepers and billing clerks	11 593	9 974	953	257	442	442	629	37
Mail handlers and postal clerks	16 016	1 835	14 153	13 851	243	59	19	9
Other clerical and kindred workers	108 533	94 436	12 751	4 079	3 692	4 980	1 221	125
Craftsmen and kindred workers	479 480	429 104	21 986	3 360	4 743	13 883	27 952	438
Apparel craftsmen and upholsterers	3 192	2 597	14	—	5	9	576	5
Bakers	2 905	2 337	79	—	45	34	455	34
Cabinetmakers	2 009	1 620	49	5	13	31	340	—
Construction craftsmen	102 786	83 988	6 020	558	1 270	4 192	12 660	118
Carpenters	27 285	21 354	894	115	299	480	4 958	79
Excavating, grading, and road machine operators	9 676	6 332	2 522	123	300	2 099	812	10
Electricians	21 671	19 793	891	135	209	547	987	—
Masons and tile setters	7 706	6 352	122	10	34	78	1 217	15
Painters, construction and maintenance, and paperhangers	10 659	7 425	710	74	207	429	2 520	4
Plasterers and cement finishers	2 732	2 062	181	5	36	140	484	5
Plumbers and pipe fitters	17 579	15 856	608	96	154	358	1 115	—
Other construction craftsmen	5 478	4 814	92	—	31	61	567	5
Foremen, n.e.c.	76 947	72 892	3 316	527	840	1 949	721	18
Manufacturing	55 222	54 796	190	73	48	69	223	13
Nonmanufacturing industries	21 725	18 096	3 126	454	792	1 880	498	5
Linemen and servicemen, telephone and power	14 238	13 738	479	73	53	353	15	6
Locomotive engineers and firemen	2 199	2 150	49	—	—	—	—	—
Mechanics and repairmen	107 328	94 195	5 872	1 285	1 047	3 540	7 146	115
Air conditioning, heating, and refrigeration	4 320	3 391	208	52	71	85	721	—
Aircraft	1 471	1 471	208	208	57	28	48	—
Automobile, including body	45 876	39 884	2 216	372	256	1 588	3 695	81
Radio and television	4 149	2 693	377	136	83	158	1 079	—
Other mechanics and repairmen	51 512	47 097	2 778	517	580	1 681	1 603	34
Metal craftsmen, except mechanics	96 687	94 906	729	213	171	345	1 030	22
Machinists and job and die setters	28 715	28 153	307	126	71	110	248	7
Sheetmetal workers and linemasons	6 600	6 286	99	22	16	61	215	—
Tool and die makers	36 826	36 371	143	33	43	67	302	10
Other metal craftsmen	24 546	24 096	180	32	41	107	265	5
Printing craftsmen	11 079	10 330	385	63	121	201	359	5
Compositors and typesetters	4 346	4 067	110	9	65	36	169	—
Pressmen and plate printers, printing	5 274	4 930	211	36	52	123	133	—
Stationary engineers and power station operators	7 161	5 309	1 836	94	221	1 521	16	—
Other craftsmen and kindred workers	52 949	45 042	3 158	493	957	1 708	4 634	115

Table 173. Occupation of Employed Persons by Class of Worker, 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—Continued

Total—Continued

Male, 16 years old and over—Continued

	Total employed	Private wage and salary workers	Government workers				Self-employed workers	Unpaid family workers
			Total	Federal	State	Local		
Operatives, except transport	425 651	412 530	7 023	1 763	1 493	3 767	5 683	415
Assemblers.....	60 669	59 702	757	268	135	354	195	15
Checkers, examiners, and inspectors, manufacturing.....	36 285	35 836	352	173	48	131	84	13
Garage workers and gas station attendants.....	18 941	17 756	181	50	13	118	875	129
Laundry and drycleaning operatives, n.e.c.....	2 312	1 681	261	28	132	101	360	10
Meat cutters and butchers.....	8 402	7 629	103	34	51	18	655	15
Mine operatives, n.e.c.....	3 076	3 025	9	—	—	9	42	—
Packers and wrappers, except produce.....	8 322	8 165	125	46	22	57	29	3
Painters, manufactured articles.....	7 867	7 658	80	33	14	33	123	6
Precision machine operatives.....	44 262	43 586	331	136	64	131	331	14
Sawyers.....	3 557	3 383	20	6	—	14	136	18
Stationary firemen.....	4 681	3 451	1 217	96	185	936	9	4
Textile operatives.....	467	439	10	—	—	10	12	6
Welders and flamecutters.....	34 864	33 895	422	117	73	232	535	12
Other metalworking operatives.....	36 828	36 445	233	86	29	118	131	19
Other specified operatives.....	52 800	49 997	1 331	338	340	653	1 405	67
Miscellaneous and not specified operatives.....	102 318	99 882	1 591	352	387	852	761	84
Occupation:								
Machine operatives, miscellaneous specified.....	40 892	40 135	499	116	111	272	227	31
Machine operatives, not specified.....	29 163	28 648	371	114	71	186	121	23
Miscellaneous operatives.....	19 295	18 478	556	82	174	300	231	30
Not specified operatives.....	12 968	12 621	165	40	31	94	182	—
Industry:								
Manufacturing.....	93 560	92 325	710	209	136	365	471	54
Durable goods.....	71 249	70 273	593	182	116	295	357	26
Wood products, including furniture.....	3 183	3 118	8	—	5	3	42	15
Primary metal industries.....	10 172	10 062	85	31	33	21	25	—
Fabricated metal industries.....	6 413	6 347	47	—	15	32	19	—
Machinery, including electrical.....	15 716	15 515	91	21	12	58	99	11
Motor vehicles and equipment.....	29 498	29 128	287	79	46	162	83	—
Transportation equipment, except motor vehicles.....	1 399	1 379	20	20	—	—	—	—
Other durable goods.....	4 868	4 724	55	31	5	19	89	—
Nondurable goods.....	21 619	21 375	106	21	20	65	110	28
Food and kindred products.....	4 296	4 205	22	4	5	13	64	5
Apparel and other fabricated textile products.....	386	382	4	—	—	4	—	—
Paper and allied products.....	6 037	5 988	40	7	6	27	9	—
Chemicals and allied products.....	4 509	4 471	9	4	—	5	15	14
Other nondurable goods.....	6 391	6 329	31	6	9	16	22	9
Not specified manufacturing industries.....	692	677	11	6	—	5	4	—
Nonmanufacturing industries.....	8 758	7 557	881	143	251	487	290	30
Transportation, communications, and other public utilities.....	1 745	1 488	257	—	5	252	—	—
Wholesale and retail trade.....	3 791	3 657	9	—	—	9	98	27
All other industries.....	3 222	2 412	615	143	246	226	192	3
Transport equipment operatives.....	116 236	102 444	9 211	696	982	7 533	4 464	117
Bus drivers.....	4 590	1 714	2 829	48	244	2 537	42	5
Taxicab drivers and chauffeurs.....	5 315	4 745	224	29	76	119	346	—
Truck drivers and deliverymen.....	78 801	69 845	5 207	369	525	4 313	3 651	98
Other transport equipment operatives.....	27 530	26 140	951	250	137	564	425	14
Laborers, except farm.....	119 149	106 158	9 869	1 379	1 574	6 916	2 883	239
Construction laborers.....	15 638	13 480	2 110	44	327	1 739	23	25
Freight, stock, and material handlers.....	55 598	52 166	2 833	915	295	1 623	505	94
Other specified laborers.....	25 922	20 526	3 478	277	739	2 462	1 860	58
Miscellaneous and not specified laborers.....	21 991	19 986	1 448	143	213	1 092	495	62
Occupation:								
Miscellaneous laborers.....	7 795	6 742	699	60	55	584	327	27
Not specified laborers.....	14 196	13 244	749	83	158	508	168	35
Industry:								
Manufacturing.....	13 805	13 527	165	34	51	80	101	12
Durable goods.....	11 645	11 403	143	23	51	69	87	12
Wood products, including furniture.....	504	492	—	—	—	—	12	—
Metal industries.....	4 696	4 604	76	18	27	31	10	6
Machinery, including electrical.....	1 325	1 320	—	—	—	—	5	—
Transportation equipment.....	4 283	4 206	43	5	15	23	28	6
Other durable goods.....	837	781	24	—	9	15	32	—
Nondurable goods.....	2 061	2 028	22	11	—	11	11	—
Food and kindred products.....	770	757	13	7	—	6	—	—
Not specified manufacturing industries.....	99	96	—	—	—	—	—	—
Nonmanufacturing industries.....	8 186	6 459	1 283	109	162	1 012	394	50
Railroads and railway express service.....	1 154	1 098	56	30	7	19	—	—
Transportation, except railroads.....	379	330	33	5	6	22	16	—
Communications, and utilities and sanitary services.....	1 084	511	558	—	4	554	15	—
Wholesale and retail trade.....	2 789	2 528	22	9	—	13	189	50
All other industries.....	2 780	1 992	614	65	145	404	174	—
Farmers and farm managers.....	29 703	1 362	37	10	6	21	28 279	25
Farm laborers and farm foremen.....	12 810	10 606	290	23	133	134	161	1 753
Paid farm laborers and farm foremen.....	11 057	10 606	290	23	133	134	161	—
Unpaid family workers.....	1 753	—	—	—	—	—	—	1 753
Service workers, except private household ¹	161 969	102 906	50 414	2 756	11 946	35 712	8 431	218
Cleaning service workers.....	63 638	45 225	17 451	1 105	4 251	12 095	913	49
Food service workers.....	32 706	27 508	2 431	156	1 767	508	2 643	124
Cooks, except private household.....	11 492	10 119	590	73	351	166	714	69
Busboys and dishwashers.....	8 931	7 943	942	21	804	117	37	9
Health service workers.....	6 180	3 411	2 726	405	1 534	787	39	4
Personal service workers.....	13 060	7 131	1 498	81	543	874	4 405	26
Protective service workers.....	36 443	11 723	24 572	774	3 344	20 454	148	—
Firemen, fire protection.....	6 271	284	5 987	63	82	5 842	—	—
Guards and watchmen.....	13 624	10 794	2 737	344	1 469	924	93	—
Policemen and detectives.....	14 544	552	13 937	261	1 718	11 958	55	—
Private household workers.....	829	807	—	—	—	—	22	—

¹Includes allocated cases not shown separately.

Table 173. Occupation of Employed Persons by Class of Worker, 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—Continued

Total—Continued

	Total employed	Private wage and salary workers	Government workers				Self-employed workers	Unpaid family workers
			Total	Federal	State	Local		
Female, 16 years old and over	1 163 826	896 338	222 395	27 170	55 433	139 792	35 168	9 925
Professionals, technical, and kindred workers	177 075	81 122	90 505	3 208	17 245	70 052	5 090	358
Accountants.....	6 931	5 188	1 279	562	334	383	366	78
Computer specialists.....	1 612	1 210	402	207	164	31	—	—
Librarians.....	3 702	978	2 715	34	582	2 099	4	5
Mathematical specialists.....	265	192	70	14	48	8	—	—
Life and physical scientists.....	946	679	239	29	178	32	28	—
Registered nurses, dietitians, and therapists.....	34 595	25 274	8 702	723	2 672	5 307	554	65
Dietitians.....	1 444	1 068	360	29	112	219	10	6
Registered nurses.....	30 936	23 082	7 326	639	2 217	4 470	469	59
Health technologists and technicians.....	8 090	6 433	1 634	129	578	927	9	14
Social scientists.....	684	305	354	22	179	153	30	5
Social and recreation workers.....	5 992	1 527	4 427	193	2 277	1 957	23	5
Teachers: College and university.....	5 482	1 446	4 036	65	3 138	833	—	—
Elementary and prekindergarten.....	54 352	13 325	40 954	386	2 608	37 960	65	8
Secondary.....	20 433	4 589	15 844	77	946	14 821	—	—
Other teachers.....	4 719	1 784	841	28	290	523	2 072	22
Engineering and science technicians.....	2 569	2 140	421	79	225	117	8	—
Technicians, except health, and engineering and science.....	488	222	266	88	55	123	—	—
Writers, artists, and entertainers.....	7 309	5 676	742	83	329	330	838	53
Actors and dancers.....	287	245	19	—	8	11	23	—
Authors, editors, and reporters.....	1 735	1 382	237	19	190	28	112	4
Other professional, technical, and kindred workers.....	18 906	10 154	7 579	489	2 642	4 448	1 070	103
Managers and administrators, except farm	35 388	22 855	5 596	916	1 196	3 484	5 997	940
Buyers, purchasing agents, and sales managers.....	4 968	4 416	201	87	33	81	273	78
Restaurant, cafeteria, and bar managers.....	3 468	1 702	350	4	37	309	1 223	193
School administrators.....	2 261	903	1 341	6	244	1 091	17	—
Other specified managers and administrators.....	8 600	4 908	2 939	731	470	1 738	685	68
Managers and administrators, n.e.c., salaried.....	11 691	10 926	765	88	412	265	—	—
Wholesale and retail trade.....	4 032	3 999	33	15	5	13	—	—
Managers and administrators, n.e.c., self-employed.....	4 400	—	—	—	—	—	3 799	601
Wholesale and retail trade.....	2 694	—	—	—	—	—	2 371	323
Sales workers	94 736	87 248	945	172	364	409	4 999	1 544
Demonstrators, hucksters, and peddlers.....	5 225	4 345	15	—	—	15	856	9
Insurance, real estate agents, and brokers.....	5 544	4 930	24	11	—	13	549	41
Sales clerks, retail trade.....	67 974	63 931	360	99	120	141	2 574	1 109
Salesmen, retail trade.....	3 170	2 693	6	—	6	—	301	170
Other sales workers.....	12 823	11 349	540	62	238	240	719	215
Clerical and kindred workers	409 700	325 046	76 926	19 775	22 622	34 529	3 718	4 010
Bank tellers.....	10 573	9 974	599	375	129	95	—	—
Bookkeepers.....	48 239	40 667	4 520	660	1 290	2 570	1 436	1 616
Cashiers.....	32 467	30 464	1 415	124	436	855	321	267
Counter clerks, except food.....	7 486	7 082	254	24	132	98	76	76
Enumerators and interviewers.....	1 669	418	1 213	1 064	68	81	27	11
File clerks.....	11 119	8 929	2 165	498	958	709	5	20
Office machine operators.....	17 814	15 679	2 112	669	724	719	23	—
Bookkeeping and billing machine operators.....	2 334	2 072	262	66	91	105	—	—
Keypunch operators.....	10 480	9 200	1 265	387	435	443	15	—
Payroll and timekeeping clerks.....	4 722	3 986	731	176	162	393	5	—
Receptionists.....	13 285	11 410	1 629	104	985	540	126	120
Secretaries.....	104 691	83 007	20 122	2 394	6 604	11 122	575	987
Stenographers.....	5 040	3 232	1 758	311	626	821	34	16
Telephone operators.....	14 423	13 290	1 102	143	430	529	11	20
Typists.....	39 309	28 265	10 618	2 084	3 724	4 810	308	118
Other clerical and kindred workers.....	98 863	68 643	28 688	11 149	6 352	11 187	773	759
Craftsman and kindred workers	20 334	17 831	1 162	66	349	747	1 113	228
Foremen, n.e.c.....	3 718	3 405	245	11	125	109	58	10
Operatives, except transport	145 554	141 013	2 339	514	619	1 206	1 754	448
Assemblers.....	27 035	26 772	208	48	28	132	38	17
Bottling and canning operatives.....	562	557	—	—	—	—	5	—
Checkers, examiners, and inspectors; manufacturing.....	12 880	12 762	113	31	26	56	—	—
Dressmakers and seamstresses, except factory.....	3 120	2 272	35	—	17	4	793	20
Laundry and drycleaning operatives, including ironers.....	9 085	8 183	709	82	179	448	125	68
Graders and sorters, manufacturing.....	582	580	2	—	—	—	—	—
Packers and wrappers, except produce.....	13 275	13 079	134	42	11	81	44	18
Sewers and stitchers.....	10 455	10 088	160	30	59	71	189	18
Textile operatives.....	391	373	9	—	—	4	9	—
Other specified operatives.....	37 735	36 528	523	153	105	265	430	254
Miscellaneous and not specified operatives.....	30 434	29 819	446	128	175	143	121	48
Manufacturing.....	27 404	27 136	186	74	22	90	62	20
Durable goods.....	16 226	16 044	125	52	18	55	43	14
Machinery, including electrical.....	3 911	3 874	18	14	4	—	19	—
Other durable goods.....	12 315	12 170	107	38	14	55	24	14
Nondurable goods, including not specified manufacturing.....	11 178	11 092	61	22	4	35	19	6
Food and kindred products.....	1 412	1 403	6	6	—	—	3	—
Apparel and other fabricated textile products.....	642	633	9	—	—	—	9	—
Nonmanufacturing industries.....	3 030	2 683	260	54	153	53	59	28
Transport equipment operatives.....	8 390	3 766	4 405	81	620	3 704	177	42
Laborers, except farm	11 814	10 503	806	355	140	311	390	115
Farmers and farm managers.....	1 925	104	7	—	—	7	1 809	5
Farm laborers and farm foremen.....	3 282	2 334	40	10	10	20	10	898
Paid farm laborers and farm foremen.....	2 384	2 334	40	10	10	20	10	—
Unpaid family workers.....	898	—	—	—	—	—	—	898
Service workers, except private household¹	224 888	174 048	39 622	2 062	12 268	25 292	9 904	1 314
Cleaning service workers.....	27 324	21 634	5 234	454	1 278	3 502	322	134
Chambermaids and maids.....	5 642	4 999	519	28	160	331	75	49
Food service workers.....	91 763	77 118	11 970	546	4 849	6 575	1 864	811
Cooks, except private household.....	21 501	15 694	4 780	198	1 392	3 190	769	258
Waiters and food counter workers.....	51 040	47 727	2 256	119	1 359	778	706	351
Health service workers.....	53 402	41 974	10 877	642	3 684	6 551	433	118
Nursing aides, orderlies, and attendants.....	29 235	22 597	6 377	443	2 004	3 930	225	36
Practical nurses.....	12 504	8 947	3 339	89	1 824	6 208	10	10
Personal service workers.....	30 656	18 124	5 725	204	1 499	4 022	6 681	126
Hairdressers and cosmetologists.....	16 816	11 252	45	—	33	12	5 444	75
Private household workers	30 740	30 468	42	11	—	31	207	23
Private household workers, living in.....	2 523	2 523	—	—	—	—	—	—
Private household workers, living out.....	28 217	27 945	42	11	—	31	207	23

¹Includes protective service workers and allocated cases not shown separately.

Table 173. Occupation of Employed Persons by Class of Worker, 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	Total employed	Private wage and salary workers	Government workers				Self-employed workers	Unpaid family workers
			Total	Federal	State	Local		
THE STATE—Continued								
Negro								
Male, 16 years old and over	191 581	161 300	25 061	6 807	3 563	14 691	5 098	122
Professional, technical, and kindred workers	10 114	5 062	4 374	651	1 098	2 625	678	—
Accountants	477	267	148	77	38	33	62	—
Architects	42	32	—	—	—	—	10	—
Computer specialists	257	177	80	55	8	17	—	—
Engineers	698	556	127	62	21	44	15	—
Aeronautical and astronautical	6	6	—	—	—	—	—	—
Civil	129	80	44	5	13	26	5	—
Electrical and electronic	136	127	9	5	—	4	—	—
Mechanical	130	96	34	29	—	5	—	—
Other engineers	297	247	40	23	8	9	10	—
Lawyers and judges	191	41	66	16	16	34	84	—
Life and physical scientists	192	117	64	18	26	20	11	—
Chemists	147	98	44	18	11	15	5	—
Physicians, dentists, and related practitioners	552	258	41	14	—	27	253	—
Dentists	118	43	7	—	—	7	68	—
Pharmacists	168	117	15	10	—	5	36	—
Physicians, medical and osteopathic	262	98	19	4	—	15	145	—
Other related practitioners	4	—	—	—	—	—	4	—
Health technologists and technicians	334	225	100	12	34	54	9	—
Religious workers	395	338	—	—	—	—	57	—
Social scientists	132	54	74	7	13	54	4	—
Social and recreation workers	688	157	531	47	185	299	—	—
Teachers	2 364	443	1 910	34	310	1 566	11	—
College and university	260	90	170	—	156	14	—	—
Elementary and prekindergarten	780	87	693	23	60	610	—	—
Secondary	1 216	184	1 032	5	85	942	—	—
Engineering and science technicians	889	744	145	55	36	54	—	—
Draftsmen and surveyors	405	351	54	9	5	40	—	—
Electrical and electronic engineering technicians	133	99	34	25	9	—	—	—
Technicians, except health, and engineering and science	98	42	56	38	—	18	—	—
Airplane pilots	—	—	—	—	—	—	—	—
Writers, artists, and entertainers	767	549	104	27	28	49	114	—
Other professional, technical, and kindred workers	2 038	1 062	928	189	383	356	48	—
Managers and administrators, except farm	5 177	2 953	1 201	237	260	704	1 018	5
Buyers, purchasing agents, and sales managers	451	409	25	17	2	6	17	—
School administrators	353	77	276	—	57	219	—	—
Specified managers and administrators, public administration	591	—	591	171	112	308	—	—
Other specified managers and administrators	1 309	973	114	22	31	61	222	—
Managers and administrators, n.e.c., salaried	1 689	1 494	195	27	58	110	—	—
Manufacturing	252	248	4	4	—	—	—	—
Wholesale and retail trade	543	538	5	—	5	—	—	—
Transportation, communications and other public utilities	98	98	—	—	—	—	—	—
All other industries	796	610	186	23	53	110	—	—
Managers and administrators, n.e.c., self-employed	784	—	—	—	—	—	779	5
Construction	138	—	—	—	—	—	138	—
Manufacturing	22	—	—	—	—	—	22	—
Wholesale and retail trade	344	—	—	—	—	—	339	5
All other industries	280	—	—	—	—	—	280	—
Sales workers	3 734	3 243	81	32	7	42	392	18
Insurance agents, brokers, and underwriters	557	511	19	10	—	9	27	—
Real estate agents and brokers	266	183	—	—	—	—	83	—
Sales representatives, manufacturing industries	213	200	—	—	—	—	13	—
Sales representatives, wholesale trade	350	328	—	—	—	—	22	—
Sales clerks, retail trade	1 198	1 064	4	—	4	—	120	10
Salesmen, retail trade	374	333	4	—	—	4	29	8
Salesmen of services and construction	110	85	20	12	3	5	5	—
Other sales workers	666	539	34	10	—	24	93	—
Clerical and kindred workers	12 254	7 604	4 552	3 170	307	1 075	84	14
Bank tellers and cashiers	275	247	28	—	20	8	—	—
Bookkeepers and billing clerks	431	312	96	26	5	65	23	—
Mail handlers and postal clerks	2 610	205	2 400	2 363	19	18	5	—
Other clerical and kindred workers	8 938	6 840	2 028	781	263	984	56	—
Craftsmen and kindred workers	29 096	25 621	2 158	502	214	1 442	1 317	—
Apparel craftsmen and upholsterers	244	219	5	—	—	5	20	—
Bakers	307	295	12	—	—	12	—	—
Cabinetmakers	56	38	10	—	4	6	8	—
Construction craftsmen	5 455	4 294	441	56	44	341	720	—
Carpenters	776	589	48	6	8	34	139	—
Excavating, grading, and road machine operators	498	355	133	17	5	111	10	—
Electricians	758	656	70	20	5	45	32	—
Masons and tile setters	813	709	42	5	15	22	62	—
Painters, construction and maintenance, and paperhangers	1 162	795	23	3	—	20	344	—
Plasterers and cement finishers	630	485	64	5	—	59	81	—
Plumbers and pipe fitters	610	503	55	—	11	44	52	—
Other construction craftsmen	208	202	6	—	—	6	—	—
Foremen, n.e.c.	3 121	2 859	262	77	24	161	—	—
Manufacturing	2 242	2 196	46	10	10	26	—	—
Nonmanufacturing industries	879	663	216	67	14	135	—	—
Linemen and servicemen, telephone and power	583	550	33	4	10	19	—	—
Locomotive engineers and firemen	56	56	—	—	—	—	—	—
Mechanics and repairmen	7 361	6 333	740	221	45	474	288	—
Air conditioning, heating, and refrigeration	164	127	24	20	—	4	13	—
Aircraft	34	15	19	5	—	14	—	—
Automobile, including body	4 178	3 693	295	87	19	189	190	—
Radio and television	229	138	26	4	6	16	65	—
Other mechanics and repairmen	2 756	2 360	376	105	20	251	20	—
Metal craftsmen, except mechanics	5 335	5 196	113	39	6	68	26	—
Machinists and job and die setters	2 249	2 190	49	13	—	36	10	—
Sheetmetal workers and tinsmiths	175	153	17	12	—	5	5	—
Tool and die makers	588	576	12	5	—	7	—	—
Other metal craftsmen	2 323	2 277	35	9	6	20	11	—
Printing craftsmen	350	324	19	14	—	5	7	—
Compositors and typesetters	132	122	5	5	—	—	5	—
Pressmen and plate printers, printing	176	160	14	9	—	5	2	—
Stationary engineers and power station operators	406	245	161	6	20	135	—	—
Other craftsmen and kindred workers	5 822	5 212	362	85	61	216	248	—

Table 173. Occupation of Employed Persons by Class of Worker, 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—Continued

Negro—Continued

Male, 16 years old and over—Continued

	Total employed	Private wage and salary workers	Government workers				Self-employed workers	Unpaid family workers
			Total	Federal	State	Local		
Operatives, except transport	73 563	71 199	2 082	557	319	1 206	263	19
Assemblers.....	16 414	16 041	353	106	78	169	20	—
Checkers, examiners, and inspectors, manufacturing.....	4 317	4 232	49	13	13	43	16	—
Garage workers and gas station attendants.....	1 167	1 063	48	16	—	32	48	8
Laundry and drycleaning operatives, n.e.c.....	705	609	49	9	30	30	27	—
Meat cutters and butchers.....	641	620	21	16	—	5	—	—
Mine operatives, n.e.c.....	49	49	—	—	—	—	—	—
Packers and wrappers, except produce.....	951	917	31	5	6	20	3	—
Painters, manufactured articles.....	1 618	1 584	30	10	14	6	4	—
Precision machine operatives.....	3 565	3 467	98	33	33	32	—	—
Sawyers.....	118	113	—	—	—	—	—	5
Stationary firemen.....	561	255	306	25	11	270	—	—
Textile operatives.....	36	31	—	—	—	—	5	—
Welders and flamecutters.....	6 974	6 832	124	34	16	74	18	—
Other metalworking operatives.....	8 751	8 642	92	36	14	42	17	—
Other specified operatives.....	11 772	11 312	397	127	34	236	63	—
Miscellaneous and not specified operatives.....	15 924	15 432	444	127	70	247	42	6
Occupation:								
Machine operatives, miscellaneous specified.....	5 954	5 787	156	29	24	103	11	—
Machine operatives, not specified.....	5 533	5 382	136	54	15	67	9	6
Miscellaneous operatives.....	2 710	2 602	97	25	21	51	11	—
Not specified operatives.....	1 727	1 661	55	19	10	26	11	—
Industry:								
Manufacturing.....	14 796	14 447	312	80	60	172	31	6
Durable goods.....	12 989	12 682	270	68	60	142	31	6
Wood products, including furniture.....	134	134	—	—	—	—	—	—
Primary metal industries.....	2 098	2 052	41	8	16	17	5	—
Fabricated metal industries.....	679	654	25	—	5	20	—	—
Machinery, including electrical.....	989	955	28	—	8	20	—	6
Motor vehicles and equipment.....	8 552	8 370	156	49	31	76	26	—
Transportation equipment, except motor vehicles.....	21	21	—	—	—	—	—	—
Other durable goods.....	516	496	20	11	—	9	—	—
Nondurable goods.....	1 680	1 649	31	6	—	25	—	—
Food and kindred products.....	398	385	13	—	—	13	—	—
Apparel and other fabricated textile products.....	49	49	—	—	—	—	—	—
Paper and allied products.....	222	222	—	—	—	—	—	—
Chemicals and allied products.....	255	255	—	—	—	—	—	—
Other nondurable goods.....	756	738	18	6	—	12	—	—
Not specified manufacturing industries.....	127	116	11	6	—	5	—	—
Nonmanufacturing industries.....	1 128	985	132	47	10	75	11	—
Transportation, communications, and other public utilities.....	152	125	27	—	—	27	—	—
Wholesale and retail trade.....	507	502	5	—	—	5	—	—
All other industries.....	469	358	100	47	10	43	11	—
Transport equipment operatives.....	13 722	11 443	2 021	202	118	1 701	251	7
Bus drivers.....	1 134	329	800	6	5	789	5	—
Taxicab drivers and chauffeurs.....	1 124	1 001	91	10	22	59	32	—
Truck drivers and deliverymen.....	6 542	5 488	870	127	55	688	177	7
Other transport equipment operatives.....	4 922	4 625	260	59	36	165	37	—
Laborers, except farm.....	19 561	16 525	2 747	606	222	1 919	274	15
Construction laborers.....	2 868	2 517	346	15	30	301	5	—
Freight, stock, and material handlers.....	7 153	5 789	1 289	407	54	828	71	4
Other specified laborers.....	4 736	3 972	609	158	78	373	155	—
Miscellaneous and not specified laborers.....	4 804	4 247	503	26	60	417	43	11
Occupation:								
Miscellaneous laborers.....	1 831	1 596	204	11	11	182	25	6
Not specified laborers.....	2 973	2 651	299	15	49	235	18	5
Industry:								
Manufacturing.....	3 524	3 436	79	11	33	35	9	—
Durable goods.....	3 216	3 135	72	4	33	35	9	—
Wood products, including furniture.....	33	33	—	—	—	—	—	—
Metal industries.....	1 277	1 233	39	4	18	17	5	—
Machinery, including electrical.....	144	144	—	—	—	—	—	—
Transportation equipment.....	1 631	1 601	30	—	15	15	—	—
Other durable goods.....	131	124	3	—	—	3	4	—
Nondurable goods.....	273	266	7	7	—	—	—	—
Food and kindred products.....	130	123	7	—	—	—	—	—
Not specified manufacturing industries.....	35	35	—	—	—	—	—	—
Nonmanufacturing industries.....	1 280	811	424	15	27	382	34	11
Railroads and railway express service.....	115	107	8	—	—	8	—	—
Transportation, except railroads.....	43	38	5	5	—	—	—	—
Communications, and utilities and sanitary services.....	273	53	220	—	4	216	—	—
Wholesale and retail trade.....	402	360	—	—	—	—	31	11
All other industries.....	447	253	191	10	23	158	3	—
Farmers and farm managers.....	161	6	10	10	—	—	145	—
Farm laborers and farm foremen.....	565	471	40	4	7	29	10	44
Paid farm laborers and farm foremen.....	521	471	40	4	7	29	10	—
Unpaid family workers.....	44	—	—	—	—	—	—	44
Service workers, except private household ¹	23 385	16 929	5 795	836	1 011	3 948	661	—
Cleaning service workers.....	12 578	9 673	2 723	300	513	1 910	182	—
Food service workers.....	2 530	2 191	264	36	60	168	75	—
Cooks, except private household.....	807	670	106	27	24	55	31	—
Busboys and dishwashers.....	751	699	45	5	17	7	—	—
Health service workers.....	1 322	636	681	201	215	265	5	—
Personal service workers.....	1 678	1 072	285	33	68	184	321	—
Protective service workers.....	2 629	1 300	1 313	81	66	1 166	16	—
Firemen, fire protection.....	122	11	111	—	—	111	—	—
Guards and watchmen.....	1 563	1 226	321	73	44	204	16	—
Policemen and detectives.....	850	55	795	8	22	765	—	—
Private household workers.....	249	244	—	—	—	—	5	—

¹Includes allocated cases not shown separately.

Table 173. Occupation of Employed Persons by Class of Worker, 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—Continued

Negro—Continued

	Total employed	Private wage and salary workers	Government workers				Self-employed workers	Unpaid family workers
			Total	Federal	State	Local		
Female, 16 years old and over	133 920	98 507	33 004	8 328	6 465	18 211	2 177	232
Professional, technical, and kindred workers	15 037	5 797	9 090	885	1 690	6 515	150	—
Accountants	593	282	300	236	11	53	11	—
Computer specialists	166	83	83	78	5	—	—	—
Librarians	169	46	123	4	33	86	—	—
Mathematical specialists	23	5	18	5	13	—	—	—
Life and physical scientists	60	34	20	—	12	8	6	—
Registered nurses, dietitians, and therapists	2 993	1 934	1 023	151	339	533	36	—
Dietitians	421	301	120	19	24	77	—	—
Registered nurses	2 377	1 504	837	132	280	425	36	—
Health technologists and technicians	1 076	826	250	57	48	145	—	—
Social scientists	82	45	33	—	23	10	4	—
Social and recreation workers	1 237	270	955	37	339	579	12	—
Teachers:								
College and university	180	33	147	9	94	44	—	—
Elementary and kindergarten	4 523	796	3 727	94	267	3 366	—	—
Secondary	1 386	222	1 164	10	125	1 029	—	—
Other teachers	178	99	65	5	29	31	14	—
Engineering and science technicians	131	96	35	25	5	5	—	—
Technicians, except health, and engineering and science	63	28	35	23	6	6	—	—
Writers, artists, and entertainers	328	236	88	20	21	47	4	—
Actors and dancers	23	17	6	—	—	6	—	—
Authors, editors, and reporters	78	61	17	—	9	8	—	—
Other professional, technical, and kindred workers	1 849	762	1 024	131	320	573	63	—
Managers and administrators, except farm	2 350	1 368	623	133	112	378	328	31
Buyers, purchasing agents, and sales managers	277	223	44	31	—	13	10	—
Restaurant, cafeteria, and bar managers	239	134	23	4	4	15	71	11
School administrators	165	41	124	—	15	109	—	—
Other specified managers and administrators	945	567	339	98	39	202	39	—
Managers and administrators, n.e.c., salaried	496	403	93	—	54	39	—	—
Wholesale and retail trade	149	135	14	—	5	9	—	—
Managers and administrators, n.e.c., self-employed	228	—	—	—	—	—	208	20
Wholesale and retail trade	144	—	—	—	—	—	135	9
Sales workers	5 131	4 793	165	21	34	110	128	45
Demonstrators, hucksters, and peddlers	122	104	—	—	—	—	18	—
Insurance, real estate agents, and brokers	287	283	—	—	—	—	4	—
Sales clerks, retail trade	3 665	3 447	99	21	28	50	87	32
Salesmen, retail trade	134	123	6	—	6	—	5	—
Other sales workers	923	836	60	—	—	60	14	13
Clerical and kindred workers	37 915	24 074	13 656	5 877	2 409	5 370	118	67
Bank tellers	594	525	69	48	7	14	—	—
Bookkeepers	1 969	1 531	393	154	78	161	31	14
Cashiers	2 660	2 431	209	18	42	149	8	12
Counter clerks, except food	728	667	56	16	9	31	—	5
Enumerators and interviewers	185	55	130	82	19	29	—	—
File clerks	1 512	1 009	503	208	118	177	—	—
Office machine operators	2 535	1 932	603	361	100	142	—	—
Bookkeeping and billing machine operators	243	199	44	19	17	8	—	—
Keypunch operators	1 657	1 288	369	204	62	103	—	—
Payroll and timekeeping clerks	259	122	137	96	4	37	—	—
Receptionists	881	673	208	19	112	77	—	—
Secretaries	4 512	2 999	1 504	367	371	766	9	—
Stenographers	441	199	242	43	22	177	—	—
Telephone operators	2 183	1 925	254	45	65	144	—	4
Typists	4 691	2 483	2 191	630	540	1 021	12	5
Other clerical and kindred workers	14 765	7 523	7 157	3 790	922	2 445	58	27
Craftsmen and kindred workers	1 863	1 656	148	16	47	85	53	6
Foremen, n.e.c.	292	231	51	—	21	30	10	—
Operatives, except transport	20 355	19 417	727	233	160	334	176	35
Assemblers	3 312	3 227	80	16	14	50	5	—
Bottling and canning operatives	36	36	—	—	—	—	—	—
Checkers, examiners, and inspectors, manufacturing	1 049	1 025	24	15	5	4	—	—
Dressmakers and seamstresses, except factory	381	293	11	—	11	—	77	—
Laundry and drycleaning operatives, including ironers	3 666	3 436	214	66	46	102	16	—
Graders and sorters, manufacturing	27	25	2	—	—	—	—	—
Packers and wrappers, except produce	1 307	1 249	53	17	5	31	5	—
Sewers and stitchers	1 231	1 157	59	5	27	27	15	—
Textile operatives	35	35	—	—	—	—	—	—
Other specified operatives	5 499	5 244	182	62	30	90	47	26
Miscellaneous and not specified operatives	3 812	3 690	102	52	22	28	11	9
Manufacturing	3 288	3 212	59	27	13	19	8	9
Durable goods	2 102	2 049	39	21	9	9	5	9
Machinery, including electrical	272	263	9	5	4	—	—	—
Other durable goods	1 830	1 786	30	16	5	9	5	9
Nondurable goods, including not specified manufacturing	1 186	1 163	20	6	4	10	3	—
Food and kindred products	114	114	—	—	—	—	—	—
Apparel and other fabricated textile products	102	98	4	—	—	—	—	—
Nonmanufacturing industries	524	478	43	25	9	9	3	—
Transport equipment operatives	567	357	200	26	25	149	10	—
Laborers, except farm	2 097	1 724	344	223	21	100	20	9
Farmers and farm managers	168	4	—	—	—	—	164	—
Farm laborers and farm foremen	322	298	15	—	5	10	—	9
Paid farm laborers and farm foremen	313	298	15	—	5	10	—	—
Unpaid family workers	9	—	—	—	—	—	—	9
Service workers, except private household¹	37 313	28 291	8 000	909	1 962	5 129	992	30
Cleaning service workers	7 615	5 997	1 573	211	351	1 011	39	6
Chambermaids and maids	1 850	1 671	175	5	53	117	4	—
Food service workers	8 914	7 337	1 479	158	457	864	98	—
Cooks, except private household	3 280	2 764	458	42	200	216	58	—
Waiters and food counter workers	2 699	2 414	250	19	85	146	35	—
Health service workers	12 847	9 911	2 886	362	704	1 820	45	5
Nursing aides, orderlies, and attendants	8 683	6 895	1 754	295	413	1 046	29	5
Practical nurses	2 656	1 806	834	32	222	580	16	5
Personal service workers	3 458	1 739	1 031	82	257	692	683	5
Hairdressers and cosmetologists	1 202	611	12	—	7	5	574	—
Private household workers	10 802	10 728	36	5	—	31	38	—
Private household workers, living in	317	317	—	—	—	—	—	—
Private household workers, living out	10 485	10 411	36	5	—	31	38	—

¹Includes protective service workers and allocated cases not shown separately.

Table 173. Occupation of Employed Persons by Class of Worker, 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—Continued

Persons of Spanish Language

	Total employed	Private wage and salary workers	Government workers			Self-employed workers	Unpaid family workers	
			Total	Federal	State			Local
Male, 16 years old and over	25 545	22 437	2 170	516	593	1 061	907	31
Professional, technical, and kindred workers	2 841	1 866	769	139	338	292	206	—
Accountants	155	131	18	7	5	6	6	—
Architects	27	27	—	—	—	—	—	—
Computer specialists	61	54	7	7	—	—	—	—
Engineers	474	403	71	23	34	14	—	—
Aeronautical and astronautical	14	—	14	—	14	—	—	—
Civil	33	14	19	6	7	6	—	—
Electrical and electronic	81	81	—	—	—	—	—	—
Mechanical	103	95	8	—	—	8	—	—
Other engineers	243	213	30	17	13	—	16	—
Lawyers and judges	21	—	5	5	—	—	—	—
Life and physical scientists	32	25	7	—	7	—	—	—
Chemists	20	20	—	—	—	—	—	—
Physicians, dentists, and related practitioners	518	237	124	21	49	54	157	—
Dentists	19	12	—	—	—	—	13	—
Pharmacists	459	210	124	21	49	54	125	—
Physicians, medical and osteopathic	27	15	—	—	—	—	12	—
Other related practitioners	70	58	12	—	12	—	—	—
Health technologists and technicians	34	34	—	—	—	—	—	—
Religious workers	28	7	21	—	7	14	—	—
Social scientists	42	11	31	6	14	11	—	—
Teachers	415	95	320	31	139	150	—	—
College and university	155	54	101	—	92	9	—	—
Elementary and prekindergarten	102	7	95	—	17	78	—	—
Secondary	112	13	99	15	21	63	—	—
Engineering and science technicians	365	323	28	13	11	4	14	—
Draftsmen and surveyors	256	233	9	—	5	4	14	—
Electrical and electronic engineering technicians	29	16	13	13	—	—	—	—
Technicians, except health, and engineering and science	25	25	—	—	—	—	—	—
Airplane pilots	12	12	—	—	—	—	—	—
Writers, artists, and entertainers	276	249	14	—	—	14	13	—
Other professional, technical, and kindred workers	298	187	111	26	60	25	—	—
Managers and administrators, except farm	1 228	855	133	43	26	64	230	10
Buyers, purchasing agents, and sales managers	127	121	—	—	—	—	6	—
School administrators	27	5	22	—	7	15	—	—
Specified managers and administrators, public administration	72	—	72	37	5	30	—	—
Other specified managers and administrators	301	239	13	—	—	13	49	—
Managers and administrators, n.e.c., salaried	516	490	26	6	14	6	—	—
Manufacturing	131	131	—	—	—	—	—	—
Wholesale and retail trade	211	203	8	—	8	—	—	—
Transportation, communications and other public utilities	49	49	—	—	—	—	—	—
All other industries	125	107	18	6	6	6	175	10
Managers and administrators, n.e.c., self-employed	185	—	—	—	—	—	6	—
Construction	6	—	—	—	—	—	31	—
Manufacturing	31	—	—	—	—	—	117	10
Wholesale and retail trade	127	—	—	—	—	—	21	—
All other industries	21	—	—	—	—	—	—	—
Sales workers	822	708	15	—	—	15	99	—
Insurance agents, brokers, and underwriters	130	117	—	—	—	—	13	—
Real estate agents and brokers	36	19	11	—	—	11	6	—
Sales representatives, manufacturing industries	89	82	—	—	—	—	7	—
Sales representatives, wholesale trade	160	118	—	—	—	—	42	—
Sales clerks, retail trade	175	157	—	—	—	—	18	—
Salesmen, retail trade	67	67	4	—	—	4	7	—
Salesmen of services and construction	31	31	—	—	—	—	6	—
Other sales workers	123	117	—	—	—	—	—	—
Clerical and kindred workers	1 387	1 115	266	144	32	90	6	—
Bank tellers and cashiers	69	64	5	—	5	—	—	—
Bookkeepers and billing clerks	46	46	—	—	—	—	—	—
Mail handlers and postal clerks	97	22	75	75	—	—	—	—
Other clerical and kindred workers	1 175	983	186	69	27	90	6	—
Craftsmen and kindred workers	4 771	4 478	167	56	11	100	119	7
Apparel craftsmen and upholsterers	37	37	—	—	—	—	—	—
Bakers	44	34	—	—	—	—	10	—
Cabinetmakers	12	12	—	—	—	—	—	—
Construction craftsmen	883	805	31	—	—	31	47	—
Carpenters	199	179	6	—	—	6	14	—
Excavating, grading, and road machine operators	105	86	19	—	—	19	—	—
Electricians	165	165	—	—	—	—	—	—
Masons and tile setters	47	47	—	—	—	—	—	—
Painters, construction and maintenance, and paperhangers	153	122	6	—	—	6	25	—
Plasterers and cement finishers	32	24	—	—	—	—	8	—
Plumbers and pipe fitters	129	129	—	—	—	—	—	—
Other construction craftsmen	53	53	—	—	—	—	—	—
Foremen, n.e.c.	546	538	8	8	—	—	—	—
Manufacturing	359	359	—	—	—	—	—	—
Nonmanufacturing industries	187	179	8	8	—	—	—	—
Linemen and servicemen, telephone and power	137	124	13	—	—	13	—	—
Locomotive engineers and firemen	7	7	—	—	—	—	—	—
Mechanics and repairmen	1 205	1 093	66	48	—	18	39	7
Air conditioning, heating, and refrigeration	15	15	—	—	—	—	—	—
Aircraft	26	19	7	7	—	—	19	—
Automobile, including body	540	508	13	5	—	8	20	—
Radio and television	87	53	14	14	—	—	—	—
Other mechanics and repairmen	537	498	32	22	—	10	—	7
Metal craftsmen, except mechanics	1 058	1 035	23	—	11	12	—	—
Machinists and job and die setters	241	230	11	—	11	—	—	—
Sheetmetal workers and tinsmiths	55	55	—	—	—	—	—	—
Tool and die makers	306	306	—	—	—	—	—	—
Other metal craftsmen	456	444	12	—	—	12	—	—
Printing craftsmen	129	121	—	—	—	—	8	—
Compositors and typesetters	53	53	—	—	—	—	—	—
Pressmen and plate printers, printing	63	55	—	—	—	—	8	—
Stationary engineers and power station operators	45	39	6	—	—	6	—	—
Other craftsmen and kindred workers	668	633	20	—	—	20	15	—

Table 173. Occupation of Employed Persons by Class of Worker, 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	Total employed	Private wage and salary workers	Government workers				Self-employed workers	Unpaid family workers
			Total	Federal	State	Local		
THE STATE—Continued								
Persons of Spanish Language—Continued								
Male, 16 years old and over—Continued								
Operatives, except transport	8 030	7 791						
Assemblers.....	1 717	1 679	167	52	23	92	49	3
Checkers, examiners, and inspectors, manufacturing.....	448	441	38	26	—	12	—	—
Garage workers and gas station attendants.....	158	144	—	—	—	7	—	—
Laundry and drycleaning operatives, n.e.c.....	33	20	5	5	—	—	14	8
Meat cutters and butchers.....	100	89	11	—	—	11	—	—
Mine operatives, n.e.c.....	36	36	—	—	—	—	—	—
Packers and wrappers, except produce.....	214	214	—	—	—	—	—	—
Painters, manufactured articles.....	200	191	9	—	—	9	—	—
Precision machine operatives.....	650	650	—	—	—	—	—	—
Sawyers.....	38	38	—	—	—	—	—	—
Stationary firemen.....	35	30	5	—	—	5	—	—
Textile operatives.....	6	6	—	—	—	—	—	—
Welders and flamecutters.....	681	669	12	—	5	7	—	—
Other metalworking operatives.....	802	776	26	—	—	26	—	—
Other specified operatives.....	651	625	7	7	—	—	16	3
Miscellaneous and not specified operatives.....	2 241	2 183	47	14	18	15	11	—
Occupation:								
Machine operatives, miscellaneous specified.....	1 043	1 017	15	—	—	15	11	—
Machine operatives, not specified.....	476	454	22	14	8	—	—	—
Miscellaneous operatives.....	407	397	10	—	10	—	—	—
Not specified operatives.....	315	315	—	—	—	—	—	—
Industry:								
Manufacturing.....	2 025	1 981	33	—	18	15	11	—
Durable goods.....	1 603	1 565	27	—	18	9	11	—
Wood products, including furniture.....	33	33	—	—	—	—	—	—
Primary metal industries.....	547	526	10	—	10	—	11	—
Fabricated metal industries.....	109	109	—	—	—	—	—	—
Machinery, including electrical.....	165	165	—	—	—	—	—	—
Motor vehicles and equipment.....	609	592	17	—	8	9	—	—
Transportation equipment, except motor vehicles.....	19	19	—	—	—	—	—	—
Other durable goods.....	121	121	—	—	—	—	—	—
Nondurable goods.....	418	412	6	—	—	6	—	—
Food and kindred products.....	143	137	6	—	—	6	—	—
Apparel and other fabricated textile products.....	34	34	—	—	—	—	—	—
Paper and allied products.....	54	54	—	—	—	—	—	—
Chemicals and allied products.....	54	54	—	—	—	—	—	—
Other nondurable goods.....	133	133	—	—	—	—	—	—
Not specified manufacturing industries.....	4	4	—	—	—	—	—	—
Nonmanufacturing industries.....	216	202	14	14	—	—	—	—
Transportation, communications, and other public utilities.....	76	76	—	—	—	—	—	—
Wholesale and retail trade.....	106	106	—	—	—	—	—	—
All other industries.....	34	20	14	14	—	—	—	—
Transport equipment operatives.....	1 414	1 302	80	28	12	40	32	—
Bus drivers.....	30	7	23	—	—	23	—	—
Taxicab drivers and chauffeurs.....	68	56	12	12	—	—	—	—
Truck drivers and deliverymen.....	818	751	35	11	7	17	32	—
Other transport equipment operatives.....	498	488	10	5	—	—	—	—
Laborers, except farm.....	2 332	2 178	134	16	24	94	14	6
Construction laborers.....	406	382	24	—	—	24	—	—
Freight, stock, and material handlers.....	828	779	43	9	13	21	—	6
Other specified laborers.....	316	284	18	—	—	18	14	—
Miscellaneous and not specified laborers.....	782	733	49	7	11	31	—	—
Occupation:								
Miscellaneous laborers.....	334	298	36	—	11	25	—	—
Not specified laborers.....	448	435	13	7	—	6	—	—
Industry:								
Manufacturing.....	609	590	19	—	—	19	—	—
Durable goods.....	545	532	13	—	—	13	—	—
Wood products, including furniture.....	19	19	—	—	—	—	—	—
Metal industries.....	331	324	7	—	—	7	—	—
Machinery, including electrical.....	36	36	—	—	—	—	—	—
Transportation equipment.....	147	141	6	—	—	6	—	—
Other durable goods.....	12	12	—	—	—	—	—	—
Nondurable goods.....	58	52	6	—	—	6	—	—
Food and kindred products.....	18	12	6	—	—	6	—	—
Not specified manufacturing industries.....	6	6	—	—	—	—	—	—
Nonmanufacturing industries.....	173	143	30	7	11	12	—	—
Railroads and railway express service.....	68	57	11	—	11	—	—	—
Transportation, except railroads.....	8	8	—	—	—	—	—	—
Communications, and utilities and sanitary services.....	19	7	12	—	—	12	—	—
Wholesale and retail trade.....	51	44	7	7	—	—	—	—
All other industries.....	27	27	—	—	—	—	—	—
Formers and farm managers.....	105	14	7	—	—	7	84	—
Farm laborers and farm foremen.....	536	536	—	—	—	—	—	—
Paid farm laborers and farm foremen.....	536	536	—	—	—	—	—	—
Unpaid family workers.....	—	—	—	—	—	—	—	—
Service workers, except private household ¹	2 093	1 588	432	38	127	267	68	5
Cleaning service workers.....	1 005	853	152	15	70	67	—	—
Food service workers.....	521	468	41	6	24	11	12	—
Cooks, except private household.....	216	199	17	6	6	5	—	—
Busboys and dishwashers.....	98	92	6	—	6	—	—	—
Health service workers.....	38	23	15	—	15	—	—	—
Personal service workers.....	154	87	11	—	—	11	56	—
Protective service workers.....	260	54	206	17	18	171	—	—
Firemen, fire protection.....	75	7	68	5	—	63	—	—
Guards and watchmen.....	64	41	23	12	11	—	—	—
Policemen and detectives.....	121	6	115	—	7	108	—	—
Private household workers.....	6	6	—	—	—	—	—	—

¹Includes allocated cases not shown separately.

Table 173. Occupation of Employed Persons by Class of Worker, 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—Continued

Persons of Spanish Language—Continued

	Total employed	Private wage and salary workers	Government workers				Self-employed workers	Unpaid family workers
			Total	Federal	State	Local		
Female, 16 years old and over	11 750	9 624	1 774	344	477	953	276	76
Professional, technical, and kindred workers	1 382	753	582	36	178	368	47	—
Accountants.....	79	59	20	20	—	—	—	—
Computer specialists.....	12	12	—	—	—	—	—	—
Librarians.....	22	17	5	—	—	5	—	—
Mathematical specialists.....	—	—	—	—	—	—	—	—
Life and physical scientists.....	3	—	3	—	3	—	—	—
Registered nurses, dietitians, and therapists.....	282	220	62	8	13	41	—	—
Dietitians.....	13	13	—	—	—	—	—	—
Registered nurses.....	241	194	47	8	7	32	—	—
Health technologists and technicians.....	88	60	28	—	6	22	—	—
Social scientists.....	—	—	—	—	—	—	—	—
Social and recreation workers.....	60	36	24	—	16	8	—	—
Teachers: College and university.....	105	26	79	—	74	5	—	—
Elementary and prekindergarten.....	257	81	176	8	24	144	—	—
Secondary.....	152	53	99	—	—	99	—	—
Other teachers.....	68	27	6	—	—	6	—	35
Engineering and science technicians.....	29	11	18	—	18	—	—	—
Technicians, except health, and engineering and science.....	—	—	—	—	—	—	—	—
Writers, artists, and entertainers.....	53	47	6	—	—	6	—	—
Actors and dancers.....	20	20	—	—	—	—	—	—
Authors, editors, and reporters.....	15	9	6	—	—	6	—	—
Other professional, technical, and kindred workers.....	172	104	56	—	24	32	12	—
Managers and administrators, except farm	279	184	38	7	16	15	57	—
Buyers, purchasing agents, and sales managers.....	16	16	—	—	—	—	—	—
Restaurant, cafeteria, and bar managers.....	17	7	10	—	—	10	—	—
School administrators.....	8	8	—	—	—	—	—	—
Other specified managers and administrators.....	84	59	19	7	7	5	6	—
Managers and administrators, n.e.c., salaried.....	103	94	9	—	9	—	—	—
Wholesale and retail trade.....	36	36	—	—	—	—	—	—
Managers and administrators, n.e.c., self-employed.....	51	—	—	—	—	—	—	51
Wholesale and retail trade.....	33	—	—	—	—	—	—	33
Sales workers	735	670	17	7	—	10	31	17
Demonstrators, hucksters, and peddlers.....	31	24	—	—	—	—	7	—
Insurance, real estate agents, and brokers.....	35	25	10	—	—	10	—	—
Sales clerks, retail trade.....	501	482	—	—	—	—	10	9
Salesmen, retail trade.....	8	8	—	—	—	—	—	—
Other sales workers.....	160	131	7	7	—	—	14	8
Clerical and kindred workers	3 651	2 940	677	251	169	257	14	20
Bank tellers.....	76	68	8	—	8	—	—	—
Bookkeepers.....	346	305	14	—	—	14	—	13
Cashiers.....	276	270	6	6	—	—	—	—
Counter clerks, except food.....	68	61	—	—	—	—	—	7
Enumerators and interviewers.....	20	20	—	—	—	—	—	—
File clerks.....	112	100	12	—	—	5	—	—
Office machine operators.....	197	165	32	18	7	7	—	—
Bookkeeping and billing machine operators.....	27	20	7	—	—	—	—	—
Keypunch operators.....	141	128	13	6	—	7	—	—
Payroll and timekeeping clerks.....	52	45	7	—	—	—	—	—
Receptionists.....	151	138	13	8	—	5	—	—
Secretaries.....	882	752	130	33	19	78	—	—
Stenographers.....	23	16	7	—	—	7	—	—
Telephone operators.....	88	73	15	6	9	—	—	—
Typists.....	386	269	117	45	41	31	—	—
Other clerical and kindred workers.....	974	672	302	114	78	110	—	—
Craftsmen and kindred workers	247	236	11	—	—	11	—	—
Foremen, n.e.c.....	38	32	6	—	—	6	—	—
Operatives, except transport	2 365	2 272	50	15	7	28	31	12
Assemblers	299	289	10	—	—	10	—	—
Bottling and canning operatives.....	43	43	—	—	—	—	—	—
Checkers, examiners, and inspectors; manufacturing.....	173	173	—	—	—	—	—	—
Dressmakers and seamstresses, except factory.....	72	56	—	—	—	—	16	—
Laundry and drycleaning operatives, including ironers.....	167	147	11	—	—	11	9	—
Graders and sorters, manufacturing.....	33	33	—	—	—	—	—	—
Packers and wrappers, except produce.....	285	270	15	15	—	—	—	—
Sewers and stitchers.....	212	200	—	—	—	—	6	6
Textile operatives.....	—	—	—	—	—	—	—	—
Other specified operatives.....	660	647	7	—	7	—	—	6
Miscellaneous and not specified operatives.....	421	414	7	—	—	7	—	—
Manufacturing.....	375	368	7	—	—	7	—	—
Durable goods.....	197	190	7	—	—	7	—	—
Machinery, including electrical.....	30	30	—	—	—	—	—	—
Other durable goods.....	167	160	7	—	—	7	—	—
Nondurable goods, including not specified manufacturing.....	178	178	—	—	—	—	—	—
Food and kindred products.....	30	30	—	—	—	—	—	—
Apparel and other fabricated textile products.....	—	—	—	—	—	—	—	—
Nonmanufacturing industries.....	46	46	—	—	—	—	—	—
Transport equipment operatives.....	61	54	7	—	—	7	—	—
Laborers, except farm	103	84	19	7	12	—	—	—
Formers and farm managers.....	6	—	—	—	—	—	6	—
Farm laborers and farm foremen.....	130	130	—	—	—	—	—	—
Paid farm laborers and farm foremen.....	130	130	—	—	—	—	—	—
Unpaid family workers.....	—	—	—	—	—	—	—	—
Service workers, except private household	2 570	2 080	373	21	95	257	90	27
Cleaning service workers.....	378	341	37	—	19	18	—	—
Chambermaids and maids.....	78	72	6	—	6	—	—	—
Food service workers.....	1 089	950	70	—	37	33	42	27
Cooks, except private household.....	302	231	21	—	7	14	30	20
Waiters and food counter workers.....	465	451	7	—	7	—	—	7
Health service workers.....	534	447	66	7	20	39	21	—
Nursing aides, orderlies, and attendants.....	355	289	54	7	13	34	12	—
Practical nurses.....	97	76	12	—	7	5	9	—
Personal service workers.....	400	248	132	7	6	119	20	—
Hairdressers and cosmetologists.....	197	177	—	—	—	—	20	—
Private household workers	221	221	—	—	—	—	—	—
Private household workers, living in.....	7	7	—	—	—	—	—	—
Private household workers, living out.....	214	214	—	—	—	—	—	—

¹Includes protective service workers and allocated cases not shown separately.

Table 173. Occupation of Employed Persons by Class of Worker, 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

DETROIT SMSA

Total

	Total employed	Private wage and salary workers	Government workers				Self-employed workers	Unpaid family workers
			Total	Federal	State	Local		
Male, 16 years old and over	1 015 407	862 927	96 230	21 133	11 276	63 821	55 185	1 065
Professional, technical, and kindred workers	151 276	110 810	27 823	3 935	5 243	18 645	12 597	46
Accountants.....	12 381	9 767	1 470	710	305	455	1 144	—
Architects.....	1 211	899	61	6	9	46	251	—
Computer specialists.....	4 850	4 261	556	250	149	157	303	—
Engineers.....	33 451	30 953	1 891	1 038	212	641	67	—
Aeronautical and astronautical.....	177	167	5	—	—	—	5	—
Civil.....	2 151	1 470	636	99	110	427	45	—
Electrical and electronic.....	3 668	3 498	119	56	12	51	51	—
Mechanical.....	12 705	12 081	540	475	12	53	84	—
Other engineers.....	14 750	13 737	591	403	78	110	422	—
Lawyers and judges.....	5 267	1 773	628	155	157	316	2 866	—
Life and physical scientists.....	2 208	1 934	248	118	41	89	26	—
Chemists.....	1 772	1 649	110	40	17	53	13	—
Physicians, dentists, and related practitioners.....	10 714	5 082	567	132	174	261	5 065	—
Dentists.....	2 074	420	68	25	5	38	1 586	—
Pharmacists.....	1 896	1 466	60	29	—	31	370	—
Physicians, medical and osteopathic.....	5 877	2 894	421	78	164	179	2 562	—
Other related practitioners.....	867	302	18	—	5	13	547	—
Health technologists and technicians.....	1 607	1 216	327	40	103	184	64	—
Religious workers.....	3 086	2 735	15	—	3	12	336	—
Social scientists.....	2 762	2 212	470	98	82	290	80	—
Social and recreation workers.....	2 115	508	1 602	75	543	984	5	—
Teachers.....	19 328	4 704	14 406	107	2 049	12 250	214	4
College and university.....	3 097	1 021	2 076	25	1 446	605	—	—
Elementary and prekindergarten.....	4 871	1 012	3 859	23	179	3 657	—	—
Secondary.....	10 321	2 001	8 320	39	403	7 878	—	—
Engineering and science technicians.....	20 627	19 362	1 055	306	164	585	202	8
Draftsmen and surveyors.....	12 935	12 242	496	77	52	367	192	5
Electrical and electronic engineering technicians.....	1 724	1 561	158	77	35	46	30	—
Technicians, except health, and engineering and science.....	1 309	819	460	273	27	160	13	—
Airplane pilots.....	341	324	4	—	—	—	—	—
Writers, artists, and entertainers.....	13 540	11 874	502	131	129	242	1 154	10
Other professional, technical, and kindred workers.....	16 820	12 711	3 565	496	1 096	1 973	520	24
Managers and administrators, except farm	94 485	71 512	9 240	2 532	1 315	5 393	13 643	90
Buyers, purchasing agents, and sales managers.....	14 553	13 640	408	208	50	150	505	—
School administrators.....	2 664	513	2 134	17	250	1 867	17	—
Specified managers and administrators, public administration.....	4 760	5	4 755	1 977	524	2 254	—	—
Other specified managers and administrators.....	16 405	12 914	618	180	146	292	2 513	—
Managers and administrators, n.e.c., salaried.....	45 765	44 440	1 325	150	345	830	—	—
Manufacturing.....	15 714	15 658	56	50	6	6	—	—
Wholesale and retail trade.....	13 162	13 077	85	16	49	20	—	—
Transportation, communications and other public utilities.....	3 285	3 107	178	7	—	171	—	—
All other industries.....	13 604	12 598	1 006	77	296	633	—	—
Managers and administrators, n.e.c., self-employed.....	10 698	—	—	—	—	—	10 608	90
Construction.....	1 687	—	—	—	—	—	1 687	5
Manufacturing.....	1 396	—	—	—	—	—	1 391	5
Wholesale and retail trade.....	5 137	—	—	—	—	—	5 098	39
All other industries.....	2 478	—	—	—	—	—	2 432	46
Sales workers	64 337	56 471	339	94	73	172	7 422	105
Insurance agents, brokers, and underwriters.....	6 717	5 837	23	14	—	9	857	—
Real estate agents and brokers.....	4 371	3 342	14	—	—	14	1 000	15
Sales representatives, manufacturing industries.....	9 007	8 465	8	—	5	3	529	5
Sales representatives, wholesale trade.....	12 792	11 187	3	3	—	—	1 592	10
Sales clerks, retail trade.....	14 005	12 066	62	20	33	9	1 818	59
Salesmen, retail trade.....	7 261	6 575	15	5	—	10	655	16
Salesmen of services and construction.....	3 488	3 154	77	27	15	35	257	—
Other sales workers.....	6 696	5 845	137	25	20	92	714	—
Clerical and kindred workers	77 138	62 355	13 795	9 476	835	3 484	875	113
Bank tellers and cashiers.....	2 076	1 901	114	41	20	53	46	15
Bookkeepers and billing clerks.....	5 666	5 017	407	143	39	225	222	20
Mail handlers and postal clerks.....	8 217	1 122	7 085	6 988	49	48	107	—
Other clerical and kindred workers.....	61 179	54 315	6 189	2 304	727	3 158	597	78
Craftsmen and kindred workers	230 833	210 236	9 663	1 685	935	7 043	10 760	174
Apparel craftsmen and upholsterers.....	1 701	1 426	9	—	—	9	261	5
Bakers.....	1 453	1 230	11	—	—	11	197	15
Cabinetmakers.....	595	474	15	5	—	10	106	—
Construction craftsmen.....	45 349	38 526	2 313	164	235	1 914	4 470	40
Carpenters.....	10 329	8 583	364	20	75	269	1 357	26
Excavating, grading, and road machine operators.....	3 092	2 270	628	31	21	576	188	6
Electricians.....	10 293	9 484	475	67	24	384	334	—
Masons and tile setters.....	3 948	3 332	71	—	19	52	545	—
Painters, construction and maintenance, and paperhangers.....	5 396	3 797	331	13	40	278	1 264	4
Plasterers and cement finishers.....	1 421	1 086	109	5	9	95	226	—
Plumbers and pipe fitters.....	8 146	7 509	278	28	27	223	359	—
Other construction craftsmen.....	2 724	2 465	57	—	20	37	197	5
Foremen, n.e.c.....	37 375	35 706	1 342	288	123	931	327	—
Manufacturing.....	27 095	26 873	119	40	15	64	103	—
Nonmanufacturing industries.....	10 280	8 833	1 223	248	108	867	224	—
Linemen and servicemen, telephone and power.....	6 475	6 241	229	36	15	178	5	—
Locomotive engineers and firemen.....	926	896	30	—	—	—	—	—
Mechanics and repairmen.....	51 290	45 464	2 899	747	201	1 951	2 893	34
Air conditioning, heating, and refrigeration.....	1 972	1 602	104	35	8	61	266	—
Aircraft.....	855	657	178	117	38	23	20	—
Automobile, including body.....	22 377	19 740	1 142	207	46	889	1 454	21
Radio and television.....	2 043	1 862	211	80	25	106	470	—
Other mechanics and repairmen.....	24 043	22 083	1 264	308	84	872	683	13
Metal craftsmen, except mechanics.....	51 057	50 231	368	110	30	228	448	10
Machinists and job and die setters.....	12 692	13 131	131	58	5	68	116	—
Sheetmetal workers and tinsmiths.....	3 619	3 450	73	17	—	56	96	—
Tool and die makers.....	21 524	21 305	72	21	14	37	137	10
Other metal craftsmen.....	13 222	13 031	92	14	11	67	99	—
Printing craftsmen.....	5 301	4 954	189	52	—	137	153	5
Compositors and typesetters.....	2 037	1 946	26	9	—	17	65	—
Pressmen and plate printers, printing.....	2 515	2 342	110	32	—	78	63	—
Stationary engineers and power station operators.....	3 352	2 519	833	10	—	48	775	—
Other craftsmen and kindred workers.....	25 959	22 569	1 425	243	283	899	1 900	65

Table 173. Occupation of Employed Persons by Class of Worker, 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**

DETROIT SMSA—Continued

Total—Continued

Male, 16 years old and over—Continued

	Total employed	Private wage and salary workers	Government workers				Self-employed workers	Unpaid family workers
			Total	Federal	State	Local		
Operatives, except transport	202 873	196 979	3 723	991	370	2 362	2 016	155
Assemblers.....	30 883	30 300	480	175	38	247	96	7
Checkers, examiners, and inspectors; manufacturing.....	18 462	18 211	200	108	11	81	51	—
Garage workers and gas station attendants.....	7 997	7 546	110	34	—	76	277	64
Laundry and drycleaning operatives, n.e.c.....	1 227	962	70	5	26	39	189	6
Meat cutters and butchers.....	3 853	3 548	25	14	—	11	256	4
Mine operatives, n.e.c.....	249	244	—	—	—	—	5	—
Packers and wrappers, except produce.....	3 439	3 341	70	30	6	34	25	3
Painters, manufactured articles.....	3 761	3 455	49	28	5	16	51	6
Precision machine operatives.....	23 247	22 899	161	86	10	65	182	5
Sawyers.....	846	824	17	6	—	11	5	—
Stationary firemen.....	2 320	1 509	798	41	45	712	9	4
Textile operatives.....	141	137	4	—	—	4	—	—
Welders and flamecutters.....	17 370	17 023	208	46	13	149	135	4
Other metalworking operatives.....	17 918	17 687	154	53	13	88	68	9
Other specified operatives.....	26 089	25 099	586	150	56	380	392	12
Miscellaneous and not specified operatives.....	44 891	43 794	791	215	127	449	275	31
Occupation:								
Machine operatives, miscellaneous specified.....	15 687	15 422	199	56	26	117	66	—
Machine operatives, not specified.....	12 864	12 585	215	70	49	96	58	6
Miscellaneous operatives.....	9 890	9 477	285	67	37	181	103	25
Not specified operatives.....	6 450	6 310	92	22	15	55	48	—
Industry:								
Manufacturing.....	40 324	39 762	397	122	85	190	159	6
Durable goods.....	33 761	33 290	347	106	76	165	118	6
Wood products, including furniture.....	394	394	—	—	—	—	—	—
Primary metal industries.....	3 787	3 738	38	10	16	12	11	—
Fabricated metal industries.....	3 300	3 254	36	—	15	21	8	—
Machinery, including electrical.....	7 953	7 849	52	11	12	29	46	6
Motor vehicles and equipment.....	16 005	15 794	184	58	33	93	27	—
Transportation equipment, except motor vehicles.....	266	266	—	—	—	—	—	—
Other durable goods.....	2 056	1 993	37	27	—	10	26	—
Nondurable goods.....	6 292	6 216	39	10	9	20	37	—
Food and kindred products.....	1 275	1 254	4	—	—	4	17	—
Apparel and other fabricated textile products.....	184	184	—	—	—	—	—	—
Paper and allied products.....	702	693	5	—	—	5	4	—
Chemicals and allied products.....	1 682	1 662	9	4	—	5	11	—
Other nondurable goods.....	2 449	2 423	21	6	9	6	5	—
Not specified manufacturing industries.....	271	256	11	6	—	5	4	—
Nonmanufacturing industries.....	4 567	4 032	394	93	42	259	116	25
Transportation, communications, and other public utilities.....	863	720	143	—	5	138	—	—
Wholesale and retail trade.....	1 938	1 885	5	—	—	5	26	22
All other industries.....	1 766	1 427	246	93	37	116	90	3
Transport equipment operatives.....	56 370	50 223	4 240	458	219	3 563	1 869	38
Bus drivers.....	2 284	785	1 490	23	32	1 435	9	—
Taxicab drivers and chauffeurs.....	3 373	3 045	130	16	39	75	198	—
Truck drivers and deliverymen.....	36 569	32 916	2 109	249	97	1 763	1 511	33
Other transport equipment operatives.....	14 144	13 477	511	170	51	290	151	5
Laborers, except farm	56 516	50 733	4 857	788	369	3 700	835	91
Construction laborers.....	6 879	6 053	810	10	50	750	11	5
Freight, stock, and material handlers.....	28 375	26 278	1 882	588	97	1 197	158	57
Other specified laborers.....	11 001	9 110	1 436	124	162	1 150	441	14
Miscellaneous and not specified laborers.....	10 261	9 292	729	66	60	603	225	15
Occupation:								
Miscellaneous laborers.....	3 648	3 168	328	26	11	291	142	10
Not specified laborers.....	6 613	6 124	401	40	49	312	83	5
Industry:								
Manufacturing.....	6 661	6 539	85	26	20	39	37	—
Durable goods.....	5 858	5 749	72	19	20	33	37	—
Wood products, including furniture.....	40	40	—	—	—	—	—	—
Metal industries.....	2 354	2 321	23	14	5	4	10	—
Machinery, including electrical.....	507	507	—	—	—	—	—	—
Transportation equipment.....	2 564	2 522	30	5	11	14	12	—
Other durable goods.....	393	359	19	—	4	15	15	—
Nondurable goods.....	760	747	13	7	—	6	—	—
Food and kindred products.....	274	261	13	7	—	6	—	—
Not specified manufacturing industries.....	43	43	—	—	—	—	—	—
Nonmanufacturing industries.....	3 600	2 753	644	40	40	564	188	15
Railroads and railway express service.....	322	287	35	15	7	13	—	—
Transportation, except railroads.....	228	190	22	5	—	17	16	—
Communications, and utilities and sanitary services.....	524	170	349	—	4	345	5	—
Wholesale and retail trade.....	1 313	1 189	18	5	—	13	91	15
All other industries.....	1 213	917	220	15	29	176	76	—
Farmers and farm managers	1 446	164	10	10	—	—	1 272	—
Farm laborers and farm foremen	1 341	1 067	100	8	13	79	24	150
Paid farm laborers and farm foremen.....	1 191	1 067	100	8	13	79	24	—
Unpaid family workers.....	150	—	—	—	—	—	—	150
Service workers, except private household¹	78 299	51 901	22 440	1 156	1 904	19 380	3 855	103
Cleaning service workers.....	29 197	21 828	6 911	451	887	5 573	444	14
Food service workers.....	15 220	13 496	383	30	80	273	1 277	64
Cooks, except private household.....	5 613	5 042	154	19	35	100	367	50
Busboys and dishwashers.....	3 840	3 754	69	5	24	40	17	—
Health service workers.....	2 462	1 701	751	101	278	372	10	—
Personal service workers.....	6 371	3 864	607	25	93	489	1 890	10
Protective service workers.....	20 237	7 022	13 113	434	480	12 199	102	—
Firemen, fire protection.....	3 570	182	3 388	24	9	3 355	—	—
Guards and watchmen.....	7 484	6 468	952	167	162	623	64	—
Policemen and detectives.....	8 660	336	8 286	227	292	7 767	38	—
Private household workers	493	476	—	—	—	—	17	—

¹Includes allocated cases not shown separately.

Table 173. Occupation of Employed Persons by Class of Worker, 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

DETROIT SMSA—Continued

Total—Continued

Female, 16 years old and over

	Total employed	Private wage and salary workers	Government workers				Self-employed workers	Unpaid family workers
			Total	Federal	State	Local		
Female, 16 years old and over	555 546	445 811	93 311	15 355	13 298	64 658	13 014	3 410
Professional, technical, and kindred workers	81 598	40 314	39 117	1 772	4 645	32 700	2 037	130
Accountants	3 806	2 894	779	498	53	228	112	21
Computer specialists	904	718	186	149	33	4	—	—
Librarians	1 260	356	900	9	86	805	4	—
Mathematical specialists	181	150	31	10	13	8	—	—
Life and physical scientists	345	302	33	12	9	12	10	—
Registered nurses, dietitians, and therapists	15 214	12 131	2 828	305	691	1 832	224	31
Dietitians	722	608	108	3	15	90	6	—
Registered nurses	13 552	10 942	2 395	302	570	1 523	184	31
Health technologists and technicians	4 037	3 485	533	71	105	357	9	10
Social scientists	321	176	134	—	38	96	11	—
Social and recreation workers	3 072	843	2 211	59	982	1 170	18	—
Teachers: College and university	1 589	544	1 045	13	613	419	—	—
Elementary and prekindergarten	24 842	6 017	18 804	134	717	17 953	17	4
Secondary	9 656	2 284	7 372	29	343	7 000	—	—
Other teachers	1 914	895	292	16	41	235	71.5	12
Engineering and science technicians	1 174	1 004	170	45	58	67	—	—
Technicians, except health, and engineering and science	286	123	163	68	8	87	—	—
Writers, artists, and entertainers	3 727	3 001	319	49	72	198	402	5
Actors and dancers	257	220	14	—	8	6	23	—
Authors, editors, and reporters	733	646	46	15	25	6	41	—
Other professional, technical, and kindred workers	9 270	5 391	3 317	305	783	2 229	51.5	47
Managers and administrators, except farm	17 043	12 120	2 370	437	365	1 568	2 250	303
Buyers, purchasing agents, and sales managers	2 583	2 344	126	78	11	37	72	41
Restaurant, cafeteria, and bar managers	1 616	896	174	4	4	166	482	64
School administrators	1 118	450	656	—	62	594	12	—
Other specified managers and administrators	3 955	2 675	1 083	305	126	652	172	25
Managers and administrators, n.e.c., salaried	6 086	5 755	331	50	162	119	—	—
Wholesale and retail trade	1 926	1 902	24	10	5	9	—	—
Managers and administrators, n.e.c., self-employed	1 685	—	—	—	—	—	1 512	173
Wholesale and retail trade	1 022	—	—	—	—	—	929	93
Sales workers	47 758	44 777	335	52	100	183	2 073	573
Demonstrators, hucksters, and peddlers	1 848	1 530	—	—	—	—	309	9
Insurance, real estate agents, and brokers	3 200	2 906	13	—	—	13	254	27
Sales clerks, retail trade	34 726	33 125	130	34	35	61	1 080	391
Salesmen, retail trade	1 590	1 429	6	—	6	—	104	31
Other sales workers	6 394	5 787	186	18	59	109	326	95
Clerical and kindred workers	216 177	179 210	33 946	11 630	5 253	17 063	1 465	1 556
Bank tellers	5 372	5 160	212	155	14	43	—	—
Bookkeepers	23 342	20 669	1 699	391	234	1 074	493	481
Cashiers	16 922	16 010	654	45	104	505	141	117
Counter clerks, except food	3 978	3 781	112	19	14	79	50	35
Enumerators and interviewers	573	290	267	185	33	49	10	6
File clerks	6 702	5 697	990	349	222	419	—	15
Office machine operators	10 975	9 803	1 164	540	194	430	8	—
Bookkeeping and billing machine operators	1 337	1 207	130	46	40	44	—	—
Keypunch operators	6 415	5 736	679	302	101	276	—	—
Payroll and timekeeping clerks	2 446	2 101	345	125	30	190	—	—
Receptionists	6 646	6 132	411	44	144	223	30	73
Secretaries	52 439	44 340	7 414	1 310	1 334	4 770	261	424
Stenographers	2 958	2 001	922	229	127	566	24	11
Telephone operators	8 024	7 380	623	95	175	353	11	10
Typists	23 098	17 408	5 491	1 433	1 123	2 935	142	57
Other clerical and kindred workers	52 702	38 438	13 642	6 710	1 505	5 427	295	327
Craftsman and kindred workers	8 814	7 919	456	28	74	354	368	71
Foremen, n.e.c.	1 962	1 868	79	5	24	50	15	—
Operatives, except transport	59 594	57 758	985	271	184	530	686	165
Assemblers	9 914	9 787	108	31	24	53	15	4
Bottling and conning operatives	1 136	136	—	—	—	—	—	—
Checkers, examiners, and inspectors; manufacturing	4 639	4 600	39	10	5	24	—	—
Dressmakers and seamstresses, except factory	1 682	1 367	19	—	15	4	276	20
Laundry and drycleaning operatives, including ironers	4 457	4 112	242	46	50	146	62	41
Graders and sorters, manufacturing	67	67	—	—	—	—	—	—
Packers and wrappers, except produce	5 658	5 587	61	28	5	28	10	—
Sewers and stitchers	5 071	4 850	98	11	30	57	110	13
Textile operatives	97	97	—	—	—	—	—	—
Other specified operatives	15 843	15 397	226	74	17	135	164	56
Miscellaneous and not specified operatives	12 030	11 758	192	71	38	83	49	31
Manufacturing	10 516	10 381	103	44	9	50	21	11
Durable goods	6 407	6 332	55	22	9	24	15	5
Machinery, including electrical	1 565	1 556	4	—	4	—	5	—
Other durable goods	4 842	4 776	51	22	5	24	10	5
Nondurable goods, including not specified manufacturing	4 109	4 049	48	22	—	26	6	6
Food and kindred products	421	412	6	—	—	—	3	—
Apparel and other fabricated textile products	278	269	9	—	—	—	—	—
Nonmanufacturing industries	1 514	1 377	89	27	29	33	28	20
Transport equipment operatives	2 897	1 513	1 314	39	162	1 113	64	6
Laborers, except farm	5 389	4 689	452	282	32	138	144	54
Farmers and farm managers	343	25	—	—	—	—	318	—
Farm laborers and farm foremen	561	460	30	5	10	15	—	71
Paid farm laborers and farm foremen	490	460	30	5	10	15	—	—
Unpaid family workers	71	—	—	—	—	—	—	71
Service workers, except private household¹	100 912	82 597	14 285	834	2 473	10 978	3 554	476
Cleaning service workers	13 420	10 859	2 357	195	360	1 802	135	69
Chambermaids and maids	2 586	2 326	231	16	59	156	19	10
Food service workers	39 037	34 342	3 680	168	693	2 819	746	269
Cooks, except private household	8 074	6 318	1 342	56	263	1 023	323	91
Waiters and food counter workers	22 993	21 998	593	42	149	402	271	131
Health service workers	24 521	21 135	3 246	259	864	2 123	96	44
Nursing aides, orderlies, and attendants	12 927	11 230	1 645	183	473	989	31	21
Practical nurses	5 026	3 817	1 144	27	317	800	65	—
Personal service workers	13 985	8 938	2 683	85	289	2 309	2 316	48
Hairdressers and cosmetologists	7 566	5 527	21	—	12	9	1 996	22
Private household workers	14 510	14 429	21	5	—	16	55	5
Private household workers, living in	1 339	1 339	—	—	—	—	—	—
Private household workers, living out	13 171	13 090	21	5	—	16	55	5

¹Includes protective service workers and allocated cases not shown separately.

Table 173. Occupation of Employed Persons by Class of Worker, 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

DETROIT SMSA—Continued

Negro

	Total employed	Private wage and salary workers	Government workers				Self-employed workers	Unpaid family workers
			Total	Federal	State	Local		
Male, 16 years old and over	149 610	125 573	19 886	5 648	1 991	12 247	4 053	98
Professional, technical, and kindred workers	7 667	3 879	3 248	497	623	2 128	540	—
Accountants	398	222	144	77	38	29	32	—
Architects	42	32	—	—	—	—	10	—
Computer specialists	205	150	55	35	8	12	—	—
Engineers	522	401	106	62	8	36	15	—
Aeronautical and astronautical	—	—	—	—	—	—	—	—
Civil	88	56	27	5	—	—	5	—
Electrical and electronic	103	94	9	5	—	4	—	—
Mechanical	119	85	34	29	—	5	—	—
Other engineers	212	166	10	23	8	5	10	—
Lawyers and judges	164	37	51	16	11	24	76	—
Life and physical scientists	140	85	44	18	6	20	11	—
Chemists	124	80	39	18	6	15	5	—
Physicians, dentists, and related practitioners	437	207	34	14	—	20	196	—
Dentists	106	43	7	—	—	7	56	—
Pharmacists	128	88	15	10	—	5	25	—
Physicians, medical and osteopathic	199	76	12	4	—	8	111	—
Other related practitioners	4	—	—	—	—	—	4	—
Health technologists and technicians	261	178	74	6	19	49	9	—
Religious workers	283	242	—	—	—	—	—	41
Social scientists	107	45	58	7	8	43	4	—
Social and recreation workers	503	110	393	19	110	264	—	—
Teachers	1 722	282	1 429	34	158	1 237	11	—
College and university	72	22	50	—	45	5	—	—
Elementary and prekindergarten	653	58	595	23	55	517	—	—
Secondary	907	129	778	5	58	715	—	—
Engineering and science technicians	690	576	114	50	13	51	—	—
Draftsmen and surveyors	361	310	51	9	5	37	—	—
Electrical and electronic engineering technicians	102	82	20	20	—	—	—	—
Technicians, except health, and engineering and science	79	29	50	38	—	12	—	—
Airplane pilots	—	—	—	—	—	—	—	—
Writers, artists, and entertainers	615	446	67	21	19	27	102	—
Other professional, technical, and kindred workers	1 499	837	629	100	225	304	33	—
Managers and administrators, except farm	4 109	2 409	913	211	135	567	782	5
Buyers, purchasing agents, and sales managers	333	298	23	17	—	6	12	—
School administrators	231	48	183	—	28	155	—	—
Specified managers and administrators, public administration	472	—	472	145	59	268	—	—
Other specified managers and administrators	1 057	802	99	22	21	56	156	—
Managers and administrators, n.e.c., salaried	1 397	1 261	136	27	27	82	—	—
Manufacturing	192	188	4	4	—	—	—	—
Wholesale and retail trade	471	466	5	—	5	—	—	—
Transportation, communications and other public utilities	93	93	—	—	—	—	—	—
All other industries	641	514	127	23	22	82	—	—
Managers and administrators, n.e.c., self-employed	619	—	—	—	—	—	614	5
Construction	128	—	—	—	—	—	128	—
Manufacturing	15	—	—	—	—	—	15	—
Wholesale and retail trade	262	—	—	—	—	—	257	5
All other industries	214	—	—	—	—	—	214	—
Sales workers	3 172	2 773	48	26	4	18	333	18
Insurance agents, brokers, and underwriters	506	464	19	10	—	9	23	—
Real estate agents and brokers	238	170	—	—	—	—	68	—
Sales representatives, manufacturing industries	168	162	—	—	—	—	6	—
Sales representatives, wholesale trade	312	295	—	—	—	—	17	—
Sales clerks, retail trade	1 033	912	4	—	4	—	107	10
Salesmen, retail trade	303	272	—	—	—	—	23	8
Salesmen of services and construction	93	71	17	12	—	5	5	—
Other sales workers	519	427	8	4	—	4	84	—
Clerical and kindred workers	10 282	6 276	3 908	2 841	137	930	84	14
Bank tellers and cashiers	203	184	19	—	11	8	—	—
Bookkeepers and billing clerks	389	279	87	17	5	65	23	—
Mail handlers and postal clerks	2 339	189	2 145	2 117	10	18	5	—
Other clerical and kindred workers	7 351	5 624	1 657	707	111	839	56	14
Craftsmen and kindred workers	22 697	19 687	1 913	468	170	1 275	1 097	—
Apparel craftsmen and upholsterers	203	178	5	—	—	5	20	—
Bakers	238	231	7	—	—	7	—	—
Cabinetmakers	39	25	6	—	—	6	8	—
Construction craftsmen	4 459	3 506	354	41	23	290	599	—
Carpenters	574	428	32	6	—	26	114	—
Excavating, grading, and road machine operators	423	303	110	12	5	93	10	—
Electricians	628	548	52	15	—	37	28	—
Masons and tile setters	654	572	37	—	15	22	45	—
Painters, construction and maintenance, and paperhangers	1 027	715	23	3	—	20	289	—
Plasterers and cement finishers	506	374	60	5	—	55	72	—
Plumbers and pipe fitters	489	408	40	—	3	37	41	—
Other construction craftsmen	158	158	—	—	—	—	—	—
Foremen, n.e.c.	2 497	2 244	253	77	15	161	—	—
Manufacturing	1 757	1 711	46	10	10	26	—	—
Nonmanufacturing industries	740	533	207	67	5	135	—	—
Linemen and servicemen, telephone and power	495	465	30	4	10	16	—	—
Locomotive engineers and firemen	35	35	—	—	—	—	—	—
Mechanics and repairmen	6 048	5 131	675	208	40	427	242	—
Air conditioning, heating, and refrigeration	143	109	24	20	—	4	10	—
Aircraft	34	15	19	5	—	14	—	—
Automobile, including body	3 434	3 033	254	74	14	166	147	—
Radio and television	196	111	20	4	6	10	65	—
Other mechanics and repairmen	2 241	1 863	358	105	20	233	20	—
Metal craftsmen, except mechanics	3 638	3 533	85	39	6	40	20	—
Machinists and job and die setters	1 621	1 570	41	13	—	28	10	—
Sheetmetal workers and tinsmiths	130	108	17	12	—	5	5	—
Tool and die makers	421	409	12	5	—	7	—	—
Other metal craftsmen	1 466	1 446	15	9	6	—	5	—
Printing craftsmen	290	264	19	14	—	5	7	—
Compositors and typesetters	114	104	5	5	—	—	5	—
Pressmen and plate printers, printing	144	128	14	9	—	5	2	—
Stationary engineers and power station operators	360	202	158	6	20	132	—	—
Other craftsmen and kindred workers	4 395	3 873	321	79	56	186	201	—

Table 173. Occupation of Employed Persons by Class of Worker, 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

DETROIT SMSA—Continued

Negro—Continued

Male, 16 years old and over—Continued

	Total employed	Private wage and salary workers	Government workers				Self-employed workers	Unpaid family workers
			Total	Federal	State	Local		
Operatives, except transport	57 018	55 219	1 608	445	169	994	177	14
Assemblers.....	12 914	12 623	279	91	43	145	12	—
Checkers, examiners, and inspectors; manufacturing	3 244	3 182	46	13	5	28	16	—
Garage workers and gas station attendants.....	998	916	48	16	—	32	26	8
Laundry and drycleaning operatives, n.e.c.....	558	488	43	5	19	19	27	—
Meat cutters and butchers.....	604	589	15	10	—	5	—	—
Mine operatives, n.e.c.....	45	45	—	—	—	—	—	—
Packers and wrappers, except produce.....	761	732	26	5	6	15	3	—
Painters, manufactured articles.....	1 289	1 268	21	10	5	6	—	—
Precision machine operatives.....	2 621	2 562	59	33	4	22	—	—
Sawyers.....	60	60	—	—	—	—	—	—
Stationary firemen.....	494	204	290	21	11	258	—	—
Textile operatives.....	19	19	—	—	—	—	—	—
Welders and flamecutters.....	5 927	5 831	87	20	9	58	9	—
Other metalworking operatives.....	6 614	6 532	71	25	9	37	11	—
Other specified operatives.....	9 040	8 691	308	102	16	190	41	—
Miscellaneous and not specified operatives.....	11 830	11 477	315	94	42	179	32	6
Occupation:								
Machine operatives, miscellaneous specified.....	4 181	4 080	90	29	5	56	11	—
Machine operatives, not specified.....	4 206	4 091	104	39	15	50	5	6
Miscellaneous operatives.....	2 159	2 074	80	21	12	47	5	—
Not specified operatives.....	1 284	1 232	41	5	10	26	11	—
Industry:								
Manufacturing.....	10 857	10 621	203	56	37	110	27	6
Durable goods.....	9 490	9 281	176	44	37	95	27	6
Wood products, including furniture.....	78	78	—	—	—	—	—	—
Primary metal industries.....	950	927	18	—	6	12	5	—
Fabricated metal industries.....	523	502	21	—	5	16	—	—
Machinery, including electrical.....	715	695	14	—	8	6	—	6
Motor vehicles and equipment.....	6 796	6 662	112	33	18	61	22	—
Transportation equipment, except motor vehicles.....	16	16	—	—	—	—	—	—
Other durable goods.....	412	401	11	11	—	—	—	—
Nondurable goods.....	1 263	1 247	16	6	—	10	—	—
Food and kindred products.....	330	326	4	—	—	4	—	—
Apparel and other fabricated textile products.....	43	43	—	—	—	—	—	—
Paper and allied products.....	115	115	—	—	—	—	—	—
Chemicals and allied products.....	198	198	—	—	—	—	—	—
Other nondurable goods.....	577	565	12	6	—	6	—	—
Not specified manufacturing industries.....	104	93	11	6	—	5	—	—
Nonmanufacturing industries.....	973	856	112	38	5	69	5	—
Transportation, communications, and other public utilities.....	142	115	27	—	—	27	—	—
Wholesale and retail trade.....	453	448	5	—	—	5	—	—
All other industries.....	378	293	80	38	5	37	5	—
Transport equipment operatives	11 533	9 549	1 797	202	55	1 540	180	7
Bus drivers.....	1 010	249	756	6	5	745	5	—
Taxicab drivers and chauffeurs.....	962	862	79	10	10	59	21	—
Truck drivers and deliverymen.....	5 344	4 453	758	127	20	611	126	7
Other transport equipment operatives.....	4 217	3 985	204	59	20	125	28	—
Laborers, except farm	15 028	12 482	2 311	468	138	1 705	220	15
Construction laborers.....	2 085	1 784	296	10	13	273	5	—
Freight, stock, and material handlers.....	5 889	4 687	1 148	349	35	764	50	4
Other specified laborers.....	3 605	3 026	457	92	63	302	122	—
Miscellaneous and not specified laborers.....	3 449	2 985	410	17	27	366	43	11
Occupation:								
Miscellaneous laborers.....	1 248	1 033	184	7	4	173	25	6
Not specified laborers.....	2 201	1 952	226	10	23	193	18	5
Industry:								
Manufacturing.....	2 369	2 325	35	7	11	17	9	—
Durable goods.....	2 118	2 081	28	—	11	17	9	—
Wood products, including furniture.....	16	16	—	—	—	—	—	—
Metal industries.....	563	554	4	—	—	4	5	—
Machinery, including electrical.....	95	95	—	—	—	—	—	—
Transportation equipment.....	1 338	1 317	21	—	11	10	—	—
Other durable goods.....	106	99	3	—	—	3	4	—
Nondurable goods.....	219	212	7	7	—	—	—	—
Food and kindred products.....	116	109	7	7	—	—	—	—
Not specified manufacturing industries.....	32	32	—	—	—	—	—	—
Nonmanufacturing industries.....	1 080	660	375	10	16	349	34	11
Railroads and railway express service.....	81	73	8	—	—	8	—	—
Transportation, except railroads.....	39	34	5	5	—	—	—	—
Communications, and utilities and sanitary services.....	249	42	207	—	4	203	—	—
Wholesale and retail trade.....	337	295	—	—	—	—	31	11
All other industries.....	374	216	155	5	12	138	3	—
Farmers and farm managers	106	6	10	10	—	—	90	—
Farm laborers and farm foremen	311	236	40	4	7	29	10	25
Paid farm laborers and farm foremen.....	286	236	40	4	7	29	10	—
Unpaid family workers.....	25	—	—	—	—	—	—	25
Service workers, except private household¹	17 490	12 865	4 090	476	553	3 061	535	—
Cleaning service workers.....	9 290	7 302	1 849	196	241	1 412	139	—
Food service workers.....	1 803	1 542	189	24	17	148	72	—
Cooks, except private household.....	533	416	86	19	17	50	31	—
Busboys and dishwashers.....	484	466	11	5	—	6	7	—
Health service workers.....	964	529	435	73	164	198	—	—
Personal service workers.....	1 294	865	179	10	20	149	250	—
Protective service workers.....	2 208	1 089	1 103	78	47	978	16	—
Firemen, fire protection.....	95	6	89	—	—	89	—	—
Guards and watchmen.....	1 344	1 033	295	70	35	190	16	—
Policemen and detectives.....	720	50	670	8	12	650	—	—
Private household workers	197	192	—	—	—	—	5	—

¹Includes allocated cases not shown separately.

Table 173. Occupation of Employed Persons by Class of Worker, 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

DETROIT SMSA—Continued

Negro—Continued

Female, 16 years old and over

	Total employed	Private wage and salary workers	Government workers			Self-employed workers	Unpaid family workers	
			Total	Federal	State			Local
Female, 16 years old and over	104 729	77 196	25 627	7 202	4 310	14 115	1 711	195
Professional, technical, and kindred workers	12 006	4 685	7 204	764	1 162	5 278	117	—
Accountants	534	250	278	226	11	41	6	—
Computer specialists	140	57	83	78	5	—	—	—
Librarians	113	32	81	4	4	73	—	—
Mathematical specialists	23	5	18	5	13	—	—	—
Life and physical scientists	39	21	12	—	4	8	6	—
Registered nurses, dietitians, and therapists	2 399	1 587	787	108	252	427	25	—
Dietitians	291	241	50	3	5	42	—	—
Registered nurses	1 939	1 234	680	105	221	354	25	—
Health technologists and technicians	876	697	179	46	36	97	—	—
Social scientists	62	39	19	—	9	10	4	—
Social and recreation workers	1 035	197	831	31	285	515	7	—
Teachers: College and university	70	15	55	5	29	21	—	—
Elementary and prekindergarten	3 543	572	2 971	73	160	2 738	—	—
Secondary	1 070	163	907	10	80	817	—	—
Other teachers	134	81	39	5	13	21	14	—
Engineering and science technicians	102	72	30	20	5	5	—	—
Technicians, except health, and engineering and science	47	18	29	23	—	6	—	—
Writers, artists, and entertainers	275	206	65	15	16	34	4	—
Actors and dancers	23	17	6	—	—	6	—	—
Authors, editors, and reporters	52	48	4	—	4	—	—	—
Other professional, technical, and kindred workers	1 544	673	820	115	240	465	51	—
Managers and administrators, except farm	1 939	1 161	508	121	87	300	252	18
Buyers, purchasing agents, and sales managers	203	166	33	31	—	2	4	—
Restaurant, cafeteria, and bar managers	204	116	18	4	4	10	65	5
School administrators	124	32	92	—	5	87	—	—
Other specified managers and administrators	788	480	294	86	34	174	14	—
Managers and administrators, n.e.c., salaried	438	367	71	—	44	27	—	—
Wholesale and retail trade	135	121	14	—	5	9	—	—
Managers and administrators, n.e.c., self-employed	182	—	—	—	—	—	169	13
Wholesale and retail trade	128	—	—	—	—	—	119	9
Sales workers	4 157	3 904	102	14	23	65	106	45
Demonstrators, hucksters, and peddlers	97	83	—	—	—	—	14	—
Insurance, real estate agents, and brokers	245	241	—	—	—	—	4	—
Sales clerks, retail trade	2 986	2 825	55	14	17	24	74	32
Salesmen, retail trade	99	93	6	—	6	—	—	—
Other sales workers	730	662	41	—	—	41	14	13
Clerical and kindred workers	31 799	20 399	11 245	5 335	1 713	4 197	103	52
Bank tellers	485	432	53	36	7	10	—	—
Bookkeepers	1 756	1 383	335	134	61	140	26	12
Cashiers	2 133	1 946	170	12	42	116	8	9
Counter clerks, except food	639	593	46	16	5	25	—	—
Enumerators and interviewers	167	49	118	75	19	24	—	—
File clerks	1 305	858	447	208	77	162	—	—
Office machine operators	2 285	1 726	559	352	79	128	—	—
Bookkeeping and billing machine operators	235	195	40	15	17	8	—	—
Key punch operators	1 472	1 121	351	199	49	103	—	—
Payroll and timekeeping clerks	242	109	133	96	4	33	—	—
Receptionists	727	609	118	14	60	44	—	—
Secretaries	3 543	2 434	1 100	306	213	581	9	—
Stenographers	375	375	147	—	18	152	—	—
Telephone operators	1 862	1 643	215	28	54	133	—	4
Typists	4 124	2 189	1 923	598	421	904	12	—
Other clerical and kindred workers	12 156	6 261	5 820	3 422	653	1 745	48	27
Craftsmen and kindred workers	1 435	1 276	100	10	26	64	53	6
Foremen, n.e.c.	223	182	31	—	10	21	10	—
Operatives, except transport	14 261	13 628	473	156	101	216	129	31
Assemblers	2 093	2 052	41	12	10	19	—	—
Bottling and canning operatives	20	20	—	—	—	—	—	—
Checkers, examiners, and inspectors; manufacturing	571	562	9	5	—	4	—	—
Dressmakers and seamstresses, except factory	301	237	11	—	11	—	53	—
Laundry and drycleaning operatives, including ironers	2 847	2 694	143	40	33	70	10	—
Graders and sorters, manufacturing	21	21	—	—	—	—	—	—
Packers and wrappers, except produce	984	943	36	17	5	14	5	—
Sewers and sitchers	1 062	1 007	46	5	20	21	9	—
Textile operatives	35	35	—	—	—	—	—	—
Other specified operatives	3 699	3 524	108	35	13	60	41	26
Miscellaneous and not specified operatives	2 628	2 533	79	42	9	28	11	5
Manufacturing	2 189	2 126	50	22	9	19	8	5
Durable goods	1 418	1 374	34	16	9	9	5	5
Machinery, including electrical	188	184	4	—	4	—	—	—
Other durable goods	1 230	1 190	30	16	5	9	5	5
Nondurable goods, including not specified manufacturing	771	752	16	6	—	10	3	—
Food and kindred products	64	64	—	—	—	—	—	—
Apparel and other fabricated textile products	96	92	4	—	—	4	—	—
Nonmanufacturing industries	439	407	29	20	—	9	3	—
Transport equipment operatives	341	247	89	12	12	65	5	—
Laborers, except farm	1 703	1 352	322	223	21	78	20	9
Farmers and farm managers	128	—	—	—	—	—	128	—
Farm laborers and farm foremen	212	193	15	—	5	10	—	4
Paid farm laborers and farm foremen	208	193	15	—	5	10	—	—
Unpaid family workers	4	—	—	—	—	—	—	4
Service workers, except private household¹	28 119	21 772	5 548	562	1 160	3 826	769	30
Cleaning service workers	5 565	4 389	1 142	138	198	806	28	6
Chambermaids and maids	1 372	1 261	107	5	27	75	4	—
Food service workers	6 569	5 556	948	86	211	651	65	—
Cooks, except private household	2 249	1 969	241	23	89	129	39	—
Waiters and food counter workers	2 141	1 966	154	19	26	109	21	—
Health service workers	9 934	7 971	1 926	220	489	1 217	32	5
Nursing aides, orderlies, and attendants	6 603	5 521	1 056	164	276	616	21	5
Practical nurses	2 127	1 455	661	27	169	465	11	—
Personal service workers	2 613	1 406	663	34	129	500	539	5
Hairdressers and cosmetologists	995	522	12	—	7	5	456	5
Private household workers	8 629	8 579	21	5	—	16	29	—
Private household workers, living in	283	283	—	—	—	—	—	—
Private household workers, living out	8 346	8 296	21	5	—	16	29	—

¹Includes protective service workers and allocated cases not shown separately.

Table 173. Occupation of Employed Persons by Class of Worker, 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

DETROIT SMSA—Continued

Persons of Spanish Language

	Total employed	Private wage and salary workers	Government workers				Self-employed workers	Unpaid family workers
			Total	Federal	State	Local		
Male, 16 years old and over	12 527	11 035	939	275	101	563	525	28
Professional, technical, and kindred workers	1 623	1 227	265	65	43	157	131	—
Accountants	82	75	7	7	—	—	—	—
Architects	21	21	—	—	—	—	—	—
Computer specialists	37	30	7	7	—	—	—	—
Engineers	299	278	21	14	7	—	—	—
Aeronautical and astronautical	—	—	—	—	—	—	—	—
Civil	21	8	13	6	7	—	—	—
Electrical and electronic	40	40	—	—	—	—	—	—
Mechanical	87	87	—	—	—	—	—	—
Other engineers	151	143	8	8	—	—	—	—
Lawyers and judges	14	—	5	5	—	—	9	—
Life and physical scientists	11	11	—	—	—	—	—	—
Chemists	6	6	—	—	—	—	—	—
Physicians, dentists, and related practitioners	352	207	42	7	8	27	103	—
Dentists	7	—	—	—	—	—	7	—
Pharmacists	19	12	—	—	—	—	7	—
Physicians, medical and osteopathic	305	180	42	7	8	27	83	—
Other related practitioners	21	15	—	—	—	—	6	—
Health technologists and technicians	26	26	—	—	—	—	—	—
Religious workers	8	8	—	—	—	—	—	—
Social scientists	21	7	14	—	—	14	—	—
Social and recreation workers	11	—	11	—	6	5	—	—
Teachers	155	62	93	9	—	84	—	—
College and university	36	27	9	—	—	9	—	—
Elementary and prekindergarten	43	7	36	—	—	36	—	—
Secondary	46	7	39	—	—	39	—	—
Engineering and science technicians	242	225	11	7	—	4	6	—
Draftsmen and surveyors	178	168	4	—	—	4	6	—
Electrical and electronic engineering technicians	15	8	7	7	—	—	—	—
Technicians, except health, and engineering and science	7	7	—	—	—	—	—	—
Airplane pilots	7	7	—	—	—	—	—	—
Writers, artists, and entertainers	187	160	14	—	—	14	13	—
Other professional, technical, and kindred workers	150	110	40	9	22	9	—	—
Managers and administrators, except farm	731	534	33	14	8	11	154	10
Buyers, purchasing agents, and sales managers	78	78	—	—	—	—	—	—
School administrators	5	5	—	—	—	—	—	—
Specified managers and administrators, public administration	25	—	25	14	—	11	—	—
Other specified managers and administrators	177	145	—	—	—	—	32	—
Managers and administrators, n.e.c., salaried	314	306	8	—	8	—	—	—
Manufacturing	104	104	—	—	—	—	—	—
Wholesale and retail trade	89	81	8	—	8	—	—	—
Transportation, communications and other public utilities	37	37	—	—	—	—	—	—
All other industries	84	84	—	—	—	—	—	—
Managers and administrators, n.e.c., self-employed	132	—	—	—	—	—	122	10
Construction	—	—	—	—	—	—	—	—
Manufacturing	25	—	—	—	—	—	25	—
Wholesale and retail trade	86	—	—	—	—	—	76	10
All other industries	21	—	—	—	—	—	21	—
Sales workers	548	449	11	—	—	11	88	—
Insurance agents, brokers, and underwriters	74	61	—	—	—	—	13	—
Real estate agents and brokers	36	19	11	—	—	11	6	—
Sales representatives, manufacturing industries	82	75	—	—	—	—	7	—
Sales representatives, wholesale trade	104	67	—	—	—	—	37	—
Sales clerks, retail trade	112	94	—	—	—	—	18	—
Salesmen, retail trade	58	51	—	—	—	—	7	—
Salesmen of services and construction	24	24	—	—	—	—	—	—
Other sales workers	58	58	—	—	—	—	—	—
Clerical and kindred workers	886	724	156	90	7	59	6	—
Bank tellers and cashiers	39	39	—	—	—	—	—	—
Bookkeepers and billing clerks	17	17	—	—	—	—	—	—
Mail handlers and postal clerks	41	5	36	36	—	—	—	—
Other clerical and kindred workers	789	663	120	54	7	59	6	—
Craftsmen and kindred workers	2 665	2 483	106	37	—	69	69	7
Apparel craftsmen and upholsterers	18	18	—	—	—	—	—	—
Bakers	19	9	—	—	—	—	10	—
Cabinetmakers	8	8	—	—	—	—	—	—
Construction craftsmen	444	406	19	—	—	19	19	—
Carpenters	91	79	6	—	—	6	6	—
Excavating, grading, and road machine operators	46	39	7	—	—	7	—	—
Electricians	88	88	—	—	—	—	—	—
Masons and tile setters	24	24	—	—	—	—	—	—
Painters, construction and maintenance, and paperhangers	62	43	6	—	—	6	13	—
Plasterers and cement finishers	5	5	—	—	—	—	—	—
Plumbers and pipe fitters	93	93	—	—	—	—	—	—
Other construction craftsmen	35	35	—	—	—	—	—	—
Foremen, n.e.c.	353	353	—	—	—	—	—	—
Manufacturing	206	206	—	—	—	—	—	—
Nonmanufacturing industries	147	147	—	—	—	—	—	—
Linemen and servicemen, telephone and power	96	89	7	—	—	7	—	—
Locomotive engineers and firemen	7	7	—	—	—	—	—	—
Mechanics and repairmen	694	615	47	37	—	10	25	7
Air conditioning, heating, and refrigeration	6	6	—	—	—	—	—	—
Aircraft	19	19	—	—	—	—	—	—
Automobile, including body	292	275	5	5	—	—	12	—
Radio and television	63	40	10	10	—	—	13	—
Other mechanics and repairmen	314	275	32	22	—	10	—	7
Metal craftsmen, except mechanics	560	553	7	—	—	7	—	—
Machinists and job and die setters	108	108	—	—	—	—	—	—
Sheetmetal workers and tinsmiths	36	36	—	—	—	—	—	—
Tool and die makers	223	223	—	—	—	—	—	—
Other metal craftsmen	193	186	7	—	—	7	—	—
Printing craftsmen	79	71	—	—	—	—	8	—
Compositors and typesetters	40	40	—	—	—	—	—	—
Pressmen and plate printers, printing	39	31	—	—	—	—	8	—
Stationary engineers and power station operators	38	32	6	—	—	—	—	—
Other craftsmen and kindred workers	349	322	20	—	—	20	7	—

Table 173. Occupation of Employed Persons by Class of Worker, 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	Total employed	Private wage and salary workers	Government workers				Self-employed workers	Unpaid family workers
			Total	Federal	State	Local		
DETROIT SMSA—Continued								
Persons of Spanish Language—Continued								
Male, 16 years old and over—Continued								
Operatives, except transport	3 346	3 259	72	35	8	29	15	—
Assemblers	765	737	28	21	—	7	—	—
Checkers, examiners, and inspectors, manufacturing	137	137	—	—	—	—	—	—
Garage workers and gas station attendants	53	46	—	—	—	—	7	—
Laundry and drycleaning operatives, n.e.c.	28	20	—	—	—	—	—	8
Meat cutters and butchers	62	62	—	—	—	—	—	—
Mine operatives, n.e.c.	20	20	—	—	—	—	—	—
Packers and wrappers, except produce	60	60	—	—	—	—	—	—
Painters, manufactured articles	102	102	—	—	—	—	—	—
Precision machine operatives	301	301	—	—	—	—	—	—
Sawyers	5	5	—	—	—	—	—	—
Stationary firemen	28	23	5	—	—	5	—	—
Textile operatives	—	—	—	—	—	—	—	—
Welders and flamecutters	316	316	—	—	—	—	—	—
Other metalworking operatives	302	291	11	—	—	11	—	—
Other specified operatives	289	289	—	—	—	—	—	—
Miscellaneous and not specified operatives	878	850	28	14	8	6	—	—
Occupation:								
Machine operatives, miscellaneous specified	287	281	6	—	—	6	—	—
Machine operatives, not specified	258	236	22	14	8	—	—	—
Miscellaneous operatives	196	196	—	—	—	—	—	—
Not specified operatives	137	137	—	—	—	—	—	—
Industry:								
Manufacturing	768	754	14	—	8	6	—	—
Durable goods	631	623	8	—	8	—	—	—
Wood products, including furniture	4	4	—	—	—	—	—	—
Primary metal industries	172	172	—	—	—	—	—	—
Fabricated metal industries	62	62	—	—	—	—	—	—
Machinery, including electrical	53	53	—	—	—	—	—	—
Motor vehicles and equipment	313	305	8	—	8	—	—	—
Transportation equipment, except motor vehicles	—	—	—	—	—	—	—	—
Other durable goods	27	27	—	—	—	—	—	—
Nondurable goods	133	127	6	—	—	6	—	—
Food and kindred products	58	52	6	—	—	6	—	—
Apparel and other fabricated textile products	5	5	—	—	—	—	—	—
Paper and allied products	10	10	—	—	—	—	—	—
Chemicals and allied products	26	26	—	—	—	—	—	—
Other nondurable goods	34	34	—	—	—	—	—	—
Not specified manufacturing industries	4	4	—	—	—	—	—	—
Nonmanufacturing industries	110	96	14	14	—	—	—	—
Transportation, communications, and other public utilities	36	36	—	—	—	—	—	—
Wholesale and retail trade	47	47	—	—	—	—	—	—
All other industries	27	13	14	14	—	—	—	—
Transport equipment operatives	713	649	46	16	12	18	18	—
Bus drivers	18	—	18	—	—	18	—	—
Taxicab drivers and chauffeurs	35	35	—	—	—	—	—	—
Truck drivers and deliverymen	433	397	18	11	7	—	18	—
Other transport equipment operatives	227	217	10	5	5	—	—	—
Laborers, except farm	1 027	940	67	7	11	49	14	6
Construction laborers	128	112	16	—	—	16	—	—
Freight, stock, and material handlers	428	401	21	—	—	21	—	6
Other specified laborers	90	76	—	—	—	—	14	—
Miscellaneous and not specified laborers	381	351	30	7	11	12	—	—
Occupation:								
Miscellaneous laborers	162	145	17	—	11	6	—	—
Not specified laborers	219	206	13	7	—	6	—	—
Industry:								
Manufacturing	286	274	12	—	—	12	—	—
Durable goods	251	245	6	—	—	6	—	—
Wood products, including furniture	—	—	—	—	—	—	—	—
Metal industries	168	168	—	—	—	—	—	—
Machinery, including electrical	—	—	—	—	—	—	—	—
Transportation equipment	78	72	6	—	—	6	—	—
Other durable goods	5	5	—	—	—	—	—	—
Nondurable goods	35	29	6	—	—	6	—	—
Food and kindred products	6	6	—	—	—	6	—	—
Not specified manufacturing industries	—	—	—	—	—	—	—	—
Nonmanufacturing industries	95	77	18	7	11	—	—	—
Railroads and railway express service	59	48	11	—	11	—	—	—
Transportation, except railroads	—	—	—	—	—	—	—	—
Communications, and utilities and sanitary services	—	—	—	—	—	—	—	—
Wholesale and retail trade	25	18	7	7	—	—	—	—
All other industries	11	11	—	—	—	—	—	—
Farmers and farm managers	—	—	—	—	—	—	—	—
Farm laborers and farm foremen	41	41	—	—	—	—	—	—
Paid farm laborers and farm foremen	41	41	—	—	—	—	—	—
Unpaid family workers	—	—	—	—	—	—	—	—
Service workers, except private household ¹	941	723	183	11	12	160	30	5
Cleaning service workers	385	342	43	—	—	43	—	—
Food service workers	285	268	11	—	—	11	6	—
Cooks, except private household	94	89	5	—	—	5	—	—
Busboys and dishwashers	61	61	—	—	—	—	—	—
Health service workers	14	6	8	—	—	—	—	—
Personal service workers	77	53	—	—	—	—	24	—
Protective service workers	150	29	121	11	4	106	—	—
Firemen, fire protection	34	—	34	5	—	29	—	—
Guards and watchmen	33	23	10	6	4	—	—	—
Policemen and detectives	83	6	77	—	—	77	—	—
Private household workers	6	6	—	—	—	—	—	—

¹Includes allocated cases not shown separately.

Table 173. Occupation of Employed Persons by Class of Worker, 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

DETROIT SMSA—Continued

Persons of Spanish Language—Continued

	Total employed	Private wage and salary workers	Government workers				Self-employed workers	Unpaid family workers
			Total	Federal	State	Local		
Female, 16 years old and over	5 889	4 873	860	178	150	532	121	35
Professional, technical, and kindred workers	803	437	332	28	50	254	34	—
Accountants	65	45	20	20	—	—	—	—
Computer specialists	—	—	—	—	—	—	—	—
Librarians	14	9	5	—	—	5	—	—
Mathematical specialists	—	—	—	—	—	—	—	—
Life and physical scientists	—	—	—	—	—	—	—	—
Registered nurses, dietitians, and therapists	158	134	24	—	—	24	—	—
Dietitians	6	6	—	—	—	—	—	—
Registered nurses	137	122	15	—	—	15	—	—
Health technologists and technicians	50	35	15	—	—	15	—	—
Social scientists	—	—	—	—	—	—	—	—
Social and recreation workers	47	36	11	—	11	—	—	—
Teachers: College and university	37	—	37	—	32	5	—	—
Elementary and prekindergarten	157	43	114	8	7	99	—	—
Secondary	119	33	86	—	—	86	—	—
Other teachers	29	7	—	—	—	—	22	—
Engineering and science technicians	11	11	—	—	—	—	—	—
Technicians, except health, and engineering and science	—	—	—	—	—	—	—	—
Writers, artists, and entertainers	38	38	—	—	—	—	—	—
Actors and dancers	20	20	—	—	—	—	—	—
Authors, editors, and reporters	—	—	—	—	—	—	—	—
Other professional, technical, and kindred workers	78	46	20	—	—	20	12	—
Managers and administrators, except farm	152	103	21	7	9	5	28	—
Buyers, purchasing agents, and sales managers	9	9	—	—	—	—	—	—
Restaurant, cafeteria, and bar managers	7	7	—	—	—	—	—	—
School administrators	—	—	—	—	—	—	—	—
Other specified managers and administrators	42	30	12	7	—	5	—	—
Managers and administrators, n.e.c., salaried	66	57	9	—	9	—	—	—
Wholesale and retail trade	16	16	—	—	—	—	—	—
Managers and administrators, n.e.c., self-employed	28	—	—	—	—	—	28	—
Wholesale and retail trade	17	—	—	—	—	—	17	—
Sales workers	381	348	10	—	—	10	14	9
Demonstrators, hucksters, and peddlers	7	7	—	—	—	—	—	—
Insurance, real estate agents, and brokers	24	14	10	—	—	10	—	—
Sales clerks, retail trade	275	266	—	—	—	—	—	9
Salesmen, retail trade	—	—	—	—	—	—	—	—
Other sales workers	75	61	—	—	—	—	14	—
Clerical and kindred workers	2 162	1 859	289	107	57	125	7	7
Bank tellers	30	30	—	—	—	—	—	—
Bookkeepers	206	193	6	—	—	6	7	—
Cashiers	155	155	—	—	—	—	—	—
Counter clerks, except food	39	32	—	—	—	—	—	7
Enumerators and interviewers	6	6	—	—	—	—	—	—
File clerks	68	68	—	—	—	—	—	—
Office machine operators	149	124	25	18	—	7	—	—
Bookkeeping and billing machine operators	24	17	7	7	—	—	—	—
Keypunch operators	114	101	13	6	—	7	—	—
Payroll and timekeeping clerks	38	31	7	7	—	—	—	—
Receptionists	95	87	8	8	—	—	—	—
Secretaries	512	480	32	5	—	27	—	—
Stenographers	23	16	7	—	—	7	—	—
Telephone operators	51	42	9	—	9	—	—	—
Typists	253	173	80	35	14	31	—	—
Other clerical and kindred workers	537	422	115	34	34	47	—	—
Craftsman and kindred workers	142	137	5	—	—	5	—	—
Foremen, n.e.c.	26	26	—	—	—	—	—	—
Operatives, except transport	876	862	8	8	—	—	—	6
Assemblers	92	92	—	—	—	—	—	—
Bottling and canning operatives	14	14	—	—	—	—	—	—
Checkers, examiners, and inspectors, manufacturing	38	38	—	—	—	—	—	—
Dressmakers and seamstresses, except factory	34	34	—	—	—	—	—	—
Laundry and drycleaning operatives, including ironers	51	51	—	—	—	—	—	—
Graders and sorters, manufacturing	—	—	—	—	—	—	—	—
Packers and wrappers, except produce	125	117	8	8	—	—	—	—
Sewers and stitchers	137	131	—	—	—	—	—	6
Textile operatives	—	—	—	—	—	—	—	—
Other specified operatives	268	268	—	—	—	—	—	—
Miscellaneous and not specified operatives	117	117	—	—	—	—	—	—
Manufacturing	110	110	—	—	—	—	—	—
Durable goods	49	49	—	—	—	—	—	—
Machinery, including electrical	13	13	—	—	—	—	—	—
Other durable goods	36	36	—	—	—	—	—	—
Nondurable goods, including not specified manufacturing	61	61	—	—	—	—	—	—
Food and kindred products	—	—	—	—	—	—	—	—
Apparel and other fabricated textile products	—	—	—	—	—	—	—	—
Nonmanufacturing industries	7	7	—	—	—	—	—	—
Transport equipment operatives	34	34	—	—	—	—	—	—
Laborers, except farm	33	26	7	7	—	—	—	—
Farmers and farm managers	—	—	—	—	—	—	—	—
Farm laborers and farm foremen	—	—	—	—	—	—	—	—
Paid farm laborers and farm foremen	—	—	—	—	—	—	—	—
Unpaid family workers	—	—	—	—	—	—	—	—
Service workers, except private household ¹	1 214	975	188	21	34	133	38	13
Cleaning service workers	144	138	6	—	6	—	—	—
Chambermaids and maids	31	25	6	—	—	—	—	—
Food service workers	545	478	26	—	8	18	28	13
Cooks, except private household	140	105	6	—	—	6	16	13
Waiters and food counter workers	251	251	—	—	—	—	—	—
Health service workers	207	179	28	7	7	14	—	—
Nursing aides, orderlies, and attendants	124	96	28	7	7	14	—	—
Practical nurses	51	51	—	—	—	—	—	—
Personal service workers	219	134	75	7	—	68	10	—
Hairdressers and cosmetologists	103	93	—	—	—	—	10	—
Private household workers	92	92	—	—	—	—	—	—
Private household workers, living in	7	7	—	—	—	—	—	—
Private household workers, living out	85	85	—	—	—	—	—	—

¹Includes protective service workers and allocated cases not shown separately.

Table 173. Occupation of Employed Persons by Class of Worker, 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

FLINT SMSA

Total

	Total employed	Private wage and salary workers	Government workers			Self-employed workers	Unpaid family workers
			Total	Federal	State			Local
Male, 16 years old and over	117 434	102 177	8 883	1 004	1 324	6 555	162
Professional, technical, and kindred workers	12 081	8 060	3 026	96	502	2 428	991
Accountants	740	593	76	17	25	34	71
Architects	68	35	—	—	—	—	33
Computer specialists	248	230	18	—	—	18	—
Engineers	2 064	1 928	109	23	28	58	27
Aeronautical and astronautical	—	—	—	—	—	—	—
Civil	129	78	46	14	13	19	5
Electrical and electronic	216	206	10	—	—	10	—
Mechanical	765	765	—	—	—	—	—
Other engineers	954	879	53	9	15	29	22
Lawyers and judges	276	49	74	—	15	59	153
Life and physical scientists	187	165	22	11	—	11	—
Chemists	155	150	5	—	—	5	—
Physicians, dentists, and related practitioners	1 121	513	83	—	16	67	521
Dentists	159	31	—	—	—	—	128
Pharmacists	220	145	9	—	5	4	62
Physicians, medical and osteopathic	631	300	74	—	11	63	257
Other related practitioners	111	37	—	—	—	—	74
Health technologists and technicians	163	118	40	—	6	34	5
Religious workers	458	391	—	—	—	—	67
Social scientists	113	53	55	—	14	41	5
Social and recreation workers	225	75	150	12	56	82	—
Teachers	2 648	798	1 841	16	191	1 634	9
College and university	422	216	206	—	83	123	—
Elementary and prekindergarten	678	159	519	16	37	464	—
Secondary	1 464	360	1 104	—	57	1 047	—
Engineering and science technicians	1 615	1 483	112	4	58	50	20
Draftsmen and surveyors	843	765	69	—	24	45	9
Electrical and electronic engineering technicians	69	65	4	—	—	—	—
Technicians, except health, and engineering and science	101	62	39	8	6	25	—
Airplane pilots	12	12	—	—	—	—	—
Writers, artists, and entertainers	638	553	32	—	5	27	53
Other professional, technical, and kindred workers	1 416	1 014	375	5	82	288	27
Managers and administrators, except farm	7 762	5 409	882	135	145	602	1 447
Buyers, purchasing agents, and sales managers	909	855	11	—	—	11	38
School administrators	362	100	262	—	26	236	—
Specified managers and administrators, public administration	441	—	441	117	74	250	—
Other specified managers and administrators	1 340	1 059	38	13	14	11	238
Managers and administrators, n.e.c., salaried	3 525	3 395	130	5	31	94	—
Manufacturing	736	736	—	—	—	—	—
Wholesale and retail trade	1 382	1 377	5	—	5	—	—
Transportation, communications and other public utilities	274	260	14	—	—	14	—
All other industries	1 133	1 022	111	5	26	80	—
Managers and administrators, n.e.c., self-employed	1 185	—	—	—	—	—	1 171
Construction	233	—	—	—	—	—	233
Manufacturing	70	—	—	—	—	—	65
Wholesale and retail trade	666	—	—	—	—	—	661
All other industries	216	—	—	—	—	—	212
Sales workers	5 521	4 889	4	—	—	4	605
Insurance agents, brokers, and underwriters	664	561	—	—	—	—	103
Real estate agents and brokers	434	334	—	—	—	—	100
Sales representatives, manufacturing industries	394	380	—	—	—	—	14
Sales representatives, wholesale trade	846	797	—	—	—	—	49
Sales clerks, retail trade	1 433	1 270	—	—	—	—	140
Salesmen, retail trade	935	872	—	—	—	—	63
Salesmen of services and construction	219	193	—	—	—	—	26
Other sales workers	596	482	4	—	—	4	110
Clerical and kindred workers	6 622	5 794	750	406	51	213	69
Bank tellers and cashiers	284	289	—	—	—	—	5
Bookkeepers and billing clerks	497	454	22	6	5	11	16
Mail handlers and postal clerks	450	53	397	392	—	5	—
Other clerical and kindred workers	5 381	4 998	331	88	46	197	48
Craftsmen and kindred workers	30 787	28 572	981	90	125	764	1 215
Apparel craftsmen and upholsterers	140	113	—	—	—	—	27
Bakers	93	79	—	—	—	—	14
Cabinetmakers	77	62	—	—	—	—	15
Construction craftsmen	5 801	4 883	325	19	19	287	587
Carpenters	1 221	964	30	—	5	25	221
Excavating, grading, and road machine operators	470	225	176	—	4	172	69
Electricians	1 432	1 539	33	6	5	22	60
Masons and tile setters	334	264	—	—	—	—	70
Painters, construction and maintenance, and paperhangers	508	398	30	9	—	21	80
Plasterers and cement finishers	135	86	35	—	5	30	14
Plumbers and pipe fitters	1 189	1 126	21	4	—	17	42
Other construction craftsmen	312	281	—	—	—	—	31
Foremen, n.e.c.	4 924	4 765	127	16	23	88	32
Manufacturing	4 031	4 017	—	—	—	—	14
Nonmanufacturing industries	893	748	127	16	23	88	18
Linemen and servicemen, telephone and power	618	613	5	—	—	5	—
Locomotive engineers and firemen	38	33	5	5	—	—	—
Mechanics and repairmen	6 898	6 431	203	28	20	155	258
Air conditioning, heating, and refrigeration	160	137	5	—	—	5	18
Aircraft	11	11	—	—	—	—	—
Automobile, including body	3 687	3 477	74	19	—	55	130
Radio and television	178	134	—	—	—	—	44
Other mechanics and repairmen	2 862	2 672	124	9	20	95	66
Metal craftsmen, except mechanics	8 522	8 440	33	—	5	28	42
Machinists and job and die setters	2 866	2 847	12	—	—	12	7
Sheetmetal workers and tinsmiths	502	489	5	—	—	5	8
Tool and die makers	3 511	3 492	11	—	5	6	8
Other metal craftsmen	1 643	1 612	5	—	—	5	26
Printing craftsmen	265	246	5	—	—	5	14
Compositors and typesetters	126	121	—	—	—	—	5
Pressmen and plate printers, printing	248	86	50	—	7	43	9
Stationary engineers and power station operators	100	198	—	—	—	—	—
Other craftsmen and kindred workers	3 163	2 709	228	22	51	155	226

Table 173. Occupation of Employed Persons by Class of Worker, 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

FLINT SMSA—Continued

Total—Continued

Male, 16 years old and over—Continued

	Total employed	Private wage and salary workers	Government workers				Self-employed workers	Unpaid family workers
			Total	Federal	State	Local		
Operatives, except transport	31 564	30 886	381	63	115	203	287	10
Assemblers.....	8 530	8 403	101	17	46	38	26	—
Checkers, examiners, and inspectors; manufacturing.....	3 729	3 700	24	5	8	11	—	5
Garage workers and gas station attendants.....	1 017	970	—	—	—	—	47	—
Laundry and drycleaning operatives, n.e.c.....	141	86	27	4	5	18	28	—
Meat cutters and butchers.....	325	308	—	—	—	—	17	—
Mine operatives, n.e.c.....	62	62	—	—	—	—	—	—
Packers and wrappers, except produce.....	372	372	—	—	—	—	—	—
Painters, manufactured articles.....	867	838	20	—	9	11	9	—
Precision machine operatives.....	2 115	2 105	5	—	—	5	5	—
Sawyers.....	61	55	—	—	—	—	6	—
Stationary firemen.....	169	127	42	—	9	33	—	—
Textile operatives.....	27	27	—	—	—	—	—	—
Welders and flamecutters.....	2 488	2 442	18	5	7	6	28	—
Other metalworking operatives.....	3 511	3 487	19	9	—	10	5	—
Other specified operatives.....	2 991	2 841	64	4	15	45	81	5
Miscellaneous and not specified operatives.....	5 159	5 063	61	19	16	26	35	—
Occupation:								
Machine operatives, miscellaneous specified.....	1 434	1 425	9	—	—	9	—	—
Machine operatives, not specified.....	1 978	1 943	22	9	4	9	13	—
Miscellaneous operatives.....	953	919	24	4	12	8	10	—
Not specified operatives.....	794	776	6	6	—	—	12	—
Industry:								
Manufacturing.....	4 890	4 832	29	15	—	14	29	—
Durable goods.....	4 662	4 604	29	15	—	14	29	—
Wood products, including furniture.....	28	28	—	—	—	—	—	—
Primary metal industries.....	94	94	—	—	—	—	—	—
Fabricated metal industries.....	138	138	—	—	—	—	—	—
Machinery, including electrical.....	142	135	—	—	—	—	7	—
Motor vehicles and equipment.....	4 096	4 049	29	15	—	14	18	—
Transportation equipment, except motor vehicles.....	42	42	—	—	—	—	—	—
Other durable goods.....	122	118	—	—	—	—	4	—
Nondurable goods.....	224	224	—	—	—	—	—	—
Food and kindred products.....	43	43	—	—	—	—	—	—
Apparel and other fabricated textile products.....	5	5	—	—	—	—	—	—
Paper and allied products.....	67	67	—	—	—	—	—	—
Chemicals and allied products.....	84	84	—	—	—	—	—	—
Other nondurable goods.....	25	25	—	—	—	—	—	—
Not specified manufacturing industries.....	4	4	—	—	—	—	—	—
Nonmanufacturing industries.....	269	231	32	4	16	12	6	—
Transportation, communications, and other public utilities.....	33	29	4	—	—	4	—	—
Wholesale and retail trade.....	138	138	—	—	—	—	—	—
All other industries.....	98	64	28	4	16	8	6	—
Transport equipment operatives.....	6 542	6 195	188	19	16	153	154	5
Bus drivers.....	86	53	33	—	—	33	—	—
Taxicab drivers and chauffeurs.....	355	333	8	—	8	—	14	—
Truck drivers and deliverymen.....	4 633	4 394	108	7	8	93	126	5
Other transport equipment operatives.....	1 468	1 415	39	12	—	27	14	—
Laborers, except farm.....	6 972	6 500	392	64	36	292	80	—
Construction laborers.....	756	678	78	5	—	73	—	—
Freight, stock, and material handlers.....	3 879	3 796	63	24	8	31	20	—
Other specified laborers.....	1 396	1 175	183	35	20	128	38	—
Miscellaneous and not specified laborers.....	941	851	68	—	8	60	22	—
Occupation:								
Miscellaneous laborers.....	350	285	51	—	—	51	14	—
Not specified laborers.....	591	566	17	—	8	9	8	—
Industry:								
Manufacturing.....	675	648	13	—	4	9	14	—
Durable goods.....	626	599	13	—	4	9	14	—
Wood products, including furniture.....	14	14	—	—	—	—	—	—
Metal industries.....	47	47	—	—	—	—	—	—
Machinery, including electrical.....	14	14	—	—	—	—	—	—
Transportation equipment.....	524	505	13	—	4	9	6	—
Other durable goods.....	27	19	—	—	—	—	8	—
Nondurable goods.....	46	46	—	—	—	—	—	—
Food and kindred products.....	22	22	—	—	—	—	—	—
Not specified manufacturing industries.....	3	3	—	—	—	—	—	—
Nonmanufacturing industries.....	266	203	55	—	4	51	8	—
Railroads and railway express service.....	42	42	—	—	—	—	—	—
Transportation, except railroads.....	11	11	—	—	—	—	—	—
Communications, and utilities and sanitary services.....	59	24	35	—	—	35	—	—
Wholesale and retail trade.....	70	70	—	—	—	—	—	—
All other industries.....	84	56	20	—	4	16	8	—
Farmers and farm managers.....	988	59	—	—	—	—	929	—
Farm laborers and farm foremen.....	656	583	11	—	6	5	—	62
Paid farm laborers and farm foremen.....	594	583	11	—	6	5	—	—
Unpaid family workers.....	62	—	—	—	—	—	—	62
Service workers, except private household ¹	7 910	5 201	2 268	51	328	1 889	435	6
Cleaning service workers.....	3 389	2 711	636	35	61	540	36	6
Food service workers.....	1 102	991	38	—	16	22	73	—
Cooks, except private household.....	479	435	4	—	4	—	40	—
Busboys and dishwashers.....	271	243	17	—	7	10	11	—
Health service workers.....	419	162	257	—	147	110	—	—
Personal service workers.....	738	357	76	—	12	64	305	—
Protective service workers.....	1 815	630	1 174	12	83	1 079	11	—
Firemen, fire protection.....	286	6	280	—	—	280	—	—
Guards and watchmen.....	642	598	33	7	5	21	11	—
Policemen and detectives.....	724	26	698	5	72	621	—	—
Private household workers.....	29	29	—	—	—	—	—	—

¹Includes allocated cases not shown separately.

Table 173. Occupation of Employed Persons by Class of Worker, 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**

FLINT SMSA—Continued

Total—Continued

	Total employed	Private wage and salary workers	Government workers				Self-employed workers	Unpaid family workers
			Total	Federal	State	Local		
Female, 16 years old and over	59 132	44 939	12 061	914	1 953	9 194	1 723	409
Professional, technical, and kindred workers	8 785	3 752	4 768	59	595	4 114	250	15
Accountants	330	273	24	—	—	24	29	4
Computer specialists	51	46	5	—	—	5	—	—
Librarians	145	36	109	—	14	95	—	—
Mathematical specialists	5	5	—	—	—	—	—	—
Life and physical scientists	17	17	—	—	—	—	—	—
Registered nurses, dietitians, and therapists	1 815	1 117	674	18	101	555	24	—
Dietitians	87	51	36	—	11	25	—	—
Registered nurses	1 648	1 038	591	13	74	504	19	—
Health technologists and technicians	483	371	112	7	4	101	—	—
Social scientists	35	11	24	—	—	15	—	—
Social and recreation workers	265	74	191	—	9	108	83	—
Teachers: College and university	3 123	39	84	8	30	46	—	—
Elementary and prekindergarten	3 052	825	2 221	23	218	1 980	6	—
Secondary	1 213	307	906	—	31	875	—	—
Other teachers	282	82	65	—	31	34	135	—
Engineering and science technicians	57	42	15	—	—	5	—	—
Technicians, except health, and engineering and science	18	13	5	—	—	5	—	—
Writers, artists, and entertainers	266	225	23	—	4	19	12	6
Actors and dancers	—	—	—	—	—	—	—	—
Authors, editors, and reporters	50	45	5	—	—	5	—	—
Other professional, technical, and kindred workers	628	269	310	3	45	262	44	5
Managers and administrators, except farm	1 599	1 108	237	34	35	168	194	60
Buyers, purchasing agents, and sales managers	276	261	6	—	6	—	4	5
Restaurant, cafeteria, and bar managers	198	128	15	—	5	10	37	18
School administrators	109	47	62	—	6	56	—	—
Other specified managers and administrators	358	178	131	34	18	79	39	10
Managers and administrators, n.e.c., salaried	517	494	23	—	—	23	—	—
Wholesale and retail trade	211	211	—	—	—	—	—	—
Managers and administrators, n.e.c., self-employed	141	—	—	—	—	—	114	27
Wholesale and retail trade	90	—	—	—	—	—	63	27
Sales workers	5 047	4 718	53	10	21	22	225	51
Demonstrators, hucksters, and peddlers	299	274	—	—	—	—	25	—
Insurance, real estate agents, and brokers	245	227	—	—	—	—	18	—
Sales clerks, retail trade	3 684	3 514	23	6	6	11	114	33
Salesmen, retail trade	—	214	—	—	—	—	24	18
Other sales workers	605	531	30	4	15	11	44	—
Clerical and kindred workers	18 219	14 445	3 416	729	453	2 234	178	180
Bank tellers	483	454	29	21	8	—	—	—
Bookkeepers	2 356	2 036	198	14	21	163	53	69
Cashiers	1 700	1 600	63	—	—	63	29	8
Counter clerks, except food	437	—	427	—	—	—	5	5
Enumerators and interviewers	54	16	38	25	9	4	—	—
File clerks	359	321	38	4	9	25	—	—
Office machine operators	770	744	26	—	—	26	—	—
Bookkeeping and billing machine operators	86	81	5	—	—	5	—	—
Keypunch operators	466	450	16	—	—	16	—	—
Payroll and timekeeping clerks	202	164	38	—	—	38	—	—
Receptionists	607	528	66	—	4	62	13	—
Secretaries	4 327	3 319	921	58	150	713	30	57
Stenographers	287	214	73	5	27	41	—	—
Telephone operators	526	486	40	7	—	33	—	—
Typists	1 587	1 142	422	27	81	314	18	5
Other clerical and kindred workers	4 524	2 994	1 464	568	144	752	30	36
Craftsmen and kindred workers	1 014	841	104	—	30	74	64	5
Foremen, n.e.c.	181	156	16	—	16	—	4	5
Operatives, except transport	9 477	9 178	126	13	6	107	163	10
Assemblers	3 262	3 227	18	—	—	18	17	—
Bottling and canning operatives	29	—	24	—	—	—	5	—
Checkers, examiners, and inspectors, manufacturing	814	809	5	5	—	—	—	—
Dressmakers and seamstresses, except factory	205	—	—	—	—	—	70	—
Laundry and drycleaning operatives, including ironers	474	401	57	4	6	47	16	—
Graders and sorters, manufacturing	40	—	—	—	—	—	—	—
Packers and wrappers, except produce	499	484	4	—	—	4	6	5
Sewers and slitchers	261	241	—	—	—	—	20	—
Textile operatives	7	7	—	—	—	—	—	—
Other specified operatives	2 033	1 984	24	—	—	24	20	5
Miscellaneous and not specified operatives	1 853	1 826	18	4	—	14	9	—
Manufacturing	1 697	1 681	7	—	—	7	9	—
Durable goods	1 452	1 436	7	—	—	7	9	—
Machinery, including electrical	164	155	—	—	—	—	—	—
Other durable goods	1 288	1 281	7	—	—	7	—	—
Nondurable goods, including not specified manufacturing	245	—	—	—	—	—	—	—
Food and kindred products	23	23	—	—	—	—	—	—
Apparel and other fabricated textile products	52	—	—	—	—	—	—	—
Nonmanufacturing industries	156	145	11	4	—	7	—	—
Transport equipment operatives	630	213	395	5	76	314	17	5
Laborers, except farm	535	476	41	3	5	33	18	—
Farmers and farm managers	70	4	—	—	—	—	66	—
Farm laborers and farm foremen	115	69	—	—	—	—	—	46
Paid farm laborers and farm foremen	69	69	—	—	—	—	—	—
Unpaid family workers	46	—	—	—	—	—	—	46
Service workers, except private household	12 199	8 707	2 921	61	732	2 128	534	37
Cleaning service workers	1 542	1 087	437	28	108	301	10	8
Chambermaids and maids	198	161	33	—	—	33	—	4
Food service workers	4 356	3 685	578	4	113	461	74	19
Cooks, except private household	1 085	796	252	4	56	192	32	5
Waiters and food counter workers	2 451	2 294	116	—	22	94	27	14
Health service workers	3 503	2 089	1 371	12	408	951	33	10
Nursing aides, orderlies, and attendants	1 900	1 051	837	12	247	578	12	—
Practical nurses	973	554	393	—	141	252	21	5
Personal service workers	1 731	1 046	309	13	67	229	376	—
Hairdressers and cosmetologists	966	653	—	—	—	—	313	—
Private household workers	1 442	1 428	—	—	—	—	14	—
Private household workers, living in	136	136	—	—	—	—	—	—
Private household workers, living out	1 306	1 292	—	—	—	—	14	—

¹Includes protective service workers and allocated cases not shown separately.

Table 173. Occupation of Employed Persons by Class of Worker, 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

FLINT SMSA—Continued

	Total employed	Private wage and salary workers	Government workers				Self-employed workers	Unpaid family workers
			Total	Federal	State	Local		
Negro								
Male, 16 years old and over	12 400	11 398	779	169	118	492	220	3
Professional, technical, and kindred workers	446	224	196	17	12	167	26	-
Accountants	15	11	-	-	-	-	4	-
Architects	-	-	-	-	-	-	-	-
Computer specialists	5	-	5	-	-	5	-	-
Engineers	23	23	-	-	-	-	-	-
Aeronautical and astronautical	-	-	-	-	-	-	-	-
Civil	8	8	-	-	-	-	-	-
Electrical and electronic	10	10	-	-	-	-	-	-
Mechanical	-	-	-	-	-	-	-	-
Other engineers	5	5	-	-	-	-	-	-
Lawyers and judges	6	-	6	-	-	6	-	-
Life and physical scientists	6	6	-	-	-	-	-	-
Chemists	6	6	-	-	-	-	-	-
Physicians, dentists, and related practitioners	46	17	7	-	-	7	22	-
Dentists	5	-	-	-	-	-	5	-
Pharmacists	17	11	-	-	-	-	6	-
Physicians, medical and osteopathic	24	6	7	-	-	7	11	-
Other related practitioners	-	-	-	-	-	-	-	-
Health technologists and technicians	16	11	5	-	-	5	-	-
Religious workers	21	21	-	-	-	-	-	-
Social scientists	6	-	6	-	-	6	-	-
Social and recreation workers	34	6	28	12	8	8	-	-
Teachers	150	32	118	-	4	114	-	-
College and university	9	-	9	-	-	9	-	-
Elementary and prekindergarten	54	11	43	-	-	43	-	-
Secondary	87	21	66	-	4	62	-	-
Engineering and science technicians	32	32	-	-	-	-	-	-
Draftsmen and surveyors	12	12	-	-	-	-	-	-
Electrical and electronic engineering technicians	4	4	-	-	-	-	-	-
Technicians, except health, and engineering and science	5	5	-	-	-	-	-	-
Airplane pilots	-	-	-	-	-	-	-	-
Writers, artists, and entertainers	8	8	-	-	-	-	-	-
Other professional, technical, and kindred workers	73	52	21	5	-	16	-	-
Managers and administrators, except farm	188	114	23	-	-	23	51	-
Buyers, purchasing agents, and sales managers	10	10	-	-	-	-	-	-
School administrators	17	5	12	-	-	12	-	-
Specified managers and administrators, public administration	-	-	-	-	-	-	-	-
Other specified managers and administrators	44	38	-	-	-	-	6	-
Managers and administrators, n.e.c., salaried	72	61	11	-	-	11	-	-
Manufacturing	12	12	-	-	-	-	-	-
Wholesale and retail trade	13	13	-	-	-	-	-	-
Transportation, communications and other public utilities	5	5	-	-	-	-	-	-
All other industries	42	31	11	-	-	11	-	-
Managers and administrators, n.e.c., self-employed	45	-	-	-	-	-	45	-
Construction	10	-	-	-	-	-	10	-
Manufacturing	7	-	-	-	-	-	7	-
Wholesale and retail trade	23	-	-	-	-	-	23	-
All other industries	5	-	-	-	-	-	5	-
Sales workers	145	130	4	-	-	4	11	-
Insurance agents, brokers, and underwriters	22	22	-	-	-	-	-	-
Real estate agents and brokers	14	8	-	-	-	-	6	-
Sales representatives, manufacturing industries	-	-	-	-	-	-	-	-
Sales representatives, wholesale trade	12	12	-	-	-	-	-	-
Sales clerks, retail trade	45	40	-	-	-	-	5	-
Salesmen, retail trade	41	41	-	-	-	-	-	-
Salesmen of services and construction	-	-	-	-	-	-	-	-
Other sales workers	11	7	4	-	-	4	-	-
Clerical and kindred workers	474	392	82	63	-	19	-	-
Bank tellers and cashiers	19	19	-	-	-	-	-	-
Bookkeepers and billing clerks	8	2	6	6	-	-	-	-
Mail handlers and postal clerks	52	4	48	48	-	-	-	-
Other clerical and kindred workers	395	367	28	9	-	19	-	-
Craftsmen and kindred workers	1 796	1 726	28	-	5	23	42	-
Apparel craftsmen and upholsterers	14	14	-	-	-	-	-	-
Bakers	-	-	-	-	-	-	-	-
Cabinetmakers	-	-	-	-	-	-	-	-
Construction craftsmen	212	187	5	-	-	5	20	-
Carpenters	29	29	-	-	-	-	-	-
Excavating, grading, and road machine operators	5	5	5	-	-	5	-	-
Electricians	51	51	-	-	-	-	-	-
Masons and tile setters	44	40	-	-	-	-	4	-
Painters, construction and maintenance, and paperhangers	44	32	-	-	-	-	12	-
Plasterers and cement finishers	27	23	-	-	-	-	4	-
Plumbers and pipe fitters	7	7	-	-	-	-	-	-
Other construction craftsmen	5	5	-	-	-	-	-	-
Foremen, n.e.c.	153	153	-	-	-	-	-	-
Manufacturing	133	133	-	-	-	-	-	-
Nonmanufacturing industries	20	20	-	-	-	-	-	-
Linemen and servicemen, telephone and power	16	16	-	-	-	-	-	-
Locomotive engineers and firemen	-	-	-	-	-	-	-	-
Mechanics and repairmen	512	507	-	-	-	-	5	-
Air conditioning, heating, and refrigeration	14	14	-	-	-	-	-	-
Aircraft	-	-	-	-	-	-	-	-
Automobile, including body	337	332	-	-	-	-	5	-
Radio and television	7	7	-	-	-	-	-	-
Other mechanics and repairmen	154	154	-	-	-	-	-	-
Metal craftsmen, except mechanics	530	517	13	-	-	13	-	-
Machinists and job and die setters	349	341	8	-	-	8	-	-
Sheetmetal workers and tinsmiths	21	21	-	-	-	-	-	-
Tool and die makers	86	86	-	-	-	-	-	-
Other metal craftsmen	74	69	5	-	-	5	-	-
Printing craftsmen	-	-	-	-	-	-	-	-
Compositors and typesetters	-	-	-	-	-	-	-	-
Pressmen and plate printers, printing	-	-	-	-	-	-	-	-
Stationary engineers and power station operators	16	16	-	-	-	-	-	-
Other craftsmen and kindred workers	343	316	10	-	5	5	17	-

Table 173. Occupation of Employed Persons by Class of Worker, 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**

FLINT SMSA—Continued

Negro—Continued

Male, 16 years old and over—Continued

	Total employed	Private wage and salary workers	Government workers				Self-employed workers	Unpaid family workers
			Total	Federal	State	Local		
Operatives, except transport	6 185	6 038	112	31	53	28	35	—
Assemblers.....	2 158	2 099	51	12	24	15	8	—
Checkers, examiners, and inspectors, manufacturing.....	433	421	12	—	8	4	—	—
Garage workers and gas station attendants.....	35	30	—	—	—	—	5	—
Laundry and drycleaning operatives, n.e.c.....	31	26	5	—	5	—	—	—
Meat cutters and butchers.....	12	12	—	—	—	—	—	—
Mine operatives, n.e.c.....	—	—	—	—	—	—	—	—
Packers and wrappers, except produce.....	33	33	—	—	—	—	—	—
Painters, manufactured articles.....	106	93	9	—	9	—	4	—
Precision machine operatives.....	177	177	—	—	—	—	—	—
Sawyers.....	—	—	—	—	—	—	—	—
Stationary firemen.....	—	—	—	—	—	—	—	—
Textile operatives.....	—	—	—	—	—	—	—	—
Welders and flamecutters.....	510	494	12	5	7	—	4	—
Other metalworking operatives.....	810	805	5	—	—	5	—	—
Other specified operatives.....	767	757	—	—	—	—	10	—
Miscellaneous and not specified operatives.....	1 113	1 091	18	14	—	4	4	—
Occupation:								
Machine operatives, miscellaneous specified.....	200	200	—	—	—	—	—	—
Machine operatives, not specified.....	616	608	4	4	—	—	4	—
Miscellaneous operatives.....	153	145	8	4	—	4	—	—
Not specified operatives.....	144	138	6	6	—	—	—	—
Industry:								
Manufacturing	1 098	1 080	14	10	—	4	4	—
Durable goods.....	1 090	1 072	14	10	—	4	4	—
Wood products, including furniture.....	6	6	—	—	—	—	—	—
Primary metal industries.....	21	21	—	—	—	—	—	—
Fabricated metal industries.....	15	15	—	—	—	—	—	—
Machinery, including electrical.....	7	7	—	—	—	—	—	—
Motor vehicles and equipment.....	1 037	1 019	14	10	—	4	4	—
Transportation equipment, except motor vehicles.....	—	—	—	—	—	—	—	—
Other durable goods.....	4	4	—	—	—	—	—	—
Nondurable goods.....	8	8	—	—	—	—	—	—
Food and kindred products.....	—	—	—	—	—	—	—	—
Apparel and other fabricated textile products.....	—	—	—	—	—	—	—	—
Paper and allied products.....	2	2	—	—	—	—	—	—
Chemicals and allied products.....	6	6	—	—	—	—	—	—
Other nondurable goods.....	—	—	—	—	—	—	—	—
Not specified manufacturing industries.....	—	—	—	—	—	—	—	—
Nonmanufacturing industries.....	15	11	4	4	—	—	—	—
Transportation, communications, and other public utilities.....	—	—	—	—	—	—	—	—
Wholesale and retail trade.....	4	4	—	—	—	—	—	—
All other industries.....	11	7	4	4	—	—	—	—
Transport equipment operatives	803	744	39	—	8	31	20	—
Bus drivers.....	16	10	6	—	—	6	—	—
Taxicab drivers and chauffeurs.....	96	84	8	—	8	—	4	—
Truck drivers and deliverymen.....	534	508	15	—	—	15	11	—
Other transport equipment operatives.....	157	142	10	—	—	10	5	—
Laborers, except farm	1 007	917	86	45	8	33	4	—
Construction laborers.....	124	124	—	—	—	—	—	—
Freight, stock, and material handlers.....	403	378	25	10	4	11	—	—
Other specified laborers.....	327	271	52	35	—	17	4	—
Miscellaneous and not specified laborers.....	153	144	9	—	4	5	—	—
Occupation:								
Miscellaneous laborers.....	41	41	—	—	—	—	—	—
Not specified laborers.....	112	103	9	—	4	5	—	—
Industry:								
Manufacturing	131	122	9	—	4	5	—	—
Durable goods.....	128	119	9	—	4	5	—	—
Wood products, including furniture.....	—	—	—	—	—	—	—	—
Metal industries.....	—	—	—	—	—	—	—	—
Machinery, including electrical.....	—	—	—	—	—	—	—	—
Transportation equipment.....	118	109	9	—	4	5	—	—
Other durable goods.....	10	10	—	—	—	—	—	—
Nondurable goods.....	—	—	—	—	—	—	—	—
Food and kindred products.....	3	3	—	—	—	—	—	—
Not specified manufacturing industries.....	—	—	—	—	—	—	—	—
Nonmanufacturing industries.....	22	22	—	—	—	—	—	—
Railroads and railway express service.....	—	—	—	—	—	—	—	—
Transportation, except railroads.....	—	—	—	—	—	—	—	—
Communications, and utilities and sanitary services.....	—	—	—	—	—	—	—	—
Wholesale and retail trade.....	17	17	—	—	—	—	—	—
All other industries.....	5	5	—	—	—	—	—	—
Farmers and farm managers	14	—	—	—	—	—	14	—
Farm laborers and farm foremen	28	25	—	—	—	—	—	3
Paid farm laborers and farm foremen.....	25	25	—	—	—	—	—	—
Unpaid family workers.....	3	—	—	—	—	—	—	3
Service workers, except private household¹	1 306	1 080	209	13	32	164	17	—
Cleaning service workers.....	810	724	86	9	21	56	—	—
Food service workers.....	75	75	—	—	—	—	—	—
Cooks, except private household.....	45	45	—	—	—	—	—	—
Busboys and dishwashers.....	12	12	—	—	—	—	—	—
Health service workers.....	56	21	35	—	—	35	—	—
Personal service workers.....	112	72	23	—	7	16	17	—
Protective service workers.....	85	55	30	—	—	30	—	—
Firemen, fire protection.....	—	—	—	—	—	—	—	—
Guards and watchmen.....	55	55	—	—	—	—	—	—
Policemen and detectives.....	25	—	25	—	—	25	—	—
Private household workers	8	8	—	—	—	—	—	—

¹Includes allocated cases not shown separately.

Table 173. Occupation of Employed Persons by Class of Worker, 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**

FLINT SMSA — Continued

Negro — Continued

	Total employed	Private wage and salary workers	Government workers				Self-employed workers	Unpaid family workers
			Total	Federal	State	Local		
Female, 16 years old and over	7 455	5 537	1 838	190	139	1 509	72	8
Professional, technical, and kindred workers	706	266	428	17	42	369	12	—
Accountants	—	—	—	—	—	—	—	—
Computer specialists	4	4	—	—	—	—	—	—
Librarians	12	5	7	—	4	3	—	—
Mathematical specialists	—	—	—	—	—	—	—	—
Life and physical scientists	—	—	—	—	—	—	—	—
Registered nurses, dietitians, and therapists	145	59	80	7	—	73	6	—
Dietitians	21	13	8	—	—	8	—	—
Registered nurses	119	41	72	7	—	65	6	—
Health technologists and technicians	49	24	25	—	—	25	—	—
Social scientists	—	—	—	—	—	—	—	—
Social and recreation workers	31	24	7	—	7	—	—	—
Teachers:	4	—	4	4	—	—	—	—
College and university	—	—	—	—	—	—	—	—
Elementary and prekindergarten	296	86	210	6	26	178	—	—
Secondary	71	29	42	—	—	42	—	—
Other teachers	—	—	—	—	—	—	—	—
Engineering and science technicians	—	—	—	—	—	—	—	—
Technicians, except health, and engineering and science	5	5	—	—	—	—	—	—
Writers, artists, and entertainers	4	4	—	—	—	—	—	—
Actors and dancers	—	—	—	—	—	—	—	—
Authors, editors, and reporters	—	—	—	—	—	—	—	—
Other professional, technical, and kindred workers	85	26	53	—	5	48	6	—
Managers and administrators, except farm	77	51	21	—	6	15	5	—
Buyers, purchasing agents, and sales managers	30	30	—	—	—	—	—	—
Restaurant, cafeteria, and bar managers	9	—	—	—	—	—	—	—
School administrators	11	—	11	—	6	5	—	—
Other specified managers and administrators	15	5	10	—	—	10	—	—
Managers and administrators, n.e.c., salaried	7	7	—	—	—	—	—	—
Wholesale and retail trade	5	5	—	—	—	—	—	—
Managers and administrators, n.e.c., self-employed	5	—	—	—	—	—	5	—
Wholesale and retail trade	5	—	—	—	—	—	5	—
Sales workers	304	290	11	—	6	5	3	—
Demonstrators, hucksters, and peddlers	3	3	—	—	—	—	—	—
Insurance, real estate agents, and brokers	—	—	—	—	—	—	—	—
Sales clerks, retail trade	238	224	11	—	6	5	3	—
Salesmen, retail trade	17	17	—	—	—	—	—	—
Other sales workers	46	46	—	—	—	—	—	—
Clerical and kindred workers	1 581	951	622	140	40	442	—	8
Bank tellers	44	38	6	6	—	—	—	—
Bookkeepers	57	38	19	9	—	10	—	—
Cashiers	167	146	18	—	—	18	—	3
Counter clerks, except food	10	—	—	—	—	—	—	—
Enumerators and interviewers	—	—	—	—	—	—	—	—
File clerks	23	15	8	—	—	8	—	—
Office machine operators	51	46	5	—	—	5	—	—
Bookkeeping and billing machine operators	—	—	—	—	—	—	—	—
Keypunch operators	36	36	—	—	—	—	—	—
Payroll and timekeeping clerks	8	8	—	—	—	—	—	—
Receptionists	45	19	26	—	—	26	—	—
Secretaries	172	121	51	—	6	45	—	—
Stenographers	29	9	20	—	—	20	—	—
Telephone operators	102	90	12	7	—	5	—	—
Typists	133	81	47	—	—	47	—	5
Other clerical and kindred workers	740	330	410	118	34	258	—	—
Craftsmen and kindred workers	153	138	15	—	6	9	—	—
Foremen, n.e.c.	22	16	6	—	6	—	—	—
Operatives, except transport	1 774	1 700	52	9	—	43	22	—
Assemblers	610	596	9	—	—	9	5	—
Bottling and canning operatives	—	—	—	—	—	—	—	—
Checkers, examiners, and inspectors; manufacturing	180	175	5	5	—	—	—	—
Dressmakers and seamstresses, except factory	32	21	—	—	—	—	11	—
Laundry and drycleaning operatives, including ironers	199	164	29	4	—	25	6	—
Graders and sorters, manufacturing	—	—	—	—	—	—	—	—
Packers and wrappers, except produce	49	45	4	—	—	4	—	—
Sewers and stitchers	23	23	—	—	—	—	—	—
Textile operatives	—	—	—	—	—	—	—	—
Other specified operatives	353	348	5	—	—	5	—	—
Miscellaneous and not specified operatives	328	328	—	—	—	—	—	—
Manufacturing	314	314	—	—	—	—	—	—
Durable goods	290	290	—	—	—	—	—	—
Machinery, including electrical	26	26	—	—	—	—	—	—
Other durable goods	264	264	—	—	—	—	—	—
Nondurable goods, including not specified manufacturing	24	24	—	—	—	—	—	—
Food and kindred products	7	7	—	—	—	—	—	—
Apparel and other fabricated textile products	—	—	—	—	—	—	—	—
Nonmanufacturing industries	14	14	—	—	—	—	—	—
Transport equipment operatives	39	27	7	—	—	7	5	—
Laborers, except farm	129	119	10	—	—	10	—	—
Farmers and farm managers	4	4	—	—	—	—	—	—
Farm laborers and farm foremen	16	16	—	—	—	—	—	—
Paid farm laborers and farm foremen	16	16	—	—	—	—	—	—
Unpaid family workers	—	—	—	—	—	—	—	—
Service workers, except private household ¹	2 246	1 558	672	24	39	609	16	—
Cleaning service workers	430	317	108	14	13	81	5	—
Chambermaids and maids	95	71	24	—	—	24	—	—
Food service workers	503	408	95	—	4	91	—	—
Cooks, except private household	169	157	12	—	—	12	—	—
Waiters and food counter workers	169	155	14	—	4	10	—	—
Health service workers	874	503	371	—	22	349	—	—
Nursing aides, orderlies, and attendants	641	377	264	—	17	247	—	—
Practical nurses	113	64	49	—	—	49	—	—
Personal service workers	130	70	49	6	—	43	11	—
Hairdressers and cosmetologists	34	23	—	—	—	—	11	—
Private household workers	426	417	—	—	—	—	9	—
Private household workers, living in	4	4	—	—	—	—	—	—
Private household workers, living out	422	413	—	—	—	—	9	—

¹Includes protective service workers and allocated cases not shown separately.

Table 173. Occupation of Employed Persons by Class of Worker, 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

GRAND RAPIDS SMSA

Total

	Total employed	Private wage and salary workers	Government workers				Self-employed workers	Unpaid family workers
			Total	Federal	State	Local		
Male, 16 years old and over	127 690	106 176	9 961	2 066	1 253	6 642	11 256	297
Professional, technical, and kindred workers	15 515	10 657	3 015	202	511	2 302	1 843	—
Accountants	1 476	1 141	162	70	43	49	173	—
Architects	118	90	5	—	—	5	23	—
Computer specialists	202	196	6	—	—	6	—	—
Engineers	2 500	2 307	130	21	23	86	63	—
Aeronautical and astronautical	45	45	—	—	—	—	—	—
Civil	232	140	80	7	23	50	12	—
Electrical and electronic	400	389	11	6	—	5	—	—
Mechanical	422	413	4	4	—	—	5	—
Other engineers	1 401	1 320	35	4	—	31	46	—
Lawyers and judges	438	114	76	11	33	32	248	—
Life and physical scientists	269	223	39	10	24	5	7	—
Chemists	208	203	5	—	—	5	—	—
Physicians, dentists, and related practitioners	1 380	489	16	6	—	10	875	—
Dentists	266	10	—	—	—	—	256	—
Pharmacists	308	226	6	—	—	6	76	—
Physicians, medical and osteopathic	653	205	10	6	—	4	438	—
Other related practitioners	153	48	—	—	—	—	105	—
Health technologists and technicians	199	161	22	—	7	15	16	—
Religious workers	826	710	5	—	5	—	111	—
Social scientists	186	96	72	11	4	57	18	—
Social and recreation workers	272	116	156	10	83	63	—	—
Teachers	3 176	1 376	1 786	—	177	1 609	14	—
College and university	613	413	200	—	115	85	—	—
Elementary and prekindergarten	600	216	384	—	16	368	—	—
Secondary	1 848	649	1 199	—	46	1 153	—	—
Engineering and science technicians	1 567	1 416	146	20	14	112	5	—
Draftsmen and surveyors	995	875	115	15	14	86	5	—
Electrical and electronic engineering technicians	133	133	—	—	—	—	—	—
Technicians, except health, and engineering and science	134	72	47	8	10	29	15	—
Airplane pilots	48	39	—	—	—	—	9	—
Writers, artists, and entertainers	1 250	1 034	20	—	9	11	196	—
Other professional, technical, and kindred workers	1 522	1 116	327	35	79	213	79	—
Managers and administrators, except farm	13 266	10 062	1 112	282	179	651	2 078	14
Buyers, purchasing agents, and sales managers	2 081	1 891	53	18	9	26	137	—
School administrators	396	150	236	—	16	220	10	—
Specified managers and administrators, public administration	606	—	606	219	129	258	—	—
Other specified managers and administrators	1 963	1 610	68	20	4	44	285	—
Managers and administrators, n.e.c., salaried	6 560	6 411	149	25	21	103	—	—
Manufacturing	2 270	2 265	5	—	—	5	—	—
Wholesale and retail trade	2 136	2 136	—	—	—	—	—	—
Transportation, communications and other public utilities	561	535	26	—	—	26	—	—
All other industries	1 593	1 475	118	25	21	72	—	—
Managers and administrators, n.e.c., self-employed	1 660	—	—	—	—	—	1 646	14
Construction	436	—	—	—	—	—	432	4
Manufacturing	177	—	—	—	—	—	177	—
Wholesale and retail trade	690	—	—	—	—	—	685	5
All other industries	357	—	—	—	—	—	352	5
Sales workers	10 848	9 328	40	—	—	27	1 447	33
Insurance agents, brokers, and underwriters	1 386	1 138	6	—	—	6	242	—
Real estate agents and brokers	564	419	4	—	4	—	136	5
Sales representatives, manufacturing industries	1 451	1 348	—	—	—	—	103	—
Sales representatives, wholesale trade	2 485	2 200	—	—	—	—	281	4
Sales clerks, retail trade	2 188	1 940	—	—	—	—	238	10
Salesmen, retail trade	1 313	1 061	—	—	—	—	238	14
Salesmen of services and construction	500	427	15	—	—	15	58	—
Other sales workers	961	795	15	—	9	6	151	—
Clerical and kindred workers	8 794	6 985	1 619	1 197	121	301	177	13
Bank tellers and cashiers	297	280	12	—	—	12	5	—
Bookkeepers and billing clerks	819	704	41	20	5	16	66	8
Mail handlers and postal clerks	1 144	93	1 047	—	—	—	4	—
Other clerical and kindred workers	6 534	5 908	519	130	116	273	102	5
Craftsmen and kindred workers	29 253	25 616	1 002	132	116	754	2 600	35
Apparel craftsmen and upholsterers	510	444	—	—	—	—	66	—
Bakers	320	286	13	—	5	8	21	—
Cabinetmakers	348	313	11	—	—	11	24	—
Construction craftsmen	6 560	5 023	264	21	31	212	1 265	8
Carpenters	1 960	1 422	42	—	15	27	492	4
Excavating, grading, and road machine operators	558	371	108	—	—	108	75	4
Electricians	1 131	1 006	29	5	10	14	96	—
Masons and tile setters	517	400	5	5	—	—	112	—
Painters, construction and maintenance, and paperhangers	885	577	28	7	—	21	280	—
Plasterers and cement finishers	310	226	—	—	—	—	84	—
Plumbers and pipe fitters	930	792	52	4	6	42	86	—
Other construction craftsmen	269	229	—	—	—	—	40	—
Foremen, n.e.c.	4 559	4 389	95	5	15	75	70	5
Manufacturing	3 156	3 123	—	—	—	—	33	—
Nonmanufacturing industries	1 403	1 266	95	5	15	75	37	5
Linemen and servicemen, telephone and power	802	748	48	—	—	48	—	6
Locomotive engineers and firemen	149	149	—	—	—	—	—	—
Mechanics and repairmen	6 191	5 356	241	56	21	164	582	12
Air conditioning, heating, and refrigeration	397	343	—	—	—	—	54	—
Aircraft	44	44	—	—	—	—	—	—
Automobile, including body	2 391	1 938	100	22	10	68	347	6
Radio and television	264	167	4	—	—	4	93	—
Other mechanics and repairmen	3 095	2 864	137	34	11	92	88	6
Metal craftsmen, except mechanics	5 215	5 086	28	17	—	11	101	—
Machinists and job and die setters	1 510	1 486	10	10	—	—	14	—
Sheetmetal workers and tinsmiths	395	352	—	—	—	—	43	—
Tool and die makers	2 508	2 463	6	7	—	6	39	—
Other metal craftsmen	802	785	12	—	—	—	5	—
Printing craftsmen	1 126	1 096	8	—	—	8	22	—
Compositors and typesetters	435	419	—	—	—	—	16	—
Pressmen and plate printers, printing	568	560	8	—	—	8	—	—
Stationary engineers and power station operators	390	247	138	10	20	108	5	—
Other craftsmen and kindred workers	3 083	2 479	156	23	24	109	444	4

Table 173. Occupation of Employed Persons by Class of Worker, 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

GRAND RAPIDS SMSA—Continued

Total—Continued

Male, 16 years old and over—Continued

	Total employed	Private wage and salary workers	Government workers				Self-employed workers	Unpaid family workers
			Total	Federal	State	Local		
Operatives, except transport	23 141	22 328	258	59	45	154	536	19
Assemblers.....	2 656	2 620	21	11	—	10	15	—
Checkers, examiners, and inspectors; manufacturing.....	1 430	1 411	14	14	—	—	—	5
Garage workers and gas station attendants.....	1 104	1 012	11	—	—	11	76	5
Laundry and drycleaning operatives, n.e.c.....	142	101	15	—	4	11	26	—
Meat cutters and butchers.....	675	594	7	—	—	7	74	—
Mine operatives, n.e.c.....	22	17	—	—	—	—	5	—
Packers and wrappers, except produce.....	879	868	7	—	—	7	4	—
Painters, manufactured articles.....	598	581	6	—	—	6	11	—
Precision machine operatives.....	1 877	1 828	15	9	—	6	34	—
Sawyers.....	469	458	—	—	—	—	11	—
Stationary firemen.....	186	152	34	—	15	19	—	—
Textile operatives.....	124	119	—	—	—	—	5	—
Welders and flamecutters.....	2 057	1 972	15	—	—	15	70	—
Other metalworking operatives.....	2 774	2 748	6	6	—	—	20	—
Other specified operatives.....	2 817	2 642	56	11	16	29	115	4
Miscellaneous and not specified operatives.....	5 331	5 205	51	8	10	33	70	5
Occupation:								
Machine operatives, miscellaneous specified.....	2 466	2 413	23	—	6	17	30	—
Machine operatives, not specified.....	1 055	1 028	12	8	4	—	10	5
Miscellaneous operatives.....	1 029	987	16	—	—	16	26	—
Not specified operatives.....	781	777	—	—	—	—	4	—
Industry:								
Manufacturing	4 758	4 703	6	—	—	6	49	—
Durable goods.....	3 499	3 461	—	—	—	—	38	—
Wood products, including furniture.....	867	857	—	—	—	—	10	—
Primary metal industries.....	471	467	—	—	—	—	4	—
Fabricated metal industries.....	633	633	—	—	—	—	—	—
Machinery, including electrical.....	744	730	—	—	—	—	14	—
Motor vehicles and equipment.....	322	322	—	—	—	—	—	—
Transportation equipment, except motor vehicles.....	102	102	—	—	—	—	—	—
Other durable goods.....	360	350	—	—	—	—	10	—
Nondurable goods.....	1 222	1 205	6	—	—	6	11	—
Food and kindred products.....	310	304	—	—	—	—	6	—
Apparel and other fabricated textile products.....	31	31	—	—	—	—	—	—
Paper and allied products.....	229	224	—	—	—	—	5	—
Chemicals and allied products.....	228	228	—	—	—	—	—	—
Other nondurable goods.....	424	418	6	—	—	6	—	—
Not specified manufacturing industries.....	37	37	—	—	—	—	—	—
Nonmanufacturing industries.....	573	502	45	8	10	27	21	5
Transportation, communications, and other public utilities.....	92	71	21	—	—	21	—	—
Wholesale and retail trade.....	313	308	—	—	—	—	—	5
All other industries.....	168	123	24	8	10	6	21	—
Transport equipment operatives	7 182	6 451	413	9	16	388	309	9
Bus drivers.....	258	181	71	—	—	71	6	—
Taxicab drivers and chauffeurs.....	110	103	—	—	—	—	7	—
Truck drivers and deliverymen.....	5 189	4 641	307	9	11	287	236	5
Other transport equipment operatives.....	1 625	1 526	35	—	5	30	60	4
Laborers, except farm	7 328	6 755	363	71	25	267	183	27
Construction laborers.....	880	788	87	9	78	—	—	5
Freight, stock, and material handlers.....	3 910	3 755	72	52	5	15	67	16
Other specified laborers.....	1 545	1 290	150	13	11	126	99	6
Miscellaneous and not specified laborers.....	993	922	54	6	—	48	17	—
Occupation:								
Miscellaneous laborers.....	435	388	36	—	—	36	11	—
Not specified laborers.....	558	534	18	6	—	12	6	—
Industry:								
Manufacturing	484	479	—	—	—	—	5	—
Durable goods.....	410	405	—	—	—	—	5	—
Wood products, including furniture.....	52	52	—	—	—	—	—	—
Metal industries.....	203	203	—	—	—	—	—	—
Machinery, including electrical.....	75	75	—	—	—	—	—	—
Transportation equipment.....	46	46	—	—	—	—	—	—
Other durable goods.....	34	29	—	—	—	—	5	—
Nondurable goods.....	74	74	—	—	—	—	—	—
Food and kindred products.....	42	42	—	—	—	—	—	—
Not specified manufacturing industries.....	—	—	—	—	—	—	—	—
Nonmanufacturing industries.....	509	443	54	6	—	48	12	—
Railroads and railway express service.....	74	74	—	—	—	—	—	—
Transportation, except railroads.....	14	14	—	—	—	—	—	—
Communications, and utilities and sanitary services.....	92	70	22	—	—	22	—	—
Wholesale and retail trade.....	203	191	—	—	—	—	12	—
All other industries.....	126	94	32	6	—	26	—	—
Farmers and farm managers	1 684	78	—	—	—	—	1 594	12
Farm laborers and farm foremen	1 132	988	4	—	—	4	15	125
Paid farm laborers and farm foremen.....	1 007	988	4	—	—	4	15	—
Unpaid family workers.....	125	—	—	—	—	—	—	125
Service workers, except private household¹	9 516	6 897	2 135	114	227	1 794	474	10
Cleaning service workers.....	3 981	2 978	947	89	89	769	56	—
Food service workers.....	2 259	2 100	45	—	9	36	104	10
Cooks, except private household.....	766	722	16	—	4	12	28	—
Busboys and dishwashers.....	744	730	—	—	—	—	9	5
Health service workers.....	429	340	84	7	22	55	5	—
Personal service workers.....	786	411	83	—	6	77	292	—
Protective service workers.....	1 558	609	942	12	93	837	7	—
Firemen, fire protection.....	254	11	243	—	—	243	—	—
Guards and watchmen.....	583	552	31	—	7	24	—	—
Policemen and detectives.....	644	35	602	7	86	509	7	—
Private household workers	31	31	—	—	—	—	—	—

¹Includes allocated cases not shown separately.

Table 173. Occupation of Employed Persons by Class of Worker, 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

GRAND RAPIDS SMSA—Continued

Total—Continued

	Total employed	Private wage and salary workers	Government workers				Self-employed workers	Unpaid family workers
			Total	Federal	State	Local		
Female, 16 years old and over	76 183	63 836	9 753	765	1 241	7 747	2 009	585
Professional, technical, and kindred workers	10 876	5 797	4 629	64	434	4 131	427	23
Accountants	400	353	5	5	—	—	37	5
Computer specialists	37	37	—	—	—	—	—	—
Librarians	252	91	161	—	14	147	—	—
Mathematical specialists	21	21	—	—	—	—	—	—
Life and physical scientists	45	33	6	—	6	—	6	—
Registered nurses, dietitians, and therapists	2 265	1 770	429	10	24	395	66	—
Dietitians	67	67	—	—	—	—	—	—
Registered nurses	2 084	1 625	398	4	24	370	61	—
Health technologists and technicians	403	336	67	—	24	43	—	—
Social scientists	21	16	5	—	—	—	—	—
Social and recreation workers	370	119	246	—	148	98	—	5
Teachers: College and university	288	169	119	—	47	72	—	—
Elementary and prekindergarten	3 537	1 173	2 348	20	110	2 218	16	—
Secondary	1 245	310	935	5	16	914	—	—
Other teachers	409	189	35	—	17	18	181	4
Engineering and science technicians	199	182	17	—	—	17	—	—
Technicians, except health, and engineering and science	12	6	6	—	—	—	—	—
Writers, artists, and entertainers	477	379	23	5	—	18	70	5
Actors and dancers	5	5	—	—	—	—	—	—
Authors, editors, and reporters	103	96	—	—	—	—	7	—
Other professional, technical, and kindred workers	895	613	227	13	28	186	51	4
Managers and administrators, except farm	2 030	1 442	243	32	38	173	298	47
Buyers, purchasing agents, and sales managers	390	371	5	—	—	5	14	—
Restaurant, cafeteria, and bar managers	182	107	30	—	10	20	35	10
School administrators	133	68	65	—	6	59	—	—
Other specified managers and administrators	362	227	97	32	6	59	38	—
Managers and administrators, n.e.c., salaried	715	669	46	—	16	30	—	—
Wholesale and retail trade	168	168	—	—	—	—	—	—
Managers and administrators, n.e.c., self-employed	248	—	—	—	—	—	211	37
Wholesale and retail trade	149	—	—	—	—	—	121	28
Sales workers	6 506	6 079	59	13	5	41	305	63
Demonstrators, hucksters, and peddlers	399	322	—	—	—	—	77	—
Insurance, real estate agents, and brokers	359	320	6	6	—	—	33	—
Sales clerks, retail trade	4 768	4 592	10	—	—	10	125	41
Salesmen, retail trade	172	126	—	—	—	—	30	16
Other sales workers	808	719	43	7	5	31	40	6
Clerical and kindred workers	25 165	21 861	2 906	573	436	1 897	163	235
Bank tellers	624	598	26	11	11	4	—	—
Bookkeepers	2 899	2 621	132	12	15	105	60	86
Cashiers	2 104	2 014	71	11	4	56	—	17
Counter clerks, except food	431	426	—	—	—	—	5	—
Enumerators and interviewers	97	60	27	27	—	—	5	5
File clerks	638	559	74	10	16	48	—	5
Office machine operators	921	882	39	6	—	33	—	—
Bookkeeping and billing machine operators	138	123	15	6	—	9	—	—
Keypunch operators	568	553	15	—	—	15	—	—
Payroll and timekeeping clerks	318	295	23	—	—	23	—	—
Receptionists	903	819	68	19	21	28	8	8
Secretaries	7 233	6 382	776	67	94	615	23	52
Stenographers	245	146	99	32	24	43	—	—
Telephone operators	986	941	39	6	17	16	—	6
Typists	2 169	1 794	344	35	64	245	21	10
Other clerical and kindred workers	5 597	4 322	1 188	337	170	681	41	46
Craftsmen and kindred workers	1 557	1 436	60	—	12	48	52	9
Foremen, n.e.c.	239	230	9	—	4	5	—	—
Operatives, except transport	12 659	12 363	106	20	5	81	141	49
Assemblers	2 341	2 324	17	—	—	17	—	—
Bottling and canning operatives	34	34	—	—	—	—	—	—
Checkers, examiners, and inspectors; manufacturing	1 188	1 167	16	5	—	11	—	5
Dressmakers and seamstresses, except factory	201	119	—	—	—	—	82	—
Laundry and drycleaning operatives, including ironers	678	644	21	—	—	21	8	5
Graders and sorters, manufacturing	39	39	—	—	—	—	—	—
Packers and wrappers, except produce	1 297	1 291	6	6	—	—	—	—
Sewers and stitchers	1 215	1 198	11	—	—	11	6	—
Textile operatives	149	145	—	—	—	—	4	—
Other specified operatives	3 442	3 349	17	—	5	12	37	39
Miscellaneous and not specified operatives	2 075	2 053	18	9	—	9	4	—
Manufacturing	1 783	1 771	8	4	—	4	4	—
Durable goods	948	944	4	4	—	—	—	—
Machinery, including electrical	266	266	—	—	—	—	—	—
Other durable goods	682	678	4	4	—	—	—	—
Nondurable goods, including not specified manufacturing	835	827	4	—	—	4	4	—
Food and kindred products	166	166	—	—	—	—	—	—
Apparel and other fabricated textile products	55	55	—	—	—	—	—	—
Nonmanufacturing industries	292	282	10	5	—	5	—	—
Transport equipment operatives	600	255	325	—	37	288	7	12
Laborers, except farm	1 022	972	19	3	—	16	22	9
Formers and farm managers	79	—	—	—	—	—	79	—
Farm laborers and farm foremen	289	236	—	—	—	—	—	53
Paid farm laborers and farm foremen	236	236	—	—	—	—	—	—
Unpaid family workers	53	—	—	—	—	—	—	53
Service workers, except private household¹	13 751	11 764	1 406	60	274	1 072	497	84
Cleaning service workers	1 737	1 495	216	6	47	163	24	2
Chambermaids and maids	391	341	36	—	6	30	14	—
Food service workers	5 941	5 372	375	14	49	312	58	36
Cooks, except private household	1 153	925	179	4	14	161	28	21
Waiters and food counter workers	3 424	3 373	31	—	—	27	15	5
Health service workers	3 417	2 908	467	16	129	322	37	5
Nursing aides, orderlies, and attendants	1 822	1 550	258	16	96	146	9	5
Practical nurses	1 028	854	146	—	25	121	—	—
Personal service workers	1 737	1 149	217	10	42	165	357	14
Hairdressers and cosmetologists	1 153	810	—	—	—	—	333	10
Private household workers	1 649	1 631	—	—	—	—	18	—
Private household workers, living in	82	82	—	—	—	—	—	—
Private household workers, living out	1 567	1 549	—	—	—	—	18	—

¹Includes protective service workers and allocated cases not shown separately.

Table 173. Occupation of Employed Persons by Class of Worker, 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

LANSING SMSA

Total

	Total employed	Private wage and salary workers	Government workers				Self-employed workers	Unpaid family workers
			Total	Federal	State	Local		
Male, 16 years old and over	91 823	64 404	20 093	1 718	12 981	5 394	7 041	265
Professional, technical, and kindred workers	15 862	5 828	8 981	440	6 921	1 620	1 049	4
Accountants	1 007	591	312	41	236	35	104	—
Architects	117	75	24	—	24	—	18	—
Computer specialists	571	259	312	11	301	—	—	—
Engineers	2 080	1 290	751	66	602	83	39	—
Aeronautical and astronautical	—	—	—	—	—	—	—	—
Civil	611	96	500	52	404	44	15	—
Electrical and electronic	196	113	77	—	63	14	6	—
Mechanical	377	337	40	5	30	5	—	—
Other engineers	896	744	134	9	105	20	18	—
Lawyers and judges	391	79	173	15	125	33	139	—
Life and physical scientists	418	66	337	37	296	4	15	—
Chemists	113	37	70	—	66	4	6	—
Physicians, dentists, and related practitioners	770	207	86	9	66	11	477	—
Dentists	177	—	—	—	—	—	177	—
Pharmacists	138	86	11	—	5	6	41	—
Physicians, medical and osteopathic	349	104	32	5	27	—	213	—
Other related practitioners	106	17	43	4	34	5	46	—
Health technologists and technicians	225	104	117	6	81	30	4	—
Religious workers	440	365	5	—	—	5	70	—
Social scientists	216	70	141	27	79	35	5	—
Social and recreation workers	291	75	216	13	166	37	—	—
Teachers	4 368	485	3 866	18	2 744	1 104	17	—
College and university	2 923	210	2 713	18	2 585	110	—	—
Elementary and prekindergarten	331	52	279	—	37	242	—	—
Secondary	1 060	196	864	—	112	752	—	—
Engineering and science technicians	1 416	709	697	33	615	49	10	—
Draftsmen and surveyors	889	506	378	12	340	26	5	—
Electrical and electronic engineering technicians	152	63	89	10	56	23	—	—
Technicians, except health, and engineering and science	175	64	111	41	63	7	—	—
Airplane pilots	37	26	11	—	11	—	—	—
Writers, artists, and entertainers	1 012	634	261	10	240	11	117	—
Other professional, technical, and kindred workers	2 365	755	1 572	113	1 283	176	34	4
Managers and administrators, except farm	8 847	5 577	2 089	174	1 398	517	1 158	23
Buyers, purchasing agents, and sales managers	1 090	941	107	6	82	19	42	—
School administrators	459	89	370	—	181	189	—	—
Specified managers and administrators, public administration	877	—	877	148	558	171	—	—
Other specified managers and administrators	1 596	1 188	248	10	175	63	160	—
Managers and administrators, n.e.c., salaried	3 846	3 359	487	10	402	75	—	—
Manufacturing	612	—	—	—	—	—	—	—
Wholesale and retail trade	1 407	1 407	—	—	—	—	—	—
Transportation, communications, and other public utilities	239	197	42	—	16	26	—	—
All other industries	1 588	1 143	445	10	386	49	—	—
Managers and administrators, n.e.c., self-employed	979	—	—	—	—	—	956	23
Construction	210	—	—	—	—	—	210	—
Manufacturing	53	—	—	—	—	—	49	4
Wholesale and retail trade	523	—	—	—	—	—	504	19
All other industries	193	—	—	—	—	—	193	—
Sales workers	6 018	5 281	52	10	32	10	675	10
Insurance agents, brokers, and underwriters	854	692	—	—	—	—	162	—
Real estate agents and brokers	462	373	—	—	—	—	89	—
Sales representatives, manufacturing industries	537	528	—	—	—	—	9	—
Sales representatives, wholesale trade	910	816	—	—	—	—	89	—
Sales clerks, retail trade	1 672	1 512	15	5	10	—	140	5
Salesmen, retail trade	718	646	—	—	—	—	72	—
Salesmen of services and construction	235	207	13	—	8	5	15	—
Other sales workers	630	507	24	5	14	5	99	—
Clerical and kindred workers	6 453	4 158	2 180	761	1 189	230	106	9
Bank tellers and cashiers	320	275	45	5	34	6	—	—
Bookkeepers and billing clerks	585	431	116	7	83	26	38	—
Mail handlers and postal clerks	683	51	632	550	82	—	—	—
Other clerical and kindred workers	4 865	3 401	1 387	199	990	198	68	9
Craftsmen and kindred workers	18 547	15 704	1 607	105	865	637	1 227	9
Apparel craftsmen and upholsterers	76	62	—	—	—	—	14	—
Bakers	116	96	—	—	—	—	16	—
Cabinetmakers	38	18	10	—	—	—	10	—
Construction craftsmen	4 319	3 326	396	19	203	174	593	—
Carpenters	1 145	814	90	14	37	39	241	—
Excavating, grading, and road machine operators	363	242	84	—	32	52	37	—
Electricians	952	848	74	—	46	28	30	—
Masons and tile setters	352	266	11	—	—	11	71	—
Painters, construction and maintenance, and paperhangers	423	247	79	5	51	23	97	—
Plasterers and cement finishers	158	105	21	—	16	5	32	—
Plumbers and pipe fitters	756	660	37	—	21	16	59	—
Other construction craftsmen	170	144	—	—	—	—	26	—
Foremen, n.e.c.	2 628	2 280	301	6	166	129	47	—
Manufacturing	1 622	1 618	4	—	4	—	—	—
Nonmanufacturing industries	1 006	662	297	6	162	129	47	—
Linemen and servicemen, telephone and power	573	545	23	—	5	18	5	—
Locomotive engineers and firemen	28	—	—	—	—	—	—	—
Mechanics and repairmen	4 790	4 060	464	56	273	135	266	—
Air conditioning, heating, and refrigeration	229	191	16	—	16	—	22	—
Aircraft	58	20	33	19	14	—	5	—
Automobile, including body	2 331	2 027	148	23	77	48	156	—
Radio and television	222	144	40	10	25	5	38	—
Other mechanics and repairmen	1 950	1 678	227	4	141	82	45	—
Metal craftsmen, except mechanics	3 073	2 996	46	—	36	10	31	—
Machinists and job and die setters	829	799	19	—	9	10	11	—
Sheetmetal workers and tinsmiths	308	293	10	—	10	—	5	—
Tool and die makers	1 210	1 196	4	—	4	—	10	—
Other metal craftsmen	216	708	13	—	—	—	5	—
Printing craftsmen	476	406	50	—	45	5	20	—
Compositors and typesetters	202	166	21	—	21	—	15	—
Pressmen and plate printers, printing	204	175	29	—	24	5	—	—
Stationary engineers and power station operators	247	119	128	—	23	105	—	—
Other craftsmen and kindred workers	2 183	1 768	185	24	106	55	225	5

Table 173. Occupation of Employed Persons by Class of Worker, 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**

LANSING SMSA — Continued

Total—Continued

Male, 16 years old and over—Continued

	Total employed	Private wage and salary workers	Government workers				Self-employed workers	Unpaid family workers
			Total	Federal	State	Local		
Operatives, except transport	15 457	14 815	396	41	183	172	215	31
Assemblers.....	3 006	2 986	15	10	—	5	5	—
Checkers, examiners, and inspectors; manufacturing.....	1 558	1 552	—	—	—	—	6	—
Garage workers and gas station attendants.....	785	739	—	—	—	—	43	3
Laundry and drycleaning operatives, n.e.c.....	118	81	20	—	15	5	17	—
Meat cutters and butchers.....	303	279	9	—	9	—	10	5
Mine operatives, n.e.c.....	41	41	—	—	—	—	—	—
Packers and wrappers, except produce.....	251	240	11	—	6	5	—	—
Painters, manufactured articles.....	427	427	—	—	—	—	—	—
Precision machine operatives.....	1 183	1 142	18	4	10	4	17	6
Sawyers.....	63	63	—	—	—	—	—	—
Stationary firemen.....	124	56	68	—	21	47	—	—
Textile operatives.....	6	—	—	—	—	—	—	6
Welders and flamecutters.....	1 155	1 122	9	—	—	9	24	—
Other metalworking operatives.....	1 614	1 599	15	4	—	11	—	—
Other specified operatives.....	1 823	1 672	87	5	54	28	38	6
Miscellaneous and not specified operatives.....	3 000	2 816	144	18	68	58	58	5
Occupation:								
Machine operatives, miscellaneous specified.....	1 049	1 002	42	—	11	31	5	—
Machine operatives, not specified.....	743	717	15	7	—	8	6	5
Miscellaneous operatives.....	655	570	71	11	41	19	14	—
Not specified operatives.....	553	527	16	—	16	—	10	—
Industry:								
Manufacturing.....	2 560	2 516	24	—	5	19	15	5
Durable goods.....	2 291	2 247	24	—	5	19	15	5
Wood products, including furniture.....	68	63	5	—	5	—	—	—
Primary metal industries.....	208	208	—	—	—	—	—	—
Fabricated metal industries.....	122	122	—	—	—	—	—	—
Machinery, including electrical.....	370	354	5	—	—	5	6	5
Motor vehicles and equipment.....	1 305	1 282	14	—	—	14	9	—
Transportation equipment, except motor vehicles.....	6	6	—	—	—	—	—	—
Other durable goods.....	212	212	—	—	—	—	—	—
Nondurable goods.....	249	249	—	—	—	—	—	—
Food and kindred products.....	142	142	—	—	—	—	—	—
Apparel and other fabricated textile products.....	—	—	—	—	—	—	—	—
Paper and allied products.....	33	33	—	—	—	—	—	—
Chemicals and allied products.....	22	22	—	—	—	—	—	—
Other nondurable goods.....	52	52	—	—	—	—	—	—
Not specified manufacturing industries.....	20	20	—	—	—	—	—	—
Nonmanufacturing industries.....	440	300	120	18	63	39	20	—
Transportation, communications, and other public utilities.....	66	36	30	—	—	30	—	—
Wholesale and retail trade.....	189	169	—	—	—	—	20	—
All other industries.....	185	95	90	18	63	9	—	—
Transport equipment operatives.....	4 484	3 923	426	19	143	264	115	20
Bus drivers.....	165	64	101	—	30	71	—	—
Taxicab drivers and chauffeurs.....	229	215	14	—	14	—	—	—
Truck drivers and deliverymen.....	3 110	2 746	255	9	94	152	89	20
Other transport equipment operatives.....	980	898	56	10	5	41	26	—
Laborers, except farm.....	4 676	3 939	611	87	231	293	94	32
Construction laborers.....	809	711	89	—	43	46	—	9
Freight, stock, and material handlers.....	2 057	1 879	141	68	50	23	24	13
Other specified laborers.....	1 186	833	297	5	111	181	51	5
Miscellaneous and not specified laborers.....	624	516	84	14	27	43	19	5
Occupation:								
Miscellaneous laborers.....	222	167	46	5	4	37	4	5
Not specified laborers.....	402	349	38	9	23	6	15	—
Industry:								
Manufacturing.....	264	255	—	—	—	—	9	—
Durable goods.....	217	217	—	—	—	—	—	—
Wood products, including furniture.....	5	5	—	—	—	—	—	—
Metal industries.....	41	41	—	—	—	—	—	—
Machinery, including electrical.....	20	20	—	—	—	—	—	—
Transportation equipment.....	146	146	—	—	—	—	—	—
Other durable goods.....	5	5	—	—	—	—	—	—
Nondurable goods.....	44	38	—	—	—	—	6	—
Food and kindred products.....	17	17	—	—	—	—	—	—
Not specified manufacturing industries.....	3	—	—	—	—	—	3	—
Nonmanufacturing industries.....	360	261	84	14	27	43	10	5
Railroads and railway express service.....	31	26	5	5	—	—	—	—
Transportation, except railroads.....	22	22	—	—	—	—	—	—
Communications, and utilities and sanitary services.....	32	4	28	—	—	28	—	—
Wholesale and retail trade.....	114	105	—	—	—	—	4	5
All other industries.....	161	104	51	9	27	15	6	—
Farmers and farm managers.....	2 188	65	—	—	—	—	2 123	—
Farm laborers and farm foremen.....	786	565	69	—	53	16	14	138
Paid farm laborers and farm foremen.....	648	565	69	—	53	16	14	—
Unpaid family workers.....	138	—	—	—	—	—	—	138
Service workers, except private household ¹	8 469	4 513	3 682	81	1 966	1 635	265	9
Cleaning service workers.....	3 395	1 859	1 517	41	861	615	61	—
Food service workers.....	2 360	1 696	594	7	555	32	61	9
Cooks, except private household.....	912	737	149	3	140	6	22	4
Busboys and dishwashers.....	823	496	327	—	323	4	—	—
Health service workers.....	160	109	51	—	23	28	—	—
Personal service workers.....	627	274	178	—	114	64	175	—
Protective service workers.....	1 519	302	1 217	19	342	856	—	—
Firemen, fire protection.....	342	—	342	—	9	333	—	—
Guards and watchmen.....	455	264	191	9	134	48	—	—
Police and detectives.....	643	33	610	10	193	407	—	—
Private household workers.....	36	36	—	—	—	—	—	—

¹Includes allocated cases not shown separately.

Table 173. Occupation of Employed Persons by Class of Worker, 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

LANSING SMSA—Continued

Total—Continued

	Total employed	Private wage and salary workers	Government workers				Self-employed workers	Unpaid family workers
			Total	Federal	State	Local		
Female, 16 years old and over	57 608	36 060	19 480	1 075	12 013	6 392	1 578	490
Professional, technical, and kindred workers	9 969	3 410	6 292	139	2 705	3 448	253	12
Accountants	407	160	225	18	187	20	22	—
Computer specialists	125	41	84	5	79	—	—	—
Librarians	397	50	347	7	151	189	—	—
Mathematical specialists	19	—	19	—	19	—	—	—
Life and physical scientists	121	5	116	12	99	5	—	—
Registered nurses, dietitians, and therapists	1 485	1 188	284	—	79	205	9	4
Dietitians	37	28	5	—	5	—	4	—
Registered nurses	1 357	1 121	227	—	64	163	5	4
Health technologists and technicians	415	249	166	12	132	22	—	—
Social scientists	47	4	43	5	18	20	—	—
Social and recreation workers	314	45	269	10	165	94	—	—
Teachers: College and university	934	72	862	11	789	62	—	—
Elementary and kindergarten	2 422	506	1 916	7	157	1 752	—	—
Secondary	1 035	215	820	—	25	795	—	—
Other teachers	203	71	21	—	17	4	111	—
Engineering and science technicians	217	78	139	6	123	10	—	—
Technicians, except health, and engineering and science	33	5	28	—	18	10	—	—
Writers, artists, and entertainers	471	275	129	8	108	13	63	4
Actors and dancers	5	5	—	—	—	—	—	—
Authors, editors, and reporters	185	79	92	4	80	8	10	4
Other professional, technical, and kindred workers	1 324	446	824	38	539	247	50	4
Managers and administrators, except farm	1 660	993	436	31	293	112	211	20
Buyers, purchasing agents, and sales managers	186	171	—	—	—	—	10	5
Restaurant, cafeteria, and bar managers	155	87	12	—	8	4	56	—
School administrators	122	20	102	—	64	38	—	—
Other specified managers and administrators	457	217	211	27	122	62	29	—
Managers and administrators, n.e.c., salaried	609	498	111	4	99	8	—	—
Wholesale and retail trade	179	175	4	—	—	4	—	—
Managers and administrators, n.e.c., self-employed	131	—	—	—	—	—	116	15
Wholesale and retail trade	84	—	—	—	—	—	73	11
Sales workers	4 560	4 120	83	9	64	10	270	87
Demonstrators, hucksters, and peddlers	284	214	—	—	—	—	70	—
Insurance, real estate agents, and brokers	280	255	—	—	—	—	25	—
Sales clerks, retail trade	3 219	3 004	37	—	27	10	120	58
Salesmen, retail trade	109	94	—	—	—	—	10	5
Other sales workers	668	553	46	9	37	—	45	24
Clerical and kindred workers	23 421	13 593	9 432	843	6 942	1 647	153	243
Bank tellers	440	403	37	18	8	11	—	—
Bookkeepers	2 475	1 672	657	21	532	104	52	94
Cashiers	1 520	1 353	154	11	104	39	8	5
Counter clerks, except food	315	282	28	—	28	—	5	—
Enumerators and interviewers	37	10	27	22	—	5	—	—
File clerks	848	365	483	12	443	28	—	—
Office machine operators	1 059	581	478	36	382	60	—	—
Bookkeeping and billing machine operators	131	70	61	4	46	11	—	—
Keypunch operators	655	347	308	32	235	41	—	—
Payroll and timekeeping clerks	225	121	104	7	73	24	—	—
Receptionists	837	547	284	6	236	42	—	8
Secretaries	6 580	3 733	2 745	145	1 980	620	26	76
Stenographers	440	127	313	10	270	33	—	—
Telephone operators	629	523	106	13	68	25	—	—
Typists	2 592	1 066	1 483	106	1 216	161	26	17
Other clerical and kindred workers	5 424	2 810	2 533	436	1 602	495	36	45
Craftsman and kindred workers	846	615	166	—	103	63	56	9
Foremen, n.e.c.	155	116	35	—	31	4	4	—
Operatives, except transport	4 541	4 281	184	21	129	34	76	—
Assemblers	957	957	—	—	—	—	—	—
Battling and canning operatives	10	10	—	—	—	—	—	—
Checkers, examiners, and inspectors, manufacturing	645	645	—	—	—	—	—	—
Dressmakers and seamstresses, except factory	159	129	10	—	10	—	20	—
Laundry and drycleaning operatives, including ironers	438	368	64	12	31	21	6	—
Graders and sorters, manufacturing	24	24	—	—	—	—	—	—
Packers and wrappers, except produce	282	277	5	—	—	5	—	—
Sewers and stitchers	106	97	—	—	—	—	9	—
Textile operatives	4	4	—	—	—	—	—	—
Other specified operatives	1 165	1 085	47	9	34	4	33	—
Miscellaneous and not specified operatives	751	685	58	—	54	4	8	—
Manufacturing	578	574	—	—	—	—	—	—
Durable goods	432	432	—	—	—	—	—	—
Machinery, including electrical	86	86	—	—	—	—	—	—
Other durable goods	346	346	—	—	—	—	—	—
Nondurable goods, including not specified manufacturing	146	142	—	—	—	—	4	—
Food and kindred products	18	18	—	—	—	—	—	—
Apparel and other fabricated textile products	5	5	—	—	—	—	—	—
Nonmanufacturing industries	173	111	58	—	54	4	4	—
Transport equipment operatives	472	257	215	—	30	185	—	—
Laborers, except farm	331	283	31	11	20	—	17	—
Formers and farm managers	111	9	—	—	—	—	102	—
Farm laborers and farm foremen	119	74	—	—	—	—	—	45
Paid farm laborers and farm foremen	74	74	—	—	—	—	—	—
Unpaid family workers	45	—	—	—	—	—	—	45
Service workers, except private household¹	10 368	7 219	2 641	21	1 727	893	434	74
Cleaning service workers	1 032	834	195	—	112	83	3	—
Chambermaids and maids	219	193	26	—	21	5	—	—
Food service workers	5 019	3 491	1 450	—	1 175	275	21	57
Cooks, except private household	1 027	665	336	—	175	161	5	21
Waiters and food counter workers	2 489	2 168	274	—	256	18	16	31
Health service workers	1 961	1 543	388	6	88	294	24	6
Nursing aides, orderlies, and attendants	980	716	253	—	50	203	5	6
Practical nurses	526	446	61	—	9	52	19	—
Personal service workers	1 524	799	359	5	249	105	360	6
Hairdressers and cosmetologists	764	509	—	—	—	—	255	—
Private household workers	1 210	1 206	—	—	—	—	4	—
Private household workers, living in	115	115	—	—	—	—	—	—
Private household workers, living out	1 095	1 091	—	—	—	—	4	—

¹Includes protective service workers and allocated cases not shown separately.

Table 173. Occupation of Employed Persons by Class of Worker, 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

TOLEDO, OHIO-MICH., SMSA

Total

	Total employed	Private wage and salary workers	Government workers				Self-employed workers	Unpaid family workers
			Total	Federal	State	Local		
Male, 16 years old and over	169 497	140 668	17 198	3 275	4 537	9 386	11 384	247
Professional, technical, and kindred workers	21 207	13 510	5 528	271	2 257	3 000	2 163	6
Accountants	1 862	1 512	168	64	37	67	182	—
Architects	83	60	13	—	4	9	10	—
Computer specialists	455	436	—	—	19	—	—	—
Engineers	4 083	3 661	251	29	73	149	171	—
Aeronautical and astronautical	15	5	—	—	5	—	—	—
Civil	531	339	155	4	48	103	37	—
Electrical and electronic	539	519	15	—	—	11	5	—
Mechanical	792	775	6	6	—	—	11	—
Other engineers	2 206	2 023	65	19	16	30	118	—
Lawyers and judges	794	177	74	15	15	44	543	—
Life and physical scientists	430	389	41	7	15	19	—	—
Chemists	333	312	21	—	6	15	—	—
Physicians, dentists, and related practitioners	1 502	588	92	5	36	51	822	—
Dentists	248	25	11	—	5	6	212	—
Pharmacists	429	352	9	—	5	4	68	—
Physicians, medical and osteopathic	711	205	67	5	26	36	439	—
Other related practitioners	114	6	5	—	—	5	103	—
Health technologists and technicians	242	170	62	—	20	42	10	—
Religious workers	673	572	—	—	—	—	101	—
Social scientists	323	229	89	9	28	52	5	—
Social and recreation workers	357	84	267	9	77	181	6	—
Teachers	4 235	842	3 369	39	1 360	1 970	24	—
College and university	1 456	161	1 295	9	1 235	51	—	—
Elementary and prekindergarten	534	118	416	10	38	368	—	—
Secondary	2 085	462	1 623	10	87	1 526	—	—
Engineering and science technicians	2 329	2 103	220	20	61	139	6	—
Draftsmen and surveyors	1 253	1 130	123	—	28	95	—	—
Electrical and electronic engineering technicians	233	208	25	11	9	5	—	—
Technicians, except health, and engineering and science	250	138	106	44	35	27	6	—
Airplane pilots	73	67	6	6	—	—	—	—
Writers, artists, and entertainers	1 385	1 091	114	6	70	38	180	—
Other professional, technical, and kindred workers	2 204	1 458	643	24	407	212	97	6
Managers and administrators, except farm	16 580	12 710	1 600	380	350	870	2 212	58
Buyers, purchasing agents, and sales managers	2 389	2 245	46	15	21	10	98	—
School administrators	444	56	383	—	94	289	5	—
Specified managers and administrators, public administration	761	—	761	350	99	312	—	—
Other specified managers and administrators	2 979	2 502	90	10	28	52	369	18
Managers and administrators, n.e.c., salaried	8 227	7 907	320	5	108	207	—	—
Manufacturing	2 657	2 651	6	—	6	—	—	—
Wholesale and retail trade	2 646	2 626	20	5	15	—	—	—
Transportation, communications and other public utilities	785	729	56	—	6	50	—	—
All other industries	2 139	1 901	238	—	81	157	—	—
Managers and administrators, n.e.c., self-employed	1 780	—	—	—	—	—	1 740	40
Construction	339	—	—	—	—	—	339	—
Manufacturing	167	—	—	—	—	—	163	4
Wholesale and retail trade	903	—	—	—	—	—	894	9
All other industries	371	—	—	—	—	—	344	27
Sales workers	10 479	9 180	111	10	75	26	1 179	9
Insurance agents, brokers, and underwriters	1 204	986	—	—	—	—	218	—
Real estate agents and brokers	514	382	—	—	—	—	132	—
Sales representatives, manufacturing industries	1 394	1 342	7	—	7	—	45	—
Sales representatives, wholesale trade	1 954	1 753	3	—	3	—	198	—
Sales clerks, retail trade	2 378	2 093	40	—	40	—	241	4
Salesmen, retail trade	1 449	1 291	—	—	—	—	158	—
Salesmen of services and construction	560	482	30	10	20	—	43	5
Other sales workers	1 026	851	31	—	5	26	144	—
Clerical and kindred workers	12 082	9 499	2 435	1 710	330	395	144	4
Bank tellers and cashiers	451	404	41	—	27	14	—	—
Bookkeepers and billing clerks	1 149	978	104	4	52	48	67	—
Mail handlers and postal clerks	1 567	1 196	1 371	1 363	4	4	—	—
Other clerical and kindred workers	8 915	7 921	919	343	247	329	71	4
Craftsmen and kindred workers	39 889	35 969	1 713	216	426	1 071	2 169	38
Apparel craftsmen and upholsterers	347	239	16	—	—	16	92	—
Bakers	161	119	11	6	—	5	31	—
Cabinetmakers	148	117	4	—	4	—	27	—
Construction craftsmen	8 532	7 171	383	18	155	210	960	18
Carpenters	2 185	1 759	51	—	36	15	363	12
Excavating, grading, and road machine operators	608	457	98	—	23	75	47	6
Electricians	1 844	1 689	81	6	26	49	74	—
Masons and tile setters	530	466	6	—	—	6	58	—
Painters, construction and maintenance, and paperhangers	888	559	83	—	44	39	246	—
Plasterers and cement finishers	253	219	18	—	—	18	16	—
Plumbers and pipe fitters	1 584	1 446	36	7	21	8	102	—
Other construction craftsmen	640	576	10	5	5	—	54	—
Foremen, n.e.c.	6 480	6 192	240	49	32	159	48	—
Manufacturing	4 433	4 415	9	4	—	5	—	—
Nonmanufacturing industries	2 047	1 777	231	45	32	154	39	—
Linemen and servicemen, telephone and power	1 094	1 061	27	10	—	17	6	—
Locomotive engineers and firemen	941	929	12	8	4	—	—	—
Mechanics and repairmen	8 403	7 361	460	83	81	296	571	11
Air conditioning, heating, and refrigeration	262	200	5	—	—	5	57	—
Aircraft	115	102	13	13	—	—	—	—
Automobile, including body	3 315	2 817	177	22	9	146	315	6
Radio and television	393	278	28	17	4	7	87	—
Other mechanics and repairmen	4 318	3 964	237	31	68	138	112	5
Metal craftsmen, except mechanics	7 450	7 265	67	24	14	29	118	—
Machinists and job and die setters	2 447	2 385	37	18	4	15	25	—
Sheetmetal workers and tinsmiths	619	589	—	—	—	—	30	—
Tool and die makers	2 292	2 251	15	6	4	5	26	—
Other metal craftsmen	2 092	2 040	15	—	6	9	37	—
Printing craftsmen	975	952	18	—	9	9	5	—
Compositors and typesetters	400	382	13	—	9	4	5	—
Pressmen and plate printers, printing	383	378	5	—	—	5	—	—
Stationary engineers and power station operators	847	595	252	7	33	212	—	—
Other craftsmen and kindred workers	4 511	3 968	223	11	94	118	311	9

Table 173. Occupation of Employed Persons by Class of Worker, 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

TOLEDO, OHIO—MICH., SMSA—Continued

Total—Continued

Male, 16 years old and over—Continued

	Total employed	Private wage and salary workers	Government workers				Self-employed workers	Unpaid family workers
			Total	Federal	State	Local		
Operatives, except transport	32 433	31 361	731	185	156	410	304	17
Assemblers.....	2 949	2 887	46	11	—	35	16	—
Checkers, examiners, and inspectors, manufacturing.....	3 027	2 960	47	31	6	10	20	—
Garage workers and gas station attendants.....	1 548	1 506	15	5	—	10	27	—
Laundry and drycleaning operatives, n.e.c.....	137	104	6	—	6	—	27	—
Meat cutters and butchers.....	561	531	10	4	6	—	20	—
Mine operatives, n.e.c.....	65	65	—	—	—	—	—	—
Packers and wrappers, except produce.....	881	858	23	6	6	11	—	—
Painters, manufactured articles.....	542	542	—	—	—	—	—	—
Precision machine operatives.....	2 413	2 337	59	27	19	13	17	—
Sawyers.....	210	204	6	6	—	—	—	—
Stationary firemen.....	638	508	130	10	21	99	—	—
Textile operatives.....	196	190	6	—	—	6	—	—
Welders and flamecutters.....	2 449	2 380	36	7	10	19	27	6
Other metalworking operatives.....	2 980	2 980	40	19	5	16	—	—
Other specified operatives.....	4 756	4 508	149	35	55	59	93	6
Miscellaneous and not specified operatives.....	9 081	8 841	178	24	22	132	57	5
Occupation:								
Machine operatives, miscellaneous specified.....	3 578	3 526	36	—	—	36	16	—
Machine operatives, not specified.....	2 722	2 651	46	15	4	27	25	—
Miscellaneous operatives.....	1 368	1 285	76	5	18	53	7	—
Not specified operatives.....	1 413	1 379	20	4	—	16	9	5
Industry:								
Manufacturing.....	8 288	8 152	95	20	3	72	41	—
Durable goods.....	6 363	6 247	87	20	3	64	29	—
Wood products, including furniture.....	161	152	9	—	—	9	—	—
Primary metal industries.....	754	735	19	—	3	16	—	—
Fabricated metal industries.....	628	607	15	—	—	15	6	—
Machinery, including electrical.....	927	913	10	5	—	5	4	—
Motor vehicles and equipment.....	2 332	2 297	25	11	—	14	10	—
Transportation equipment, except motor vehicles.....	116	112	4	4	—	—	—	—
Other durable goods.....	1 445	1 431	5	—	—	5	9	—
Nondurable goods.....	1 897	1 877	8	—	—	8	12	—
Food and kindred products.....	315	309	—	—	—	—	6	—
Apparel and other fabricated textile products.....	5	5	—	—	—	—	—	—
Paper and allied products.....	573	569	4	—	—	4	—	—
Chemicals and allied products.....	347	347	—	—	—	—	—	—
Other nondurable goods.....	657	647	4	—	—	4	6	—
Not specified manufacturing industries.....	28	28	—	—	—	—	—	—
Nonmanufacturing industries.....	793	689	83	4	19	60	16	5
Transportation, communications, and other public utilities.....	254	202	52	—	9	43	—	—
Wholesale and retail trade.....	335	328	—	—	—	—	7	—
All other industries.....	204	159	31	4	10	17	9	5
Transport equipment operatives.....	10 367	9 462	495	71	82	342	389	21
Bus drivers.....	213	142	60	7	—	53	6	5
Taxicab drivers and chauffeurs.....	304	293	6	—	6	—	5	—
Truck drivers and deliverymen.....	6 847	6 133	352	43	54	255	350	12
Other transport equipment operatives.....	3 003	2 894	77	21	22	34	28	4
Laborers, except farm.....	11 661	10 304	1 133	198	160	775	207	17
Construction laborers.....	1 540	1 308	232	—	48	184	—	—
Freight, stock, and material handlers.....	5 697	5 265	388	106	37	245	34	10
Other specified laborers.....	2 428	1 956	332	56	57	219	133	7
Miscellaneous and not specified laborers.....	1 996	1 775	181	36	18	127	40	—
Occupation:								
Miscellaneous laborers.....	598	477	100	10	10	80	21	—
Not specified laborers.....	1 398	1 298	81	26	8	47	19	—
Industry:								
Manufacturing.....	1 030	1 009	16	4	3	9	5	—
Durable goods.....	798	777	16	4	3	9	5	—
Wood products, including furniture.....	33	33	—	—	—	—	—	—
Metal industries.....	289	286	3	—	3	—	—	—
Machinery, including electrical.....	91	91	—	—	—	—	—	—
Transportation equipment.....	188	183	5	—	—	5	—	—
Other durable goods.....	197	184	8	4	—	4	5	—
Nondurable goods.....	216	216	—	—	—	—	—	—
Food and kindred products.....	47	47	—	—	—	—	—	—
Not specified manufacturing industries.....	16	16	—	—	—	—	—	—
Nonmanufacturing industries.....	966	766	165	32	15	118	35	—
Railroads and railway express service.....	196	177	19	14	—	5	—	—
Transportation, except railroads.....	92	92	—	—	—	—	—	—
Communications, and utilities and sanitary services.....	103	46	57	—	6	51	—	—
Wholesale and retail trade.....	261	250	—	—	—	—	11	—
All other industries.....	314	201	89	18	9	62	24	—
Farmers and farm managers.....	1 936	85	6	—	6	—	1 845	—
Farm laborers and farm foremen.....	762	688	12	—	6	6	—	62
Paid farm laborers and farm foremen.....	700	688	12	—	6	6	—	62
Unpaid family workers.....	62	—	—	—	—	—	—	—
Service workers, except private household ¹	12 042	7 841	3 414	234	689	2 491	772	15
Cleaning service workers.....	4 601	3 360	1 184	122	298	764	57	—
Food service workers.....	2 380	2 041	150	—	126	24	174	3
Cooks, except private household.....	727	682	9	—	5	4	33	—
Busboys and dishwashers.....	542	482	60	—	51	9	—	—
Health service workers.....	361	224	137	—	111	26	—	—
Personal service workers.....	1 196	622	78	13	25	40	496	—
Protective service workers.....	2 753	950	1 800	92	123	1 585	3	—
Firemen, fire protection.....	474	14	460	—	—	460	—	—
Guards and watchmen.....	1 031	875	153	54	35	64	3	—
Policemen and detectives.....	1 132	53	1 079	38	88	953	—	—
Private household workers.....	59	59	—	—	—	—	—	—

¹Includes allocated cases not shown separately.

Table 173. Occupation of Employed Persons by Class of Worker, 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 TOLEDO, OHIO-MICH., SMSA—Continued Total—Continued	Total employed	Private wage and salary workers	Government workers			Self-employed workers	Unpaid family workers	
			Total	Federal	State			Local
Female, 16 years old and over	96 186	75 376	16 947	1 384	4 850	10 533	2 839	824
Professional, technical, and kindred workers	14 839	7 248	7 016	217	1 269	5 530	508	67
Accountants	459	372	71	27	13	31	16	—
Computer specialists	74	61	13	7	—	6	—	—
Librarians	347	74	267	—	70	197	—	6
Mathematical specialists	9	5	4	—	—	4	—	—
Life and physical scientists	32	12	20	—	10	10	—	—
Registered nurses, dietitians, and therapists	3 318	2 631	612	20	201	391	69	6
Dietitians	156	120	36	—	20	16	—	—
Registered nurses	2 952	2 402	492	20	138	334	52	6
Health technologists and technicians	686	601	85	7	19	59	—	—
Social scientists	31	14	14	—	5	9	3	—
Social and recreation workers	458	120	333	30	72	231	5	—
Teachers: College and university	483	116	384	5	369	10	—	—
Elementary and prekindergarten	4 304	1 111	3 174	60	145	2 969	14	5
Secondary	1 650	434	1 216	9	73	1 134	—	—
Other teachers	443	175	54	4	15	39	197	17
Engineering and science technicians	146	116	30	4	10	16	—	—
Technicians, except health, and engineering and science	55	21	34	15	4	15	—	—
Writers, artists, and entertainers	729	551	59	—	29	30	114	5
Actors and dancers	30	30	—	—	—	—	—	—
Authors, editors, and reporters	99	78	5	—	5	—	16	—
Other professional, technical, and kindred workers	1 615	851	646	33	234	379	90	28
Managers and administrators, except farm	3 196	2 294	385	44	99	242	451	66
Buyers, purchasing agents, and sales managers	601	561	21	5	6	10	19	—
Restaurant, cafeteria, and bar managers	431	252	24	—	6	18	147	8
School administrators	214	97	113	—	27	86	4	—
Other specified managers and administrators	588	330	199	39	41	119	54	5
Managers and administrators, n.e.c., salaried	1 082	1 054	28	—	19	9	—	—
Wholesale and retail trade	379	379	—	—	—	—	—	—
Managers and administrators, n.e.c., self-employed	280	—	—	—	—	—	227	53
Wholesale and retail trade	140	—	—	—	—	—	122	18
Sales workers	7 945	7 450	89	—	30	59	310	116
Demonstrators, hucksters, and peddlers	503	407	11	—	—	11	85	—
Insurance, real estate agents, and brokers	504	462	—	—	—	—	31	11
Sales clerks, retail trade	5 650	5 400	36	—	9	27	130	84
Salesmen, retail trade	191	164	—	—	—	—	17	10
Other sales workers	1 117	1 017	42	—	21	21	47	11
Clerical and kindred workers	33 189	27 139	5 474	1 063	1 891	2 518	252	324
Bank tellers	739	704	35	28	7	—	—	—
Bookkeepers	3 964	3 493	252	21	95	136	110	109
Cashiers	2 889	2 695	151	11	67	73	30	13
Counter clerks, except food	543	543	28	—	19	9	11	12
Enumerators and interviewers	98	28	61	54	7	—	9	—
File clerks	813	632	175	33	81	61	—	6
Office machine operators	1 296	1 144	152	6	61	85	—	—
Bookkeeping and billing machine operators	252	236	16	—	11	5	—	—
Keypunch operators	652	553	99	6	34	59	—	—
Payroll and timekeeping clerks	431	399	32	5	6	21	—	—
Receptionists	1 074	902	149	3	93	53	5	18
Secretaries	9 025	7 396	1 533	157	597	779	22	74
Stenographers	339	228	107	16	40	51	—	4
Telephone operators	1 313	1 209	99	25	29	45	—	5
Typists	3 144	2 358	744	104	291	349	19	23
Other clerical and kindred workers	7 470	5 408	1 956	602	498	856	46	60
Craftsmen and kindred workers	1 588	1 343	103	5	28	70	123	19
Foremen, n.e.c.	291	261	30	—	15	15	—	—
Operatives, except transport	10 606	10 241	193	34	52	107	144	28
Assemblers	1 795	1 759	32	—	7	25	—	4
Bottling and canning operatives	51	—	—	—	—	—	—	—
Checkers, examiners, and inspectors, manufacturing	1 281	1 277	4	—	—	4	—	—
Dressmakers and seamstresses, except factory	221	149	5	—	—	5	62	5
Laundry and drycleaning operatives, including ironers	888	828	50	—	19	31	6	4
Graders and sorters, manufacturing	43	—	—	—	—	—	—	—
Packers and wrappers, except produce	1 275	1 252	18	13	—	5	—	—
Sewers and stitchers	638	599	15	9	6	—	24	—
Textile operatives	21	21	—	—	—	—	—	—
Other specified operatives	2 310	2 248	23	8	—	15	29	10
Miscellaneous and not specified operatives	2 083	2 014	46	4	20	22	18	5
Manufacturing	1 848	1 823	13	—	8	5	7	5
Durable goods	977	964	13	—	8	5	—	—
Machinery, including electrical	363	363	—	—	—	—	—	—
Other durable goods	614	601	13	—	8	5	—	—
Nondurable goods, including not specified manufacturing	871	859	—	—	—	—	7	5
Food and kindred products	170	170	—	—	—	—	—	—
Apparel and other fabricated textile products	46	46	—	—	—	—	—	—
Nonmanufacturing industries	235	191	33	4	12	17	11	—
Transport equipment operatives	935	439	480	27	45	408	11	5
Laborers, except farm	982	927	19	11	—	8	36	—
Farmers and farm managers	127	16	—	—	—	—	111	—
Farm laborers and farm foremen	373	319	—	—	—	—	5	49
Paid farm laborers and farm foremen	324	319	—	—	—	—	5	—
Unpaid family workers	49	—	—	—	—	—	—	49
Service workers, except private household¹	19 941	15 737	3 188	161	1 436	1 591	872	144
Cleaning service workers	2 528	1 972	510	19	240	251	40	6
Chambermaids and maids	759	689	64	—	44	20	—	6
Food service workers	8 876	7 311	1 364	40	736	588	116	85
Cooks, except private household	1 993	1 549	384	19	126	239	34	26
Waiters and food counter workers	5 023	4 511	404	7	259	138	57	51
Health service workers	4 200	3 685	494	25	220	249	10	11
Nursing aides, orderlies, and attendants	2 016	1 733	267	20	172	75	5	11
Practical nurses	1 309	1 220	84	5	17	62	5	—
Personal service workers	2 674	1 462	496	58	147	291	685	31
Hairdressers and cosmetologists	1 608	986	10	—	—	10	591	21
Private household workers	2 445	2 423	—	—	—	—	16	6
Private household workers, living in	119	119	—	—	—	—	—	—
Private household workers, living out	2 326	2 304	—	—	—	—	16	6

¹Includes protective service workers and allocated cases not shown separately.

Table 173. Occupation of Employed Persons by Class of Worker, 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

TOLEDO, OHIO-MICH., SMSA—Continued

	Total employed	Private wage and salary workers	Government workers				Self-employed workers	Unpaid family workers
			Total	Federal	State	Local		
Negro								
Male, 16 years old and over	10 647	8 537	1 674	528	266	880	436	-
Professional, technical, and kindred workers	616	311	260	16	62	182	45	-
Accountants	35	25	4	-	-	4	6	-
Architects	-	-	-	-	-	-	-	-
Computer specialists	6	6	-	-	-	-	-	-
Engineers	32	20	12	-	-	12	-	-
Aeronautical and astronautical	-	-	-	-	-	-	-	-
Civil	12	6	6	-	-	6	-	-
Electrical and electronic	6	6	6	-	-	6	-	-
Mechanical	9	9	-	-	-	-	-	-
Other engineers	5	5	-	-	-	-	-	-
Lawyers and judges	22	-	5	-	5	-	17	-
Life and physical scientists	5	5	-	-	-	-	-	-
Chemists	5	5	-	-	-	-	-	-
Physicians, dentists, and related practitioners	48	25	6	-	-	6	17	-
Dentists	14	6	6	-	-	6	8	-
Pharmacists	15	15	-	-	-	-	-	-
Physicians, medical and osteopathic	19	10	-	-	-	-	9	-
Other related practitioners	-	-	-	-	-	-	-	-
Health technologists and technicians	20	10	10	-	5	5	-	-
Religious workers	28	23	-	-	-	-	5	-
Social scientists	3	-	3	3	-	-	-	-
Social and recreation workers	46	6	40	-	9	31	-	-
Teachers	143	34	109	-	16	93	-	-
College and university	19	10	9	-	9	-	-	-
Elementary and prekindergarten	44	-	44	-	7	37	-	-
Secondary	75	19	56	-	-	56	-	-
Engineering and science technicians	74	60	14	-	5	9	-	-
Draftsmen and surveyors	51	42	9	-	-	9	-	-
Electrical and electronic engineering technicians	4	4	-	-	-	-	-	-
Technicians, except health, and engineering and science	6	6	-	-	-	-	-	-
Airplane pilots	-	-	-	-	-	-	-	-
Writers, artists, and entertainers	46	28	18	6	-	12	-	-
Other professional, technical, and kindred workers	102	63	39	7	22	10	-	-
Managers and administrators, except farm	332	149	97	26	16	55	66	-
Buyers, purchasing agents, and sales managers	30	30	-	-	-	-	-	-
School administrators	10	-	10	-	-	10	-	-
Specified managers and administrators, public administration	49	-	49	26	12	11	-	-
Other specified managers and administrators	53	43	10	-	4	6	-	-
Managers and administrators, n.e.c., salaried	124	96	28	-	-	28	-	-
Manufacturing	17	17	-	-	-	-	-	-
Wholesale and retail trade	26	26	-	-	-	-	-	-
Transportation, communications and other public utilities	11	11	-	-	-	-	-	-
All other industries	70	42	28	-	-	28	-	-
Managers and administrators, n.e.c., self-employed	66	-	-	-	-	-	66	-
Construction	16	-	-	-	-	-	16	-
Manufacturing	-	-	-	-	-	-	-	-
Wholesale and retail trade	26	-	-	-	-	-	26	-
All other industries	24	-	-	-	-	-	24	-
Sales workers	169	134	9	-	9	-	26	-
Insurance agents, brokers, and underwriters	28	22	-	-	-	-	6	-
Real estate agents and brokers	-	-	-	-	-	-	-	-
Sales representatives, manufacturing industries	11	11	-	-	-	-	-	-
Sales representatives, wholesale trade	6	6	-	-	-	-	-	-
Sales clerks, retail trade	101	72	9	-	9	-	20	-
Salesmen, retail trade	-	-	-	-	-	-	-	-
Salesmen of services and construction	3	3	-	-	-	-	-	-
Other sales workers	20	20	-	-	-	-	-	-
Clerical and kindred workers	689	440	244	208	4	32	5	-
Bank tellers and cashiers	7	7	-	-	-	-	-	-
Bookkeepers and billing clerks	45	45	-	-	-	-	-	-
Mail handlers and postal clerks	191	27	164	164	-	-	-	-
Other clerical and kindred workers	446	361	80	44	4	32	5	-
Craftsmen and kindred workers	1 553	1 321	104	27	36	41	128	-
Apparel craftsmen and upholsterers	10	-	-	-	-	-	10	-
Bakers	4	4	-	-	-	-	-	-
Cabinetmakers	5	5	-	-	-	-	-	-
Construction craftsmen	320	223	30	-	18	12	67	-
Carpenters	42	38	4	-	4	-	-	-
Excavating, grading, and road machine operators	27	14	6	-	6	-	7	-
Electricians	47	29	5	-	-	5	13	-
Masons and tile setters	51	51	-	-	-	-	-	-
Painters, construction and maintenance, and paperhangers	64	31	-	-	-	-	33	-
Plasterers and cement finishers	53	43	7	-	-	7	3	-
Plumbers and pipe fitters	27	8	8	-	8	-	11	-
Other construction craftsmen	9	9	-	-	-	-	-	-
Foremen, n.e.c.	137	127	10	4	-	6	-	-
Manufacturing	88	84	4	4	-	-	-	-
Nonmanufacturing industries	49	43	6	-	-	6	-	-
Linemen and servicemen, telephone and power	81	75	-	-	-	-	6	-
Locomotive engineers and firemen	10	10	-	-	-	-	-	-
Mechanics and repairmen	335	283	40	16	10	14	12	-
Air conditioning, heating, and refrigeration	-	-	-	-	-	-	-	-
Aircraft	-	-	-	-	-	-	-	-
Automobile, including body	157	135	10	5	-	5	12	-
Radio and television	-	-	-	-	-	-	-	-
Other mechanics and repairmen	178	148	30	11	10	9	-	-
Metal craftsmen, except mechanics	222	215	7	7	-	-	-	-
Machinists and job and die setters	108	101	7	7	-	-	-	-
Sheetmetal workers and fitters	6	6	-	-	-	-	-	-
Tool and die makers	7	7	-	-	-	-	-	-
Other metal craftsmen	101	101	-	-	-	-	-	-
Printing craftsmen	40	36	4	-	4	-	-	-
Compositors and typesetters	30	26	4	-	4	-	-	-
Pressmen and plate printers, printing	5	5	-	-	-	-	-	-
Stationary engineers and power station operators	22	13	9	-	-	9	-	-
Other craftsmen and kindred workers	367	330	4	-	4	-	33	-

Table 173. Occupation of Employed Persons by Class of Worker, 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

TOLEDO, OHIO-MICH., SMSA—Continued

Negro—Continued

Male, 16 years old and over—Continued

	Total employed	Private wage and salary workers	Government workers				Self-employed workers	Unpaid family workers
			Total	Federal	State	Local		
Operatives, except transport	3 303	3 095	191	51	52	88	17	
Assemblers.....	270	256	14	--	--	14	--	
Checkers, examiners, and inspectors; manufacturing	240	240	--	--	--	--	--	
Garage workers and gas station attendants.....	42	42	--	--	--	--	--	
Laundry and drycleaning operatives, n.e.c.....	17	8	--	--	--	--	9	
Meat cutters and butchers.....	6	6	--	--	--	--	--	
Mine operatives, n.e.c.....	8	8	--	--	--	--	--	
Packers and wrappers, except produce.....	71	54	17	6	--	11	--	
Painters, manufactured articles.....	63	63	--	--	--	--	--	
Precision machine operatives.....	119	99	12	7	5	--	8	
Sawyers.....	6	--	6	6	--	--	--	
Stationary firemen.....	50	45	5	5	--	--	--	
Textile operatives.....	32	32	--	--	--	--	--	
Welders and flamecutters.....	165	154	11	7	4	--	--	
Other metalworking operatives.....	402	381	21	5	--	16	--	
Other specified operatives.....	733	680	53	4	40	9	--	
Miscellaneous and not specified operatives	1 079	1 027	52	11	3	38	--	
Occupation:								
Machine operatives, miscellaneous specified.....	324	318	6	--	--	6	--	
Machine operatives, not specified.....	474	457	17	11	--	6	--	
Miscellaneous operatives.....	126	103	23	--	3	20	--	
Not specified operatives.....	155	149	6	--	--	6	--	
Industry:								
Manufacturing.....	990	949	41	11	3	27	--	
Durable goods.....	886	845	41	11	3	27	--	
Wood products, including furniture.....	7	7	--	--	--	--	--	
Primary metal industries.....	276	261	15	--	3	12	--	
Fabricated metal industries.....	88	77	11	--	--	11	--	
Machinery, including electrical.....	51	51	--	--	--	--	--	
Motor vehicles and equipment.....	345	330	15	11	--	4	--	
Transportation equipment, except motor vehicles.....	34	34	--	--	--	--	--	
Other durable goods.....	85	85	--	--	--	--	--	
Nondurable goods.....	99	99	--	--	--	--	--	
Food and kindred products.....	24	24	--	--	--	--	--	
Apparel and other fabricated textile products.....	--	--	--	--	--	--	--	
Paper and allied products.....	5	5	--	--	--	--	--	
Chemicals and allied products.....	4	4	--	--	--	--	--	
Other nondurable goods.....	66	66	--	--	--	--	--	
Not specified manufacturing industries.....	5	5	--	--	--	--	--	
Nonmanufacturing industries.....	89	78	11	--	--	11	--	
Transportation, communications, and other public utilities.....	10	4	6	--	--	6	--	
Wholesale and retail trade.....	58	58	--	--	--	--	--	
All other industries.....	21	16	5	--	--	5	--	
Transport equipment operatives	736	581	95	25	--	70	60	
Bus drivers.....	25	18	7	7	--	--	--	
Taxicab drivers and chauffeurs.....	26	26	--	--	--	--	--	
Truck drivers and deliverymen.....	402	263	85	18	--	67	54	
Other transport equipment operatives.....	283	274	3	--	--	3	6	
Laborers, except farm	1 608	1 286	307	106	7	194	15	
Construction laborers.....	298	293	5	--	--	5	--	
Freight, stock, and material handlers.....	468	323	140	41	--	99	5	
Other specified laborers.....	497	379	113	56	--	57	5	
Miscellaneous and not specified laborers.....	345	291	49	9	7	33	5	
Occupation:								
Miscellaneous laborers.....	105	91	14	--	4	10	--	
Not specified laborers.....	240	200	35	9	3	23	5	
Industry:								
Manufacturing.....	242	234	8	--	3	5	--	
Durable goods.....	199	191	8	--	3	5	--	
Wood products, including furniture.....	9	9	--	--	--	--	--	
Metal industries.....	88	85	3	--	3	--	--	
Machinery, including electrical.....	27	27	--	--	--	--	--	
Transportation equipment.....	39	34	5	--	--	5	--	
Other durable goods.....	36	36	--	--	--	--	--	
Nondurable goods.....	43	43	--	--	--	--	--	
Food and kindred products.....	--	--	--	--	--	--	--	
Not specified manufacturing industries.....	--	--	--	--	--	--	--	
Nonmanufacturing industries.....	103	57	41	9	4	28	5	
Railroads and railway express service.....	15	10	5	--	--	5	--	
Transportation, except railroads.....	5	5	--	--	--	--	--	
Communications, and utilities and sanitary services.....	13	8	5	--	--	5	--	
Wholesale and retail trade.....	34	34	--	--	4	--	--	
All other industries.....	36	--	31	9	4	18	5	
Farmers and farm managers	38	--	--	--	--	--	38	
Farm laborers and farm foremen	44	44	--	--	--	--	--	
Paid farm laborers and farm foremen.....	44	44	--	--	--	--	--	
Unpaid family workers.....	--	--	--	--	--	--	--	
Service workers, except private household¹	1 546	1 143	367	69	80	218	36	
Cleaning service workers.....	817	605	202	47	45	110	10	
Food service workers.....	199	199	--	--	--	--	--	
Cooks, except private household.....	88	88	--	--	--	--	--	
Busboys and dishwashers.....	24	24	--	--	--	--	--	
Health service workers.....	54	17	37	--	31	6	--	
Personal service workers.....	87	56	15	--	--	15	16	
Protective service workers.....	104	26	78	15	4	59	--	
Firemen, fire protection.....	4	--	4	--	--	4	--	
Guards and watchmen.....	41	26	15	15	--	--	--	
Policemen and detectives.....	59	--	59	--	4	55	--	
Private household workers	13	13	--	--	--	--	--	

¹Includes allocated cases not shown separately.

Table 173. Occupation of Employed Persons by Class of Worker, 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

TOLEDO, OHIO-MICH., SMSA—Continued

Negro—Continued

Female, 16 years old and over

	Total employed	Private wage and salary workers	Government workers				Self-employed workers	Unpaid family workers
			Total	Federal	State	Local		
Female, 16 years old and over	8 747	6 427	2 173	431	537	1 205	131	16
Professional, technical, and kindred workers	1 046	321	723	61	126	536	22	
Accountants	12	4	8	—	8	—	—	—
Computer specialists	6	—	6	—	—	6	—	—
Librarians	—	—	—	—	—	—	—	—
Mathematical specialists	—	—	—	—	—	—	—	—
Life and physical scientists	—	—	—	—	—	—	—	—
Registered nurses, dietitians, and therapists	153	95	53	10	28	15	5	—
Dietitians	31	24	5	—	—	5	—	—
Registered nurses	112	65	42	10	22	10	5	—
Health technologists and technicians	62	50	12	—	—	12	—	—
Social scientists	4	—	4	—	—	4	—	—
Social and recreation workers	118	19	94	5	21	68	5	—
Teachers: College and university	13	6	7	—	7	—	—	—
Elementary and prekindergarten	374	33	341	30	28	283	—	—
Secondary	66	6	60	—	4	56	—	—
Other teachers	21	12	4	—	—	4	5	—
Engineering and science technicians	11	—	11	—	5	6	—	—
Technicians, except health, and engineering and science	—	—	—	—	—	—	—	—
Writers, artists, and entertainers	17	7	10	—	—	10	—	—
Actors and dancers	—	—	—	—	—	—	—	—
Authors, editors, and reporters	7	7	—	—	—	—	—	—
Other professional, technical, and kindred workers	209	89	113	16	25	72	7	—
Managers and administrators, except farm	160	84	56		16	40	14	6
Buyers, purchasing agents, and sales managers	19	19	—	—	—	—	—	—
Restaurant, cafeteria, and bar managers	32	27	5	—	—	5	—	—
School administrators	—	—	—	—	—	—	—	—
Other specified managers and administrators	67	17	46	—	16	30	4	—
Managers and administrators, n.e.c., salaried	26	21	5	—	—	5	—	—
Wholesale and retail trade	—	—	—	—	—	—	—	—
Managers and administrators, n.e.c., self-employed	16	—	—	—	—	—	10	6
Wholesale and retail trade	10	—	—	—	—	—	10	—
Sales workers	255	234	15		5	10		6
Demonstrators, hucksters, and peddlers	9	9	—	—	—	—	—	—
Insurance, real estate agents, and brokers	28	28	—	—	—	—	—	—
Sales clerks, retail trade	178	157	15	—	5	10	—	6
Salesmen, retail trade	—	—	—	—	—	—	—	—
Other sales workers	40	40	—	—	—	—	—	—
Clerical and kindred workers	1 889	1 175	688	277	134	277	22	4
Bank tellers	30	30	—	—	—	—	—	—
Bookkeepers	74	31	33	10	20	3	6	4
Cashiers	100	85	11	5	—	6	4	—
Counter clerks, except food	37	37	—	—	—	—	—	—
Enumerators and interviewers	—	—	—	—	—	—	—	—
File clerks	48	28	20	6	9	5	—	—
Office machine operators	117	86	31	—	16	15	—	—
Bookkeeping and billing machine operators	25	25	—	—	—	—	—	—
Keypunch operators	56	37	19	—	9	10	—	—
Payroll and timekeeping clerks	6	6	—	—	—	—	—	—
Receptionists	27	21	6	—	6	—	—	—
Secretaries	259	160	99	44	22	33	—	—
Stenographers	22	10	12	12	—	—	—	—
Telephone operators	120	100	20	9	11	—	—	—
Typists	181	93	88	26	15	47	—	—
Other clerical and kindred workers	868	488	368	165	35	168	12	—
Craftsman and kindred workers	123	110	13				13	
Foremen, n.e.c.	12	12	—	—	—	—	—	—
Operatives, except transport	1 089	1 039	50	10	17	23		
Assemblers	152	139	13	—	7	6	—	—
Bottling and canning operatives	—	—	—	—	—	—	—	—
Checkers, examiners, and inspectors; manufacturing	115	115	—	—	—	—	—	—
Dressmakers and seamstresses, except factory	5	5	—	—	—	—	—	—
Laundry and drycleaning operatives, including ironers	238	217	21	—	4	17	—	—
Graders and sorters, manufacturing	—	—	—	—	—	—	—	—
Packers and wrappers, except produce	87	81	6	6	—	—	—	—
Sewers and stitchers	30	30	—	—	—	—	—	—
Textile operatives	—	—	—	—	—	—	—	—
Other specified operatives	288	288	—	—	—	—	—	—
Miscellaneous and not specified operatives	174	164	10	4	6	—	—	—
Manufacturing	151	151	—	—	—	—	—	—
Durable goods	90	90	—	—	—	—	—	—
Machinery, including electrical	15	15	—	—	—	—	—	—
Other durable goods	75	75	—	—	—	—	—	—
Nondurable goods, including not specified manufacturing	61	61	—	—	—	—	—	—
Food and kindred products	20	20	—	—	—	—	—	—
Apparel and other fabricated textile products	—	—	—	—	—	—	—	—
Nonmanufacturing industries	23	13	10	4	6	—	—	—
Transport equipment operatives	80	43	32	16	—	16	5	—
Laborers, except farm	122	119	3	—	—	3	—	—
Farmers and farm managers	10	6	—	—	—	—	4	—
Farm laborers and farm foremen	37	37	—	—	—	—	—	—
Paid farm laborers and farm foremen	37	37	—	—	—	—	—	—
Unpaid family workers	—	—	—	—	—	—	—	—
Service workers, except private household¹	2 952	2 305	593	67	239	287	54	
Cleaning service workers	511	442	69	—	40	29	—	—
Chambermaids and maids	232	223	9	—	9	—	—	—
Food service workers	801	677	120	5	70	45	4	—
Cooks, except private household	322	304	14	—	8	6	4	—
Writers and food counter workers	242	183	59	—	35	24	—	—
Health service workers	871	692	179	25	79	75	—	—
Nursing aides, orderlies, and attendants	598	476	122	20	70	32	—	—
Practical nurses	215	184	31	5	3	23	—	—
Personal service workers	310	136	128	29	18	81	46	40
Hairdressers and cosmetologists	64	24	—	—	—	—	—	—
Private household workers	964	954					10	
Private household workers, living in	7	7	—	—	—	—	—	—
Private household workers, living out	957	947	—	—	—	—	10	—

¹Includes protective service workers and allocated cases not shown separately.

Table 174. Occupation of Employed Persons by Age, Race, 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
Standard Metropolitan Statistical
Areas of 250,000 or More**

THE STATE

Total

	Persons 14 and 15 years old	Persons 16 years old and over											Median age
		Total	16 and 17 years	18 and 19 years	20 to 24 years	25 to 29 years	30 to 34 years	35 to 44 years	45 to 54 years	55 to 59 years	60 to 64 years	65 years and over	
Male employed	26 184	2 089 004	61 813	85 422	230 105	254 483	219 071	452 309	443 588	172 497	106 756	62 940	39.3
Professional, technical, and kindred workers	301	284 817	1 248	3 923	31 926	50 202	41 127	69 463	52 219	16 546	10 781	7 382	37.0
Accountants	6	21 266	20	75	2 163	3 755	2 658	4 753	4 632	1 496	1 012	702	39.1
Architects	—	1 950	4	3	91	227	267	554	494	117	113	80	41.9
Computer specialists	—	7 741	9	122	1 388	2 463	1 638	1 527	499	69	21	5	29.8
Engineers	—	53 509	18	178	3 270	7 668	7 561	14 769	13 462	3 715	1 976	892	40.5
Aeronautical and astronautical	—	344	—	—	21	42	74	110	81	5	6	5	38.2
Civil	—	4 428	—	13	243	578	651	1 211	1 070	276	204	182	41.0
Electrical and electronic	—	6 721	8	54	426	1 077	920	1 991	1 635	327	211	172	39.4
Mechanical	—	16 947	—	56	1 134	2 231	2 290	4 722	4 436	1 286	608	184	40.9
Other engineers	—	25 069	10	55	1 446	3 740	3 626	6 735	6 240	1 821	947	449	40.4
Lawyers and judges	—	8 707	—	5	77	1 225	1 226	2 321	1 590	709	743	811	42.8
Life and physical scientists	—	5 857	—	33	501	1 155	1 003	1 461	1 028	477	171	28	36.6
Chemists	—	4 018	—	—	358	760	646	989	736	388	122	19	37.5
Physicians, dentists, and related practitioners	—	20 639	—	12	388	2 108	2 726	6 018	4 665	1 502	1 406	1 814	43.5
Dentists	—	3 865	—	—	14	251	639	1 166	919	287	206	383	43.8
Pharmacists	—	4 003	—	8	253	458	372	1 048	792	265	426	381	43.7
Physicians, medical and osteopathic	—	10 713	—	—	56	1 200	1 537	3 250	2 347	748	665	906	42.9
Other related practitioners	—	2 058	—	—	45	199	178	554	607	202	109	144	45.5
Health technologists and technicians	8	3 334	35	161	842	658	498	511	445	123	74	47	29.8
Religious workers	4	8 450	4	7	197	837	1 184	2 221	1 896	780	596	690	43.8
Social scientists	—	4 316	—	7	284	1 105	822	1 092	678	190	81	57	34.6
Social and recreation workers	21	4 397	63	85	662	1 051	573	1 007	576	181	134	65	32.9
Teachers	76	51 097	167	344	8 504	12 298	8 229	11 429	6 081	1 872	1 428	745	32.6
College and university	—	14 555	4	162	2 621	2 908	2 445	3 676	2 210	690	519	320	35.4
Elementary and prekindergarten	39	10 726	34	13	2 316	2 772	1 572	2 210	1 097	334	259	119	30.7
Secondary	21	23 771	43	56	4 299	6 358	3 936	5 138	2 439	716	560	226	31.4
Engineering and science technicians	4	35 113	380	1 540	6 467	5 999	4 565	7 738	5 596	1 698	828	302	33.5
Draftsmen and surveyors	4	20 232	278	962	4 220	3 506	2 567	4 381	2 851	809	462	196	32.2
Electrical and electronic engineering technicians	—	3 057	5	49	515	727	482	727	409	93	35	15	32.4
Technicians, except health, and engineering and science	6	2 849	19	24	326	432	506	663	613	158	59	49	36.8
Airplane pilots	—	845	—	—	45	142	174	230	207	32	—	—	15
Writers, artists, and entertainers	80	21 593	399	668	2 720	3 242	3 036	5 127	3 794	1 286	792	529	36.4
Other professional, technical, and kindred workers	96	33 999	130	621	4 046	5 979	4 695	8 272	6 170	2 173	1 347	566	36.8
Managers and administrators, except farm	169	191 993	352	1 273	9 375	17 854	20 694	51 803	52 448	18 737	11 943	7 512	44.0
Buyers, purchasing agents, and sales managers	6	25 773	64	181	1 481	3 207	3 123	6 894	6 675	2 363	1 193	592	42.0
School administrators	—	6 754	9	9	166	402	941	2 708	1 577	505	327	110	41.8
Specified managers and administrators, public administration	7	10 696	—	57	214	565	819	2 492	3 660	1 357	849	683	48.3
Other specified managers and administrators	75	31 984	77	374	2 758	3 841	3 719	7 594	7 709	2 779	1 959	1 228	41.9
Managers and administrators, n.e.c., salaried	62	90 324	197	614	4 246	8 524	9 947	25 429	25 041	8 111	5 105	3 056	43.5
Manufacturing	40	29 252	27	64	507	2 155	2 770	8 770	9 302	3 139	1 676	842	45.4
Wholesale and retail trade	13	28 544	107	453	2 393	3 314	3 450	7 366	6 692	2 237	1 503	1 029	41.2
Transportation, communications, and other public utilities	—	6 815	—	10	210	574	678	1 823	2 256	642	466	156	45.5
All other industries	9	25 713	63	87	1 136	2 481	3 049	7 470	6 791	2 093	1 514	1 029	43.1
Managers and administrators, n.e.c., self-employed	19	26 462	5	38	510	1 315	2 145	6 686	7 786	3 622	2 512	1 843	48.3
Construction	—	4 745	—	11	79	273	488	1 425	1 457	500	322	190	45.7
Manufacturing	13	2 710	—	—	35	106	193	614	801	418	276	267	50.1
Wholesale and retail trade	6	13 466	5	18	305	654	1 057	3 197	3 973	1 852	1 392	1 013	48.8
All other industries	—	5 541	—	9	91	282	407	1 450	1 555	852	522	373	48.4
Sales workers	10 445	125 944	5 911	5 806	12 254	14 496	12 349	26 458	25 371	9 557	7 073	6 649	39.6
Insurance agents, brokers, and underwriters	67	13 904	23	5	1 177	2 004	1 740	3 696	3 115	873	683	588	40.4
Real estate agents and brokers	—	8 277	—	51	364	732	806	1 681	1 962	891	764	1 026	47.6
Sales representatives, manufacturing industries	46	15 772	27	37	886	2 268	2 018	4 230	3 805	1 306	669	526	41.3
Sales representatives, wholesale trade	15	22 854	72	204	1 669	3 120	2 553	5 689	5 294	1 795	1 392	1 066	41.7
Sales clerks, retail trade	574	29 169	303	3 830	4 701	2 447	1 951	3 586	4 132	1 910	1 609	1 700	30.8
Salesmen, retail trade	65	16 619	245	724	1 605	1 735	1 726	3 609	3 732	1 492	961	790	41.3
Salesmen of services and construction	38	6 007	130	116	422	798	609	1 567	1 292	502	272	299	40.9
Other sales workers	9 640	13 342	2 111	839	1 430	1 392	946	2 400	2 039	788	723	674	34.8
Clerical and kindred workers	872	140 423	3 699	7 632	21 100	17 077	13 149	27 345	28 680	11 355	6 574	3 810	37.8
Bank tellers and cashiers	120	4 281	624	871	1 022	345	227	285	358	218	170	161	23.2
Bookkeepers and billing clerks	28	11 593	111	314	1 533	1 693	1 157	2 209	2 111	1 001	770	694	39.5
Mail handlers and postal clerks	18	16 016	195	703	1 357	1 079	1 344	4 451	4 825	1 234	556	272	42.5
Other clerical and kindred workers	706	108 533	2 769	5 744	17 188	13 960	10 421	20 400	27 386	8 902	5 080	2 683	37.1
Craftsmen and kindred workers	755	479 480	2 951	10 163	42 597	58 098	53 870	117 494	116 279	43 113	25 220	9 695	41.1
Apparel craftsmen and upholsterers	8	3 192	13	99	243	275	246	589	740	418	264	305	46.8
Bakers	28	2 905	135	135	292	177	294	569	595	322	280	106	42.4
Cabinetmakers	5	2 009	10	52	135	194	193	357	436	252	204	176	46.5
Construction craftsmen	166	102 786	465	1 789	9 058	12 894	11 957	26 104	24 105	8 382	5 727	2 305	40.8
Carpenters	22	27 285	135	486	2 390	3 300	3 050	6 481	6 579	2 357	1 630	877	41.6
Excavating, grading, and road machine operators	15	9 676	29	81	62	1 122	1 527	2 755	2 239	767	416	68	40.1
Electricians	5	21 671	31	263	1 856	3 149	2 596	5 349	5 140	1 816	1 127	344	40.5
Masons and tile setters	17	7 706	39	100	616	886	923	2 564	1 713	476	280	109	40.0
Painters, construction and maintenance, and paperhangers	86	10 659	163	337	1 024	1 085	1 004	2 381	2 388	1 013	838	426	42.2
Plasterers and cement finishers	7	2 732	11	42	217	204	333	636	717	222	97	53	41.7
Plumbers and pipe fitters	—	17 579	26	261	1 728	2 267	1 854	4 400	4 245	1 361	1 084	353	41.0
Other construction craftsmen	14	5 478	31	219	555	881	670	1 338	1 084	370	255	75	37.9
Foremen, n.e.c.	19	76 947	74	272	2 417	7 303	9 307	22 811	22 595	7 658	3 625	885	43.4
Manufacturing	10	55 222	29	165	1 421	5 595	7 063	16 103	16 386	5 643	2 398	419	43.3
Nonmanufacturing industries	9	21 725	45										

Table 174. Occupation of Employed Persons by Age, Race, 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
Standard Metropolitan Statistical
Areas of 250,000 or More

THE STATE—Continued

Total—Continued

Male employed—Continued

	Persons 14 and 15 years old	Persons 16 years old and over											
		Total	16 and 17 years	18 and 19 years	20 to 24 years	25 to 29 years	30 to 34 years	35 to 44 years	45 to 54 years	55 to 59 years	60 to 64 years	65 years and over	Median age
Operatives, except transport	1 873	425 651	10 097	22 860	60 790	55 770	42 720	83 087	86 962	36 692	19 637	7 036	37.5
Assemblers.....	68	60 669	445	3 475	13 070	10 415	6 412	11 252	9 589	3 814	1 708	489	32.3
Checkers, examiners, and inspectors; manufacturing	—	36 285	31	511	4 009	4 304	3 588	7 707	9 107	4 634	1 959	435	42.4
Garage workers and gas station attendants.....	565	18 941	5 499	5 002	2 815	1 029	656	1 256	1 110	512	484	578	19.6
Laundry and drycleaning operatives, n.e.c.	24	2 312	154	199	162	159	138	450	464	241	196	149	42.6
Meat cutters and butchers.....	15	8 402	147	407	876	1 009	965	1 679	1 554	773	563	429	39.7
Mine operatives, n.e.c.	—	3 076	19	71	355	293	343	697	773	330	182	13	41.6
Packers and wrappers, except produce.....	90	8 322	900	819	1 460	951	603	1 300	1 222	557	390	120	30.3
Painters, manufactured articles.....	14	7 867	104	355	990	1 025	796	1 740	1 695	684	392	86	38.8
Precision machine operatives.....	21	44 262	163	1 350	5 451	6 005	4 521	8 034	10 950	4 754	2 358	676	40.8
Sawyers.....	5	3 557	10	179	384	353	343	585	776	412	310	205	43.7
Stationary firemen.....	10	4 681	18	25	299	378	413	1 011	1 384	625	358	170	46.4
Textile operatives.....	—	467	13	20	69	81	41	85	81	47	18	12	36.1
Welders and flamecutters.....	20	34 864	61	1 234	4 401	4 833	4 019	7 810	7 698	3 069	1 407	332	38.7
Other metalworking operatives.....	34	36 828	284	1 563	5 000	5 265	3 842	7 562	7 981	3 185	1 631	515	38.3
Other specified operatives.....	846	52 800	1 021	2 744	7 031	6 198	5 331	11 018	10 573	4 330	2 969	1 585	38.7
Miscellaneous and not specified operatives.....	161	102 318	1 228	4 906	14 418	13 472	10 709	20 901	22 005	8 725	4 712	1 242	38.1
Occupation:													
Machine operatives, miscellaneous specified.....	38	40 892	354	1 753	5 910	5 479	4 389	8 601	8 623	3 464	1 922	397	38.0
Machine operatives, not specified.....	12	29 163	110	1 160	4 141	4 135	3 239	5 670	6 355	2 646	1 375	332	38.2
Miscellaneous operatives.....	84	19 295	612	1 308	2 704	2 339	1 680	3 910	4 005	1 624	782	331	37.6
Not specified operatives.....	27	12 968	152	685	1 663	1 519	1 401	2 720	3 022	991	633	182	38.9
Industry:													
Manufacturing.....	65	93 560	686	4 259	13 174	12 441	9 963	19 300	20 377	8 047	4 286	1 027	38.2
Durable goods.....	39	71 249	469	3 044	10 141	9 872	7 577	14 384	15 648	6 214	3 121	779	38.1
Wood products, including furniture.....	—	3 183	72	171	504	364	299	532	571	337	248	85	38.4
Primary metal industries.....	—	10 172	59	488	1 406	1 272	1 122	2 153	2 343	833	369	127	38.4
Fabricated metal industries.....	11	6 413	48	407	884	880	637	1 327	1 246	553	344	87	37.6
Machinery, including electrical.....	15	15 716	181	792	2 241	2 322	1 492	2 994	3 514	1 270	721	189	37.8
Motor vehicles and equipment.....	13	29 498	34	884	4 278	4 183	3 365	6 030	6 698	2 698	1 139	189	38.3
Transportation equipment, except motor vehicles	—	1 399	5	77	240	169	160	217	285	124	85	37	37.2
Other durable goods.....	—	4 868	70	225	588	682	502	1 131	991	399	215	65	38.2
Nondurable goods.....	26	21 619	212	1 164	2 940	2 515	2 336	4 728	4 604	1 759	1 125	236	38.5
Food and kindred products.....	—	4 296	75	211	425	364	426	1 000	1 030	395	288	82	41.5
Apparel and other fabricated textile products	—	386	5	41	69	50	81	45	66	10	19	—	31.7
Paper and allied products.....	—	6 037	34	287	881	719	689	1 501	1 114	468	299	45	37.7
Chemicals and allied products.....	9	4 509	21	160	628	609	534	974	993	339	213	38	38.1
Other nondurable goods.....	17	6 391	77	465	937	773	606	1 208	1 401	547	306	71	37.9
Not specified manufacturing industries.....	—	692	5	51	93	54	50	188	125	74	40	12	39.8
Nonmanufacturing industries.....	96	8 758	542	647	1 244	1 031	746	1 601	1 628	678	426	215	36.1
Transportation, communications, and other public utilities	5	1 745	30	57	280	257	159	355	341	132	100	34	37.5
Wholesale and retail trade.....	65	3 791	374	305	461	388	289	609	723	361	184	97	36.3
All other industries.....	26	3 222	138	285	503	386	298	637	564	185	142	84	35.0
Transport equipment operatives	347	116 236	1 450	4 000	12 571	13 605	12 620	28 041	26 582	9 605	5 142	2 620	39.9
Bus drivers.....	—	4 590	11	11	288	316	268	824	1 344	685	583	260	49.3
Taxicab drivers and chauffeurs.....	6	5 315	93	137	527	446	390	1 192	1 181	525	409	415	43.9
Truck drivers and deliverymen.....	188	78 801	1 055	2 737	7 950	8 887	8 695	19 932	18 685	6 533	3 037	1 290	40.1
Other transport equipment operatives.....	153	27 530	291	1 115	3 806	3 956	3 267	6 093	5 372	1 862	1 113	655	37.2
Laborers, except farm	3 708	119 149	15 557	14 927	17 530	10 993	8 599	18 774	17 499	7 531	5 014	2 723	30.3
Construction laborers.....	134	15 638	483	1 149	2 371	1 813	1 608	3 453	2 615	1 109	754	283	36.1
Freight, stock, and material handlers.....	1 502	55 598	10 951	9 181	8 450	4 863	3 398	6 929	6 727	2 897	1 598	604	24.5
Other specified laborers.....	1 491	25 922	2 849	2 742	3 428	2 195	1 859	4 242	4 099	1 699	1 591	1 218	34.7
Miscellaneous and not specified laborers.....	581	21 991	1 274	1 855	3 281	2 122	1 734	4 152	4 058	1 826	1 071	618	36.8
Occupation:													
Miscellaneous laborers.....	191	7 795	232	483	937	665	592	1 728	1 648	846	494	170	40.7
Not specified laborers.....	390	14 196	1 042	1 372	2 344	1 457	1 142	2 424	2 410	980	577	448	33.9
Industry:													
Manufacturing.....	56	13 805	290	1 092	2 361	1 537	1 253	2 741	2 443	1 092	634	282	36.3
Durable goods.....	5	11 645	181	873	1 975	1 385	1 072	2 353	2 066	1 019	507	214	36.4
Wood products, including furniture.....	5	504	33	76	70	37	37	115	62	23	32	19	34.9
Metal industries.....	—	4 696	50	411	777	504	452	929	821	458	211	83	36.7
Machinery, including electrical.....	—	1 325	50	137	235	176	118	232	234	72	57	14	32.7
Transportation equipment.....	—	4 283	6	175	787	552	391	917	824	383	181	67	37.5
Other durable goods.....	—	837	42	74	106	116	74	160	125	83	26	31	35.4
Nondurable goods.....	46	2 061	109	200	375	148	175	372	358	140	121	63	35.6
Food and kindred products.....	14	770	50	72	158	42	91	120	124	50	43	20	33.5
Not specified manufacturing industries.....	5	99	—	19	11	4	6	16	19	13	6	5	....
Nonmanufacturing industries.....	525	8 186	984	763	920	585	481	1 411	1 615	654	437	336	37.6
Railroads and railway express service	—	1 154	—	75	158	62	51	221	333	176	72	6	45.3
Transportation, except railroads.....	7	379	46	10	43	41	62	32	86	14	33	12	34.0
Communications, and utilities and sanitary services	22	1 084	5	52	126	92	66	293	296	92	52	10	41.9
Wholesale and retail trade.....	167	2 789	549	341	282	170	161	427	401	158	154	146	31.6
All other industries.....	329	2 780	384	285	311	220	141	438	499	214	126	162	36.1
Farmers and farm managers	86	29 703	145	251	1 441	1 762	2 019	5 029	7 554	4 245	3 171	4 086	50.6
Farm laborers and farm foremen	1 812	12 810	2 910	1 823	1 619	900	774	1 209	1 277	759	596	943	25.3
Paid farm laborers and farm foremen.....	1 399	11 057	2 381	1 489	1 374	832	724	1 084	1 202	668	531	772	26.7
Unpaid family workers.....	413	1 753	529	334	245	68	50	125	75	91	65	171	20.3
Service workers, except private household¹	5 548	161 969	17 384	12 689	18 848	13 674	11 116	23 455	28 595	14 297	11 524	10 387	38.1
Cleaning service workers.....	1 751	63 638	4 889	4 472	6 132	3 698	3 161	7 991	13 178	8 143	6 531	5 443	46.1
Food service workers.....	2 491	32 706	10 569	5 232	4 564	1 393	1 181	2 863	3 178	1 394	1 133	1 199	20.6
Cooks, except private household.....	551	11 492	3 679	1 944	1 432	544	576	1 107	1 036	461	371	342	20.4
Busboys and dishwashers.....	1 370	8 931	4 700	2 002	1 235	176	82	224	158	99	105	150	17.9
Health service workers.....	43	6 180	297	879	1 610	691	472	769	817	286	240</		

Table 174. Occupation of Employed Persons by Age, Race, 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
Standard Metropolitan Statistical
Areas of 250,000 or More

THE STATE—Continued

Total—Continued

	Persons 14 and 15 years old	Persons 16 years old and over											Median age
		Total	16 and 17 years	18 and 19 years	20 to 24 years	25 to 29 years	30 to 34 years	35 to 44 years	45 to 54 years	55 to 59 years	60 to 64 years	65 years and over	
Female employed	11 855	1 163 826	41 434	77 731	187 411	113 932	93 634	229 641	241 389	90 044	54 378	34 032	37.9
Professional, technical, and kindred workers	266	177 075	1 009	2 689	33 161	29 215	18 010	34 638	31 287	13 252	8 960	4 844	36.3
Accountants.....	10	6 931	33	182	934	625	571	1 573	1 898	562	349	204	42.1
Computer specialists.....	5	1 612	—	40	531	440	164	267	123	43	4	—	27.7
Librarians.....	6	3 702	71	169	386	424	287	669	844	426	284	142	42.7
Mathematical specialists.....	—	265	—	14	52	32	42	19	74	16	4	—	34.1
Life and physical scientists.....	—	946	7	5	203	204	177	175	114	32	11	12	31.5
Registered nurses, dietitians, and therapists.....	12	34 595	56	276	5 415	4 742	3 511	7 985	7 401	2 853	1 633	733	39.1
Dietitians.....	—	1 444	19	26	139	127	92	352	407	154	93	35	44.1
Registered nurses.....	7	30 936	37	193	4 698	4 114	3 291	7 329	6 635	2 552	1 447	640	39.3
Health technologists and technicians.....	4	8 090	37	333	2 288	1 643	935	1 343	980	302	161	68	29.2
Social scientists.....	—	684	—	19	137	110	101	124	107	46	26	14	33.8
Social and recreation workers.....	11	5 992	63	56	1 245	1 033	450	1 029	1 186	477	303	150	36.4
Teachers: College and university.....	4	5 482	5	257	1 003	1 130	687	1 041	790	279	168	122	32.5
Elementary and prekindergarten.....	41	54 352	104	112	10 074	9 530	5 683	10 587	8 547	4 640	3 634	1 441	36.6
Secondary.....	19	20 433	64	48	4 740	4 638	2 108	3 532	2 890	1 176	888	349	31.7
Other teachers.....	46	4 719	182	166	479	520	542	882	813	388	263	484	40.3
Engineering and science technicians.....	—	2 569	25	183	646	404	219	418	443	110	87	34	30.6
Technicians, except health, and engineering and science.....	—	488	16	11	107	71	39	106	93	32	13	—	35.0
Writers, artists, and entertainers.....	50	7 309	240	436	1 504	904	694	1 376	1 238	452	217	248	34.1
Actors and dancers.....	—	287	—	31	162	47	23	16	4	—	—	—	23.5
Authors, editors, and reporters.....	6	1 735	22	58	481	183	159	307	308	99	53	45	33.9
Other professional, technical, and kindred workers.....	58	18 906	106	382	3 417	2 765	1 800	3 512	3 756	1 418	915	835	37.8
Managers and administrators, except farm	43	35 388	93	487	2 543	2 409	2 724	8 211	10 373	4 021	2 729	1 798	46.2
Buyers, purchasing agents, and sales managers.....	4	4 968	5	96	467	386	411	1 101	1 374	644	347	137	45.1
Restaurant, cafeteria, and bar managers.....	9	3 468	27	56	165	233	237	891	1 181	378	172	128	46.1
School administrators.....	4	2 261	6	39	66	94	228	572	643	301	242	70	47.0
Other specified managers and administrators.....	10	8 600	31	123	755	626	611	1 858	2 464	958	658	516	46.2
Managers and administrators, n.e.c., salaried.....	7	11 691	20	163	1 032	951	972	2 785	3 219	1 179	832	538	44.7
Wholesale and retail trade.....	7	4 032	9	71	320	289	303	939	1 149	426	327	199	45.7
Managers and administrators, n.e.c., self-employed.....	9	4 400	4	10	58	119	265	1 004	1 492	561	478	409	50.0
Wholesale and retail trade.....	9	2 694	4	4	32	70	164	638	886	361	296	239	49.9
Sales workers	1 191	94 736	7 238	8 745	10 361	5 371	5 486	17 174	21 299	9 339	5 674	4 049	40.9
Demonstrators, hucksters, and peddlers.....	8	5 225	60	167	566	741	756	1 234	1 019	310	210	162	37.6
Insurance, real estate agents, and brokers.....	12	5 544	30	91	577	313	381	1 197	1 612	671	346	326	46.1
Sales clerks, retail trade.....	588	67 974	6 139	7 284	7 075	2 996	3 112	11 746	15 587	7 077	4 143	2 815	41.3
Salesmen, retail trade.....	31	3 170	149	248	379	192	175	606	773	319	195	134	42.3
Other sales workers.....	552	12 823	860	955	1 764	1 129	1 062	2 391	2 308	962	780	612	37.7
Clerical and kindred workers	1 852	409 700	13 768	38 217	88 356	40 301	32 725	76 832	74 456	23 871	13 833	7 341	33.7
Bank tellers.....	10	10 573	79	671	2 911	1 219	951	2 307	1 785	447	151	52	32.1
Bookkeepers.....	55	48 239	537	2 479	6 981	4 077	3 701	10 804	11 659	3 852	2 635	1 514	40.9
Cashiers.....	256	32 467	3 149	4 590	5 580	2 674	2 518	5 736	5 142	1 703	926	449	30.5
Counter clerks, except food.....	90	7 486	648	782	1 224	510	511	1 190	1 495	599	326	201	35.6
Enumerators and interviewers.....	8	1 669	15	60	212	131	230	462	343	110	57	49	39.0
File clerks.....	179	11 119	949	2 137	2 788	708	538	1 394	1 544	582	323	156	24.4
Office machine operators.....	24	17 814	256	1 765	5 325	2 488	1 664	3 096	2 262	623	219	116	28.1
Bookkeeping and billing machine operators.....	4	2 334	64	237	600	292	217	438	320	91	51	24	29.6
Keypunch operators.....	4	10 480	130	1 070	3 607	1 662	1 054	1 731	936	219	55	16	26.3
Payroll and timekeeping clerks.....	5	4 722	20	172	908	466	435	1 058	1 151	285	182	45	38.4
Receptionists.....	68	13 285	690	1 594	3 237	1 156	805	2 254	1 984	780	476	309	29.9
Secretaries.....	147	104 691	1 734	7 450	24 206	12 056	9 105	19 654	19 887	5 805	3 199	1 595	33.8
Stenographers.....	5	5 040	80	417	1 441	560	397	735	940	273	144	53	30.3
Telephone operators.....	16	14 423	378	2 054	3 435	1 025	974	2 788	2 136	731	612	290	31.6
Typists.....	148	39 309	2 152	5 205	10 351	3 915	2 841	6 139	5 546	1 736	985	439	27.5
Other clerical and kindred workers.....	841	98 863	3 081	8 841	19 757	9 316	8 055	19 215	18 582	6 345	3 598	2 073	35.2
Craftsmen and kindred workers	89	20 334	288	694	2 269	1 774	1 638	4 585	5 106	1 918	1 172	890	42.6
Foremen, n.e.c.....	—	3 718	—	57	245	307	314	888	1 086	402	268	151	45.4
Operatives, except transport	604	145 554	1 231	4 643	15 079	13 512	12 609	35 642	40 382	13 265	6 181	3 010	42.2
Assemblers.....	44	27 035	86	835	3 220	2 851	2 546	6 791	7 611	2 100	730	265	40.9
Bottling and canning operatives.....	—	562	6	31	57	39	31	186	132	50	24	16	41.3
Checkers, examiners, and inspectors; manufacturing.....	4	12 880	21	180	961	853	954	3 256	4 493	1 489	558	115	45.5
Dressmakers and seamstresses, except factory.....	19	3 120	15	24	133	94	146	539	865	469	405	410	51.8
Laundry and drycleaning operatives, including ironers.....	19	9 085	191	307	669	526	561	2 123	2 726	1 016	646	320	45.6
Graders and sorters, manufacturing.....	—	582	10	7	50	31	33	159	157	52	48	35	45.1
Packers and wrappers, except produce.....	46	13 275	255	667	1 141	1 095	1 278	3 173	3 833	1 123	566	144	41.9
Sewers and stitchers.....	11	10 455	24	185	740	789	793	2 628	3 074	1 232	598	392	45.2
Textile operatives.....	—	391	—	15	36	26	24	87	87	36	9	—	41.7
Other specified operatives.....	361	37 735	416	1 210	4 503	4 046	3 412	8 886	9 470	3 212	1 641	939	40.9
Miscellaneous and not specified operatives.....	100	30 434	207	1 182	3 549	3 152	2 831	7 775	7 934	2 486	956	362	40.5
Manufacturing.....	51	27 404	99	947	3 172	2 879	2 578	7 053	7 358	2 243	796	279	40.7
Durable goods.....	31	16 226	39	454	1 858	1 624	1 430	4 130	4 527	1 298	408	156	40.8
Machinery, including electrical.....	5	3 911	12	119	431	394	319	1 026	1 202	282	75	51	41.6
Other durable goods.....	26	12 315	27	335	1 427	1 338	1 305	3 104	3 325	1 016	333	105	40.6
Nondurable goods, including not specified manufacturing.....	20	11 178	60	493	1 314	1 147	954	2 923	2 831	945	388	123	40.5
Food and kindred products.....	—	1 412	10	42	118	123	85	343	417	136	116	22	44.6
Apparel and other fabricated textile products.....	—	642	—	47	92	55	35	171	145	78	8	11	40.4
Nonmanufacturing industries.....	49	3 030	108	235	377	273	253	722	576	243	160	83	38.7
Transport equipment operatives.....	11	8 390	31	83	519	800	1 232	2 978	1 925	492	222	108	40.1
Laborers, except farm	253	11 814	612	818	1 386	1 106	1 036	2 625	2 565	834	437	395	38.6
Farmers and farm managers	<												

Table 174. Occupation of Employed Persons by Age, Race, 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
Standard Metropolitan Statistical
Areas of 250,000 or More

THE STATE—Continued

Negro

	Persons 14 and 15 years old	Persons 16 years old and over											Median age
		Total	16 and 17 years	18 and 19 years	20 to 24 years	25 to 29 years	30 to 34 years	35 to 44 years	45 to 54 years	55 to 59 years	60 to 64 years	65 years and over	
Male employed	1 931	191 581	4 025	7 243	23 882	24 140	19 832	43 795	40 720	14 701	8 558	4 685	38.8
Professional, technical, and kindred workers	52	10 114	61	237	1 368	2 045	1 509	2 637	1 451	433	178	195	34.5
Engineers	—	698	—	—	79	182	83	187	110	45	—	12	35.3
Lawyers and judges	—	191	—	5	6	6	17	42	56	5	9	45	48.5
Life and physical scientists	—	192	—	—	29	47	51	43	22	—	—	—	32.0
Physicians, dentists, and related practitioners	—	552	—	—	12	41	52	220	158	21	19	29	42.8
Health workers, except practitioners	7	717	—	16	82	122	134	232	76	41	14	—	35.2
Social and recreation workers	13	688	6	9	45	185	103	199	107	25	5	4	34.8
Teachers	6	2 364	5	24	376	531	378	606	294	111	21	18	33.3
Technicians, except health	—	987	6	101	199	225	134	213	77	20	12	—	29.2
Writers, artists, and entertainers	11	767	23	32	123	144	156	177	63	22	19	8	32.0
Other professional, technical, and kindred workers	15	2 958	10	50	417	562	401	718	488	143	79	79	35.4
Managers and administrators, except farm	—	5 177	39	90	404	696	625	1 502	1 056	392	163	210	39.9
Salaried	—	4 154	39	85	391	632	537	1 239	778	228	118	107	38.2
Manufacturing	—	409	14	6	24	102	50	95	56	26	22	14	35.9
Retail trade	—	874	15	40	122	163	152	177	114	38	13	40	33.2
All other industries	—	2 871	10	39	245	367	335	967	608	164	83	53	39.5
Self-employed	—	1 023	—	5	13	64	88	263	278	164	45	103	47.8
Retail trade	—	456	—	—	13	40	41	119	137	61	6	39	46.1
All other industries	—	567	—	5	—	24	47	144	141	103	39	64	49.5
Sales workers	474	3 734	285	318	590	657	350	639	506	174	91	124	30.2
Manufacturing and wholesale trade	413	868	93	75	90	195	107	170	81	23	30	4	29.5
Retail trade	55	1 795	186	220	321	225	136	247	241	90	25	104	28.8
All other industries	6	1 071	6	23	179	237	107	222	184	61	36	16	34.2
Clerical and kindred workers	182	12 254	429	872	1 948	1 618	1 271	2 711	2 141	690	336	238	35.0
Bookkeepers and billing clerks	6	431	8	23	70	118	46	76	60	15	—	15	29.9
Mail handlers and postal clerks	—	2 610	29	110	207	216	240	879	676	121	87	45	40.7
Other clerical and kindred workers	176	9 213	392	739	1 671	1 284	985	1 756	1 405	554	249	178	32.6
Craftsmen and kindred workers	88	29 096	152	520	2 922	3 311	2 968	7 696	7 522	2 256	1 171	578	41.1
Carpenters	—	776	5	6	71	61	46	171	272	73	48	23	46.0
Construction craftsmen, except carpenters	12	4 679	8	72	378	489	387	1 392	1 271	311	234	137	42.2
Automobile mechanics, including body repairmen	—	4 178	27	106	353	449	435	1 125	1 139	346	126	72	41.4
Mechanics and repairmen, except auto	7	3 183	47	59	376	365	371	819	717	244	135	50	39.6
Machinists	—	518	—	10	63	95	56	147	95	26	15	11	37.4
Metal craftsmen, except mechanics and machinists	11	4 817	16	40	406	503	492	1 191	1 490	418	193	68	43.0
Foremen, n.e.c.	—	3 121	7	4	139	357	376	1 164	733	252	68	21	40.8
Other craftsmen and kindred workers	58	7 824	42	223	1 136	992	805	1 687	1 805	586	352	196	39.2
Operatives, except transport	305	73 563	651	2 616	10 967	10 480	8 250	16 427	14 871	5 448	2 845	1 008	37.3
Assemblers	21	16 414	78	725	3 359	2 970	1 932	3 422	2 576	852	371	129	32.8
Garage workers and gas station attendants	18	1 167	112	128	149	101	78	186	198	78	70	67	35.8
Laundry and drycleaning operatives, including ironers	7	1 126	55	61	84	59	83	202	239	181	90	72	45.8
Precision machine operatives	—	3 565	11	87	545	553	485	781	712	242	93	26	36.3
Other operatives, except transport	259	51 291	395	1 615	6 830	6 797	5 672	11 836	11 116	4 095	2 221	714	38.7
Durable goods, manufacturing	133	43 771	183	1 316	5 901	5 789	4 942	10 325	9 479	3 434	1 803	599	38.6
Nondurable goods, including not specified manufacturing	23	3 762	49	144	531	532	420	692	766	387	193	48	38.0
Nonmanufacturing industries	103	3 758	163	155	398	476	310	819	871	274	225	67	39.6
Transport equipment operatives	50	13 722	102	222	1 236	1 511	1 486	3 491	3 485	1 137	659	393	41.6
Truck drivers	12	5 141	21	30	376	497	495	1 511	1 427	404	288	92	42.6
Other transport equipment operatives	38	8 581	81	192	860	1 014	991	1 980	2 058	733	371	301	40.8
Laborers, except farm	276	19 561	977	1 154	2 158	1 866	1 491	4 345	4 209	1 728	1 188	445	39.9
Construction laborers	4	2 868	33	51	174	184	223	836	753	281	250	83	44.2
Freight, stock, and material handlers	305	7 153	646	632	949	850	550	1 261	1 284	607	285	89	34.5
Other laborers, except farm	167	9 540	298	471	1 035	832	718	2 248	2 172	840	653	273	41.3
Manufacturing industries	24	5 388	80	254	674	463	398	1 360	1 153	471	416	119	41.1
Farmers and farm managers	—	161	—	—	32	11	4	29	46	35	4	—	46.0
Farm laborers and farm foremen	23	563	29	46	51	49	66	110	121	55	6	32	38.8
Service workers, except private household	479	23 385	1 295	1 188	2 196	1 885	1 789	4 140	5 275	2 327	1 884	1 426	43.1
Cleaning service workers	209	12 578	541	446	886	791	783	2 152	3 211	1 627	1 268	873	47.1
Food service workers	76	2 530	519	283	242	108	165	484	349	149	136	95	33.4
Health service workers	11	1 322	55	142	249	145	143	284	208	57	25	14	32.4
Personal service workers	46	1 678	86	50	118	134	123	333	443	136	152	103	44.8
Protective service workers	—	2 629	12	23	317	461	339	486	486	165	143	197	38.3
Private household workers	22	249	5	—	10	11	23	68	37	26	33	36	47.0
Female employed	977	133 920	2 775	6 579	21 276	17 308	14 445	30 783	25 415	8 008	4 555	2 776	36.5
Professional, technical, and kindred workers	52	15 037	74	301	2 155	2 644	2 109	4 097	2 548	700	258	151	35.6
Registered nurses	—	2 377	—	41	216	266	358	796	531	121	36	12	38.9
Health workers, except nurses	—	1 808	5	32	298	276	255	510	311	87	34	—	35.7
Teachers, elementary and secondary schools	6	5 909	25	39	837	1 303	784	1 664	901	200	98	58	34.8
Technicians, except health	—	194	—	12	52	28	35	31	24	12	—	—	30.7
Other professional, technical, and kindred workers	46	4 749	44	177	752	771	677	1 096	781	280	90	81	34.7
Managers and administrators, except farm	10	2 350	6	42	152	321	287	592	606	148	112	84	41.2
Salaried	10	1 991	6	42	152	286	241	517	471	121	100	55	40.2
Self-employed	—	359	—	—	—	35	46	75	135	27	12	29	46.7
Sales workers	105	5 131	302	496	892	825	527	1 215	799	234	91	50	33.3
Retail trade	81	4 399	261	450	797	460	440	1 019	646	209	82	35	32.6
Clerical and kindred workers	326	37 915	1 417	3 567	10 549	6 009	4 472	6 743	3 812	758	369	219	27.8
Bookkeepers and cashiers	16	4 629	151	403	1 198	768	452	943	558	77	43	36	28.7
Office machine operators	9	2 535	32	204	980	520	289	338	164	33	—	5	25.8
Secretaries, stenographers, and typists	67	9 844	413	906	3 082	1 787	1 206	1 379	668	105	53	45	26.2
Other clerical and kindred workers	234	21 107	821	2 054	5 319	2 934	2 525	4 083	2 422	543	273	133	29.0
Craftsmen and kindred workers	13	1 863	19	37	334	267	179	433	350	134	86	24	37.2
Operatives, except transport	112	20 355	86	549	2 598	3 043	2 341	5 286	4 426	1 168	555	303	38.0
Sewers and stitchers	—	1 231	8	17	99	186	131	359	311	64	41	15	39.9
Laundry and drycleaning operatives, including ironers	—	3 866	11	102	258	200	287	1 100	1 169	297	165	77	43.9
Other operatives, except transport	112	15 458	67	430	2 241	2 657	1 923	3 827	2 946	807	349	211	36.1
Durable goods, manufacturing	42	9 915	13	227	1 429	1 873	1 310	2 354	1 894	470	210	135	35.4
Nondurable goods, including not specified manufacturing													

Table 174. Occupation of Employed Persons by Age, Race, 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
Standard Metropolitan Statistical
Areas of 250,000 or More**

THE STATE—Continued

Persons of Spanish Language

Male employed

	Persons 14 and 15 years old	Persons 16 years old and over											Median age
		Total	16 and 17 years	18 and 19 years	20 to 24 years	25 to 29 years	30 to 34 years	35 to 44 years	45 to 54 years	55 to 59 years	60 to 64 years	65 years and over	
Professional, technical, and kindred workers	274	25 545	827	1 150	3 539	4 315	3 320	6 148	3 900	1 062	695	589	34.4
Engineers.....	22	2 841	25	47	283	676	492	868	311	60	19	60	34.0
Lawyers and judges.....	—	474	—	—	29	127	98	139	59	8	—	14	34.1
Life and physical scientists.....	—	21	—	—	—	—	—	16	5	—	—	—	...
Physicians, dentists, and related practitioners.....	—	32	—	—	—	—	—	27	—	5	—	—	...
Health workers, except practitioners.....	—	518	—	6	15	86	113	196	71	—	6	25	37.0
Social and recreation workers.....	—	114	—	15	13	33	4	26	8	—	—	15	29.4
Teachers.....	—	42	6	—	—	23	13	—	—	—	—	—	...
Technicians, except health.....	—	415	—	—	65	129	90	92	39	—	—	—	30.8
Writers, artists, and entertainers.....	—	390	—	21	56	98	63	95	47	6	—	—	31.6
Other professional, technical, and kindred workers.....	15	276	19	—	57	37	28	64	42	29	—	—	34.5
Managers and administrators, except farm.....	7	559	—	5	48	143	83	209	40	12	13	6	35.0
Salaried.....	—	1 228	—	6	109	176	204	287	279	64	67	36	39.1
Self-employed.....	—	988	—	—	92	169	173	223	241	53	29	8	37.7
Manufacturing.....	—	191	—	—	8	40	27	32	72	—	4	8	41.4
Retail trade.....	—	272	—	—	51	48	52	49	53	19	—	—	33.6
All other industries.....	—	525	—	—	33	81	94	142	116	34	25	—	38.8
Sales workers.....	—	240	—	6	17	7	31	64	38	11	38	28	44.2
Manufacturing and wholesale trade.....	—	176	—	—	9	—	25	49	29	5	31	28	46.7
Retail trade.....	—	64	—	6	8	7	6	15	9	6	7	—	...
All other industries.....	—	92	55	93	107	163	99	124	148	15	—	18	29.8
Clerical and kindred workers.....	81	297	11	31	27	63	55	28	70	—	—	12	31.5
Bookkeepers and billing clerks.....	11	272	44	51	39	45	15	42	22	8	—	6	25.2
Mail handlers and postal clerks.....	—	253	—	11	41	55	29	54	56	7	—	—	33.4
Other clerical and kindred workers.....	14	1 387	94	99	235	241	148	269	215	37	30	19	30.8
Craftsmen and kindred workers.....	5	4 771	71	103	555	774	743	1 287	730	241	170	97	36.1
Carpenters.....	—	199	—	—	53	33	40	32	29	—	—	12	31.7
Construction craftsmen, except carpenters.....	—	684	—	8	98	114	124	178	100	24	11	27	34.9
Automobile mechanics, including body repairmen.....	—	540	6	6	76	91	51	158	83	27	37	5	37.5
Mechanics and repairmen, except auto.....	—	665	29	8	78	143	106	161	74	31	35	—	33.5
Machinists.....	—	91	5	—	11	9	19	22	12	8	—	5	...
Metal craftsmen, except mechanics and machinists.....	5	967	—	23	83	126	171	319	177	38	23	7	37.5
Foremen, n.e.c.....	—	546	8	7	13	65	91	204	95	28	17	18	39.4
Other craftsmen and kindred workers.....	—	1 079	23	51	143	193	141	213	160	85	47	23	34.6
Operatives, except transport.....	21	8 010	146	348	1 422	1 384	1 001	1 934	1 138	332	198	107	33.5
Assemblers.....	—	1 717	12	75	382	409	158	390	178	75	28	10	29.8
Garage workers and gas station attendants.....	—	158	42	26	35	20	—	6	6	7	12	10	21.6
Laundry and drycleaning operatives, including ironers.....	—	39	—	13	—	—	5	—	—	—	—	—	...
Precision machine operatives.....	—	650	—	18	110	130	79	125	94	33	54	7	34.2
Other operatives, except transport.....	21	5 446	92	216	895	825	759	1 406	852	217	104	80	34.6
Durable goods, manufacturing.....	13	4 122	21	108	703	620	597	1 096	669	182	65	61	35.1
Nondurable goods, including not specified manufacturing.....	8	699	4	72	101	131	94	152	98	9	32	6	32.2
Nonmanufacturing industries.....	—	625	67	36	91	74	68	158	85	26	7	13	33.3
Transport equipment operatives.....	6	1 414	10	49	169	260	216	373	232	37	35	33	35.1
Truck drivers.....	—	631	—	43	80	85	96	162	132	16	5	12	35.7
Other transport equipment operatives.....	6	783	10	6	89	175	120	211	100	21	30	21	34.6
Laborers, except farm.....	38	2 332	168	202	346	329	254	457	342	155	49	30	32.4
Construction laborers.....	—	406	8	12	56	71	79	77	78	14	11	—	33.5
Freight, stock, and material handlers.....	6	828	125	116	91	107	64	149	109	50	6	11	28.8
Other laborers, except farm.....	32	1 098	35	74	199	151	111	231	155	91	32	19	34.1
Farm laborers and farm foremen.....	—	757	3	40	155	93	95	153	132	50	22	14	34.6
Farmers and farm managers.....	—	105	—	—	17	—	—	39	21	—	—	28	44.1
Cleaning service workers.....	12	536	36	43	83	53	33	122	81	23	17	45	36.6
Food service workers.....	64	2 093	222	160	213	259	130	382	403	98	110	116	36.6
Health service workers.....	9	1 005	72	68	81	98	41	185	222	73	79	86	42.7
Personal service workers.....	14	521	116	88	71	66	13	43	76	12	14	22	24.0
Protective service workers.....	—	38	—	4	16	4	—	8	6	—	—	—	...
Private household workers.....	6	154	11	—	17	18	36	50	16	—	6	—	34.3
Other private household workers.....	—	260	—	—	19	62	33	71	55	6	11	3	37.3
Female employed.....	160	11 750	612	907	2 128	1 775	1 273	2 763	1 537	371	271	113	31.8
Professional, technical, and kindred workers.....	6	1 382	18	60	240	309	223	309	130	57	22	14	31.4
Registered nurses.....	—	241	—	—	34	67	23	86	27	—	4	—	34.2
Health workers, except nurses.....	—	189	—	17	25	56	25	26	13	20	—	7	29.7
Teachers, elementary and secondary schools.....	—	409	5	—	78	125	47	75	48	13	18	—	29.9
Technicians, except health.....	—	29	—	—	7	—	6	16	—	—	—	—	...
Other professional, technical, and kindred workers.....	6	514	13	43	96	61	122	106	42	24	—	7	31.8
Managers and administrators, except farm.....	—	279	—	7	37	37	12	87	62	10	18	9	40.3
Salaried.....	—	222	—	7	37	37	12	74	36	10	9	—	37.4
Self-employed.....	—	57	—	—	—	—	—	13	26	—	9	9	...
Sales workers.....	23	735	103	111	125	53	38	172	86	12	25	10	27.7
Retail trade.....	23	619	98	105	105	46	16	157	53	12	21	6	25.2
Clerical and kindred workers.....	54	3 651	209	373	994	527	459	688	313	32	51	5	27.4
Bookkeepers and cashiers.....	—	622	40	78	140	35	110	126	47	20	26	—	30.8
Office machine operators.....	4	197	9	28	37	43	29	38	13	—	—	—	27.8
Secretaries, stenographers, and typists.....	8	1 291	35	137	380	244	156	244	88	—	7	—	26.9
Other clerical and kindred workers.....	42	1 541	125	130	437	205	164	280	165	12	18	5	26.9
Craftsmen and kindred workers.....	—	247	28	—	38	34	31	28	74	9	5	—	33.8
Operatives, except transport.....	16	2 365	59	132	278	343	262	739	336	107	79	30	36.5
Sewers and stitchers.....	—	212	—	—	22	23	14	82	32	20	19	—	40.7
Laundry and drycleaning operatives, including ironers.....	—	167	10	14	14	20	15	48	33	7	6	—	37.2
Other operatives, except transport.....	16	1 986	49	118	242	300	233	609	271	80	54	30	35.8
Durable goods, manufacturing.....	—	971	12	65	129	137	132	321	103	53	19	—	35.3
Nondurable goods, including not specified manufacturing.....	—	656	3	44	73	115	83	175	124	4	20	15	35.6
Nonmanufacturing industries.....	16	359	34	9	40	48	18	113	44	23	15	15	37.7
Transport equipment operatives.....	—	61	—	—	6	6	22	19	8	—	—	—	...
Laborers, except farm.....	—	103	7	—	16	34	4	12	24	—	6	—	29.2
Farmers and farm managers.....	—	6	—	—	—	—	—	6	—	—	—	—	...
Farm laborers and farm foremen.....	11	130	19	19	7	8	14	47	9	7	—	—	34.3
Cleaning service workers.....	29	2 570	139	198	380	401	203	599	447	100	65	38	34.1
Food service workers.....	—	378	—	—	6	25	44	122	117	31	21	12	44.3
Health service workers.....	17	1 089	109	114	157	157	61	211	184	62	13	21	30.6
Personal service workers.....	—	534	5	43	103	100	54	133	88	—	8	—	31.5
Protective service workers.....	—	97	—	—	12	26	15	30	14	—	—	—	...
Private household workers.....	21	400	13	26	108	86	17	94	44	—	12	—	28.1
Other private household workers.....	—	8	—	—									

Table 174. Occupation of Employed Persons by Age, Race, 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
Standard Metropolitan Statistical
Areas of 250,000 or More

DETROIT SMSA

Total

	Persons 14 and 15 years old	Persons 16 years old and over											Median age
		Total	16 and 17 years	18 and 19 years	20 to 24 years	25 to 29 years	30 to 34 years	35 to 44 years	45 to 54 years	55 to 59 years	60 to 64 years	65 years and over	
Male employed	12 979	1 015 407	29 140	36 977	104 982	121 567	103 520	223 249	229 587	86 185	50 869	29 331	40.0
Professional, technical, and kindred workers	154	151 276	613	1 652	15 154	25 700	21 427	36 416	29 624	9 268	5 552	3 870	37.9
Accountants	—	12 381	15	24	1 260	2 225	1 509	2 882	2 690	857	564	375	39.0
Architects	—	1 211	4	3	65	131	188	362	264	67	75	52	40.9
Computer specialists	—	4 850	9	29	766	1 521	1 074	1 054	320	60	17	—	30.5
Engineers	—	33 451	5	85	1 885	4 531	4 509	9 269	8 902	2 502	1 227	536	41.2
Aeronautical and astronautical	—	177	—	—	15	11	35	44	67	—	—	5	41.3
Civil	—	2 151	—	6	105	270	311	573	543	152	112	79	41.7
Electrical and electronic	—	3 668	—	25	228	567	524	996	948	204	116	60	39.9
Mechanical	—	12 705	—	36	821	1 696	1 662	3 650	3 297	986	439	118	40.9
Other engineers	—	14 750	5	18	716	1 987	1 977	4 006	4 047	1 160	560	274	41.7
Lawyers and judges	—	5 267	—	5	48	764	752	1 462	862	376	448	550	42.3
Life and physical scientists	—	2 208	—	11	171	360	429	550	430	179	73	5	37.4
Chemists	—	1 772	—	—	140	302	321	434	348	164	58	5	37.8
Physicians, dentists, and related practitioners	—	10 714	—	12	186	1 070	1 488	3 094	2 489	781	646	948	43.4
Dentists	—	2 074	—	—	8	131	324	629	554	124	99	205	44.1
Pharmacists	—	1 896	—	8	112	200	157	538	372	149	201	159	43.8
Physicians, medical and osteopathic	—	5 877	—	4	40	671	968	1 678	1 320	394	282	520	42.5
Other related practitioners	—	867	—	—	26	68	39	249	243	114	64	64	47.1
Health technologists and technicians	—	1 607	16	69	348	361	209	287	208	72	37	—	30.2
Religious workers	—	3 086	—	12	64	327	387	804	673	357	216	246	44.4
Social scientists	—	2 762	—	7	172	714	512	656	477	137	53	34	34.8
Social and recreation workers	—	2 115	32	42	272	582	246	485	272	93	59	32	32.6
Teachers	—	19 328	92	136	3 239	4 404	2 965	4 605	2 356	733	480	318	33.0
College and university	—	3 097	—	34	312	526	552	844	459	142	123	105	36.5
Elementary and prekindergarten	—	4 871	21	4	1 019	1 155	701	1 088	574	184	92	33	31.7
Secondary	—	10 321	25	27	1 802	2 602	1 560	2 477	1 151	333	218	126	32.3
Engineering and science technicians	—	20 627	215	713	3 590	3 564	2 637	4 858	3 405	992	497	156	34.2
Draftsmen and surveyors	—	12 935	182	561	2 521	2 265	1 623	2 961	1 900	498	309	115	32.9
Electrical and electronic engineering technicians	—	1 724	5	11	272	395	261	453	234	63	20	10	33.4
Technicians, except health, and engineering and science	—	1 309	—	14	119	195	231	269	343	96	18	24	38.6
Airplane pilots	—	341	—	—	10	55	65	67	122	16	—	6	41.0
Writers, artists, and entertainers	—	13 540	157	267	1 342	2 062	1 987	3 553	2 577	871	433	291	37.7
Other professional, technical, and kindred workers	—	16 820	68	223	1 627	2 889	2 304	4 226	3 356	1 095	709	323	38.1
Managers and administrators, except farm	90	94 485	210	578	4 702	8 905	10 081	25 507	26 195	9 296	5 449	3 562	43.9
Buyers, purchasing agents, and sales managers	—	14 553	39	108	771	1 806	1 767	4 001	3 744	1 332	661	324	42.0
School administrators	—	2 664	5	4	58	105	324	1 123	669	198	134	44	42.4
Specified managers and administrators, public administration	—	4 760	—	9	110	283	365	1 147	783	567	307	189	47.6
Other specified managers and administrators	—	16 045	55	176	1 361	1 862	1 986	3 805	3 844	1 384	916	656	41.8
Managers and administrators, n.e.c., salaried	—	45 765	111	254	2 145	4 314	4 920	12 824	12 948	4 300	2 409	1 540	43.7
Manufacturing	—	15 714	21	22	291	1 074	1 405	4 606	5 273	1 699	849	474	45.8
Wholesale and retail trade	—	13 162	67	208	1 160	1 612	1 608	3 226	3 203	1 120	680	454	41.0
Transportation, communications, and other public utilities	—	3 285	—	5	102	299	351	866	1 072	335	194	61	45.2
All other industries	—	13 604	23	19	592	1 329	1 556	4 126	3 576	1 146	686	551	43.0
Managers and administrators, n.e.c., self-employed	—	10 698	—	27	257	535	719	2 607	3 207	1 515	1 022	809	48.8
Construction	—	1 687	—	5	41	92	109	550	503	205	105	77	45.9
Manufacturing	—	1 396	—	—	15	54	65	320	445	203	125	169	50.5
Wholesale and retail trade	—	5 137	—	13	135	267	392	1 083	1 594	701	561	391	49.3
All other industries	—	2 478	—	9	66	122	153	654	665	406	231	172	48.5
Sales workers	6 275	64 337	3 019	2 703	5 895	7 536	6 334	13 761	13 205	4 751	3 465	3 668	39.9
Insurance agents, brokers, and underwriters	—	6 717	12	5	522	995	913	1 799	1 551	341	283	296	40.1
Real estate agents and brokers	—	4 371	—	36	242	464	367	900	947	363	408	644	46.9
Sales representatives, manufacturing industries	—	9 007	9	22	438	1 225	1 139	2 390	2 298	798	382	306	42.0
Sales representatives, wholesale trade	—	12 792	39	86	888	1 773	1 442	3 211	2 985	967	713	688	41.8
Sales clerks, retail trade	—	14 005	1 665	1 750	2 244	1 215	942	1 670	2 077	915	703	824	30.7
Salesmen, retail trade	—	7 261	116	311	731	666	709	1 594	1 651	675	395	413	41.9
Salesmen of services and construction	—	3 488	76	62	239	461	327	944	704	323	170	182	41.1
Other sales workers	—	6 696	1 102	431	591	737	495	1 253	992	369	411	315	34.9
Clerical and kindred workers	532	77 138	2 068	4 039	11 505	9 368	7 178	15 095	16 163	6 249	3 550	1 923	37.9
Bank tellers and cashiers	—	2 076	328	358	427	164	135	137	209	139	98	81	24.1
Bookkeepers and billing clerks	—	5 666	61	126	776	871	570	1 162	1 031	451	328	290	38.7
Mail handlers and postal clerks	—	8 217	113	457	738	499	629	2 483	2 291	583	305	119	41.7
Other clerical and kindred workers	—	61 179	1 566	3 098	9 564	7 834	5 844	11 313	12 632	5 076	2 819	1 433	37.4
Craftsmen and kindred workers	315	230 833	1 290	4 625	20 015	27 002	24 452	55 853	59 322	21 361	12 120	4 793	41.8
Apparel craftsmen and upholsterers	—	1 701	5	31	81	111	124	310	497	233	148	161	48.8
Bakers	—	1 453	69	49	122	76	178	318	291	160	147	43	42.3
Cabinetmakers	—	595	—	13	35	88	44	124	169	68	36	18	44.5
Construction craftsmen	—	45 349	195	647	3 859	5 537	4 844	11 724	11 480	3 590	2 518	955	41.5
Carpenters	—	10 329	45	84	982	1 369	1 055	2 492	2 590	859	546	307	41.5
Excavating, grading, and road machine operators	—	3 092	5	33	265	360	467	872	749	203	120	18	39.8
Electricians	—	10 293	15	122	832	1 576	1 180	2 476	2 642	752	563	135	40.7
Masons and tile setters	—	3 948	12	42	256	317	399	1 431	951	322	144	74	41.6
Painters, construction and maintenance, and paperhangers	—	5 396	88	132	416	519	446	1 256	1 373	566	401	199	43.7
Plasterers and cement finishers	—	1 421	—	20	97	78	153	425	430	121	64	33	43.5
Plumbers and pipe fitters	—	8 146	15	135	778	962	829	2 076	2 114	562	535	140	41.5
Other construction craftsmen	—	2 724	15	79	233	356	315	696	631	205	145	49	40.2
Foremen, n.e.c.	—	37 375	31	102	1 120	3 495	4 425	10 910	11 333	3 850	1 697	412	43.7
Manufacturing	—	27 095	11	65	642	2 610	3 327	7 841	8 340	2 906	1 137	216	43.8
Nonmanufacturing industries	—	10 280	20	37	478	885	1 098	3 069	2 993	944	560	196	43.5
Linemen and servicemen, telephone and power	—	6 475	32	453	1 460	1 008	743	1 479	1 032	137	100	31	31.9
Locomotive engineers and firemen	—	926	—	10	68	131	94	258	229	54	39	43	41.2
Mechanics and repairmen	—	51 290	553	1 605	5 282	6 658	5 546	11 714	12 258	4 386	2 406		

Table 174. Occupation of Employed Persons by Age, Race, 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
Standard Metropolitan Statistical
Areas of 250,000 or More**

DETROIT SMSA—Continued

Total—Continued

Male employed—Continued

	Persons 14 and 15 years old	Persons 16 years old and over											Median age
		Total	16 and 17 years	18 and 19 years	20 to 24 years	25 to 29 years	30 to 34 years	35 to 44 years	45 to 54 years	55 to 59 years	60 to 64 years	65 years and over	
Operatives, except transport	927	202 873	5 136	10 031	26 826	25 028	18 531	39 143	45 669	18 996	9 912	3 581	39.1
Assemblers.....	40	30 883	261	1 618	6 120	5 091	3 274	5 827	5 269	2 142	951	330	33.6
Checkers, examiners, and inspectors, manufacturing.....	—	18 462	25	210	1 982	2 093	1 585	3 636	5 111	2 499	1 064	257	44.2
Garage workers and gas station attendants.....	217	7 997	2 651	2 076	961	388	297	526	423	205	182	288	19.3
Laundry and drycleaning operatives, n.e.c.....	19	1 227	109	102	87	80	80	184	259	150	114	62	43.5
Meat cutters and butchers.....	10	3 833	37	179	279	418	461	819	793	406	274	167	41.6
Mine operatives, n.e.c.....	—	249	—	7	58	13	16	73	62	10	10	—	39.2
Packers and wrappers, except produce.....	57	3 639	603	373	493	335	203	542	652	236	154	48	30.4
Painters, manufactured articles.....	5	3 761	68	140	393	478	385	871	860	355	171	40	39.8
Precision machine operatives.....	11	23 247	92	687	2 550	2 902	2 061	4 099	6 420	2 688	1 333	415	43.1
Sawyers.....	5	846	—	44	79	62	82	130	234	117	82	16	46.1
Stationary firemen.....	5	2 320	10	15	164	161	210	400	770	281	212	97	47.6
Textile operatives.....	—	141	—	8	11	30	19	24	21	9	7	12	36.0
Welders and flamecutters.....	8	17 370	26	557	2 134	2 217	1 830	3 751	4 253	1 681	743	178	40.1
Other metalworking operatives.....	7	17 918	150	659	2 371	2 335	1 467	3 668	4 250	1 842	914	262	40.4
Other specified operatives.....	460	26 089	502	1 277	3 317	3 057	2 521	5 502	5 527	2 141	1 490	755	39.3
Miscellaneous and not specified operatives.....	83	44 891	602	2 079	5 827	5 368	4 060	9 091	10 765	4 234	2 211	654	40.0
Occupation:													
Machine operatives, miscellaneous specified.....	22	15 687	172	582	2 081	1 967	1 352	3 297	3 755	1 589	736	156	40.1
Machine operatives, not specified.....	12	12 864	47	506	1 777	1 569	1 240	2 500	3 095	1 232	688	210	40.2
Miscellaneous operatives.....	32	9 890	309	697	1 239	1 129	836	1 925	2 270	867	444	174	38.8
Not specified operatives.....	17	6 450	74	294	730	703	632	1 369	1 645	546	343	114	40.8
Industry:													
Manufacturing	44	40 324	334	1 770	5 200	4 818	3 670	8 244	9 831	3 907	1 996	554	40.3
Durable goods.....	34	33 761	244	1 459	4 461	4 190	3 158	6 934	8 088	3 232	1 560	435	39.9
Wood products, including furniture.....	—	394	10	19	32	30	15	68	94	79	37	10	47.4
Primary metal industries.....	—	3 787	26	152	444	330	355	877	943	399	191	70	41.7
Fabricated metal industries.....	6	3 300	34	236	464	419	302	644	709	281	153	58	38.0
Machinery, including electrical.....	15	7 953	112	441	1 073	1 131	704	1 587	1 799	622	352	132	38.2
Motor vehicles and equipment.....	13	16 005	30	480	2 160	2 013	1 584	3 207	3 985	1 705	722	119	40.4
Transportation equipment, except motor vehicles.....	—	266	—	23	34	20	10	80	70	6	17	6	40.8
Other durable goods.....	—	2 056	32	108	254	247	188	471	488	140	88	40	39.2
Nondurable goods.....	10	6 292	90	291	694	592	483	1 244	1 705	649	425	119	43.0
Food and kindred products.....	—	1 275	14	39	87	113	116	318	322	129	86	51	43.4
Apparel and other fabricated textile products.....	—	184	5	19	10	5	47	29	56	4	9	—	37.1
Paper and allied products.....	—	702	12	33	80	85	33	212	138	36	44	29	40.1
Chemicals and allied products.....	—	1 682	15	46	203	162	103	364	485	180	108	16	43.6
Other nondurable goods.....	10	2 449	44	154	314	227	184	321	704	300	178	23	44.4
Not specified manufacturing industries.....	—	271	—	20	45	36	29	66	38	26	11	—	35.8
Nonmanufacturing industries.....	39	4 567	268	309	627	550	390	847	934	327	215	100	36.6
Transportation, communications, and other public utilities.....	—	863	30	23	156	156	79	157	180	33	40	9	34.2
Wholesale and retail trade.....	35	1 938	181	160	220	191	131	343	387	183	89	53	37.5
All other industries.....	4	1 766	57	126	251	203	180	347	367	111	86	38	36.9
Transport equipment operatives	204	56 370	870	1 835	5 621	6 267	5 805	13 365	13 854	4 947	2 483	1 323	40.8
Bus drivers.....	—	2 284	5	—	106	181	159	478	834	340	125	56	47.6
Taxicab drivers and chauffeurs.....	—	3 373	63	62	265	277	234	761	767	371	285	288	45.3
Truck drivers and deliverymen.....	138	36 569	631	1 241	3 309	3 711	3 799	9 017	9 420	3 328	1 518	595	41.2
Other transport equipment operatives.....	66	14 144	171	532	1 941	2 098	1 613	3 109	2 833	908	555	384	37.3
Laborers, except farm	1 600	56 516	7 334	6 731	7 981	4 934	3 927	9 065	9 217	3 813	2 410	1 104	31.6
Construction laborers.....	66	6 879	214	476	804	790	717	1 681	1 209	529	351	108	37.6
Freight, stock, and material handlers.....	774	28 375	5 380	4 446	4 367	2 377	1 623	3 507	3 866	1 682	840	287	25.0
Other specified laborers.....	557	11 001	1 239	1 001	1 347	927	801	1 884	1 985	741	650	426	36.0
Miscellaneous and not specified laborers.....	203	10 261	501	808	1 463	840	786	1 993	2 157	861	569	283	38.7
Occupation:													
Miscellaneous laborers.....	49	3 648	49	221	365	256	315	821	874	418	270	59	42.5
Not specified laborers.....	154	6 613	452	587	1 098	584	471	1 172	1 283	443	299	224	36.0
Industry:													
Manufacturing	23	6 661	121	469	1 138	584	535	1 344	1 328	612	383	147	38.6
Durable goods.....	—	5 858	79	418	997	547	477	1 200	1 153	539	330	118	38.4
Wood products, including furniture.....	—	40	5	—	9	—	—	—	—	5	17	4	—
Metal industries.....	—	2 354	12	225	364	179	229	481	466	221	131	46	38.5
Machinery, including electrical.....	—	507	41	70	109	20	35	92	77	28	29	6	31.9
Transportation equipment.....	—	2 564	—	72	456	303	192	567	541	253	136	44	39.6
Other durable goods.....	—	393	21	51	59	45	21	60	69	32	17	18	34.9
Nondurable goods.....	23	760	42	51	135	37	52	139	165	63	47	29	39.5
Food and kindred products.....	14	274	20	27	51	17	14	67	53	14	11	—	36.2
Not specified manufacturing industries.....	—	43	—	—	6	—	6	5	10	10	6	—	—
Nonmanufacturing industries.....	180	3 600	380	339	325	256	251	649	829	249	186	136	38.8
Railroads and railway express service.....	—	322	—	40	48	31	18	52	78	30	25	—	39.6
Transportation, except railroads.....	—	228	9	10	37	32	50	21	41	4	18	6	32.6
Communications, and utilities and sanitary services.....	7	524	—	21	55	33	22	113	193	59	23	5	45.9
Wholesale and retail trade.....	68	1 313	221	165	116	74	80	203	238	87	70	59	35.0
All other industries.....	105	1 213	150	103	69	86	81	260	279	69	50	66	39.5
Formers and farm managers	5	1 446	—	5	83	53	108	298	317	214	163	205	50.6
Farm laborers and farm foremen	132	1 341	278	155	143	99	132	199	152	39	41	105	29.9
Paid farm laborers and farm foremen.....	108	1 191	244	125	126	99	127	186	143	39	41	61	30.1
Unpaid family workers.....	24	150	32	30	17	—	5	13	9	—	—	44	23.8
Service workers, except private household¹	2 659	78 299	8 282	4 593	7 035	6 636	5 507	12 451	15 773	7 212	5 678	5 132	40.7
Cleaning service workers.....	698	29 197	2 056	1 595	2 172	1 533	1 374	3 867	6 874	4 034	3 145	2 547	47.9
Food service workers.....	1 308	15 220	5 236	1 795	1 249	686	637	1 599	1 892	724	694	708	22.3
Cooks, except private household.....	304	5 613	1 766	780	523	279	317	674	585	241	237	211	22.5
Busboys and dishwashers.....	762	3 840	2 416	669	253	81	22	113	87	63	70	66	17.6
Health service workers.....	32	2 462	157	382	622	245	190	343	306	82	77	58	26.4
Personal service workers.....	227	6 371	528	272	545	699	6						

Table 174. Occupation of Employed Persons by Age, Race, 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
Standard Metropolitan Statistical
Areas of 250,000 or More**

DETROIT SMSA—Continued

Total—Continued

	Persons 14 and 15 years old	Persons 16 years old and over											Median age
		Total	16 and 17 years	18 and 19 years	20 to 24 years	25 to 29 years	30 to 34 years	35 to 44 years	45 to 54 years	55 to 59 years	60 to 64 years	65 years and over	
Female employed	4 458	555 546	19 335	35 436	87 709	54 889	43 186	110 028	121 447	43 219	25 312	14 985	38.4
Professional, technical, and kindred workers	99	81 598	390	1 029	14 951	14 214	8 466	16 587	14 783	5 772	3 487	1 919	36.1
Accountants	10	3 806	22	102	569	335	337	845	1 049	280	169	98	41.4
Computer specialists	5	904	—	16	297	245	63	157	97	25	4	—	27.8
Librarians	—	1 260	20	32	128	161	106	244	322	127	65	55	42.5
Mathematical specialists	—	181	—	5	26	21	25	19	60	16	4	5	42.1
Life and physical scientists	—	345	—	—	65	74	93	50	53	—	6	4	31.8
Registered nurses, dietitians, and therapists	—	15 214	16	120	2 377	2 073	1 567	3 527	3 280	1 317	675	262	39.1
Dietitians	—	722	5	5	89	69	19	192	237	51	44	11	39.3
Registered nurses	—	13 552	11	92	2 014	1 803	1 478	3 197	2 910	1 211	596	240	29.8
Health technologists and technicians	4	4 037	10	136	1 082	832	486	758	517	138	48	30	41.1
Social scientists	—	321	—	—	48	34	38	66	89	27	5	14	35.8
Social and recreation workers	11	3 072	37	38	675	514	228	559	597	194	145	85	36.9
Teachers: College and university	—	1 589	5	28	143	345	202	382	288	124	41	31	35.3
Elementary and prekindergarten	11	24 842	48	52	4 593	4 809	2 759	5 146	3 843	1 781	1 276	535	31.0
Secondary	—	9 656	35	21	2 196	2 378	955	1 706	1 304	539	378	144	40.2
Other teachers	14	1 914	60	63	245	189	208	372	344	158	112	163	30.5
Engineering and science technicians	—	1 174	—	82	244	249	111	166	228	54	31	9	33.6
Technicians, except health, and engineering and science	—	286	6	4	69	51	18	52	52	27	7	—	34.0
Writers, artists, and entertainers	20	3 727	98	158	854	484	339	669	685	238	110	92	23.6
Actors and dancers	—	257	—	25	142	47	23	16	—	—	—	—	33.6
Authors, editors, and reporters	6	733	6	—	235	85	57	116	149	42	35	8	39.0
Other professional, technical, and kindred workers	24	9 270	33	172	1 340	1 420	931	1 869	1 975	727	411	392	46.0
Managers and administrators, except farm	32	17 043	32	214	1 216	1 238	1 348	3 953	5 129	1 847	1 270	796	45.1
Buyers, purchasing agents, and sales managers	—	2 583	—	55	232	162	234	599	743	325	179	54	45.1
Restaurant, cafeteria, and bar managers	9	1 616	4	36	75	132	131	427	490	173	94	54	48.4
School administrators	4	1 118	6	13	10	26	92	285	376	138	122	50	45.8
Other specified managers and administrators	10	3 955	22	44	354	311	276	876	1 195	386	271	220	44.8
Managers and administrators, n.e.c., salaried	—	6 086	—	60	525	557	510	1 421	1 724	609	416	264	45.0
Wholesale and retail trade	—	1 926	—	29	143	203	131	457	563	164	157	79	50.3
Managers and administrators, n.e.c., self-employed	9	1 685	—	6	20	50	105	345	601	216	188	154	49.5
Wholesale and retail trade	9	1 022	—	—	6	40	69	230	369	128	108	72	42.2
Sales workers	519	47 758	3 522	4 339	4 778	2 425	2 598	8 647	11 573	4 868	3 052	1 956	36.8
Demonstrators, hucksters, and peddlers	4	1 848	5	59	200	265	311	466	285	121	62	74	45.6
Insurance, real estate agents, and brokers	—	3 200	17	76	369	168	193	719	938	337	212	171	42.6
Sales clerks, retail trade	217	34 726	2 977	3 670	3 200	1 382	1 580	5 968	8 598	3 755	2 268	1 328	33.5
Salesmen, retail trade	31	1 590	86	115	163	106	64	303	434	162	101	56	43.6
Other sales workers	267	6 394	437	419	846	504	450	1 191	1 318	493	409	327	39.5
Clerical and kindred workers	996	216 177	8 002	20 513	46 878	21 865	16 721	39 719	39 827	12 055	7 011	3 586	33.2
Bank tellers	5	5 372	17	280	1 410	671	465	1 235	985	234	42	33	33.3
Bookkeepers	33	23 342	280	1 329	3 805	2 037	1 669	4 909	5 683	1 757	1 203	670	40.2
Cashiers	119	16 922	1 901	2 544	2 604	1 365	1 215	2 957	2 749	910	417	260	30.2
Counter clerks, except food	51	3 978	403	430	527	278	264	651	850	287	188	100	34.3
Enumerators and interviewers	—	573	10	34	74	19	69	170	106	49	30	12	39.7
File clerks	115	6 702	629	1 291	1 708	423	263	799	960	329	203	97	24.2
Office machine operators	9	10 975	154	954	3 058	1 617	1 059	1 957	1 536	397	155	88	29.1
Bookkeeping and billing machine operators	—	1 337	39	126	330	192	132	236	171	55	38	18	29.5
Keypunch operators	—	6 415	76	583	2 072	1 116	680	1 094	615	135	34	10	27.1
Payroll and timekeeping clerks	5	2 446	13	104	507	248	236	507	573	124	89	45	37.3
Receptionists	29	6 646	426	854	1 442	573	368	1 136	1 091	382	237	137	30.4
Secretaries	87	52 439	887	3 616	12 051	6 131	4 393	9 897	10 074	2 932	1 614	844	34.0
Stenographers	—	2 958	38	336	866	321	225	397	514	165	77	19	28.7
Telephone operators	8	8 024	211	1 021	1 922	527	525	1 494	1 354	432	365	153	33.2
Typists	113	23 098	1 325	3 115	6 286	2 242	1 407	3 477	3 310	952	578	206	26.8
Other clerical and kindred workers	422	52 702	1 708	4 605	10 618	5 413	4 363	10 133	10 042	3 105	1 793	922	34.6
Craftsmen and kindred workers	31	8 814	151	274	1 021	684	618	1 974	2 397	882	457	356	43.4
Foremen, n.e.c.	—	1 962	—	30	146	132	155	459	632	207	137	64	45.9
Operatives, except transport	266	59 594	555	1 620	4 968	4 883	4 703	14 241	18 596	6 108	2 631	1 289	44.2
Assemblers	24	9 914	40	245	881	797	795	2 396	3 465	902	283	110	44.2
Bottling and canning operatives	—	136	6	4	10	5	6	59	33	13	—	—	41.3
Checkers, examiners, and inspectors, manufacturing	9	4 639	8	22	173	262	275	1 071	1 957	623	215	33	47.6
Dressmakers and seamstresses, except factory	4	1 682	5	9	50	49	71	324	550	245	212	167	51.1
Laundry and dry cleaning operatives, including ironers	—	4 457	69	128	302	216	246	1 134	1 407	512	292	151	45.9
Graders and sorters, manufacturing	—	67	—	—	4	—	5	7	40	5	6	—	...
Packers and wrappers, except produce	31	5 658	124	253	448	496	460	1 319	1 724	546	219	69	42.9
Sewers and stitchers	—	5 071	18	41	237	330	338	1 228	1 738	670	300	171	47.0
Textile operatives	—	97	—	6	16	8	—	24	19	10	—	14	...
Other specified operatives	168	15 843	190	441	1 688	1 592	1 411	3 591	4 284	1 485	725	436	42.2
Miscellaneous and not specified operatives	30	12 030	95	471	1 159	1 128	1 096	3 088	3 379	1 097	379	138	41.7
Manufacturing	9	10 516	35	361	972	984	989	2 696	3 110	956	313	100	42.1
Durable goods	9	6 407	20	175	597	660	646	1 557	1 871	622	183	76	42.1
Machinery, including electrical	—	1 565	4	39	126	124	139	417	509	148	29	28	43.4
Other durable goods	9	4 842	16	136	471	534	507	1 140	1 362	474	154	48	41.6
Nondurable goods, including not specified manufacturing	—	4 109	15	186	375	324	343	1 139	1 239	334	130	24	42.1
Food and kindred products	—	421	5	14	15	12	22	130	140	68	10	5	45.9
Apparel and other fabricated textile products	—	278	—	12	38	10	25	81	80	17	8	7	41.7
Nonmanufacturing industries	21	1 514	60	110	187	144	107	392	269	141	66	38	38.8
Transport equipment operatives	6	2 897	—	29	265	259	285	1 006	720	200	92	41	41.1
Laborers, except farm	113	5 339	287	350	624	532	404	1 170	1 192	369	219	192	39.0
Farmers and farm managers	—	343	—	6	8	46	36	80	86	45	22	14	44.4
Farm laborers and farm foremen	—	561	11	37	65	55	60	110	131	41	28	23	39.8
Paid farm laborers and farm foremen	—	490	11	33									

Table 174. Occupation of Employed Persons by Age, Race, 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
Standard Metropolitan Statistical
Areas of 250,000 or More

DETROIT SMSA—Continued

	Persons 14 and 15 years old	Persons 16 years old and over											Median age
		Total	16 and 17 years	18 and 19 years	20 to 24 years	25 to 29 years	30 to 34 years	35 to 44 years	45 to 54 years	55 to 59 years	60 to 64 years	65 years and over	
Negro													
Male employed													
Professional, technical, and kindred workers	1 478	149 610	3 033	5 330	18 131	18 859	15 024	33 557	32 811	12 216	6 936	3 713	39.3
Engineers	52	7 667	45	160	953	1 537	1 139	2 043	1 152	359	125	154	35.0
Lawyers and judges	—	522	—	—	47	137	59	141	94	40	—	4	36.3
Life and physical scientists	—	164	—	5	6	6	17	42	38	5	—	4	46.6
Physicians, dentists, and related practitioners	—	140	—	—	9	37	44	31	19	—	—	—	32.7
Health workers, except practitioners	—	437	—	—	6	28	21	191	127	21	14	29	43.6
Social and recreation workers	7	544	—	16	67	100	91	185	47	24	14	—	34.9
Teachers	13	503	—	9	22	148	58	148	88	21	5	4	36.0
Technicians, except health	6	1 722	—	14	259	352	297	453	239	82	8	18	34.0
Writers, artists, and entertainers	—	769	6	70	146	162	108	194	55	16	12	—	30.0
Other professional, technical, and kindred workers	11	615	18	16	95	129	136	127	55	22	9	8	31.8
Managers and administrators, except farm	15	2 251	21	30	296	438	308	531	390	128	63	46	35.6
Salaried	—	4 109	35	56	304	577	463	1 189	855	339	132	159	40.2
Manufacturing	—	3 322	35	51	296	518	421	973	643	204	97	84	38.5
Retail trade	—	320	14	6	16	97	36	67	32	21	17	14	33.8
All other industries	—	717	11	40	100	136	135	130	105	38	5	17	32.6
Self-employed	—	2 285	10	5	180	285	250	776	506	145	75	53	40.3
Retail trade	—	787	—	5	8	59	42	216	122	135	35	75	48.0
All other industries	—	323	—	—	8	35	22	80	86	47	6	39	46.9
Sales workers	354	464	—	5	—	24	20	136	126	88	29	36	48.7
Manufacturing and wholesale trade	—	3 172	225	260	493	568	275	574	429	164	77	107	30.7
Retail trade	293	718	72	60	72	158	88	152	64	23	25	4	29.9
All other industries	55	1 520	153	177	270	192	110	230	195	85	21	87	29.2
Clerical and kindred workers	6	934	—	23	151	218	77	192	170	56	31	16	34.9
Bookkeepers and billing clerks	159	10 282	348	683	1 604	1 349	1 032	2 262	1 884	618	294	208	35.6
Mail handlers and postal clerks	6	389	6	19	62	108	46	61	57	15	—	15	30.0
Other clerical and kindred workers	—	2 339	19	93	173	197	206	826	589	115	76	45	40.8
Craftsmen and kindred workers	153	7 554	323	571	1 369	1 044	780	1 375	1 238	488	218	148	33.0
Carpenters	67	22 697	110	403	2 310	2 541	2 274	5 920	5 903	1 810	958	468	41.3
Construction craftsmen, except carpenters	—	574	—	6	45	42	26	122	211	57	42	23	47.2
Automobile mechanics, including body repairmen	12	3 885	4	59	315	361	312	1 221	1 030	281	193	109	42.3
Mechanics and repairmen, except auto	—	3 434	22	94	316	401	362	868	941	256	110	64	41.0
Machinists	7	2 614	35	49	318	307	296	662	592	208	104	43	39.6
Metal craftsmen, except mechanics and machinists	—	365	—	10	32	65	31	119	68	19	10	11	38.7
Foremen, n.e.c.	4	3 273	12	30	318	333	310	710	1 051	293	160	56	43.9
Other craftsmen and kindred workers	—	2 497	—	4	108	294	316	920	571	212	64	8	40.7
Operatives, except transport	44	6 055	37	151	858	738	621	1 298	1 439	484	275	154	39.8
Assemblers	258	57 018	544	2 000	8 326	8 056	6 088	12 263	12 003	4 566	2 361	811	37.9
Garage workers and gas station attendants	21	12 914	64	566	2 585	2 291	1 475	2 656	2 107	744	326	100	33.2
Laundry and drycleaning operatives, including ironers	12	998	96	108	133	89	70	146	165	74	61	56	35.2
Precision machine operatives	7	932	50	46	60	50	66	161	205	158	69	67	46.6
Other operatives, except transport	—	2 621	5	55	374	399	330	576	594	203	73	12	37.6
Durable goods, manufacturing	218	39 533	329	1 225	5 174	5 227	4 147	8 724	8 932	3 387	1 832	576	39.2
Nonmanufacturing goods, including not specified manufacturing	119	33 501	141	990	4 476	4 413	3 578	7 565	7 553	2 818	1 481	486	39.2
Transport equipment operatives	4	2 852	45	109	363	390	303	525	607	322	161	27	39.1
Truck drivers	95	3 200	143	126	335	424	266	634	772	247	190	63	39.8
Other transport equipment operatives	45	11 533	66	159	1 019	1 249	1 302	2 818	2 977	1 040	569	334	42.0
Laborers, except farm	7	4 122	21	8	275	384	425	1 122	1 207	370	226	84	43.4
Construction laborers	38	7 411	45	151	744	865	877	1 696	1 770	670	343	250	41.0
Freight, stock, and material handlers	191	15 028	729	889	1 601	1 465	1 142	3 230	3 308	1 388	928	348	40.2
Other laborers, except farm	—	2 085	21	47	125	156	146	612	552	197	168	61	43.9
Manufacturing industries	85	5 889	477	536	754	690	454	987	1 118	550	250	73	35.3
Farmers and farm managers	106	7 054	231	306	722	619	542	1 631	1 638	641	510	214	41.8
Farm laborers and farm foremen	18	3 714	56	168	445	322	278	910	799	328	317	91	41.5
Cleaning service workers	9	106	—	—	18	6	4	25	40	13	—	—	45.0
Food service workers	328	17 490	906	702	1 455	1 468	1 248	3 109	4 162	1 877	1 473	1 090	44.5
Health service workers	131	9 290	374	269	548	607	498	1 578	2 493	1 274	995	654	48.1
Personal service workers	47	1 803	369	135	164	81	117	379	268	120	95	75	35.9
Protective service workers	11	964	47	82	179	106	104	207	159	41	25	14	33.3
Private household workers	31	1 294	66	29	61	105	87	266	354	123	116	87	45.9
Registered nurses	—	2 208	5	9	247	386	272	425	415	156	126	167	39.4
Female employed	15	197	5	—	4	11	18	58	33	26	19	23	45.8
Professional, technical, and kindred workers	751	104 729	2 107	4 889	16 284	13 389	11 125	23 918	20 775	6 497	3 650	2 095	36.9
Registered nurses	52	12 006	54	195	1 593	2 120	1 651	3 302	2 143	591	221	136	36.2
Health workers, except nurses	—	1 939	—	36	138	232	293	662	429	101	36	12	39.1
Teachers, elementary and secondary schools	—	1 434	—	20	243	229	177	392	273	66	34	—	36.2
Technicians, except health	6	4 613	15	21	634	962	611	1 327	736	173	81	53	35.5
Other professional, technical, and kindred workers	—	149	—	8	46	18	19	26	24	8	—	—	30.7
Managers and administrators, except farm	46	3 871	39	110	532	679	551	895	681	243	70	71	35.3
Salaried	10	1 939	6	42	101	268	229	490	513	127	100	63	41.6
Self-employed	10	1 669	6	42	101	239	197	430	405	109	95	45	40.8
Sales workers	—	270	—	—	—	29	32	60	108	18	5	18	46.3
Retail trade	95	4 157	222	370	715	403	434	1 012	693	189	75	44	34.2
Clerical and kindred workers	71	3 530	181	340	628	351	356	856	549	170	70	29	33.7
Bookkeepers and cashiers	271	31 799	1 118	2 779	8 710	5 163	3 777	5 677	3 371	672	345	187	28.2
Office machine operators	16	3 889	128	336	965	643	386	775	516	61	43	36	29.0
Secretaries, stenographers, and typists	9	2 285	12	180	823	490	269	314	159	33	—	5	26.3
Other clerical and kindred workers	67	8 042	334	709	2 572	1 489	953	1 214	600	93	41	35	26.4
Craftsmen and kindred workers	179	17 583	642	1 554	4 350	2 541	2 169	3 374	2 096	485	261	111	29.4
Operatives, except transport	13	1 435	19	21	270	187	150	325	271	111	61	20	37.2
Sewers and stitchers	102	14 261	71	411	1 533	1 913	1 589	3 798	3 397	905	419	245	39.3
Laundry and drycleaning operatives, including ironers	—	1 062	8	11	78	154	112	299	292	61	32	15	40.6
Other operatives, except transport	—	2 847	11	75	173	149	197	850	937	243	135	77	44.6
Durable goods, manufacturing	102	10 352	52	325	1 282	1 610	1 260	2 649	2 168	601	252	153	37.4
Nonmanufacturing goods, including not specified manufacturing	37	6 311	9	175	723	1 123	779	1 519	1 355	362	156	110	37.3
Transport equipment operatives	28	1 974	16	75	337	237	307	596	304	59	27	16	35.3
Laborers, except farm	37	2 067	27	75	222	250	174	534	509	180	69	27	40.3
Farmers and farm managers	—	341	—	—	20	53	45	74	74	32	37	6	

Table 174. Occupation of Employed Persons by Age, Race, 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
Standard Metropolitan Statistical
Areas of 250,000 or More

DETROIT SMSA—Continued

Persons of Spanish Language

Male employed

	Persons 14 and 15 years old	Persons 16 years old and over											Median age
		Total	16 and 17 years	18 and 19 years	20 to 24 years	25 to 29 years	30 to 34 years	35 to 44 years	45 to 54 years	55 to 59 years	60 to 64 years	65 years and over	
Professional, technical, and kindred workers	22	1 623	12	484	1 445	2 019	1 644	3 086	2 116	625	431	297	35.9
Engineers	—	299	—	—	6	66	64	98	43	8	—	14	36.4
Lawyers and judges	—	14	—	—	—	—	—	9	5	—	—	—	...
Life and physical scientists	—	11	—	—	—	—	—	6	—	5	—	—	...
Physicians, dentists, and related practitioners	—	352	—	6	15	73	57	136	40	—	6	19	36.8
Health workers, except practitioners	—	44	—	6	11	13	—	14	—	—	—	—	...
Social and recreation workers	—	11	—	—	—	11	—	—	—	—	—	—	...
Teachers	—	155	—	—	16	57	43	18	21	—	—	—	30.5
Technicians, except health	—	249	—	15	16	73	55	56	28	6	—	—	31.9
Writers, artists, and entertainers	15	187	12	—	34	31	14	53	29	14	—	—	35.5
Other professional, technical, and kindred workers	7	301	—	—	22	108	37	101	14	—	13	6	32.8
Managers and administrators, except farm	—	731	—	—	53	92	113	195	155	40	47	36	40.5
Salaried	—	567	—	—	45	85	94	150	140	29	16	8	39.0
Manufacturing	—	150	—	—	8	27	20	32	51	—	4	8	41.3
Retail trade	—	151	—	—	14	29	22	33	39	14	—	—	38.2
All other industries	—	266	—	—	23	29	52	85	50	15	12	—	38.4
Self-employed	—	164	—	—	8	7	19	45	15	11	31	28	47.0
Retail trade	—	118	—	—	—	—	19	36	6	5	24	28	51.7
All other industries	—	46	—	—	8	7	—	9	9	6	7	—	...
Sales workers	69	548	29	41	63	99	62	112	109	15	—	18	33.4
Manufacturing and wholesale trade	62	187	5	13	12	36	35	22	52	—	—	12	33.9
Retail trade	7	183	24	17	28	21	15	42	22	8	—	6	30.5
All other industries	—	178	—	11	23	42	12	48	35	7	—	—	35.2
Clerical and kindred workers	—	886	43	61	118	155	105	169	166	37	16	16	33.1
Bookkeepers and billing clerks	—	17	—	—	—	—	6	—	6	5	—	—	...
Mail handlers and postal clerks	—	41	—	5	—	—	—	15	12	—	—	—	...
Other clerical and kindred workers	—	828	43	56	109	155	99	154	148	32	16	16	32.6
Craftsmen and kindred workers	5	2 665	28	51	218	337	385	748	519	181	130	68	39.2
Carpenters	—	91	—	—	5	19	20	20	15	—	—	12	...
Construction craftsmen, except carpenters	—	353	—	8	29	46	58	102	80	5	11	14	38.5
Automobile mechanics, including body repairmen	—	292	—	6	25	41	21	84	60	27	23	5	41.3
Mechanics and repairmen, except auto	—	402	20	—	41	62	73	117	43	24	22	—	35.4
Machinists	—	38	—	—	5	—	15	6	12	—	—	—	...
Metal craftsmen, except mechanics and machinists	5	522	—	18	36	43	72	174	132	17	23	7	40.3
Foremen, n.e.c.	—	353	8	—	—	27	63	122	70	28	17	18	41.4
Other craftsmen and kindred workers	—	614	—	19	77	99	63	123	107	80	34	12	39.0
Operatives, except transport	6	3 346	66	109	563	499	405	871	527	174	105	27	35.4
Assemblers	—	765	—	24	205	174	76	134	63	62	22	5	29.4
Garage workers and gas station attendants	—	53	21	6	12	14	—	—	—	—	—	—	...
Laundry and drycleaning operatives, including ironers	—	28	—	13	—	—	—	—	8	7	—	—	...
Precision machine operatives	—	301	—	—	43	59	45	55	51	8	40	—	35.6
Other operatives, except transport	6	2 199	45	66	303	252	284	682	405	97	43	22	37.2
Durable goods, manufacturing	6	1 693	—	41	270	169	251	502	330	78	36	16	37.3
Nondurable goods, including not specified manufacturing	—	200	—	16	16	51	3	80	28	—	—	6	36.8
Nonmanufacturing industries	—	306	45	9	17	32	30	100	47	19	7	—	37.0
Transport equipment operatives	6	713	6	23	64	154	106	197	99	29	18	17	35.2
Truck drivers	—	332	—	17	41	60	32	89	79	8	—	6	36.8
Other transport equipment operatives	6	381	6	6	23	94	74	108	20	21	18	11	34.2
Laborers, except farm	8	1 027	83	101	146	133	135	159	180	49	23	18	31.9
Construction laborers	—	128	8	7	14	17	37	15	15	10	5	—	32.4
Freight, stock, and material handlers	—	428	63	68	43	70	33	45	85	17	—	4	27.9
Other laborers, except farm	8	471	12	26	89	46	65	99	80	22	18	14	34.8
Manufacturing industries	—	316	—	19	64	22	57	51	71	6	12	14	34.6
Farmers and farm managers	—	—	—	—	—	—	—	—	—	—	—	—	...
Farm laborers and farm foremen	—	41	—	—	14	—	—	—	—	9	6	5	...
Service workers, except private household ¹	15	941	113	71	86	118	56	138	181	58	67	53	36.9
Cleaning service workers	—	385	41	42	34	34	9	22	76	39	43	45	46.4
Food service workers	6	285	67	29	22	43	13	19	58	12	14	8	27.8
Health service workers	—	14	—	—	17	6	—	8	8	—	6	—	...
Personal service workers	—	77	—	—	13	6	13	27	8	—	—	—	...
Protective service workers	—	150	—	—	13	35	14	58	26	—	4	—	37.2
Private household workers	—	6	—	—	—	—	—	6	—	—	—	—	...
Female employed	85	5 889	289	457	1 049	931	550	1 293	941	169	145	65	32.0
Professional, technical, and kindred workers	6	803	10	53	153	199	74	178	94	20	22	—	29.7
Registered nurses	—	137	—	—	26	47	—	45	15	—	4	—	29.5
Health workers, except nurses	—	107	—	17	6	39	6	20	6	13	—	—	28.9
Teachers, elementary and secondary schools	—	276	5	—	65	85	21	48	34	—	18	—	29.0
Technicians, except health	—	11	—	—	—	—	6	5	—	—	—	—	...
Other professional, technical, and kindred workers	6	272	5	36	56	28	41	60	39	7	—	—	31.3
Managers and administrators, except farm	—	152	—	7	—	31	7	44	44	10	—	9	42.0
Salaried	—	124	—	7	—	31	7	44	25	10	—	—	38.9
Self-employed	—	28	—	—	—	—	—	—	19	—	—	9	...
Sales workers	16	381	50	61	56	5	7	100	61	12	19	10	36.2
Retail trade	16	317	50	55	43	5	—	89	42	12	15	6	35.6
Clerical and kindred workers	34	2 162	121	231	551	309	246	431	212	26	30	5	27.9
Bookkeepers and cashiers	—	361	27	41	90	13	55	67	35	20	13	—	30.9
Office machine operators	4	149	9	25	30	25	23	31	6	—	—	—	27.1
Secretaries, stenographers, and typists	8	788	25	105	203	155	82	163	48	—	7	—	27.0
Other clerical and kindred workers	22	864	60	60	228	116	86	170	123	6	10	5	28.6
Craftsmen and kindred workers	—	142	23	—	5	22	17	18	57	—	—	—	37.2
Operatives, except transport	16	876	14	22	113	111	104	250	173	49	33	7	38.0
Sewers and stitchers	—	137	—	—	16	17	14	44	26	20	—	—	39.9
Laundry and drycleaning operatives, including ironers	—	51	5	—	8	—	5	6	27	—	—	—	...
Other operatives, except transport	16	688	9	22	89	94	85	200	120	29	33	7	37.3
Durable goods, manufacturing	—	319	6	13	37	46	39	119	27	20	12	—	36.6
Nondurable goods, including not specified manufacturing	—	208	3	—	26	23	28	45	71	—	12	—	40.3
Nonmanufacturing industries	16	161	—	9	26	25	18	36	22	9	9	7	35.7
Transport equipment operatives	—	34	—	—	6	16	12	—	—	—	—	—	...
Laborers, except farm	—	33	—	—	7	—	—	—	20	—	6	—	...
Farmers and farm managers	—	—	—	—	—	—	—	—	—	—	—	—	...
Farm laborers and farm foremen	—	—	—	—	—	—	—	—	—	—	—	—	...
Service workers, except private household ¹	5	1 214	64	83	157	241	74	246	248	32	35	34	34.2
Cleaning service workers	—	144	—	—	6	—	—	35	67	7	15	8	48.7
Food service workers	5	545	39	44	85	100	20	91	115	25	5	21	31.1
Health service workers	—	207	—	20	11	52	30	59	27	—	8	—	33.4
Practical nurses	—	51	—	—	—	14	9	21	7	—	—	—	...
Personal service workers	—	219	13	13	55	56	12	45	25	—	—	—	27.5
Protective service workers	—	8	—	—	—	—	—	8	—	—	—	—	...
Private household workers	8	92	7	—	7								

Table 174. Occupation of Employed Persons by Age, Race, 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 Standard Metropolitan Statistical Areas of 250,000 or More	Persons 14 and 15 years old	Persons 16 years old and over											Median age		
		Total	16 and 17 years	18 and 19 years	20 to 24 years	25 to 29 years	30 to 34 years	35 to 44 years	45 to 54 years	55 to 59 years	60 to 64 years	65 years and over			
FLINT SMSA															
Total															
Male employed	1 207	117 434	3 232	5 221	13 552	15 571	13 668	28 400	23 184	8 049	4 251	2 306		37.6	
Professional, technical, and kindred workers	19	12 081	114	386	1 481	2 109	1 752	2 992	2 044	587	394	222		35.7	
Accountants		740	—	5	55	130	117	148	182	49	25	29		39.3	
Architects		68	—	—	—	15	—	21	32	—	—	—		—	
Computer specialists		2 488	—	12	28	101	60	32	15	—	—	—		29.2	
Engineers		2 064	8	27	283	320	279	518	469	98	37	25		37.2	
Aeronautical and astronautical		—	—	—	—	—	—	—	—	—	—	—		—	
Civil		129	—	—	17	36	19	29	19	4	5	—		33.0	
Electrical and electronic		216	8	5	48	33	15	52	51	—	—	—		34.7	
Mechanical		765	—	11	112	108	92	205	181	37	14	5		37.9	
Other engineers		954	—	11	106	143	153	232	218	57	18	16		37.8	
Lawyers and judges		276	—	—	—	39	39	60	57	48	33	—		45.0	
Life and physical scientists		187			26	39	26	50	34	8				35.5	
Chemists		155	—	—	26	33	16	44	24	8	—	4		35.6	
Physicians, dentists, and related practitioners		1 121			22	139	128	386	214	64	81	87		42.0	
Dentists		159	—	—	—	13	20	47	19	20	14	26		44.9	
Pharmacists		220	—	—	22	15	29	56	45	13	20	20		42.9	
Physicians, medical and osteopathic		631	—	—	—	96	58	255	120	31	35	36		41.3	
Other related practitioners		111	—	—	—	15	21	28	30	—	12	5		42.0	
Health technologists and technicians		163	7	6	22	29	25	26	32	6	5	5		33.5	
Religious workers		458		6	10	49	47	83	140	38	48	37		47.4	
Social scientists		113			13	25	21	30	10	9	5			34.4	
Social and recreation workers		225	11		53	44	11	58	35	4	9			32.0	
Teachers		2 648	22	8	503	674	458	649	195	87	44	8		31.3	
College and university		422	—	—	5	72	89	176	62	10	4	4		37.6	
Elementary and prekindergarten		678	5	—	152	167	75	213	32	20	14	—		31.0	
Secondary		1 464	7	8	335	415	278	255	86	54	22	4		29.6	
Engineering and science technicians		1 615	30	259	235	156	195	337	281	72	39	11		33.3	
Draftsmen and surveyors		843	14	35	139	111	114	235	152	24	19	—		35.4	
Electrical and electronic engineering technicians		69	—	—	20	5	11	13	15	—	5	—		—	
Technicians, except health, and engineering and science		6	101	6	—	15	20	10	24	13	—	13		34.8	
Airplane pilots		12	—	—	3	—	5	—	4	—	—	—		—	
Writers, artists, and entertainers		3	638	25	35	101	122	180	112	10	13	5		35.1	
Other professional, technical, and kindred workers		10	1 416	5	28	181	228	214	390	223	94	42		36.3	
Managers and administrators, except farm		10	7 762	25	91	427	845	958	2 147	2 024	633	365	247		42.1
Buyers, purchasing agents, and sales managers		909	4	4	73	136	149	229	226	57	19	12		38.9	
School administrators		362	—	—	—	43	57	149	66	27	10	10		40.4	
Specified managers and administrators, public administration		441	—	—	14	10	109	189	46	22	41	49		49.1	
Other specified managers and administrators		6	1 340	4	35	132	169	167	347	285	119	44		39.7	
Managers and administrators, n.e.c., salaried		4	3 525	17	52	190	399	487	988	868	252	187		41.3	
Manufacturing		4	736	6	19	29	69	95	214	204	67	14		42.0	
Wholesale and retail trade		—	1 382	5	33	127	179	191	365	271	92	79		39.3	
Transportation, communications, and other public utilities		—	274	—	—	16	27	89	113	11	13	5		45.4	
All other industries		—	1 133	6	—	34	135	174	320	280	82	81		41.8	
Managers and administrators, n.e.c., self-employed		—	1 185	—	18	88	88	325	390	132	83	61		46.9	
Construction		—	233	—	8	18	31	66	71	24	10	5		44.0	
Manufacturing		—	70	—	—	4	7	15	31	9	4	—		—	
Wholesale and retail trade		—	666	—	6	38	36	189	219	75	59	44		47.9	
All other industries		—	216	—	4	28	14	55	69	24	10	12		46.0	
Sales workers		456	5 521	362	346	570	645	486	1 257	987	339	256	273		37.8
Insurance agents, brokers, and underwriters		7	664	—	—	90	63	54	210	137	58	42		41.0	
Real estate agents and brokers		—	434	—	5	26	42	77	95	92	34	24		39.9	
Sales representatives, manufacturing industries		—	394	—	—	36	69	44	91	102	18	9		40.3	
Sales representatives, wholesale trade		—	846	—	11	96	125	86	228	171	50	42		39.6	
Sales clerks, retail trade		23	1 433	243	225	217	94	83	193	151	52	61		114	
Salesmen, retail trade		5	935	6	33	65	131	73	253	219	79	46		30	
Salesmen of services and construction		—	219	—	14	6	56	20	74	20	19	10		36.8	
Other sales workers		421	596	113	58	34	65	49	113	95	29	22		18	
Clerical and kindred workers		28	6 622	172	319	799	932	671	1 503	1 359	469	244	134		37.6
Bank tellers and cashiers		6	294	53	73	88	33	10	22	5	—	—		21.2	
Bookkeepers and billing clerks		—	497	7	25	59	80	31	94	109	39	35		39.9	
Mail handlers and postal clerks		—	450	9	17	41	27	38	156	128	24	5		41.0	
Other clerical and kindred workers		22	5 381	103	204	611	812	592	1 231	1 117	406	204		101	
Craftsmen and kindred workers		52	30 787	157	552	2 554	3 785	3 872	8 783	7 232	2 544	993	315		40.1
Apparel craftsmen and upholsterers		—	140	4	—	25	20	14	18	24	9	16		10	
Bakers		—	73	—	—	9	3	30	6	15	15	15		—	
Cabinetmakers		—	97	—	13	5	12	6	11	11	11	8		—	
Construction craftsmen		19	5 801	27	97	578	778	749	1 715	1 105	435	233		84	
Carpenters		—	1 221	5	40	117	115	177	359	256	83	46		23	
Excavating, grading, and road machine operators		—	470	3	6	33	59	73	143	70	68	15		39.3	
Electricians		—	1 632	—	20	166	200	234	413	361	164	61		13	
Masons and tile setters		—	334	5	—	21	58	66	104	44	5	31		—	
Painters, construction and maintenance, and paperhangers		5	508	14	6	76	78	60	163	63	14	13		21	
Plasterers and cement finishers		—	135	—	—	9	19	9	49	42	—	7		—	
Plumbers and pipe fitters		—	1 189	—	19	131	157	104	386	235	98	40		19	
Other construction craftsmen		14	312	—	6	25	92	26	98	34	3	20		8	
Foremen, n.e.c.		—	4 924	7	24	136	498	720	1 547	1 384	459	126		23	
Manufacturing		—	4 031	7	24	90	424	597	1 242	1 161	402	78		6	
Nonmanufacturing industries		—	893	—	—	46	74	123	305	223	57	48		17	
Linemen and servicemen, telephone and power		—	618	—	37	104	113	83	125	148	8	—		—	
Locomotive engineers and firemen		—	38	—	—	—	—	—	18	16	4	—		—	
Mechanics and repairmen		16	6 898	95	208	550	936	760	1 915	1 550	583	214		87	
Air conditioning, heating, and refrigeration		—	160	5	5	9	5	27	44	39	8	9		9	
Aircraft		5	11	—	—	—	—	—	6	5	—	—		—	
Automobile, including body		—	3 687	49	120	320</									

Table 174. Occupation of Employed Persons by Age, Race, 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 Standard Metropolitan Statistical Areas of 250,000 or More	Persons 14 and 15 years old	Persons 16 years old and over											
		Total	16 and 17 years	18 and 19 years	20 to 24 years	25 to 29 years	30 to 34 years	35 to 44 years	45 to 54 years	55 to 59 years	60 to 64 years	65 years and over	Median age
FLINT SMSA—Continued													
Total—Continued													
Male employed—Continued													
Operatives, except transport													
Assemblers	71	31 564	397	1 902	5 109	4 522	3 577	6 845	5 864	2 039	983	326	35.4
Checkers, examiners, and inspectors, manufacturing	6	8 530	17	653	2 091	1 688	961	1 679	1 005	272	127	37	29.5
Garage workers and gas station attendants	10	1 017	239	354	169	48	20	53	80	20	6	28	19.5
Laundry and drycleaning operatives, n.e.c.	—	141	5	9	11	23	4	11	18	31	21	8	49.2
Meat cutters and butchers	—	325	—	46	62	41	28	47	41	18	26	16	32.4
Mine operatives, n.e.c.	—	62	—	6	12	18	11	—	4	5	6	—	...
Packers and wrappers, except produce	—	372	5	11	78	72	38	47	39	71	11	—	32.6
Painters, manufactured articles	4	867	—	51	106	88	89	234	214	61	15	9	39.3
Precision machine operatives	—	2 115	5	47	200	324	172	425	551	249	109	33	42.3
Sawyers	—	61	—	—	6	5	—	20	19	4	—	2	...
Stationary firemen	—	169	—	—	6	15	4	77	24	13	21	9	42.7
Textile operatives	—	27	—	—	—	4	—	—	14	4	5	—	...
Welders and flamecutters	—	2 488	—	91	393	361	338	586	491	137	77	14	36.0
Other metalworking operatives	—	3 511	3	157	361	392	553	943	716	240	98	48	38.1
Other specified operatives	51	2 991	79	160	377	366	326	690	550	196	180	67	37.7
Miscellaneous and not specified operatives	—	5 159	44	239	797	643	648	1 150	1 110	341	147	40	36.8
Occupation:													
Machine operatives, miscellaneous specified	—	1 434	19	43	193	207	193	295	330	99	40	15	37.1
Machine operatives, not specified	—	1 978	11	97	303	191	259	507	413	114	78	5	37.5
Miscellaneous operatives	—	953	9	54	163	135	87	205	190	74	21	15	36.4
Not specified operatives	—	794	5	45	138	110	109	143	177	54	8	5	34.5
Industry:													
Manufacturing	—	4 890	30	215	752	611	605	1 106	1 070	326	140	35	37.1
Durable goods	—	4 662	30	200	721	581	543	1 064	1 038	313	137	35	37.4
Wood products, including furniture	—	28	7	—	—	—	—	11	5	—	5	—	...
Primary metal industries	—	94	—	5	9	11	6	21	27	9	6	—	...
Fabricated metal industries	—	138	—	15	5	6	19	36	47	—	5	5	41.7
Machinery, including electrical	—	142	11	10	14	25	5	32	13	32	—	—	36.9
Motor vehicles and equipment	—	4 096	—	158	665	515	475	949	934	259	116	25	37.5
Transportation equipment, except motor vehicles	—	42	—	12	10	—	10	—	—	5	5	—	...
Other durable goods	—	122	12	—	18	24	28	15	12	8	—	5	31.3
Nondurable goods	—	224	—	15	31	30	62	42	32	9	3	—	32.9
Food and kindred products	—	43	—	5	—	5	6	10	17	—	—	—	...
Apparel and other fabricated textile products	—	5	—	—	—	—	—	5	—	—	—	—	...
Paper and allied products	—	67	—	6	16	5	29	9	2	—	—	—	...
Chemicals and allied products	—	84	—	4	15	10	22	13	13	4	3	—	...
Other nondurable goods	—	25	—	—	—	10	5	5	—	5	—	—	...
Not specified manufacturing industries	—	4	—	—	—	—	—	—	—	4	—	—	...
Nonmanufacturing industries	—	269	14	24	45	32	43	44	40	15	7	5	32.3
Transportation, communications, and other public utilities	—	33	—	5	4	10	—	10	4	—	—	—	...
Wholesale and retail trade	—	138	14	11	17	5	12	30	29	11	4	5	38.3
All other industries	—	98	—	8	24	17	31	4	7	4	3	—	...
Transport equipment operatives	32	6 542	36	190	649	914	762	1 915	1 351	393	221	111	38.8
Bus drivers	—	86	—	—	15	9	11	14	17	7	9	4	...
Taxicab drivers and chauffeurs	—	355	—	—	36	24	16	110	124	22	14	9	44.2
Truck drivers and deliverymen	15	4 633	20	137	423	602	484	1 472	979	281	176	59	39.4
Other transport equipment operatives	17	1 468	16	53	175	279	251	319	231	83	22	39	34.2
Laborers, except farm	182	6 972	974	793	931	760	730	1 239	918	300	214	113	36.2
Construction laborers	9	756	44	68	118	99	77	182	92	39	33	4	33.2
Freight, stock, and material handlers	60	3 879	676	539	503	434	454	567	447	140	93	26	27.6
Other specified laborers	86	1 396	172	154	154	111	117	292	242	43	68	43	34.6
Miscellaneous and not specified laborers	27	941	82	32	156	116	82	198	137	78	20	40	35.1
Occupation:													
Miscellaneous laborers	—	350	19	10	69	59	24	69	45	23	11	21	33.8
Not specified laborers	27	591	63	22	87	57	58	129	92	55	9	19	35.7
Industry:													
Manufacturing	—	675	30	18	135	96	78	122	98	58	9	31	33.8
Durable goods	—	626	20	18	124	90	74	119	98	53	9	21	34.1
Wood products, including furniture	—	14	—	7	—	—	—	—	7	—	—	—	...
Metal industries	—	47	4	—	5	6	6	9	—	—	5	12	...
Machinery, including electrical	—	14	—	—	7	—	—	—	3	—	4	—	...
Transportation equipment	—	524	6	11	112	84	68	98	88	48	—	9	33.6
Other durable goods	—	27	10	—	—	—	—	12	—	5	—	—	...
Nondurable goods	—	46	10	—	11	6	4	—	—	5	—	10	...
Food and kindred products	—	22	—	—	5	6	—	—	—	5	—	6	...
Not specified manufacturing industries	—	3	—	—	—	—	—	—	—	—	—	—	...
Nonmanufacturing industries	27	266	52	14	21	20	4	76	39	20	11	9	37.9
Railroads and railway express service	—	42	—	—	4	—	—	10	11	14	—	3	...
Transportation, except railroads	7	11	6	—	—	—	—	5	—	—	—	—	...
Communications, and utilities and sanitary services	—	59	—	5	8	10	4	27	—	—	5	—	...
Wholesale and retail trade	—	70	24	—	9	—	—	25	6	—	—	6	...
All other industries	20	84	22	9	—	10	—	9	22	6	6	—	...
Farmers and farm managers	—	988	12	4	52	51	64	173	297	150	80	105	49.4
Farm laborers and farm foremen	110	656	135	82	87	51	36	95	67	28	30	45	27.4
Paid farm laborers and farm foremen	91	594	121	69	71	51	31	95	67	28	26	35	28.5
Unpaid family workers	19	62	14	13	16	—	5	—	—	—	4	10	...
Service workers, except private household ¹	215	7 910	843	551	893	933	753	1 451	1 037	567	447	415	34.9
Cleaning service workers	85	3 389	216	210	405	379	316	604	460	295	316	188	37.8
Food service workers	68	1 102	495	181	107	49	34	78	43	78	17	20	18.6
Cooks, except private household	10	479	175	63	81	34	—	44	33	24	5	20	20.1
Busboys and dishwashers	38	271	190	50	11	9	5	—	—	6	—	—	17.4
Health service workers	—	419	25	77	96	57	37	48	31	19	23	6	26.0
Personal service workers	20	738	73	29	89	123	62	127	97	38	27	73	34.4
Protective service workers	—	1 815	14	13	142	267	267	512	347	115	48	90	39.0
Firemen, fire protection	—	286	—	—	6	30	27	136	77	10	—	—	40.9
Guards and watchmen	—	642	—	—	40	71	92	153	177	71	30	8	42.7
Policemen and detectives	—	724	14	13	89	149	133	208	83	22	13	—	33.6
Private household workers	32	29	5	5	—	4	7	—	4	—	4	—	...

¹Includes allocated cases not shown separately.

Table 174. Occupation of Employed Persons by Age, Race, 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
Standard Metropolitan Statistical
Areas of 250,000 or More

FLINT SMSA—Continued

Total—Continued

	Persons 14 and 15 years old	Persons 16 years old and over											Median age
		Total	16 and 17 years	18 and 19 years	20 to 24 years	25 to 29 years	30 to 34 years	35 to 44 years	45 to 54 years	55 to 59 years	60 to 64 years	65 years and over	
Female employed	603	59 132	2 088	3 235	9 198	6 288	5 813	13 578	11 676	4 058	1 980	1 218	37.2
Professional, technical, and kindred workers	22	8 785	50	65	1 547	1 541	992	1 940	1 452	601	398	199	36.0
Accountants	—	330	5	—	21	27	28	97	117	13	20	2	43.7
Computer specialists	—	51	—	—	9	15	5	11	11	—	—	—	...
Librarians	—	145	5	—	12	37	17	37	19	14	4	—	35.4
Mathematical specialists	—	5	—	—	—	5	—	—	—	—	—	—	...
Life and physical scientists	—	17	—	—	—	6	5	6	—	—	—	—	...
Registered nurses, dietitians, and therapists	—	1 815	5	—	302	225	202	485	407	89	70	30	38.6
Dietitians	—	87	5	—	4	18	11	27	13	9	—	—	38.6
Registered nurses	—	1 648	—	—	284	186	191	454	359	74	70	30	38.6
Health technologists and technicians	—	483	—	20	93	142	77	90	53	8	—	—	29.5
Social scientists	—	35	—	—	4	10	17	4	—	—	—	—	...
Social and recreation workers	—	265	—	—	57	67	15	45	38	33	10	—	32.8
Teachers: College and university	—	123	—	5	11	21	14	37	25	4	—	6	37.8
Elementary and prekindergarten	7	3 052	11	—	569	549	350	623	370	303	200	77	35.8
Secondary	4	1 213	6	—	327	280	132	187	185	55	25	16	29.9
Other teachers	7	282	5	9	11	38	39	48	46	32	22	32	43.1
Engineering and science technicians	—	57	4	7	20	4	—	16	—	6	—	—	...
Technicians, except health, and engineering and science	—	18	—	—	—	—	—	18	—	—	—	—	...
Writers, artists, and entertainers	—	266	4	24	26	31	37	84	29	10	17	4	36.3
Actors and dancers	—	—	—	—	—	—	—	—	—	—	—	—	...
Authors, editors, and reporters	—	50	—	—	4	—	13	28	—	5	—	—	...
Other professional, technical, and kindred workers	4	628	5	—	85	84	54	152	152	34	30	32	40.7
Managers and administrators, except farm	4	1 599	—	5	111	151	115	438	407	232	49	91	44.5
Buyers, purchasing agents, and sales managers	4	276	—	—	26	51	14	66	54	41	5	19	42.1
Restaurant, cafeteria, and bar managers	—	198	—	5	—	—	8	67	65	42	—	11	47.9
School administrators	—	109	—	—	9	4	14	26	24	21	6	5	45.6
Other specified managers and administrators	—	358	—	—	19	31	17	113	99	45	10	24	44.9
Managers and administrators, n.e.c., salaried	—	517	—	—	57	55	54	132	108	62	28	21	42.0
Wholesale and retail trade	—	211	—	—	17	7	28	59	49	32	9	10	44.1
Managers and administrators, n.e.c., self-employed	—	141	—	—	—	10	8	34	57	21	—	11	48.2
Wholesale and retail trade	—	90	—	—	—	—	8	34	25	16	—	7	...
Sales workers	15	5 047	445	568	616	385	337	938	976	399	226	157	36.8
Demonstrators, hucksters, and peddlers	—	299	—	15	29	32	31	95	58	24	5	10	39.5
Insurance, real estate agents, and brokers	—	245	—	4	16	38	10	67	67	32	10	17	44.6
Sales clerks, retail trade	10	3 684	405	468	480	223	203	619	723	306	153	104	36.0
Salesmen, retail trade	—	214	10	30	30	9	10	56	36	7	17	9	38.2
Other sales workers	5	605	30	51	61	93	83	101	92	30	41	23	34.1
Clerical and kindred workers	70	18 219	592	1 432	3 914	1 836	1 861	3 766	3 258	999	370	191	33.6
Bank tellers	5	483	5	17	147	70	90	73	57	20	4	—	30.1
Bookkeepers	—	2 356	22	108	356	171	255	553	547	193	76	75	39.8
Cashiers	10	1 700	85	180	379	197	213	240	269	79	44	14	30.2
Counter clerks, except food	—	437	25	29	90	35	23	99	83	39	4	10	36.7
Enumerators and interviewers	—	54	—	—	—	10	13	18	10	3	—	—	...
File clerks	17	359	37	52	71	8	33	82	53	18	—	5	31.7
Office machine operators	—	770	—	63	289	64	87	130	126	11	—	—	27.6
Bookkeeping and billing machine operators	—	86	—	14	37	10	11	10	4	—	—	—	...
Keypunch operators	—	466	—	33	195	39	54	79	60	6	—	—	25.6
Payroll and timekeeping clerks	—	202	—	11	37	21	26	43	53	11	—	—	36.4
Receptionists	—	607	25	66	126	55	31	157	92	36	19	—	35.0
Secretaries	9	4 327	102	264	1 009	488	465	892	789	234	49	35	33.2
Stenographers	—	287	15	11	71	38	37	56	44	15	—	—	31.1
Telephone operators	—	526	—	101	161	41	40	128	21	14	5	15	25.1
Typists	5	1 587	121	155	335	179	119	362	225	70	12	9	30.1
Other clerical and kindred workers	24	4 524	155	375	843	459	429	933	889	256	157	28	35.0
Craftsman and kindred workers	6	1 014	5	22	87	99	94	310	237	91	44	25	41.5
Foremen, n.e.c.	—	181	—	—	6	17	24	56	44	21	7	6	42.8
Operatives, except transport	44	9 477	34	171	955	992	884	2 873	2 500	714	216	138	40.9
Assemblers	13	3 262	—	53	431	422	376	947	805	136	51	41	38.7
Bottling and canning operatives	—	29	—	4	5	—	—	17	—	3	—	—	...
Checkers, examiners, and inspectors, manufacturing	—	814	—	—	28	79	64	305	244	60	18	16	42.7
Dressmakers and seamstresses, except factory	—	205	—	—	18	—	10	41	54	48	20	14	51.2
Laundry and dry cleaning operatives, including ironers	4	474	6	5	50	37	53	106	137	37	30	13	43.1
Graders and sorters, manufacturing	—	40	—	—	8	6	6	4	6	5	5	—	...
Packers and wrappers, except produce	—	499	11	46	42	64	41	91	134	52	12	6	40.0
Sewers and stitchers	—	261	—	6	23	15	9	89	74	31	9	5	43.7
Textile operatives	—	7	—	—	—	—	—	7	—	—	—	—	...
Other specified operatives	27	2 033	13	37	204	196	217	617	479	190	52	28	40.7
Miscellaneous and not specified operatives	—	1 853	4	20	146	173	108	649	567	152	19	15	42.3
Manufacturing	—	1 697	—	9	138	155	95	579	538	152	16	15	42.8
Durable goods	—	1 452	—	9	101	101	95	513	463	139	16	15	43.2
Machinery, including electrical	—	164	—	4	5	6	4	60	56	21	4	4	45.5
Other durable goods	—	1 288	—	5	96	95	91	453	407	118	12	11	42.9
Nondurable goods, including not specified manufacturing	—	245	—	—	37	54	—	66	75	13	—	—	39.8
Food and kindred products	—	23	—	—	—	12	—	—	11	—	—	—	...
Apparel and other fabricated textile products	—	52	—	—	16	10	—	5	16	5	—	—	...
Nonmanufacturing industries	—	156	4	11	8	18	13	70	29	—	3	—	38.4
Transport equipment operatives	—	630	—	11	16	27	89	251	197	30	9	—	41.9
Laborers, except farm	11	535	26	33	69	44	71	167	83	26	16	—	36.5
Farmers and farm managers	4	70	—	—	—	—	4	25	19	5	12	5	...
Farm laborers and farm foremen	3	115	4	—	32	8	10	25	21	5	5	5	36.4
Paid farm laborers and farm foremen	3	69	4	—	26	8	5	11	10	—	—	5	...
Unpaid family workers	—	46	—	—	6	—	5	14	11	5	5	—	...
Service workers, except private household¹	202	12 199	736	814	1 742	1 163	1 270	2 625	2 249	813	560	227	36.4
Cleaning service workers	10	1 542	49	36	87	95	135	348	410	172	149	61	45.5
Chambermaids and maids	—	198	—	—	17	6	27	48	55	18	16	7	44.4
Food service workers	52	4 356	554	438	453	293	460	929	780	221	155	73	34.8
Cooks, except private household	11	1 085	55	57	54	44	84	299	287	107	49	39	43.0
Waiters and food counter workers	31	2 451	430	312	332	159	275	438	355	90	64	6	29.8
Health service workers	—	3 503	53	176	702	422	351	794	609	246	129	21	35.6
Nursing aides, orderlies, and attendants	—	1 900	34	116	379	210	179	485	289	140	63	5	35.7
Practical nurses	—	973	—</										

Table 174. Occupation of Employed Persons by Age, Race, 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
Standard Metropolitan Statistical
Areas of 250,000 or More

FLINT SMSA—Continued

Negro

Male employed

	Persons 14 and 15 years old	Persons 16 years old and over											Median age
		Total	16 and 17 years	18 and 19 years	20 to 24 years	25 to 29 years	30 to 34 years	35 to 44 years	45 to 54 years	55 to 59 years	60 to 64 years	65 years and over	
Professional, technical, and kindred workers	151	12 400	264	508	1 684	1 654	1 661	3 344	2 181	524	414	166	36.3
Engineers.....	—	446	11	8	57	110	70	105	55	16	9	5	32.6
Lawyers and judges.....	—	23	—	—	18	5	—	—	—	—	—	—	...
Life and physical scientists.....	—	6	—	—	—	—	—	—	6	—	—	—	...
Physicians, dentists, and related practitioners.....	—	46	—	—	6	—	7	20	13	—	—	—	...
Health workers, except practitioners.....	—	21	—	—	—	—	21	—	—	—	—	—	...
Social and recreation workers.....	—	34	6	—	8	5	3	—	8	4	—	—	...
Teachers.....	—	150	5	—	4	68	18	45	—	6	4	—	29.9
Technicians, except health.....	—	37	—	8	5	8	4	9	3	—	—	—	...
Writers, artists, and entertainers.....	—	8	—	—	—	—	8	—	—	—	—	—	...
Other professional, technical, and kindred workers.....	—	115	—	—	10	24	9	31	25	6	5	5	39.7
Managers and administrators, except farm	—	188	—	9	8	5	40	73	30	9	6	8	39.4
Salaried.....	—	137	—	9	8	5	24	62	16	5	—	8	38.6
Self-employed.....	—	16	—	—	4	—	4	4	—	—	—	—	...
Manufacturing.....	—	29	—	—	—	5	11	—	—	—	—	—	...
Retail trade.....	—	92	—	9	4	—	15	47	12	5	—	—	...
All other industries.....	—	51	—	—	—	—	16	11	14	4	6	—	...
Manufacturing and wholesale trade.....	—	20	—	—	—	—	6	11	3	—	—	—	...
Retail trade.....	—	31	—	—	—	—	10	—	11	4	—	—	...
All other industries.....	—	—	—	—	—	—	—	—	—	—	—	—	...
Sales workers	52	145	9	23	23	11	24	21	28	—	—	6	31.4
Manufacturing and wholesale trade.....	—	23	—	11	—	—	—	7	5	—	—	—	...
Retail trade.....	—	86	9	12	16	11	11	17	—	—	—	6	...
All other industries.....	—	36	—	—	7	—	13	10	6	—	—	—	...
Clerical and kindred workers	6	474	29	15	68	104	64	122	44	11	—	17	31.6
Bookkeepers and billing clerks.....	—	8	2	—	—	—	—	6	—	—	—	—	...
Mail handlers and postal clerks.....	—	52	3	7	11	9	11	5	6	—	—	—	...
Other clerical and kindred workers.....	—	414	24	8	57	95	53	111	38	11	—	17	32.2
Craftsmen and kindred workers	7	1 796	7	29	148	193	252	549	492	85	41	—	39.9
Carpenters.....	—	29	—	—	6	—	7	16	—	—	—	—	...
Construction craftsmen, except carpenters.....	—	183	—	—	16	44	23	41	47	—	12	—	37.1
Automobile mechanics, including body repairmen.....	—	337	—	8	25	27	36	101	102	34	4	—	42.2
Mechanics and repairmen, except auto.....	—	175	—	5	19	10	34	51	36	10	10	—	38.8
Machinists.....	—	14	—	—	—	—	6	—	8	—	—	—	...
Metal craftsmen, except mechanics and machinists.....	—	516	—	—	28	33	73	195	157	21	9	—	41.4
Foremen, n.e.c.....	—	153	7	—	—	20	15	33	72	6	—	—	45.2
Other craftsmen and kindred workers.....	—	389	—	16	54	59	58	112	70	14	6	—	35.7
Operatives, except transport	26	6 185	40	263	1 023	889	930	1 619	976	243	153	49	34.7
Assemblers.....	—	2 158	10	96	505	406	304	476	259	54	42	6	31.0
Garage workers and gas station attendants.....	—	35	—	5	5	4	—	10	2	—	—	5	...
Laundry and drycleaning operatives, including ironers.....	—	33	5	6	11	—	—	—	2	—	9	—	...
Precision machine operatives.....	—	177	—	4	3	42	40	45	32	6	5	—	34.9
Other operatives, except transport.....	—	3 782	25	152	499	437	586	1 088	677	183	97	38	36.8
Durable goods, manufacturing.....	—	3 613	18	139	489	418	560	1 016	655	183	97	38	36.8
Non-durable goods, including not specified manufacturing.....	—	54	—	7	—	12	11	17	7	—	—	—	...
Nonmanufacturing industries.....	—	115	7	6	10	7	15	55	15	—	—	—	37.3
Transport equipment operatives.....	—	803	—	11	68	89	56	309	194	29	40	5	40.7
Truck drivers.....	—	485	—	8	47	47	25	201	107	14	36	—	40.7
Other transport equipment operatives.....	—	318	—	3	21	42	31	108	89	15	4	5	40.7
Laborers, except farm	4	1 007	72	42	128	97	91	277	179	49	51	21	37.7
Construction laborers.....	—	124	5	—	15	5	5	32	22	19	17	4	45.0
Freight, stock, and material handlers.....	—	403	53	16	58	52	43	124	37	14	6	—	32.6
Other laborers, except farm.....	—	480	14	26	55	40	43	121	120	16	28	17	40.1
Manufacturing industries.....	—	362	10	14	51	32	28	91	93	9	21	13	40.1
Farmers and farm managers.....	—	14	—	—	4	—	—	—	—	5	—	—	...
Farm laborers and farm foremen.....	—	28	9	—	7	7	—	5	—	—	—	—	...
Service workers, except private household¹	39	1 306	87	108	150	144	134	264	177	77	110	55	36.1
Cleaning service workers.....	—	810	23	50	86	69	87	196	109	60	94	36	39.6
Food service workers.....	—	75	19	18	5	—	—	8	13	4	8	—	...
Health service workers.....	—	56	8	30	4	6	5	—	3	—	—	—	...
Personal service workers.....	—	112	20	3	18	15	11	19	18	—	8	—	30.0
Protective service workers.....	—	85	7	7	13	20	18	4	16	—	—	—	...
Private household workers.....	—	8	—	—	—	—	—	—	4	—	4	—	...
Female employed	50	7 455	159	388	1 376	1 097	1 000	1 860	1 108	250	152	65	33.5
Professional, technical, and kindred workers.....	—	706	5	4	95	181	108	222	75	11	5	—	33.1
Registered nurses.....	—	119	—	—	16	14	18	49	18	4	—	—	37.3
Health workers, except nurses.....	—	81	5	—	9	23	13	20	11	—	—	—	...
Teachers, elementary and secondary schools.....	—	367	—	—	34	130	63	110	22	3	5	—	31.5
Technicians, except health.....	—	5	—	—	—	—	—	5	—	—	—	—	...
Other professional, technical, and kindred workers.....	—	134	—	4	36	14	14	38	24	4	—	—	34.6
Managers and administrators, except farm	—	77	—	—	13	14	4	21	25	—	—	—	...
Salaried.....	—	72	—	—	13	14	4	16	25	—	—	—	...
Self-employed.....	—	5	—	—	—	—	—	5	—	—	—	—	...
Sales workers	—	304	30	35	80	19	39	46	39	10	6	—	26.8
Retail trade.....	—	300	30	35	80	19	39	46	35	10	6	—	26.3
Clerical and kindred workers	4	1 581	48	186	523	235	189	296	96	8	—	—	25.7
Bookkeepers and cashiers.....	—	224	—	16	86	63	13	35	7	4	—	—	25.8
Office machine operators.....	—	51	—	—	30	2	10	9	—	—	—	—	...
Secretaries, stenographers, and typists.....	—	334	5	60	157	43	35	34	—	—	—	—	23.2
Other clerical and kindred workers.....	—	972	43	110	250	127	131	218	89	4	—	—	28.3
Craftsmen and kindred workers	—	153	—	—	19	33	11	41	36	6	7	—	38.3
Operatives, except transport	5	1 774	4	33	311	306	265	449	292	66	31	17	34.4
Sewers and stitchers.....	—	23	—	6	12	—	—	—	5	—	—	—	...
Laundry and drycleaning operatives, including ironers.....	—	199	—	5	25	14	32	50	50	12	11	—	39.7
Other operatives, except transport.....	—	1 552	4	22	274	292	233	399	237	54	20	17	33.9
Durable goods, manufacturing.....	—	1 372	4	15	255	252	228	347	212	34	15	10	33.5
Non-durable goods, including not specified manufacturing.....	—	51	—	—	—	20	—	28	—	3	—	—	...
Nonmanufacturing industries.....	—	129	—	7	19	20	5	24	25	17	5	7	40.6
Transport equipment operatives.....	—	39	—	—	—	—	11	10	13	5	—	—	...
Laborers, except farm.....	—	129	—	13	19	13	19	45	10	5	5	—	35.1
Farmers and farm managers.....	—	4	—	—	—	—	—	4	—	—	—	—	...
Farm laborers and farm foremen	—	16	—	—	11	—	—	—	5	—	—	—	...
Service workers, except private household¹	17	2 246	72	100	288	294	323	603	363	105	77	21	35.8
Cleaning service workers.....	—	430	—	—	7	28	53	114	130	42	44	12	46.0
Food service workers.....	—	503	45	70	47	40	87	141	56	10	7	—	32.8
Health service workers.....	—	874	5	26	145	157	155	225	134	23	4	—	33.4
Practical nurses.....	—	113	—	—	8	41	18	22	24	—	—	—	32.1
Personal service workers.....	—	130	9	—	—	9	9	68	14	12	—	9	40.6
Protective service workers.....	—	12											

Table 174. Occupation of Employed Persons by Age, Race, 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
Standard Metropolitan Statistical
Areas of 250,000 or More

GRAND RAPIDS SMSA

Total

Male employed

Professional, technical, and kindred workers

Persons 14 and 15 years old	Persons 16 years old and over											Median age	
	Total	16 and 17 years	18 and 19 years	20 to 24 years	25 to 29 years	30 to 34 years	35 to 44 years	45 to 54 years	55 to 59 years	60 to 64 years	65 years and over		
1 681	127 690	4 821	6 086	14 236	15 389	13 537	27 230	25 105	10 184	7 030	4 072	38.6	
24	15 515	67	214	1 802	2 754	2 379	3 497	2 718	917	710	457	36.5	
Accountants	1 476	—	21	117	259	196	294	308	114	106	61	39.9	
Architects	118	—	—	—	14	20	21	53	5	—	—	45.8	
Computer specialists	202	—	6	27	97	32	22	18	—	—	—	28.5	
Engineers	2 500	—	5	141	294	380	740	613	175	124	28	40.8	
Aeronautical and astronautical	45	—	—	6	5	11	18	5	—	—	—	...	
Civil	232	—	—	5	31	12	82	75	17	4	6	43.3	
Electrical and electronic	400	—	—	19	40	60	150	112	5	14	—	40.4	
Mechanical	422	—	—	34	60	65	82	106	35	35	5	41.3	
Other engineers	1 401	—	5	77	158	232	408	315	118	71	17	40.6	
Lawyers and judges	438	—	—	7	73	65	85	114	43	31	20	43.7	
Life and physical scientists	269	—	—	47	39	44	67	35	33	4	—	35.7	
Chemists	208	—	—	41	29	29	46	28	33	—	—	36.0	
Physicians, dentists, and related practitioners	1 380	—	—	21	131	171	388	267	163	104	135	44.5	
Dentists	266	—	—	—	8	37	91	33	44	17	36	44.7	
Pharmacists	308	—	—	10	47	47	65	55	20	26	38	42.7	
Physicians, medical and osteopathic	653	—	—	6	76	63	181	131	78	61	57	45.0	
Other related practitioners	153	—	—	5	—	24	51	48	21	—	4	44.3	
Health technologists and technicians	199	—	11	52	34	33	25	34	5	—	5	30.4	
Religious workers	826	—	9	20	47	134	229	194	71	52	70	43.9	
Social scientists	186	—	—	—	39	41	61	26	5	5	9	37.1	
Social and recreation workers	272	—	—	62	60	45	57	33	5	10	—	31.6	
Teachers	6	3 176	11	24	604	879	581	537	330	91	98	21	30.6
College and university	613	—	14	37	103	130	150	126	5	38	10	36.5	
Elementary and prekindergarten	600	—	—	154	227	83	59	40	22	15	—	28.2	
Secondary	1 848	6	10	395	519	358	305	158	53	38	6	29.9	
Engineering and science technicians	4	1 567	20	58	326	266	202	334	237	55	59	10	32.8
Draftsmen and surveyors	4	995	15	34	219	165	132	210	152	22	41	5	32.4
Electrical and electronic engineering technicians	—	133	—	—	9	31	31	40	16	6	—	—	34.3
Technicians, except health, and engineering and science	—	134	6	—	17	33	29	25	20	—	—	—	31.9
Airplane pilots	—	48	—	—	6	14	11	13	—	—	—	—	...
Writers, artists, and entertainers	14	1 250	20	50	216	210	179	187	59	85	57	33.6	
Other professional, technical, and kindred workers	—	1 522	10	30	145	279	227	425	249	93	27	37	36.6
Managers and administrators, except farm	—	13 266	11	82	646	1 274	1 509	3 756	3 476	1 151	879	482	43.3
Buyers, purchasing agents, and sales managers	—	2 081	—	14	140	282	282	507	154	73	47	41.4	
School administrators	—	396	—	—	—	17	69	154	94	21	31	10	42.3
Specified managers and administrators, public administration	—	606	—	5	11	47	37	168	201	60	47	30	46.7
Other specified managers and administrators	—	1 963	—	21	184	295	239	467	435	124	129	69	40.2
Managers and administrators, n.e.c., salaried	—	6 560	11	42	294	582	761	1 969	1 705	527	414	255	43.1
Manufacturing	—	2 270	—	5	15	135	253	727	660	200	150	125	45.0
Wholesale and retail trade	—	2 136	5	30	183	245	246	686	401	127	136	77	40.2
Transportation, communications, and other public utilities	—	561	—	—	22	68	45	125	198	67	30	6	46.0
All other industries	—	1 593	6	7	74	134	217	431	446	133	98	47	43.3
Managers and administrators, n.e.c., self-employed	—	1 660	—	—	17	51	121	491	459	265	185	71	48.3
Construction	—	436	—	—	4	25	49	186	102	42	24	4	42.5
Manufacturing	—	177	—	—	—	—	20	29	57	24	25	22	51.9
Wholesale and retail trade	—	690	—	—	13	11	37	146	226	148	81	28	51.1
All other industries	—	357	—	—	—	15	15	130	74	51	55	17	47.5
Sales workers	535	10 848	426	497	953	1 451	1 047	2 510	2 147	849	568	400	39.2
Insurance agents, brokers, and underwriters	—	1 386	5	—	149	256	144	372	298	79	39	44	38.7
Real estate agents and brokers	—	564	—	6	14	66	74	115	162	53	35	39	45.4
Sales representatives, manufacturing industries	—	1 451	—	—	54	239	180	375	366	120	72	45	41.7
Sales representatives, wholesale trade	—	2 485	—	27	157	345	256	667	546	219	154	114	41.9
Sales clerks, retail trade	22	2 188	257	343	319	185	141	320	246	175	129	73	29.7
Salesmen, retail trade	10	1 313	16	69	111	193	137	301	284	91	86	25	39.3
Salesmen of services and construction	—	500	6	16	50	71	26	138	131	47	5	10	40.9
Other sales workers	503	961	142	36	99	96	89	222	114	65	48	50	35.8
Clerical and kindred workers	57	8 794	207	568	1 307	1 090	860	1 592	1 706	662	479	323	37.3
Bank tellers and cashiers	19	297	18	93	82	15	4	16	32	—	32	5	22.3
Bookkeepers and billing clerks	—	819	5	39	68	138	91	117	138	77	58	88	40.9
Mail handlers and postal clerks	—	1 144	14	45	81	75	131	287	363	96	31	21	42.9
Other clerical and kindred workers	38	6 534	170	391	1 076	862	634	1 172	1 173	489	358	209	36.1
Craftsmen and kindred workers	40	29 253	207	691	2 765	3 544	3 371	7 131	6 431	2 663	1 710	740	40.7
Apparel craftsmen and upholsterers	—	510	—	18	42	60	54	83	92	82	36	43	44.8
Bakers	6	320	31	36	61	30	25	26	43	27	35	6	30.4
Cabinetmakers	—	348	—	—	34	27	33	42	63	39	71	34	50.2
Construction craftsmen	28	6 560	25	131	645	905	775	1 746	1 377	470	323	163	39.6
Carpenters	—	1 960	7	73	130	211	230	508	483	168	96	54	41.5
Excavating, grading, and road machine operators	6	558	—	4	26	63	111	204	100	39	11	—	38.7
Electricians	—	1 131	—	10	113	152	106	306	265	88	58	33	41.0
Masons and tile setters	4	517	—	—	76	112	77	141	82	15	6	8	34.6
Painters, construction and maintenance, and paperhangers	11	885	18	24	124	90	63	219	140	60	101	46	40.6
Plasterers and cement finishers	7	310	—	—	33	36	55	93	73	20	—	—	38.3
Plumbers and pipe fitters	—	930	—	5	114	200	108	198	178	54	51	22	36.9
Other construction craftsmen	—	269	—	15	29	41	25	77	56	26	—	—	38.2
Foremen, n.e.c.	—	4 559	6	13	170	401	520	1 386	1 259	450	284	70	43.4
Manufacturing	—	3 156	—	13	100	244	344	889	981	329	219	37	44.9
Nonmanufacturing industries	—	1 403	6	—	70	157	176	497	278	121	65	33	40.9
Linemen and servicemen, telephone and power	—	802	—	11	106	101	114	253	197	16	—	4	37.7
Locomotive engineers and firemen	—	149	—	—	4	13	7	37	38	35	10	5	48.6
Mechanics and repairmen	—	6 191	83	258	788	836	765	1 287	1 268	485	291	130	37.8
Air conditioning, heating, and refrigeration	—	397	—	16	5	59	81	53	120	38	10	15	42.1
Aircraft	—	44	—	—	—	16	5	—	19	—	—	—	...
Automobile, including body	—	2 391	50	134	380	370	291	507	426	117	86	30	34.5
Radio and television	—	264	—	11	30	23	39	67	33	36	14	11	39.3
Other mechanics and repairmen	—	3 095	33	97	373	368	349	660	670	294	177	74	40.0
Metal craftsmen, except mechanics	—	5 215	14	105	475	577	596	1 201	1 251	617	306	73	42.0
Machinists and job and die setters	—	1 510	7	21	113	160	162	355	354	199	111	28	43.2
Sheetmetal workers and tinsmiths	—	395	—	15	49	31	22	122	85	31	25	15	41.6
Tool and die makers	—	2 508	7	49	281	300	306	497	637	283	121	27	41.3
Other metal craftsmen	—	802	—	20	32	86	106	227	175	104	49	3	41.9
Printing craftsmen	—	1 126	16	51	125	185	114	258	164	76	108	29	37.8
Compositors and typesetters	—	435	16	12	29	41	46	106	76	39	48	22	41.9

Table 174. Occupation of Employed Persons by Age, Race, 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
Standard Metropolitan Statistical
Areas of 250,000 or More

GRAND RAPIDS SMSA—Continued

Total—Continued

Male employed—Continued

	Persons 14 and 15 years old	Persons 16 years old and over											Median age
		Total	16 and 17 years	18 and 19 years	20 to 24 years	25 to 29 years	30 to 34 years	35 to 44 years	45 to 54 years	55 to 59 years	60 to 64 years	65 years and over	
Operatives, except transport	130	23 141	701	1 335	3 048	2 993	2 190	4 334	4 617	2 100	1 338	485	38.0
Assemblers.....	15	2 656	29	141	392	411	278	556	464	219	151	15	36.4
Checkers, examiners, and inspectors; manufacturing.....	—	1 430	—	16	126	142	131	323	376	183	115	18	44.3
Garage workers and gas station attendants.....	37	1 104	289	328	189	62	56	51	54	31	29	15	19.6
Laundry and drycleaning operatives, n.e.c.....	—	142	5	25	7	9	4	43	23	10	10	6	39.9
Meat cutters and butchers.....	—	675	20	35	69	95	64	138	107	62	41	44	38.9
Mine operatives, n.e.c.....	—	22	6	—	—	6	—	—	5	—	5	—	...
Packers and wrappers, except produce.....	15	879	88	90	218	100	63	115	98	42	55	10	27.2
Painters, manufactured articles.....	—	598	6	36	82	72	83	86	147	41	32	13	37.3
Precision machine operatives.....	—	1 877	5	83	280	246	198	328	397	186	135	19	38.9
Sawyers.....	—	469	—	25	36	37	30	99	89	56	48	49	45.8
Stationary firemen.....	—	186	8	—	20	29	5	20	43	15	40	6	47.6
Textile operatives.....	—	124	7	4	24	19	6	25	29	10	—	—	35.8
Welders and flamecutters.....	—	2 057	5	68	191	300	218	486	461	229	70	29	41.6
Other metalworking operatives.....	6	2 774	31	122	252	411	245	515	723	262	130	83	41.3
Other specified operatives.....	33	2 817	79	133	441	382	195	515	500	271	200	101	38.5
Miscellaneous and not specified operatives.....	24	5 331	123	229	721	672	614	1 034	1 101	483	277	77	38.0
Occupation:													
Machine operatives, miscellaneous specified.....	—	2 466	38	81	286	338	355	479	493	211	165	20	37.8
Machine operatives, not specified.....	—	1 055	6	65	143	170	85	182	213	112	65	14	38.2
Miscellaneous operatives.....	14	1 029	44	53	199	89	76	234	204	64	29	37	37.3
Not specified operatives.....	10	781	35	30	93	75	98	139	191	96	18	6	39.3
Industry:													
Manufacturing.....	3	4 758	64	180	646	629	557	895	1 055	428	250	54	38.4
Durable goods.....	—	3 499	31	105	433	488	409	653	801	338	198	43	39.3
Wood products, including furniture.....	—	867	5	34	134	144	111	130	160	46	79	24	35.4
Primary metal industries.....	—	471	—	11	38	63	52	109	138	48	12	5	41.6
Fabricated metal industries.....	—	633	—	29	68	80	73	123	123	82	50	5	40.4
Machinery, including electrical.....	—	744	14	23	125	115	70	121	173	69	30	4	37.1
Motor vehicles and equipment.....	—	322	—	8	30	41	43	52	89	52	7	—	42.5
Transportation equipment, except motor vehicles.....	—	102	5	—	5	15	5	5	39	14	4	10	49.1
Other durable goods.....	—	360	7	—	33	30	55	113	79	27	16	—	39.9
Nondurable goods.....	3	1 222	33	75	213	141	141	223	249	90	46	11	35.4
Food and kindred products.....	—	310	23	16	49	23	34	74	63	7	21	—	36.4
Apparel and other fabricated textile products.....	—	31	—	—	4	—	16	5	6	—	—	—	—
Paper and allied products.....	—	229	—	22	53	35	23	52	27	17	—	—	31.0
Chemicals and allied products.....	—	228	—	9	40	32	37	18	58	23	11	—	34.5
Other nondurable goods.....	3	424	10	28	67	51	31	74	101	37	14	11	38.4
Not specified manufacturing industries.....	—	37	—	—	7	—	7	19	5	—	6	—	...
Nonmanufacturing industries.....	21	573	59	49	75	43	57	139	46	55	27	23	35.3
Transportation, communications, and other public utilities.....	—	92	—	4	24	—	17	15	14	12	—	6	...
Wholesale and retail trade.....	14	313	54	9	36	27	37	55	21	38	23	13	34.1
All other industries.....	7	168	5	36	15	16	3	69	11	5	4	4	36.3
Transport equipment operatives.....	—	7 182	101	233	905	880	871	1 831	1 463	463	276	159	38.3
Bus drivers.....	—	258	6	—	29	30	26	37	47	18	51	14	45.2
Taxicab drivers and chauffeurs.....	—	110	5	—	6	4	21	30	31	8	—	5	41.3
Truck drivers and deliverymen.....	—	5 189	67	161	577	653	639	1 424	1 065	329	162	112	38.5
Other transport equipment operatives.....	—	1 625	23	72	293	193	185	340	320	108	63	28	36.4
Laborers, except farm.....	221	7 328	1 184	1 134	1 283	582	531	1 000	820	429	235	130	25.5
Construction laborers.....	4	880	45	84	221	112	107	150	100	15	35	11	29.0
Freight, stock, and material handlers.....	73	3 910	700	731	669	301	254	504	409	191	93	58	23.9
Other specified laborers.....	103	1 545	280	217	252	71	86	186	167	167	70	49	26.7
Miscellaneous and not specified laborers.....	41	993	159	102	141	98	84	160	144	56	37	12	29.8
Occupation:													
Miscellaneous laborers.....	27	435	54	26	41	37	59	81	85	34	10	8	35.1
Not specified laborers.....	14	558	105	76	100	61	25	79	59	22	27	4	24.9
Industry:													
Manufacturing.....	—	484	23	57	82	78	49	83	51	43	10	8	30.2
Durable goods.....	—	410	18	39	78	78	49	67	33	43	5	—	29.5
Wood products, including furniture.....	—	52	10	9	4	11	5	8	5	—	—	—	...
Metal industries.....	—	203	3	15	49	30	26	38	19	23	—	—	30.9
Machinery, including electrical.....	—	75	—	10	15	27	4	10	4	5	—	—	...
Transportation equipment.....	—	46	—	—	10	5	10	6	5	10	—	—	...
Other durable goods.....	—	34	5	5	—	5	4	5	—	5	—	—	...
Nondurable goods.....	—	74	5	18	4	—	—	16	18	—	5	8	...
Food and kindred products.....	—	42	5	11	4	—	—	—	14	—	—	—	...
Not specified manufacturing industries.....	—	—	—	—	—	—	—	—	—	—	—	—	...
Nonmanufacturing industries.....	41	509	136	45	59	20	35	77	93	13	27	4	28.6
Railroads and railway express service.....	—	74	—	6	13	—	4	15	26	4	6	—	...
Transportation, except railroads.....	—	14	5	—	—	—	—	5	4	—	—	—	...
Communications, and utilities and sanitary services.....	—	92	5	6	11	—	—	22	20	—	6	—	...
Wholesale and retail trade.....	8	203	85	23	17	5	4	34	22	4	5	4	19.4
All other industries.....	33	126	41	10	18	15	—	6	21	5	10	—	23.3
Farmers and farm managers.....	10	1 684	5	4	43	58	120	365	466	249	161	213	50.3
Farm laborers and farm foremen.....	212	1 132	327	217	176	60	36	87	68	39	49	73	20.6
Paid farm laborers and farm foremen.....	182	1 007	287	187	155	60	32	78	64	39	37	68	21.0
Unpaid family workers.....	30	125	40	30	21	—	4	9	4	—	12	5	19.5
Service workers, except private household ¹	426	9 516	1 575	1 090	1 308	703	623	1 127	1 193	662	625	610	30.7
Cleaning service workers.....	192	3 981	439	435	451	179	156	435	707	403	369	407	42.6
Food service workers.....	166	2 259	1 010	428	313	68	58	158	88	60	39	37	18.6
Cooks, except private household.....	28	766	335	146	107	18	37	42	31	11	16	23	18.7
Busboys and dishwashers.....	103	744	439	138	105	18	5	19	6	—	10	4	23.6
Health service workers.....	—	429	24	79	155	54	26	39	10	19	9	14	32.5
Personal service workers.....	10	786	77	51	72	105	125	145	99	41	39	32	33.5
Protective service workers.....	—	1 558	5	21	199	258	218	310	216	100	129	102	41.9
Firemen, fire protection.....	—	254	—	—	5	19	47	81	76	20	6	—	50.3
Guards and watchmen.....	—	583	—	10	80	53	46	63	75	59	114	83	32.2
Policemen and detectives.....	—	644	—	11	96	165	116	152	55	21	9	19	...
Private household workers.....	26	31	10	21	—	—	—	—	—	—	—	—	...

¹Includes allocated cases not shown separately.

Table 174. Occupation of Employed Persons by Age, Race, 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
Standard Metropolitan Statistical
Areas of 250,000 or More

GRAND RAPIDS SMSA—Continued

Total—Continued

	Persons 14 and 15 years old	Persons 16 years old and over											Median age
		Total	16 and 17 years	18 and 19 years	20 to 24 years	25 to 29 years	30 to 34 years	35 to 44 years	45 to 54 years	55 to 59 years	60 to 64 years	65 years and over	
Female employed	991	76 183	3 333	6 018	12 641	7 119	5 871	14 185	14 766	5 748	3 960	2 542	37.2
Professional, technical, and kindred workers	16	10 876	78	170	2 288	1 611	1 132	2 117	1 822	767	571	320	35.8
Accountants	—	400	—	11	60	21	31	96	111	11	44	15	43.0
Computer specialists	—	37	—	5	16	4	4	8	—	—	—	—	...
Librarians	—	252	13	17	33	19	16	44	41	36	28	5	41.4
Mathematical specialists	—	21	—	9	—	—	12	—	—	—	—	—	...
Life and physical scientists	—	45	—	—	10	11	—	3	15	2	—	—	4
Registered nurses, dietitians, and therapists	—	2 265	5	10	428	311	298	547	333	175	97	61	36.5
Dietitians	—	67	5	6	12	4	4	5	9	22	—	—	—
Registered nurses	—	2 084	—	4	380	271	294	520	314	148	92	61	36.8
Health technologists and technicians	—	403	—	18	166	46	38	47	53	13	22	—	26.9
Social scientists	—	21	—	7	6	—	—	3	—	5	—	—	—
Social and recreation workers	—	370	5	6	44	76	33	85	71	29	16	5	37.5
Teachers: College and university	4	288	—	6	45	46	57	57	45	11	21	—	34.1
Elementary and prekindergarten	12	3 537	15	—	791	632	369	644	553	244	208	81	34.5
Secondary	—	1 245	5	—	330	241	143	194	201	70	25	36	31.6
Other teachers	—	409	24	21	65	34	46	74	66	40	16	23	37.0
Engineering and science technicians	—	199	5	5	49	16	—	53	42	—	21	8	39.6
Technicians, except health, and engineering and science	—	12	6	—	—	—	—	—	6	—	—	—	...
Writers, artists, and entertainers	—	477	—	33	92	58	48	86	90	36	16	18	35.9
Actors and dancers	—	5	—	—	5	—	—	—	—	—	—	—	...
Authors, editors, and reporters	—	103	—	—	12	11	15	15	30	16	—	4	44.0
Other professional, technical, and kindred workers	—	895	—	22	153	96	37	176	195	95	57	64	42.9
Managers and administrators, except farm	—	2 030	27	42	161	84	144	454	591	209	204	114	46.7
Buyers, purchasing agents, and sales managers	—	390	5	5	67	29	26	40	124	46	44	4	46.9
Restaurant, cafeteria, and bar managers	—	182	11	—	14	12	6	59	33	21	10	16	43.1
School administrators	—	133	—	6	—	—	15	23	58	10	21	—	48.9
Other specified managers and administrators	—	362	4	12	25	10	15	69	125	35	35	32	48.7
Managers and administrators, n.e.c., salaried	—	715	7	19	55	33	62	180	176	64	69	50	45.1
Wholesale and retail trade	—	168	—	6	8	—	22	50	19	21	26	16	44.6
Managers and administrators, n.e.c., self-employed	—	248	—	—	—	—	20	83	75	33	25	12	47.8
Wholesale and retail trade	—	149	—	—	—	—	4	47	52	21	16	9	49.5
Sales workers	93	6 506	560	583	668	374	352	1 070	1 498	638	516	247	41.7
Demonstrators, hucksters, and peddlers	—	399	4	8	67	47	52	105	88	4	19	5	37.0
Insurance, real estate agents, and brokers	—	359	9	6	31	19	26	69	119	27	32	21	46.6
Sales clerks, retail trade	61	4 768	473	504	477	212	188	718	1 115	506	397	178	42.4
Salesmen, retail trade	—	172	5	—	20	8	30	19	42	28	10	10	46.0
Other sales workers	32	808	69	65	73	88	56	159	134	73	58	33	38.3
Clerical and kindred workers	135	25 165	837	2 607	5 435	2 467	1 876	4 406	4 322	1 612	1 001	602	33.3
Bank tellers	—	624	—	54	156	95	38	125	113	17	20	6	30.9
Bookkeepers	7	2 899	21	173	320	239	218	604	680	287	228	129	42.9
Cashiers	24	2 104	269	361	322	184	150	385	249	105	59	20	27.7
Counter clerks, except food	—	431	39	51	73	20	34	42	103	26	33	10	34.8
Enumerators and interviewers	8	97	—	—	11	11	11	34	16	9	—	5	...
File clerks	13	638	51	142	158	37	30	59	88	36	21	16	24.0
Office machine operators	6	921	35	88	262	163	102	126	76	45	17	7	27.3
Bookkeeping and billing machine operators	—	138	10	5	22	14	19	41	17	10	—	—	34.7
Keypunch operators	—	568	15	54	193	128	64	51	44	19	—	—	25.9
Payroll and timekeeping clerks	—	318	3	11	66	37	28	60	81	19	13	—	37.3
Receptionists	—	903	—	127	237	99	60	97	129	89	29	36	29.4
Secretaries	16	7 233	98	537	1 839	820	544	1 307	1 275	451	250	112	33.0
Stenographers	—	245	—	5	91	14	10	51	39	17	6	12	35.5
Telephone operators	4	986	43	236	238	48	49	177	109	35	36	15	24.5
Typists	11	2 169	91	304	548	212	203	336	285	109	56	25	28.3
Other clerical and kindred workers	46	5 597	187	518	1 114	488	399	1 003	1 079	367	233	209	35.9
Craftsmen and kindred workers	—	1 537	12	76	220	135	114	299	399	123	111	68	42.4
Foremen, n.e.c.	—	239	—	7	19	27	16	50	78	5	24	13	45.1
Operatives, except transport	66	12 659	151	497	1 361	1 129	1 125	2 981	3 382	1 173	587	273	41.9
Assemblers	—	2 341	6	80	258	191	229	629	662	181	82	23	41.5
Battling and canning operatives	—	34	—	—	4	6	—	14	10	—	—	—	...
Checkers, examiners, and inspectors, manufacturing	—	1 188	13	37	160	99	75	224	388	122	60	10	44.4
Dressmakers and seamstresses, except factory	—	201	5	—	27	10	5	22	34	30	39	29	54.3
Laundry and dry cleaning operatives, including ironers	7	678	37	48	49	49	64	145	159	55	42	30	41.3
Graders and sorters, manufacturing	—	39	—	—	8	4	—	11	4	8	4	—	...
Packers and wrappers, except produce	5	1 297	35	91	130	54	119	309	368	108	60	23	42.1
Sewers and stitchers	5	1 215	6	18	49	96	119	396	311	137	40	43	43.0
Textile operatives	—	149	—	5	11	24	14	41	29	16	9	—	40.0
Other specified operatives	30	3 442	30	112	394	351	297	796	917	320	137	88	41.7
Miscellaneous and not specified operatives	19	2 075	19	106	271	245	203	394	500	196	114	27	39.9
Manufacturing	13	1 783	13	79	251	217	172	348	426	161	99	17	39.6
Durable goods	13	948	8	41	125	141	97	172	261	74	25	4	38.6
Machinery, including electrical	—	266	8	21	45	38	19	33	83	5	10	4	35.6
Other durable goods	13	682	—	20	80	103	78	139	178	69	15	—	39.3
Nondurable goods, including not specified manufacturing	—	835	5	38	126	76	75	176	165	87	74	13	40.5
Food and kindred products	—	166	—	8	38	35	6	10	37	5	27	—	31.7
Apparel and other fabricated textile products	—	55	—	4	—	6	—	22	13	10	—	—	...
Nonmanufacturing industries	6	292	6	27	20	28	31	46	74	35	15	10	42.4
Transport equipment operatives	—	600	5	9	13	47	114	238	111	18	22	23	39.7
Laborers, except farm	15	1 022	56	100	166	118	116	199	186	39	25	17	33.1
Farmers and farm managers	—	79	—	—	—	—	—	28	20	9	7	13	...
Farm laborers and farm foremen	67	289	48	10	—	14	28	95	63	17	14	—	39.7
Paid farm laborers and farm foremen	56	236	42	—	—	14	28	78	47	13	14	—	39.4
Unpaid family workers	11	53	6	10	—	—	—	17	16	4	—	—	...
Service workers, except private household	278	13 751	1 309	1 750	2 242	1 092	818	2 126	2 181	971	678	584	32.9
Cleaning service workers	20	1 737	71	107	95	58	80	331	429	223	167	176	47.9
Chambermaids and maids	4	391	24	24	37	4	28	69	84	51	40	30	46.1
Food service workers	130	5 841	967	884	746	333	331	926	858	351	264	179	29.8
Cooks, except private household	—	1 153	63	91	47	44	71	242	276	134	121	64	45.7
Waiters and food counter workers	111	3 424	727	582	554	219	192	528	363	124	88	47	23.6
Health service workers	10	3 417	185	494	787	367	221	478	452	201	138	94</	

Table 174. Occupation of Employed Persons by Age, Race, 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
Standard Metropolitan Statistical
Areas of 250,000 or More

LANSING SMSA

Total

Male employed

	Persons 14 and 15 years old	Persons 16 years old and over											Median age
		Total	16 and 17 years	18 and 19 years	20 to 24 years	25 to 29 years	30 to 34 years	35 to 44 years	45 to 54 years	55 to 59 years	60 to 64 years	65 years and over	
Total	1 357	91 823	2 742	5 170	14 717	12 869	9 801	18 403	15 802	6 135	3 878	2 306	35.3
Male employed	1 357	91 823	2 742	5 170	14 717	12 869	9 801	18 403	15 802	6 135	3 878	2 306	35.3
Professional, technical, and kindred workers	5	15 862	73	376	2 533	3 300	2 155	3 357	2 425	827	498	318	33.8
Accountants	—	1 007	—	11	136	150	107	263	196	87	33	24	38.8
Architects	—	117	—	—	5	9	—	34	41	10	9	—	45.4
Computer specialists	—	571	—	47	163	160	121	70	10	—	—	—	27.4
Engineers	—	2 080	—	10	132	305	344	545	481	114	88	61	39.6
Aeronautical and astronautical	—	—	—	—	—	—	—	—	—	—	—	—	—
Civil	—	611	—	—	24	52	118	169	131	44	41	30	41.5
Electrical and electronic	—	196	—	10	22	25	17	52	61	9	—	—	39.6
Mechanical	—	377	—	—	28	48	85	96	83	15	12	10	37.9
Other engineers	—	896	—	—	56	180	124	228	206	46	35	21	38.9
Lawyers and judges	—	391	—	—	5	69	65	99	73	16	49	15	40.7
Life and physical scientists	—	418	—	11	48	111	66	106	49	17	10	—	33.0
Chemists	—	113	—	—	20	44	8	26	12	3	—	—	29.1
Physicians, dentists, and related practitioners	—	770	—	—	41	73	86	183	214	73	41	59	45.1
Dentists	—	177	—	—	—	17	40	45	56	15	—	4	42.0
Pharmacists	—	138	—	—	20	18	9	31	28	6	10	16	42.1
Physicians, medical and osteopathic	—	349	—	—	—	24	31	94	97	42	26	35	47.6
Other related practitioners	—	106	—	—	21	14	6	13	33	10	5	4	44.2
Health technologists and technicians	—	225	12	16	89	49	10	19	26	4	—	—	24.7
Religious workers	—	440	—	6	12	49	26	112	127	24	32	52	46.2
Social scientists	—	216	—	—	16	93	30	39	29	5	—	4	29.9
Social and recreation workers	—	291	—	15	60	58	53	61	23	16	5	—	31.2
Teachers	5	4 368	—	42	805	1 083	646	922	519	217	92	42	32.0
College and university	—	2 923	—	32	498	622	460	638	399	180	61	33	33.4
Elementary and prekindergarten	—	331	—	—	90	105	46	68	14	4	—	4	28.6
Secondary	5	1 060	—	5	201	351	140	210	96	27	25	5	29.6
Engineering and science technicians	—	1 416	20	86	384	232	177	225	178	78	22	14	29.7
Draftsmen and surveyors	—	889	20	22	269	127	104	154	113	50	16	14	30.3
Electrical and electronic engineering technicians	—	152	—	5	19	45	27	29	18	9	—	—	31.3
Technicians, except health, and engineering and science	—	175	—	5	25	24	31	35	45	4	—	6	35.7
Airplane pilots	—	37	—	—	—	10	11	11	5	—	—	—	—
Writers, artists, and entertainers	—	1 012	35	70	236	186	93	207	106	44	16	19	29.4
Other professional, technical, and kindred workers	—	2 365	6	57	376	649	291	437	308	118	101	22	31.6
Managers and administrators, except farm	11	8 847	20	82	635	938	1 048	2 396	2 189	683	541	315	42.1
Buyers, purchasing agents, and sales managers	—	1 090	4	18	86	108	147	326	263	56	55	27	40.6
School administrators	—	459	—	—	22	19	65	161	127	30	23	12	42.7
Specified managers and administrators, public administration	7	877	—	12	12	34	93	282	256	90	64	34	45.2
Other specified managers and administrators	4	1 596	—	5	179	257	170	386	303	141	84	71	39.8
Managers and administrators, n.e.c., salaried	—	3 846	16	47	313	456	461	960	952	259	248	134	41.6
Manufacturing	—	612	—	—	10	122	42	121	184	56	51	26	45.6
Wholesale and retail trade	—	1 407	10	32	188	148	181	330	351	60	63	44	39.4
Transportation, communications, and other public utilities	—	239	—	—	18	24	30	58	51	38	13	7	43.2
All other industries	—	1 588	6	15	97	162	208	451	366	105	121	57	41.8
Managers and administrators, n.e.c., self-employed	—	979	—	—	23	64	112	281	288	107	67	37	45.3
Construction	—	210	—	—	—	10	60	68	43	23	—	6	40.1
Manufacturing	—	53	—	—	6	6	4	—	27	—	10	—	—
Wholesale and retail trade	—	523	—	—	17	39	43	148	143	76	38	19	46.0
All other industries	—	193	—	—	—	9	5	65	75	8	19	12	47.3
Sales workers	518	6 018	279	384	827	792	559	1 178	1 052	391	274	282	36.4
Insurance agents, brokers, and underwriters	—	854	6	—	104	94	103	222	166	51	63	45	40.4
Real estate agents and brokers	—	462	—	—	11	62	59	97	91	60	30	52	45.2
Sales representatives, manufacturing industries	5	537	—	—	73	54	64	184	104	35	8	15	39.2
Sales representatives, wholesale trade	—	910	7	11	60	163	99	241	201	50	40	38	39.8
Sales clerks, retail trade	37	1 672	135	294	373	201	87	155	207	79	63	78	25.8
Salesmen, retail trade	10	718	13	37	90	61	90	154	145	74	26	28	39.4
Salesmen of services and construction	—	235	10	5	25	40	26	53	41	8	10	17	37.2
Other sales workers	466	630	108	37	91	117	31	72	97	34	34	9	28.4
Clerical and kindred workers	24	6 453	177	527	1 416	836	486	1 191	1 028	415	212	165	32.8
Bank tellers and cashiers	4	320	27	44	128	27	9	35	16	15	6	13	23.5
Bookkeepers and billing clerks	—	585	3	32	132	59	58	111	77	38	36	39	35.8
Mail handlers and postal clerks	—	683	—	27	112	52	52	157	223	37	11	12	41.3
Other clerical and kindred workers	20	4 865	147	424	1 044	698	367	888	712	325	159	101	31.6
Craftsmen and kindred workers	65	18 547	88	496	2 216	2 460	2 254	4 653	3 883	1 484	781	232	38.8
Apparel craftsmen and upholsterers	—	76	4	10	11	14	—	33	4	—	—	—	—
Bakers	—	116	4	—	14	—	21	14	40	12	11	—	46.3
Cabinetmakers	—	38	—	—	—	4	—	18	5	—	—	11	—
Construction craftsmen	5	4 319	14	135	525	552	584	1 163	847	253	198	48	38.0
Carpenters	—	1 145	14	39	201	130	175	216	241	69	51	9	35.6
Excavating, grading, and road machine operators	—	363	—	5	38	25	68	118	74	18	17	—	38.9
Electricians	—	952	—	26	108	167	117	266	195	43	25	5	37.2
Masons and tile setters	—	352	—	8	46	40	33	156	60	5	4	—	38.1
Painters, construction and maintenance, and paperhangers	5	423	—	38	49	51	43	104	50	31	42	15	37.9
Plasterers and cement finishers	—	158	—	10	3	10	18	48	33	22	9	5	42.9
Plumbers and pipe fitters	—	756	—	9	61	103	94	206	164	59	46	14	40.4
Other construction craftsmen	—	170	—	—	19	26	36	49	30	6	4	—	35.8
Foremen, n.e.c.	10	2 628	6	25	121	264	235	868	733	280	86	10	42.6
Manufacturing	5	1 622	—	10	49	195	153	487	478	216	28	6	43.3
Nonmanufacturing industries	5	1 006	6	15	72	69	82	381	255	64	58	4	41.8
Linemen and servicemen, telephone and power	—	573	—	21	147	94	80	88	122	17	4	—	31.5
Locomotive engineers and firemen	—	28	—	—	7	6	—	8	7	—	—	—	—
Mechanics and repairmen	4	790	44	189	613	719	628	1 100	865	339	212	81	36.8
Air conditioning, heating, and refrigeration	—	229	—	6	20	49	35	57	27	22	13	—	35.8
Aircraft	—	58	—	—	—	14	9	10	11	5	—	—	—
Automobile, including body	—	2 331	11	109	319	303	344	575	409	159	67	35	36.4
Radio and television	—	222	—	10	49	30	20	33	48	12	10	10	35.6
Other mechanics and repairmen	—	1 950	33	64	216	323	220	425	370	141	122	36	37.8
Metal craftsmen, except mechanics	3	873	4	36	283	435	355	670	791	330	138	31	41.3
Machinists and job and die setters	—	829	—	15	80	108	81	186	252	52	43	12	42.0
Sheetmetal workers and tinsmiths	—												

Table 174. Occupation of Employed Persons by Age, Race, 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
Standard Metropolitan Statistical
Areas of 250,000 or More

LANSING SMSA—Continued

Total—Continued

Male employed—Continued

	Persons 14 and 15 years old	Persons 16 years old and over											Median age
		Total	16 and 17 years	18 and 19 years	20 to 24 years	25 to 29 years	30 to 34 years	35 to 44 years	45 to 54 years	55 to 59 years	60 to 64 years	65 years and over	
Operatives, except transport	60	15 457	314	906	3 089	2 607	1 910	2 662	2 275	971	571	152	32.1
Assemblers.....	—	3 006	6	215	905	619	366	421	295	110	54	15	28.0
Checkers, examiners, and inspectors, manufacturing.....	—	1 558	—	27	205	218	249	332	289	165	66	7	37.4
Garage workers and gas station attendants.....	32	785	175	149	252	58	11	58	32	4	33	13	21.4
Laundry and drycleaning operatives, n.e.c.....	—	118	11	12	17	6	4	21	31	—	3	13	39.3
Meat cutters and butchers.....	—	303	10	33	36	74	61	24	35	11	12	7	29.9
Mine operatives, n.e.c.....	—	41	—	—	12	6	6	6	11	—	—	—	...
Packers and wrappers, except produce.....	—	251	10	38	41	58	24	49	23	—	4	4	28.1
Painters, manufactured articles.....	—	427	5	6	60	57	52	82	55	63	35	12	39.1
Precision machine operatives.....	—	1 183	—	29	209	153	154	197	197	149	83	12	37.4
Sawyers.....	—	63	—	4	13	—	—	20	10	16	—	—	...
Stationary firemen.....	—	124	—	—	6	11	20	48	23	16	—	—	40.2
Textile operatives.....	—	6	—	—	—	—	—	6	—	—	—	—	...
Welders and flamecutters.....	—	1 155	—	62	216	184	131	215	213	64	70	—	34.4
Other metalworking operatives.....	—	1 614	7	59	295	375	239	281	264	53	36	5	31.5
Other specified operatives.....	23	1 823	28	87	250	269	233	373	340	142	60	41	36.2
Miscellaneous and not specified operatives.....	5	3 000	62	185	572	519	360	529	457	178	115	23	32.3
Occupation:													
Machine operatives, miscellaneous specified.....	—	1 049	9	50	209	203	132	193	160	58	35	—	32.0
Machine operatives, not specified.....	—	743	—	53	118	162	121	119	80	58	26	6	31.6
Miscellaneous operatives.....	5	655	38	52	133	89	49	123	107	26	29	9	31.6
Not specified operatives.....	—	553	15	30	112	65	58	94	110	36	25	8	34.7
Industry:													
Manufacturing.....	—	2 560	19	155	473	454	337	476	413	134	84	15	32.7
Durable goods.....	—	2 291	19	114	427	422	296	434	373	130	65	11	32.8
Wood products, including furniture.....	—	68	9	15	15	—	—	4	10	10	5	—	...
Primary metal industries.....	—	208	—	5	24	54	24	38	53	5	5	—	34.4
Fabricated metal industries.....	—	122	—	9	20	14	10	30	18	4	12	5	37.7
Machinery, including electrical.....	—	370	10	29	93	55	16	99	47	15	6	—	29.8
Motor vehicles and equipment.....	—	1 305	—	45	218	251	214	227	219	92	33	6	33.2
Transportation equipment, except motor vehicles.....	—	6	—	—	—	—	—	—	6	—	—	—	...
Other durable goods.....	—	212	—	11	57	48	32	36	20	4	4	—	29.0
Nondurable goods.....	—	249	—	41	37	26	41	42	35	4	19	4	32.5
Food and kindred products.....	—	142	—	14	32	10	14	26	23	4	19	—	35.4
Apparel and other fabricated textile products.....	—	—	—	—	—	—	—	—	—	—	—	—	...
Paper and allied products.....	—	33	—	10	—	4	13	6	—	—	—	—	...
Chemicals and allied products.....	—	52	—	—	—	12	—	10	—	—	—	—	...
Other nondurable goods.....	—	22	—	17	5	—	14	—	12	—	—	4	...
Not specified manufacturing industries.....	—	20	—	—	6	—	—	—	5	—	—	—	...
Nonmanufacturing industries.....	5	440	43	30	99	65	23	53	44	44	31	8	28.7
Transportation, communications, and other public utilities.....	—	66	—	—	11	10	—	25	5	4	11	—	...
Wholesale and retail trade.....	5	189	27	8	54	22	17	3	12	28	10	8	26.3
All other industries.....	—	185	16	22	34	33	6	25	27	12	10	—	28.1
Transport equipment operatives	5	4 484	25	224	668	615	431	1 079	890	328	136	88	37.6
Bus drivers.....	—	165	—	—	39	16	16	28	24	14	28	—	39.1
Taxicab drivers and chauffeurs.....	—	229	6	23	31	29	29	45	26	11	25	4	34.4
Truck drivers and deliverymen.....	—	3 110	14	166	439	418	283	779	698	196	52	65	38.0
Other transport equipment operatives.....	5	980	5	35	159	152	103	227	142	107	31	19	36.6
Laborers, except farm	180	4 676	685	766	958	411	308	566	487	180	184	131	24.6
Construction laborers.....	11	809	27	47	231	88	91	144	115	27	24	15	30.6
Freight, stock, and material handlers.....	61	2 057	525	482	328	168	98	174	180	52	45	5	20.3
Other specified laborers.....	72	1 186	89	135	306	110	60	147	114	60	72	93	27.9
Miscellaneous and not specified laborers.....	36	624	44	102	93	45	59	101	78	41	43	18	32.4
Occupation:													
Miscellaneous laborers.....	22	222	10	40	30	13	13	42	30	18	15	11	36.2
Not specified laborers.....	14	402	34	62	63	32	46	59	48	23	28	7	31.1
Industry:													
Manufacturing.....	—	264	14	33	33	37	38	48	35	17	9	—	32.0
Durable goods.....	—	217	10	23	33	37	32	37	26	14	5	—	30.9
Wood products, including furniture.....	—	5	5	—	—	—	—	—	—	—	—	—	...
Metal industries.....	—	41	—	7	3	12	—	9	10	—	—	—	...
Machinery, including electrical.....	—	20	5	11	—	—	—	4	—	—	—	—	...
Transportation equipment.....	—	146	—	5	30	25	32	24	11	14	5	—	32.0
Other durable goods.....	—	5	—	—	—	—	—	—	5	—	—	—	...
Nondurable goods.....	—	44	4	10	—	—	6	11	9	—	4	—	...
Food and kindred products.....	—	17	—	4	—	—	—	—	9	—	4	—	...
Not specified manufacturing industries.....	—	3	—	—	—	—	—	—	—	3	—	—	...
Nonmanufacturing industries.....	36	360	30	69	60	8	21	53	43	24	34	18	33.1
Railroads and railway express service.....	—	31	—	5	6	—	—	16	—	4	—	—	...
Transportation, except railroads.....	—	22	5	—	—	—	—	—	13	—	4	—	...
Communications, and utilities and sanitary services.....	—	32	—	6	—	4	4	11	4	—	3	—	...
Wholesale and retail trade.....	10	114	9	28	23	—	17	4	4	5	17	7	24.3
All other industries.....	26	161	16	30	31	4	—	22	22	15	10	11	29.4
Farmers and farm managers	—	2 188	15	49	193	133	133	343	472	309	292	249	49.8
Farm laborers and farm foremen	143	786	166	174	141	54	44	43	74	36	38	16	21.9
Paid farm laborers and farm foremen.....	86	648	124	118	118	46	38	43	71	36	38	16	23.5
Unpaid family workers.....	57	138	42	56	23	8	6	—	3	—	—	—	19.0
Service workers, except private household¹	326	8 469	885	1 186	2 030	723	473	930	1 027	511	351	353	25.9
Cleaning service workers.....	107	3 395	233	483	760	141	120	371	555	293	235	204	33.4
Food service workers.....	155	2 360	599	553	724	127	64	74	97	45	20	57	20.2
Cooks, except private household.....	43	912	285	215	225	62	14	19	27	31	20	14	19.6
Busboys and dishwashers.....	79	823	213	232	298	16	5	27	7	4	—	21	19.7
Health service workers.....	—	160	—	40	77	—	15	13	—	4	5	6	22.6
Personal service workers.....	8	627	32	43	176	53	67	75	97	23	33	28	30.7
Protective service workers.....	—	1 519	—	17	175	352	192	332	215	130	52	54	35.7
Firemen, fire protection.....	—	342	—	7	15	92	54	124	31	14	5	—	35.2
Guards and watchmen.....	—	455	—	—	62	70	14	64	83	89	47	26	47.1
Policemen and detectives.....	—	643	—	5	78	170	119	138	101	27	—	5	32.9
Private household workers	20	36	15	—	11	—	—	5	—	—	—	5	...

¹Includes allocated cases not shown separately.

Table 174. Occupation of Employed Persons by Age, Race, 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
Standard Metropolitan Statistical
Areas of 250,000 or More

LANSING SMSA—Continued

Total—Continued

	Persons 14 and 15 years old	Persons 16 years old and over											Median age
		Total	16 and 17 years	18 and 19 years	20 to 24 years	25 to 29 years	30 to 34 years	35 to 44 years	45 to 54 years	55 to 59 years	60 to 64 years	65 years and over	
Female employed	674	57 608	2 002	4 975	12 553	6 147	4 647	10 173	9 565	3 875	2 370	1 301	33.4
Professional, technical, and kindred workers	35	9 969	43	279	2 385	1 851	1 011	1 677	1 333	696	499	195	32.1
Accountants.....	—	407	—	8	55	42	37	80	88	51	22	24	42.7
Computer specialists.....	—	125	—	14	44	27	19	17	—	4	—	—	25.8
Librarians.....	—	397	—	37	53	53	25	44	70	47	48	20	41.9
Mathematical specialists.....	—	19	—	—	15	—	—	—	4	—	—	—	...
Life and physical scientists.....	—	121	—	—	48	14	21	24	3	11	—	—	29.5
Registered nurses, dietitians, and therapists.....	—	1 485	—	—	300	241	183	340	279	73	38	31	35.5
Dietitians.....	—	37	—	—	5	—	5	9	4	—	—	—	...
Registered nurses.....	—	1 357	—	—	272	216	170	315	261	63	38	22	35.7
Health technologists and technicians.....	—	415	6	12	134	107	20	62	35	29	5	5	27.6
Social scientists.....	—	47	—	—	17	10	4	3	—	9	4	—	...
Social and recreation workers.....	—	314	5	—	110	54	31	19	60	9	26	—	28.9
Teachers: College and university.....	—	934	—	70	263	191	142	153	62	31	11	11	28.5
Elementary and prekindergarten.....	5	2 422	—	9	510	487	198	457	294	207	213	47	35.2
Secondary.....	15	1 035	—	—	264	250	97	152	170	64	33	5	30.2
Other teachers.....	11	203	13	20	13	42	27	42	27	5	4	10	32.5
Engineering and science technicians.....	—	217	—	48	75	34	—	29	19	9	3	—	24.0
Technicians, except health, and engineering and science.....	—	33	—	7	5	9	—	3	—	—	—	—	...
Writers, artists, and entertainers.....	4	471	13	30	147	63	32	73	55	39	4	15	28.6
Actors and dancers.....	—	5	—	—	5	—	—	—	—	—	—	—	...
Authors, editors, and reporters.....	—	185	4	16	83	9	13	30	15	15	—	—	24.4
Other professional, technical, and kindred workers.....	—	1 324	6	24	332	227	169	179	164	108	88	27	32.2
Managers and administrators, except farm	—	1 640	4	35	200	126	154	417	401	188	99	36	42.5
Buyers, purchasing agents, and sales managers.....	—	186	—	18	26	10	10	45	68	5	4	—	41.4
Restaurant, cafeteria, and bar managers.....	—	155	—	—	4	14	9	40	57	20	11	—	46.8
School administrators.....	—	122	—	5	16	7	12	28	27	16	11	—	42.5
Other specified managers and administrators.....	—	457	—	4	78	34	50	103	84	42	46	16	41.1
Managers and administrators, n.e.c., salaried.....	—	609	4	8	76	56	61	175	120	82	12	15	40.7
Wholesale and retail trade.....	—	179	4	—	33	10	15	52	30	25	—	10	40.3
Managers and administrators, n.e.c., self-employed.....	—	131	—	—	—	5	12	26	45	23	15	5	50.0
Wholesale and retail trade.....	—	84	—	—	—	5	5	22	22	20	10	—	...
Sales workers	47	4 560	334	537	798	243	235	846	799	366	243	159	36.6
Demonstrators, hucksters, and peddlers.....	—	284	14	5	15	20	26	80	102	7	15	—	42.8
Insurance, real estate agents, and brokers.....	—	280	—	—	46	15	36	47	77	44	10	5	44.1
Sales clerks, retail trade.....	47	3 219	295	461	573	146	121	572	477	260	178	136	35.2
Salesmen, retail trade.....	—	109	6	11	26	—	11	20	20	10	—	5	35.3
Other sales workers.....	—	668	19	60	138	62	41	127	123	45	40	13	36.1
Clerical and kindred workers	110	23 421	664	2 329	5 965	2 426	1 851	3 853	3 916	1 242	824	351	30.9
Bank tellers.....	—	440	—	47	188	46	31	61	52	6	9	—	24.6
Bookkeepers.....	—	2 475	31	156	361	217	178	477	666	201	125	63	41.2
Cashiers.....	8	1 520	116	204	434	111	140	237	188	30	60	—	25.3
Counter clerks, except food.....	24	315	22	19	63	40	24	35	60	22	15	15	32.8
Enumerators and interviewers.....	—	37	—	—	6	10	4	7	5	—	—	—	...
File clerks.....	9	848	52	111	281	87	28	110	92	56	21	10	24.6
Office machine operators.....	4	1 059	21	113	295	166	67	222	122	43	10	—	28.0
Bookkeeping and billing machine operators.....	—	131	4	6	20	26	9	41	20	5	—	—	35.1
Keypunch operators.....	4	655	9	72	219	93	44	120	70	22	6	—	26.5
Payroll and timekeeping clerks.....	—	225	—	11	26	16	37	34	55	21	25	—	41.6
Receptionists.....	6	837	32	88	322	59	57	132	96	15	31	5	24.6
Secretaries.....	—	6 580	84	476	1 670	885	553	1 144	1 120	361	209	78	31.6
Stenographers.....	—	440	19	26	177	31	47	16	77	20	17	10	24.9
Telephone operators.....	—	629	24	99	139	58	35	127	79	19	20	29	29.5
Typists.....	7	2 592	76	368	751	241	194	328	377	119	106	32	27.1
Other clerical and kindred workers.....	52	5 424	187	611	1 252	459	456	923	927	329	171	109	32.2
Craftsmen and kindred workers	6	846	19	9	126	45	67	189	209	86	62	34	43.3
Foremen, n.e.c.....	—	155	—	—	18	4	5	33	56	16	14	9	48.1
Operatives, except transport	14	4 541	51	189	626	530	488	1 095	962	375	144	81	38.5
Assemblers.....	—	957	5	22	165	157	143	241	144	66	14	—	34.5
Bottling and canning operatives.....	—	10	—	—	—	—	—	5	5	—	—	—	...
Checkers, examiners, and inspectors, manufacturing.....	—	645	—	5	127	60	92	179	130	42	5	5	37.2
Dressmakers and seamstresses, except factory.....	—	159	—	4	23	6	8	24	36	30	15	13	49.0
Laundry and dry cleaning operatives, including ironers.....	—	438	21	11	23	36	31	117	98	50	36	15	43.3
Graders and sorters, manufacturing.....	—	24	—	—	5	—	—	5	6	—	—	8	...
Packers and wrappers, except produce.....	—	282	—	16	63	19	30	62	65	19	4	4	37.1
Sewers and stitchers.....	—	106	—	5	6	—	—	28	41	17	4	5	48.4
Textile operatives.....	—	4	—	—	—	—	—	—	—	—	—	—	...
Other specified operatives.....	9	1 165	18	62	133	160	131	228	298	81	48	6	38.4
Miscellaneous and not specified operatives.....	5	751	7	64	81	92	53	206	139	70	18	21	38.8
Manufacturing.....	—	578	—	31	49	83	48	168	115	58	9	17	39.6
Durable goods.....	—	432	—	21	40	78	29	137	75	48	4	—	38.5
Machinery, including electrical.....	—	86	—	6	14	12	14	28	8	—	4	—	...
Other durable goods.....	—	346	—	15	26	66	15	109	67	48	—	—	39.7
Nondurable goods, including not specified manufacturing.....	—	146	—	10	9	5	19	31	40	10	5	17	44.7
Food and kindred products.....	—	18	—	—	—	—	—	7	11	—	—	—	...
Apparel and other fabricated textile products.....	—	5	—	—	—	—	—	—	—	—	—	—	...
Nonmanufacturing industries.....	5	173	7	33	32	9	5	38	24	12	9	4	35.1
Transport equipment operatives	—	472	6	—	28	60	62	208	85	14	9	—	36.8
Laborers, except farm	19	331	23	27	66	46	29	76	32	21	11	—	30.6
Farmers and farm managers	12	111	—	12	5	—	5	19	37	14	4	15	48.9
Farm laborers and farm foremen	14	119	—	5	10	—	14	43	37	—	—	10	42.1
Paid farm laborers and farm foremen.....	7	74	—	5	10	—	5	24	25	—	—	5	...
Unpaid family workers.....	7	45	—	—	—	—	9	19	12	—	—	5	...
Service workers, except private household	208	10 368	634	1 507	2 233	755	628	1 667	1 586	760	390	208	30.4
Cleaning service workers.....	5	1 032	18	60	88	78	46	249	223	133	75	62	44.1
Chambermaids and maids.....	—	219	8	33	38	14	19	44	43	15	5	—	34.3
Food service workers.....	115	5 019	476	1 024	1 090	290	276	743	578	299	173	70	24.6
Cooks, except private household.....	10	1 027	47	104	118	48	62	217	221	114	72	24	41.2
Waiters and food counter workers.....	83	2 489	362	439	652	199	168	376	167	61	39	26	23.4
Health service workers.....	—	1 961	57	1									

Table 174. Occupation of Employed Persons by Age, Race, 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
Standard Metropolitan Statistical
Areas of 250,000 or More**

TOLEDO, OHIO-MICH., SMSA

	Persons 14 and 15 years old	Persons 16 years old and over											Median age
		Total	16 and 17 years	18 and 19 years	20 to 24 years	25 to 29 years	30 to 34 years	35 to 44 years	45 to 54 years	55 to 59 years	60 to 64 years	65 years and over	
Total	1 735	169 497	4 706	7 557	20 439	19 401	17 006	35 231	35 001	14 238	9 862	6 056	39.4
Male employed													
Professional, technical, and kindred workers	32	21 207	67	341	3 313	3 568	2 669	4 599	3 734	1 269	881	836	36.4
Accountants		1 862		12	162	363	231	351	420	129	116	78	39.6
Architects		83			6			12	22	11		10	30.9
Computer specialists		455		5	75	127	109	105	28	6			40.6
Engineers		4 083		11	335	660	478	988	994	283	199	135	38.6
Aeronautical and astronautical		15						5					37.3
Civil		531			43	82	82	161	88	23	20	32	41.9
Electrical and electronic		539		6	45	109	83	115	125	32	24	28	41.6
Mechanical		792			51	105	116	180	194	74	42	28	41.6
Other engineers		2 206		5	196	359	197	527	580	154	113	75	48.1
Lawyers and judges		794			3	77	61	205	164	78	64	142	34.9
Life and physical scientists		430			41	93	83	61	95	44		13	38.4
Chemists		333			32	62	56	49	85	40		9	43.6
Physicians, dentists, and related practitioners		1 502			117	113	168	412	360	94	120	118	43.0
Dentists		248				19	38	84	78	5	5	19	39.2
Pharmacists		429			101	30	45	91	68	22	59	13	45.8
Physicians, medical and osteopathic		711			11	58	75	197	179	59	46	86	44.0
Other related practitioners		114			5	6	10	40	35	8	10		28.3
Health technologists and technicians		242	6	10	76	44	26	27	38	5	5	5	43.8
Religious workers		673			14	43	102	202	101	88	40	83	35.2
Social scientists		323			38	41	81	77	55	21	10		30.2
Social and recreation workers	11	357	7	8	99	63	44	37	56	35	8		30.8
Teachers	10	4 235	5	11	1 027	981	569	846	467	146	118	65	34.2
College and university		1 456		5	204	334	218	414	175	54	33	19	28.1
Elementary and prekindergarten		534			169	156	65	60	58	10	6	10	29.6
Secondary	5	2 085			614	470	272	352	199	71	74	33	31.0
Engineering and science technicians		2 329	15	81	577	447	234	463	318	106	60	28	28.5
Draftsmen and surveyors		1 253	15	60	372	259	82	240	154	28	30	13	33.2
Electrical and electronic engineering technicians		233		10	39	28	62	65	16	9	4		37.9
Technicians, except health, and engineering and science		250		11	33	45	19	56	12	11	5		34.9
Airplane pilots		73				27	6	25	15				47.1
Writers, artists, and entertainers	11	1 385	28	114	243	201	166	227	213	85	34	74	46.0
Other professional, technical, and kindred workers		2 204	6	78	467	270	286	448	351	126	92	80	47.3
Managers and administrators, except farm	6	16 580	33	97	891	1 539	1 861	4 440	4 179	1 574	1 262	704	41.5
Buyers, purchasing agents, and sales managers		2 389		12	142	306	320	634	536	225	159	55	39.6
School administrators		444		6	6	39	85	186	81	24	9	8	49.0
Specified managers and administrators, public administration		761			22	35	49	182	229	98	89	57	42.7
Other specified managers and administrators	6	2 979	4	22	263	350	330	675	739	243	219	134	43.8
Managers and administrators, n.e.c., salaried		8 227	19	53	409	680	914	2 327	2 126	776	622	301	45.3
Manufacturing		2 657	9	8	57	153	303	775	757	276	257	62	41.6
Wholesale and retail trade		2 646	10	27	200	303	348	660	549	221	176	152	45.5
Transportation, communications, and other public utilities		785		5	36	68	63	210	210	111	67	15	49.3
All other industries		2 139		13	116	156	200	682	610	168	122	72	47.1
Managers and administrators, n.e.c., self-employed	1	780	10	4	49	129	163	436	468	208	164	149	46.0
Construction		339			4	26	39	103	96	38	14	19	47.3
Manufacturing		167	5		11			58	44	13	16	15	49.3
Wholesale and retail trade		903	5	4	34	70	89	197	225	99	94	86	39.7
All other industries		371				33	30	78	103	58	40	29	41.0
Sales workers	694	10 479	536	467	1 038	1 208	1 031	2 024	2 129	821	591	634	39.7
Insurance agents, brokers, and underwriters	4	1 204			85	223	108	297	293	67	72	59	41.3
Real estate agents and brokers		514			14	9	54	74	131	56	52	124	38.3
Sales representatives, manufacturing industries	5	1 394	7	8	88	153	207	389	324	112	45	61	42.6
Sales representatives, wholesale trade		1 954		18	132	304	198	430	482	166	108	116	30.0
Sales clerks, retail trade	15	2 378	278	345	401	166	142	258	294	189	159	146	41.7
Salesmen, retail trade	4	1 449	34	41	130	133	179	311	356	101	75	89	40.9
Salesmen of services and construction		560	5	24	57	73	55	112	117	68	35	14	29.7
Other sales workers	666	1 026	212	31	131	147	88	153	132	62	45	25	39.9
Clerical and kindred workers	48	12 082	297	665	1 754	1 375	939	2 061	2 621	1 097	760	513	39.9
Bank tellers and cashiers		451	63	76	79	28	24	4	66	31	23	57	38.3
Bookkeepers and billing clerks		1 149	10	59	192	159	99	169	202	97	87	75	45.6
Mail handlers and postal clerks	7	1 567	16	70	127	108	78	351	571	132	88	26	39.0
Other clerical and kindred workers	41	8 915	208	460	1 356	1 080	738	1 537	1 782	837	562	355	41.0
Craftsmen and kindred workers	34	39 889	339	1 185	3 960	4 424	4 281	9 526	9 191	3 594	2 356	1 033	41.0
Apparel craftsmen and upholsterers	4	347		20	55	28	40	63	25	25	31	60	46.9
Bakers		161	5	3	5	15	12	37	18	56	10		38.0
Cabinetmakers		148			25	15	26	10	16	16	22	13	41.0
Construction craftsmen	10	8 532	52	183	762	873	1 117	2 145	1 952	764	471	213	41.8
Carpenters	5	2 185	4	32	169	228	235	626	546	195	88	62	40.7
Excavating, grading, and road machine operators		608		5	29	95	77	171	164	20	41	6	41.6
Electricians		1 844	6	50	204	165	178	482	419	171	126	43	42.3
Masons and tile setters		530		17	68	37	103	163	102	22	14	4	40.6
Painters, construction and maintenance, and paperhangers		888	26	54	62	60	148	169	186	101	61	21	41.3
Plasterers and cement finishers		253			15	4	53	75	84	19		3	41.3
Plumbers and pipe fitters	5	1 584	16	25	151	177	223	316	347	187	96	46	38.4
Other construction craftsmen		640			64	107	100	143	104	49	45	28	44.0
Foremen, n.e.c.	6	4 480	5	37	240	672	695	1 766	1 791	678	490	106	43.9
Manufacturing		4 433		21	147	477	491	1 214	1 218	457	350	58	44.2
Nonmanufacturing industries	6	2 047	5	16	93	195	204	552	573	221	140	48	31.2
Linemen and servicemen, telephone and power		1 094		84	285	153	103	302	125	20	14	8	43.8
Locomotive engineers and firemen		941		37	75	69	83	235	239	62	95	46	39.7
Mechanics and repairmen	4	8 403	184	370	877	1 005	834	1 986	1 859	679	470	139	41.7
Air conditioning, heating, and refrigeration		262		11	26	20	25	73	68	14	21	4	37.4
Aircraft		115				33	6	42	28	6			38.1
Automobile, including body		3 315	97	240	428	391	313	784	635	216	147	64	41.4
Radio and television		393	19	18	32	73	32	72	118	24	5		40.4
Other mechanics and repairmen	4	4 318	68	101	391	488	458	1 015	1 010	419	297	71	42.3
Metal craftsmen, except mechanics	7	4 500	17	240	877	903	790	1 655	1 808	677	337	146	38.3
Machinists and job and die setters		2 447		65	235	252	252	572	677	234	118	42	34.1
Sheetmetal workers and tinsmiths		619		25	90	67	83	133	127	62	26	6	37.1
Tool and die makers		2 292</											

Table 174. Occupation of Employed Persons by Age, Race, 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
Standard Metropolitan Statistical
Areas of 250,000 or More

TOLEDO, OHIO-MICH., SMSA—Continued

Total—Continued

Male employed—Continued

	Persons 14 and 15 years old	Persons 16 years old and over											Median age
		Total	16 and 17 years	18 and 19 years	20 to 24 years	25 to 29 years	30 to 34 years	35 to 44 years	45 to 54 years	55 to 59 years	60 to 64 years	65 years and over	
Operatives, except transport	98	32 433	658	1 865	4 763	4 005	3 302	6 472	6 197	2 880	1 748	543	37.5
Assemblers.....	—	2 949	21	141	485	491	300	530	581	231	141	28	35.7
Checkers, examiners, and inspectors; manufacturing.....	—	3 027	—	78	416	390	284	640	610	358	187	64	40.4
Garage workers and gas station attendants.....	43	1 548	428	458	227	77	47	62	103	65	36	45	19.5
Laundry and drycleaning operatives, n.e.c.....	4	137	14	11	21	19	—	12	31	9	16	4	37.9
Meat cutters and butchers.....	—	561	6	24	38	19	65	91	86	54	83	65	45.9
Mine operatives, n.e.c.....	—	65	6	—	10	9	—	17	8	—	—	6	...
Packers and wrappers, except produce.....	—	881	29	94	117	82	4	165	79	21	68	—	38.5
Painters, manufactured articles.....	—	542	9	38	80	46	60	98	143	71	34	7	38.3
Precision machine operatives.....	—	2 413	4	129	348	383	329	383	487	212	98	40	35.4
Sawyers.....	—	210	5	5	32	12	—	29	59	15	14	19	45.3
Stationary firemen.....	—	638	4	—	57	86	66	142	138	80	55	10	42.5
Textile operatives.....	—	196	—	9	9	24	16	27	57	34	20	—	47.3
Welders and flamecutters.....	—	2 449	14	92	295	359	330	577	479	180	85	38	37.3
Other metalworking operatives.....	—	2 980	8	127	403	374	335	645	623	273	171	21	38.8
Other specified operatives.....	33	4 756	41	262	723	480	443	1 141	884	373	304	105	38.8
Miscellaneous and not specified operatives.....	18	9 081	69	397	1 502	1 124	937	1 913	1 721	891	436	91	37.7
Occupation:													
Machine operatives, miscellaneous specified.....	—	3 578	10	117	527	441	371	832	722	364	164	30	38.9
Machine operatives, not specified.....	—	2 722	11	108	556	372	304	482	496	236	123	34	35.2
Miscellaneous operatives.....	12	1 368	44	102	252	145	130	259	235	126	63	12	35.4
Not specified operatives.....	6	1 413	4	70	167	166	132	340	268	165	86	15	39.9
Industry:													
Manufacturing.....	6	8 288	40	309	1 374	1 041	870	1 796	1 583	799	406	70	37.8
Durable goods.....	6	6 363	21	235	1 043	884	757	1 356	1 168	596	272	31	36.8
Wood products, including furniture.....	—	161	—	26	33	16	17	23	25	10	11	—	31.6
Primary metal industries.....	—	754	8	—	87	119	66	139	212	52	49	—	40.4
Fabricated metal industries.....	6	628	—	24	57	117	104	151	137	—	29	—	35.8
Machinery, including electrical.....	—	927	9	35	146	100	83	159	209	131	37	20	40.8
Motor vehicles and equipment.....	—	2 332	—	69	527	370	324	392	368	192	90	—	33.1
Transportation equipment, except motor vehicles.....	—	1 116	4	5	39	24	13	19	—	6	—	6	27.1
Other durable goods.....	—	1 445	—	56	154	138	150	473	217	196	56	5	39.7
Nondurable goods.....	—	1 897	19	69	326	157	113	431	411	198	134	39	41.1
Food and kindred products.....	—	315	10	10	50	21	35	87	39	29	34	—	38.6
Apparel and other fabricated textile products.....	—	5	—	—	—	—	—	—	—	—	—	—	...
Paper and allied products.....	—	573	5	15	71	23	19	120	151	82	75	12	47.2
Chemicals and allied products.....	—	347	—	14	45	41	25	117	58	42	5	—	39.1
Other nondurable goods.....	—	657	4	30	155	72	34	107	163	45	20	27	38.1
Not specified manufacturing industries.....	—	28	—	5	5	—	—	9	4	—	—	—	...
Nonmanufacturing industries.....	12	793	29	88	128	83	67	117	138	92	30	21	35.1
Transportation, communications, and other public utilities.....	—	254	—	18	34	35	12	61	45	29	11	9	39.6
Wholesale and retail trade.....	12	335	17	49	68	10	38	38	59	33	16	7	33.1
All other industries.....	—	204	12	21	26	38	17	18	34	30	3	5	31.5
Transport equipment operatives	41	10 367	87	413	1 175	1 033	1 079	2 400	2 541	916	524	199	40.8
Bus drivers.....	—	213	4	—	26	21	4	43	50	35	20	10	46.7
Taxicab drivers and chauffeurs.....	—	304	—	8	37	21	11	29	98	53	34	13	49.7
Truck drivers and deliverymen.....	32	6 847	73	300	642	711	692	1 644	1 743	606	306	130	41.1
Other transport equipment operatives.....	9	3 003	10	105	470	280	372	684	650	222	164	46	38.9
Laborers, except farm	215	11 661	1 231	1 396	2 016	1 061	898	1 806	1 749	731	500	273	30.7
Construction laborers.....	6	1 540	34	143	282	119	161	302	313	93	55	38	36.0
Freight, stock, and material handlers.....	86	5 697	782	759	1 053	531	406	825	756	309	197	79	27.4
Other specified laborers.....	71	2 428	310	295	318	229	191	338	339	150	145	113	31.6
Miscellaneous and not specified laborers.....	52	1 996	105	199	363	182	140	341	341	179	103	43	35.3
Occupation:													
Miscellaneous laborers.....	4	598	9	28	78	62	40	124	116	79	50	12	41.6
Not specified laborers.....	48	1 398	96	171	285	120	100	217	225	100	53	31	31.4
Industry:													
Manufacturing.....	10	1 030	10	101	228	151	78	230	112	77	43	—	31.6
Durable goods.....	—	798	5	78	170	110	53	186	91	72	33	—	33.4
Wood products, including furniture.....	—	33	5	4	5	—	—	9	—	—	5	—	...
Metal industries.....	—	289	—	13	52	50	13	80	36	39	6	—	37.1
Machinery, including electrical.....	—	91	—	5	26	9	9	9	19	10	4	—	...
Transportation equipment.....	—	188	—	27	35	36	11	48	18	5	8	—	29.4
Other durable goods.....	—	197	—	28	53	10	20	40	18	18	10	—	31.9
Nondurable goods.....	10	216	5	23	58	36	19	44	16	5	10	—	28.1
Food and kindred products.....	6	47	—	8	13	9	8	4	—	—	5	—	...
Not specified manufacturing industries.....	—	16	—	—	—	5	6	—	5	—	—	—	...
Nonmanufacturing industries.....	42	966	95	98	135	31	62	111	229	102	60	43	40.6
Railroads and railway express service.....	—	196	—	11	24	15	17	21	69	10	29	—	46.4
Transportation, except railroads.....	4	92	11	7	13	—	—	27	15	14	5	—	...
Communications, and utilities and sanitary services.....	—	103	—	17	13	—	—	21	15	17	8	12	45.3
Wholesale and retail trade.....	19	261	60	42	9	11	24	24	42	22	14	13	31.8
All other industries.....	19	314	24	21	76	5	21	18	88	39	4	18	40.6
Farmers and farm managers	—	1 936	5	23	74	107	152	331	477	266	215	286	50.8
Farm laborers and farm foremen	97	762	195	118	87	23	48	34	94	60	41	62	23.9
Paid farm laborers and farm foremen.....	65	700	189	99	71	23	44	34	85	60	41	54	24.4
Unpaid family workers.....	32	62	6	19	16	—	4	—	9	—	—	8	...
Service workers, except private household	466	12 042	1 245	981	1 363	1 058	746	1 604	2 083	1 025	984	953	38.9
Cleaning service workers.....	221	4 601	319	384	414	284	185	507	896	621	547	444	47.3
Food service workers.....	128	2 380	764	355	400	106	53	135	241	120	71	135	20.9
Cooks, except private household.....	26	727	226	105	98	40	22	51	78	48	26	33	21.7
Busboys and dishwashers.....	84	542	308	114	75	13	—	—	5	5	14	8	17.8
Health service workers.....	5	361	22	96	105	15	26	27	24	27	13	6	23.0
Personal service workers.....	42	1 196	71	65	108	104	111	221	221	54	105	136	41.3
Protective service workers.....	—	2 753	—	9	227	494	319	587	561	155	215	186	40.6
Firemen, fire protection.....	—	474	—	—	6	88	88	160	106	11	15	—	38.4
Guards and watchmen.....	—	1 031	—	9	59	65	47	86	293	112	183	177	53.5
Policemen and detectives.....	—	1 132	—	—	153	320	180	307	140	15	17	—	32.6
Private household workers	4	59	13	6	5	—	—	4	6	5	—	20	...

Includes allocated cases not shown separately.

Table 174. Occupation of Employed Persons by Age, Race, 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
Standard Metropolitan Statistical
Areas of 250,000 or More

TOLEDO, OHIO-MICH., SMSA—Continued

Total—Continued

	Persons 14 and 15 years old	Persons 16 years old and over											Median age
		Total	16 and 17 years	18 and 19 years	20 to 24 years	25 to 29 years	30 to 34 years	35 to 44 years	45 to 54 years	55 to 59 years	60 to 64 years	65 years and over	
Female employed	667	96 186	2 981	6 803	15 981	8 362	7 237	18 006	19 888	7 885	5 405	3 638	38.7
Professional, technical, and kindred workers	20	14 839	92	251	3 160	2 208	1 378	2 924	2 396	1 070	755	605	36.1
Accountants	—	459	6	10	56	45	12	120	120	41	27	22	43.4
Computer specialists	—	74	—	—	30	—	11	15	18	—	—	—	—
Librarians	6	347	6	27	73	32	19	27	63	29	50	21	41.1
Mathematical specialists	—	9	—	—	—	—	—	—	5	—	—	4	—
Life and physical scientists	—	32	—	—	5	5	—	13	9	—	—	—	—
Registered nurses, dietitians, and therapists	6	3 318	23	38	586	522	332	741	583	273	140	80	37.1
Dietitians	—	156	17	10	24	11	10	27	33	13	5	6	37.2
Registered nurses	6	2 952	6	28	461	473	297	703	531	251	128	74	38.0
Health technologists and technicians	3	686	4	45	263	137	67	56	65	32	12	5	26.1
Social scientists	—	31	—	—	9	5	—	8	4	—	—	—	—
Social and recreation workers	—	458	—	8	112	63	50	81	51	38	20	35	34.6
Teachers: College and university	—	483	—	5	106	123	50	76	57	34	11	21	30.8
Elementary and prekindergarten	—	4 304	5	15	920	606	378	956	661	376	217	170	37.4
Secondary	—	1 650	5	10	432	335	160	253	268	59	91	37	31.3
Other teachers	—	443	21	4	63	36	43	91	63	40	33	49	41.0
Engineering and science technicians	—	146	—	10	49	28	17	23	6	13	—	—	27.5
Technicians, except health, and engineering and science	—	55	—	—	5	5	14	20	—	5	6	—	—
Writers, artists, and entertainers	5	729	16	24	136	91	86	111	119	34	66	46	36.0
Actors and dancers	—	30	—	—	30	—	—	—	—	—	—	—	—
Authors, editors, and reporters	—	99	—	5	17	15	—	25	11	5	12	9	—
Other professional, technical, and kindred workers	—	1 615	6	55	315	175	139	333	304	96	77	115	38.5
Managers and administrators, except farm	—	3 196	10	44	255	170	181	686	1 017	423	195	215	47.5
Buyers, purchasing agents, and sales managers	—	601	—	—	92	34	45	115	188	91	23	13	45.8
Restaurant, cafeteria, and bar managers	—	431	—	10	21	19	17	93	146	80	24	21	48.8
School administrators	—	214	—	—	6	5	17	50	58	29	20	29	50.0
Other specified managers and administrators	—	588	6	—	43	30	22	131	184	72	43	57	48.4
Managers and administrators, n.e.c., salaried	—	1 082	4	34	93	72	61	237	333	133	60	55	46.2
Wholesale and retail trade	—	379	—	19	32	17	24	70	124	50	13	28	47.2
Managers and administrators, n.e.c., self-employed	—	280	—	—	—	10	19	60	108	18	25	40	49.7
Wholesale and retail trade	—	140	—	—	—	6	15	39	42	15	9	14	47.4
Sales workers	59	7 965	458	823	985	453	497	1 341	1 756	735	590	327	40.7
Demonstrators, hucksters, and peddlers	—	503	—	13	52	95	59	116	112	34	17	5	37.8
Insurance, real estate agents, and brokers	5	504	6	8	49	32	31	121	131	68	29	29	45.4
Sales clerks, retail trade	19	5 650	387	660	742	215	333	924	1 250	502	440	197	40.3
Salesmen, retail trade	—	191	—	18	3	16	23	36	26	29	19	21	44.9
Other sales workers	35	1 117	65	124	139	95	51	144	237	102	85	75	40.9
Clerical and kindred workers	118	33 189	886	3 288	6 758	2 874	2 457	6 046	6 214	2 175	1 637	854	35.5
Bank tellers	—	739	6	67	204	73	78	157	90	59	5	—	31.3
Bookkeepers	17	3 964	39	163	540	309	355	750	946	377	316	169	42.7
Cashiers	5	2 889	194	417	466	239	181	567	568	141	86	30	33.5
Counter clerks, except food	—	594	27	75	63	40	30	125	91	66	50	27	40.0
Enumerators and interviewers	—	98	—	—	29	13	11	21	12	12	—	—	—
File clerks	12	813	60	120	198	57	39	97	133	37	48	24	27.5
Office machine operators	—	1 296	19	141	328	170	122	261	122	64	45	24	29.7
Bookkeeping and billing machine operators	—	252	6	34	70	42	4	44	15	10	12	15	26.9
Keypunch operators	—	652	—	63	206	92	80	128	49	17	12	5	28.1
Payroll and timekeeping clerks	—	431	—	14	69	25	25	109	154	19	5	11	42.6
Receptionists	—	1 074	66	142	241	56	47	163	161	63	81	54	33.4
Secretaries	5	9 025	87	769	1 998	902	771	1 670	1 724	499	415	190	34.9
Stenographers	—	339	—	24	82	47	21	42	76	23	19	5	33.9
Telephone operators	—	1 313	32	252	291	93	80	201	195	63	82	24	29.4
Typists	8	3 144	144	481	621	307	180	587	463	211	67	83	30.5
Other clerical and kindred workers	71	7 470	212	623	1 628	543	517	1 296	1 479	541	418	213	36.6
Craftsmen and kindred workers	4	1 588	26	47	185	106	152	310	373	132	123	134	44.0
Foremen, n.e.c.	—	291	—	19	7	9	11	75	96	29	31	14	47.6
Operatives, except transport	29	10 606	61	324	983	868	784	2 387	2 995	1 190	658	356	44.6
Assemblers	—	1 795	6	46	223	132	165	465	490	164	89	15	42.0
Bottling and canning operatives	—	51	—	—	4	5	5	10	21	—	6	—	—
Checkers, examiners, and inspectors, manufacturing	—	1 281	8	15	115	67	120	249	340	212	136	19	47.0
Dressmakers and seamstresses, except factory	—	221	—	4	19	14	5	33	52	30	36	28	51.8
Laundry and dry cleaning operatives, including ironers	—	888	7	49	76	55	32	189	293	97	49	41	46.2
Graders and sorters, manufacturing	—	43	—	—	—	7	7	5	11	—	13	—	—
Packers and wrappers, except produce	7	1 275	14	79	82	83	63	280	493	113	54	14	45.7
Sewers and stitchers	—	638	—	15	46	47	32	136	161	64	87	50	47.7
Textile operatives	—	21	—	—	6	5	—	6	4	—	—	—	—
Other specified operatives	22	2 310	26	60	232	230	185	501	574	216	147	139	43.4
Miscellaneous and not specified operatives	—	2 083	—	56	180	223	170	513	556	294	41	50	43.0
Manufacturing	—	1 848	—	30	166	214	162	473	487	261	30	25	42.4
Durable goods	—	977	—	—	62	131	96	232	267	143	30	16	43.6
Machinery, including electrical	—	363	—	—	33	43	34	60	94	72	16	11	46.2
Other durable goods	—	614	—	—	29	88	62	172	173	71	14	5	42.4
Nondurable goods, including not specified manufacturing	—	871	—	30	104	83	66	241	220	118	—	9	41.3
Food and kindred products	—	170	—	—	31	18	33	26	43	19	—	—	36.2
Apparel and other fabricated textile products	—	46	—	8	5	—	6	16	—	11	—	—	—
Nonmanufacturing industries	—	235	—	26	14	9	8	40	69	33	11	25	48.0
Transport equipment operatives	—	935	—	10	103	79	185	272	221	57	6	2	38.3
Laborers, except farm	22	982	32	75	81	76	46	207	271	96	75	23	43.7
Farmers and farm managers	—	127	—	6	10	10	—	—	35	23	16	18	53.1
Farm laborers and farm foremen	—	373	53	12	27	19	27	50	99	25	34	27	44.7
Paid farm laborers and farm foremen	—	324	37	12	27	15	21	46	85	25	29	27	45.5
Unpaid family workers	—	49	16	—	—	4	6	4	14	—	5	—	—
Service workers, except private household	199	19 941	1 207	1 829	3 319	1 394	1 418	3 461	3 982	1 628	1 037	666	37.3
Cleaning service workers	35	2 528	84	84	135	108	136	406	746	390	252	187	49.2
Chambermaids and maids	11	759	49	39	58	38	39	120	194	97	50	75	46.9
Food service workers	72	8 876	829	965	1 340	513	669	1 596	1 720	663	417	164	35.8
Cooks, except private household	15	1 993	60	47	136	94	108	467	543	267	194	7	

Table 174. Occupation of Employed Persons by Age, Race, 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
Standard Metropolitan Statistical
Areas of 250,000 or More

TOLEDO, OHIO-MICH., SMSA—Continued

Negro

Male employed

	Persons 14 and 15 years old	Persons 16 years old and over											Median age
		Total	16 and 17 years	18 and 19 years	20 to 24 years	25 to 29 years	30 to 34 years	35 to 44 years	45 to 54 years	55 to 59 years	60 to 64 years	65 years and over	
Professional, technical, and kindred workers	134	10 647	263	450	1 429	1 242	1 174	2 378	2 067	782	560	302	38.2
Engineers	11	616	7	9	157	103	62	127	73	36	4	38	32.6
Lawyers and judges	—	32	—	—	4	5	6	11	6	—	—	—	—
Life and physical scientists	—	22	—	—	—	—	—	9	—	—	—	13	—
Physicians, dentists, and related practitioners	—	5	—	—	5	—	—	—	—	—	—	—	—
Health workers, except practitioners	—	48	—	—	7	4	—	18	6	4	—	9	—
Social and recreation workers	—	35	—	5	15	—	—	4	5	6	—	—	—
Teachers	11	46	7	—	13	4	4	5	5	8	—	—	—
Technicians, except health	—	143	—	—	32	31	5	25	35	10	—	5	36.4
Writers, artists, and entertainers	—	80	—	4	9	16	4	6	5	4	—	—	—
Other professional, technical, and kindred workers	—	159	—	—	31	26	33	49	5	4	—	11	33.4
Managers and administrators, except farm	—	332	—	—	41	55	23	94	62	31	17	9	40.0
Salaried	—	266	—	—	35	49	23	69	55	22	13	—	38.8
Manufacturing	—	55	—	—	10	21	5	6	—	—	13	—	—
Retail trade	—	40	—	—	15	14	—	11	—	—	—	—	—
All other industries	—	171	—	—	10	14	18	52	55	22	—	—	43.4
Self-employed	—	66	—	—	6	6	—	25	7	9	4	9	—
Retail trade	—	21	—	—	6	—	—	6	—	—	—	9	—
All other industries	—	45	—	—	—	6	—	19	7	9	4	—	—
Sales workers	39	169	31	11	23	20	17	27	14	6	8	12	29.9
Manufacturing and wholesale trade	28	27	6	4	6	5	—	6	—	—	—	—	—
Retail trade	11	111	25	4	9	5	11	17	14	6	8	12	35.9
All other industries	—	31	—	3	8	10	6	4	—	—	—	—	—
Clerical and kindred workers	16	689	20	56	88	76	72	167	126	46	21	17	36.9
Bookkeepers and billing clerks	—	45	—	—	—	12	7	7	19	—	—	—	—
Mail handlers and postal clerks	7	191	4	20	6	18	19	75	37	6	6	—	38.8
Other clerical and kindred workers	9	453	16	32	82	55	41	85	70	40	15	17	35.1
Craftsmen and kindred workers	9	1 553	15	75	186	187	125	400	368	99	87	11	39.7
Carpenters	—	42	—	4	—	—	—	6	28	—	—	4	—
Construction craftsmen, except carpenters	—	278	—	25	13	17	9	89	88	28	5	4	43.4
Automobile mechanics, including body repairmen	—	157	10	—	10	16	6	49	36	10	20	—	42.4
Mechanics and repairmen, except auto	—	178	—	—	14	33	11	32	25	26	37	—	44.7
Machinists	—	55	—	12	13	12	—	12	6	—	—	—	—
Metal craftsmen, except mechanics and machinists	—	147	—	—	25	20	28	37	52	5	9	—	37.8
Foremen, n.e.c.	—	137	—	—	4	6	20	45	45	8	16	—	43.6
Other craftsmen and kindred workers	—	539	5	34	107	83	51	130	88	22	16	3	34.0
Operatives, except transport	10	3 303	32	151	585	466	500	679	538	159	166	27	34.2
Assemblers	—	270	—	16	61	43	40	51	32	10	17	—	31.9
Garage workers and gas station attendants	6	42	7	—	—	10	—	5	20	—	—	—	—
Laundry and drycleaning operatives, including ironers	4	41	—	—	—	4	—	10	4	16	7	—	—
Precision machine operatives	—	119	—	9	23	16	16	28	21	6	—	—	33.6
Other operatives, except transport	—	2 831	25	126	501	393	444	585	461	127	142	27	34.2
Durable goods, manufacturing	—	2 206	14	104	373	356	329	452	349	95	120	14	33.9
Nonmanufacturing industries	—	302	—	9	65	23	74	61	36	12	9	13	33.6
Transport equipment operatives	7	736	—	5	35	50	108	210	214	84	13	17	37.7
Truck drivers	7	319	—	—	6	23	42	76	116	43	13	—	46.1
Other transport equipment operatives	—	417	—	5	29	27	66	134	98	41	—	17	41.1
Laborers, except farm	13	1 608	65	69	195	126	158	390	385	107	78	35	39.9
Construction laborers	—	298	—	—	9	—	25	74	130	26	22	12	46.2
Freight, stock, and material handlers	7	468	20	22	41	81	39	131	95	20	11	8	37.4
Other laborers, except farm	6	842	45	47	145	45	94	185	160	61	45	15	37.4
Manufacturing industries	6	317	18	—	71	28	29	91	50	15	15	—	36.4
Farmers and farm managers	—	38	—	—	—	—	—	13	—	—	—	6	—
Farm laborers and farm foremen	—	44	—	—	—	—	—	10	13	9	—	—	—
Service workers, except private household ¹	38	1 546	93	61	119	153	103	257	268	205	160	127	44.5
Cleaning service workers	23	817	22	27	45	80	37	118	145	140	110	93	50.5
Food service workers	7	199	46	5	19	20	41	30	14	12	12	—	37.3
Health service workers	—	54	—	—	16	—	—	7	—	—	—	—	—
Personal service workers	—	87	15	—	3	—	—	19	6	7	—	—	—
Protective service workers	—	104	—	—	18	33	—	23	7	6	23	—	—
Private household workers	—	13	—	—	—	—	—	13	16	5	5	8	30.8
								4	6	—	—	3	—
Female employed	28	8 747	187	456	1 378	1 045	907	2 029	1 545	574	355	271	37.0
Professional, technical, and kindred workers	—	1 066	5	15	170	156	138	321	150	55	36	20	36.5
Registered nurses	—	112	—	—	5	14	12	66	8	—	7	—	38.8
Health workers, except nurses	—	108	5	10	31	6	37	19	—	—	—	—	30.3
Teachers, elementary and secondary schools	—	440	—	—	79	74	26	148	74	28	11	—	37.8
Technicians, except health	—	11	—	—	5	—	—	—	—	—	—	—	—
Other professional, technical, and kindred workers	—	395	—	5	50	62	57	88	68	27	18	20	37.7
Managers and administrators, except farm	—	160	—	—	27	10	22	24	31	28	—	18	43.8
Salaried	—	140	—	—	27	10	17	19	25	28	—	14	43.4
Self-employed	—	20	—	—	—	—	5	5	6	—	—	4	—
Sales workers	—	255	—	53	17	19	19	28	45	14	14	—	27.8
Retail trade	—	206	—	53	49	17	14	18	41	9	5	—	25.3
Clerical and kindred workers	19	1 889	82	181	540	291	165	329	208	29	26	38	27.4
Bookkeepers and cashiers	—	174	8	21	32	9	33	26	30	4	—	11	32.6
Office machine operators	—	117	—	5	37	24	10	21	5	—	10	5	28.4
Secretaries, stenographers, and typists	—	462	38	52	153	92	24	89	8	6	—	—	24.6
Other clerical and kindred workers	—	136	36	103	318	166	98	193	165	19	16	22	28.3
Craftsmen and kindred workers	—	123	—	—	32	14	24	15	19	4	15	—	33.2
Operatives, except transport	—	1 089	—	36	151	145	134	272	185	100	38	28	37.9
Sewers and stitchers	—	30	—	—	6	4	—	—	7	8	5	—	—
Laundry and drycleaning operatives, including ironers	—	238	—	9	16	9	5	90	51	33	15	10	43.9
Other operatives, except transport	—	821	—	27	129	132	129	182	127	59	18	18	34.7
Durable goods, manufacturing	—	480	—	13	107	74	61	99	61	34	18	13	33.8
Nonmanufacturing industries	—	188	—	8	12	27	46	53	33	9	—	—	35.2
Transport equipment operatives	—	153	—	6	10	31	22	30	33	16	—	5	37.5
Laborers, except farm	—	122	4	12	15	5	7	36	29	6	8	—	40.0
Farmers and farm managers	—	10	—	—	—	—	—	—	—	—	—	—	—
Farm laborers and farm foremen	—	37	—	—	5	—	—	11	6	7	8	—	—
Service workers, except private household ¹	9	2 952	79	153	349	341	334	782	535	177	114	88	37.8
Cleaning service workers	—	511	—	6	27	33	30						

Table 175. Occupation of the Male 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

	Males with earnings in 1969										Median earnings (dollars)	
	Total, 16 years old and over	\$1 to \$1,999 or loss	\$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	All earners	Earners worked 50 to 52 weeks
Experienced civilian labor force	2 170 681	209 141	153 738	79 544	110 145	145 641	206 962	430 523	568 101	266 886	8 837	9 739
Professional, technical, and kindred workers	288 412	14 517	15 674	7 488	8 268	10 635	15 368	37 695	98 815	79 952	11 749	12 734
Accountants	21 330	766	767	375	452	691	1 014	3 503	8 402	5 360	11 843	12 419
Architects	1 972	61	63	31	21	38	34	141	644	939	14 635	15000+
Computer specialists	7 766	339	363	156	209	285	361	1 144	3 540	1 369	11 449	12 120
Engineers	54 277	912	810	694	887	820	1 123	4 283	23 123	21 625	13 808	14 193
Aeronautical and astronautical	380	14	—	8	13	7	6	36	138	158	13 841	14 474
Civil	4 516	99	65	86	97	57	113	373	1 666	1 960	14 106	14 725
Electrical and electronic	6 800	174	147	117	123	135	228	593	3 089	2 194	13 048	13 536
Mechanical	17 175	246	222	191	290	229	269	828	6 796	8 104	14 644	15000+
Other engineers	25 406	379	376	292	364	392	507	2 453	11 434	9 209	13 472	13 771
Lawyers and judges	8 682	276	276	78	109	166	214	366	1 692	5 505	15000+	15000+
Life and physical scientists	5 891	173	273	132	150	180	254	779	2 452	1 498	12 048	12 658
Chemists	4 049	86	137	54	93	105	163	540	1 874	997	12 259	12 695
Physicians, dentists, and related practitioners	20 612	579	655	438	443	433	542	1 260	3 209	13 053	15000+	15000+
Dentists	3 846	55	75	56	88	61	49	134	417	2 911	15000+	15000+
Pharmacists	4 039	240	167	109	114	99	91	264	1 399	1 556	13 343	14 178
Physicians, medical and osteopathic	10 680	200	353	243	187	225	348	722	1 024	7 378	15000+	15000+
Other related practitioners	2 047	84	60	30	54	48	54	140	369	1 208	15000+	15000+
Health technologists and technicians	3 333	404	420	222	224	161	275	592	758	277	7 856	9 316
Religious workers	8 443	645	1 169	752	1 097	1 321	1 201	1 177	793	288	6 423	6 616
Social scientists	4 321	99	160	113	64	127	160	362	1 576	1 660	13 412	14 059
Social and recreation workers	4 503	431	410	176	172	184	371	901	1 489	369	9 127	10 319
Teachers	51 203	3 195	4 033	1 672	1 411	2 202	4 024	9 217	18 033	7 416	9 967	11 232
College and university	14 516	1 249	1 542	668	359	322	508	1 131	4 208	4 529	11 757	13 854
Elementary and prekindergarten	10 731	611	879	356	432	788	1 170	2 290	3 569	636	8 986	9 179
Secondary	23 874	941	1 399	568	568	1 010	2 211	5 495	9 665	2 017	9 907	10 507
Engineering and science technicians	36 377	1 948	2 337	1 105	1 067	1 839	2 539	6 105	12 883	6 554	10 485	11 514
Draftsmen and surveyors	21 288	1 093	1 479	681	656	1 078	1 347	3 149	7 136	4 669	10 813	11 912
Electrical and electronic engineering technicians	3 084	127	184	79	104	139	238	556	1 379	280	10 421	11 099
Technicians, except health, and engineering and science	2 901	132	139	33	126	141	223	478	1 070	559	10 834	11 557
Airplane pilots	882	39	19	16	32	40	47	95	294	300	12 602	13 216
Writers, artists, and entertainers	23 325	2 112	1 483	600	708	811	1 009	2 682	7 233	5 687	11 215	12 424
Other professional, technical, and kindred workers	34 476	2 445	2 316	911	1 128	1 236	2 024	4 705	11 918	7 793	11 038	12 044
Managers and administrators, except farm	193 748	6 325	5 838	3 847	5 437	7 239	10 579	26 295	60 791	67 397	12 576	12 990
Buyers, purchasing agents, and sales managers	26 025	524	516	373	609	842	1 571	3 830	8 835	8 925	12 687	12 992
School administrators	6 787	134	117	59	39	58	135	379	2 340	3 526	15000+	15000+
Specified managers and administrators, public administration	10 769	348	303	213	157	395	623	2 273	4 498	1 959	11 192	11 495
Other specified managers and administrators	32 274	1 425	1 342	879	1 139	1 648	2 235	4 758	10 381	8 467	11 306	11 911
Managers and administrators, n.e.c., salaried	91 242	2 004	1 968	1 327	1 940	2 573	4 240	11 565	28 515	37 110	13 508	13 902
Manufacturing	29 486	355	339	179	305	390	685	2 363	8 911	15 959	15000+	15000+
Wholesale and retail trade	28 772	815	887	635	1 000	1 259	2 009	5 091	8 877	8 199	11 515	11 983
Transportation, communications, and other public utilities	6 829	88	50	81	82	162	299	1 006	2 911	1 250	12 828	13 008
All other industries	26 155	746	692	432	553	762	1 247	3 105	7 816	10 802	13 544	14 151
Managers and administrators, n.e.c., self-employed	26 651	1 890	1 592	996	1 532	1 723	3 330	8 490	6 222	7 410	10 246	10 943
Construction	4 922	323	266	158	307	318	282	585	1 278	1 405	10 869	12 361
Manufacturing	2 730	181	138	93	118	123	140	304	629	1 004	12 130	12 829
Wholesale and retail trade	13 458	986	876	503	823	952	1 045	1 881	3 145	3 247	9 642	9 961
All other industries	5 541	400	312	242	305	330	308	720	1 170	1 754	10 656	11 468
Sales workers	127 759	15 880	9 814	4 292	5 733	7 160	8 951	18 969	31 269	25 691	9 270	10 613
Insurance agents, brokers, and underwriters	13 930	464	514	357	544	722	1 172	2 381	3 872	3 904	11 047	11 815
Real estate agents and brokers	8 269	634	616	385	488	514	456	893	1 938	2 365	10 435	11 863
Sales representatives, manufacturing industries	15 909	504	292	254	329	479	765	2 600	5 649	5 037	12 418	12 772
Sales representatives, wholesale trade	23 081	941	893	504	814	1 150	2 016	4 136	7 159	5 468	10 759	11 404
Sales clerks, retail trade	29 780	7 623	4 758	1 616	1 842	2 135	2 061	3 589	3 945	2 211	5 485	7 857
Salesmen, retail trade	16 925	1 405	1 351	571	917	1 210	1 513	2 442	4 405	2 711	9 052	9 942
Salesmen of services and construction	6 167	580	314	143	213	301	376	1 001	1 800	1 439	10 432	11 653
Other sales workers	13 698	3 729	1 076	462	586	649	612	1 527	2 501	2 536	7 567	9 664
Clerical and kindred workers	143 105	14 174	11 472	5 109	6 982	10 285	16 254	37 535	33 046	8 248	8 388	9 080
Bank tellers and cashiers	4 325	1 310	1 019	301	333	280	411	326	65	65	3 673	6 232
Bookkeepers and billing clerks	11 686	857	847	449	603	768	1 213	2 581	3 251	1 117	8 857	9 488
Mail handlers and postal clerks	16 185	1 036	897	325	555	1 122	2 574	6 749	2 664	263	8 469	8 753
Other clerical and kindred workers	110 909	10 971	8 709	4 034	5 491	8 115	12 187	27 794	26 805	6 803	8 428	9 176
Craftsmen and kindred workers	502 689	23 938	22 342	13 596	20 489	28 684	43 813	103 680	185 364	60 783	9 900	10 660
Apparel craftsmen and upholsterers	3 271	314	213	149	245	340	466	883	511	150	7 804	8 461
Bakers	2 956	353	229	181	272	314	448	595	471	93	7 288	7 929
Cabinetmakers	2 122	211	128	151	152	230	334	442	382	92	7 566	8 022
Construction craftsmen	115 654	6 259	6 061	4 042	6 088	7 568	10 585	21 328	39 412	14 311	9 615	10 734
Carpenters	31 559	1 939	2 225	1 519	2 180	2 543	3 428	6 190	9 531	2 004	8 629	9 741
Excavating, grading, and road machine operators	11 855	470	555	446	687	974	1 489	2 933	3 128	1 173	8 891	8 927
Electricians	22 445	732	479	312	596	826	1 382	3 746	9 994	4 378	11 576	11 913
Masons and tile setters	9 149	398	425	297	560	539	759	1 681	3 529	961	9 899	11 256
Painters, construction and maintenance, and paperhangers	11 983	1 468	1 153	770	925	1 030	1 259	2 023	2 840	515	7 513	9 047
Plasterers and cement finishers	3 894	217	173	182	303	315	442	744	1 280	238	8 847	10 088
Plumbers and pipe fitters	18 416	651	558	242	465	808	1 293	2 968	7 171	4 260	11 550	11 962
Other construction craftsmen	6 353	384	493	274	372	533	533	1 043	1 939	782	9 127	10 760
Foremen, n.e.c.	78 196	1 578	955	656	1 066	2 018	3 890	12 756	35 883	19 394	12 254	12 944
Manufacturing	55 760	975	520	389	595	1 238	2 240	8 282	26 629	14 892	12 561	12 744
Nonmanufacturing industries	22 436	603	435	267	471	780	1 650	4 474	9 254	4 502	11 371	11 735
Linemen and servicemen, telephone and power	14 366	483	899	374	691	1 073	1 315	3 761	5 121	649		

Table 175. Occupation of the Male 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

Total—Continued

Experienced civilian labor force—Continued

	Males with earnings in 1969										Median earnings (dollars)	
	Total, 16 years old and over	\$1 to \$1,999 or loss	\$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	All earners	Earnings worked 50 to 52 weeks
Operatives, except transport	453 409	36 835	34 191	20 066	29 156	42 430	65 468	126 485	87 376	11 402	7 978	8 499
Assemblers.....	67 337	4 046	5 235	3 385	5 014	7 555	13 132	20 646	7 804	520	7 442	8 267
Checkers, examiners, and inspectors; manufacturing	37 970	1 027	1 091	752	1 570	2 958	5 795	13 831	9 946	1 000	8 838	9 190
Garage workers and gas station attendants.....	19 783	9 240	4 375	1 073	1 141	1 019	1 005	1 042	690	198	2 298	5 455
Laundry and drycleaning operatives, n.e.c.	2 407	495	348	235	267	273	286	242	172	89	5 470	6 685
Meat cutters and butchers.....	8 478	668	695	256	651	776	1 049	2 322	1 751	310	8 124	8 626
Mine operatives, n.e.c.....	3 321	203	221	232	248	438	677	916	355	31	7 470	8 065
Packers and wrappers, except produce.....	8 802	1 808	991	499	647	968	1 156	1 754	928	51	6 471	7 819
Painters, manufactured articles.....	8 359	463	563	408	613	838	1 157	2 359	1 737	221	8 117	8 740
Precision machine operatives.....	46 334	1 817	2 267	1 366	1 973	3 333	5 211	13 598	14 627	2 142	9 059	9 533
Sawyers.....	3 943	312	676	437	503	478	497	601	391	48	6 091	7 048
Stationary firemen.....	4 766	168	140	121	193	316	540	1 421	1 714	153	9 274	9 612
Textile operatives.....	483	60	53	10	53	77	50	88	87	5	6 851	7 809
Welders and flamecutters.....	37 236	1 692	2 212	1 444	2 242	3 472	5 697	10 836	7 967	1 674	8 343	8 901
Other metalworking operatives.....	39 919	2 116	2 858	2 071	2 885	4 234	6 713	12 163	6 263	616	7 863	8 469
Other specified operatives.....	56 015	5 874	4 758	3 089	3 992	4 929	7 291	14 158	10 289	1 635	7 736	8 524
Miscellaneous and not specified operatives.....	108 256	6 846	7 708	4 688	7 164	10 766	15 212	30 508	22 655	2 709	8 114	8 747
Occupation:												
Machine operatives, miscellaneous specified.....	43 253	2 353	2 877	1 824	3 044	4 737	6 126	12 455	8 956	881	8 107	8 679
Machine operatives, not specified.....	30 998	1 494	1 978	1 245	2 026	3 093	4 818	9 460	6 218	666	8 179	8 721
Miscellaneous operatives.....	20 443	1 971	1 813	993	1 216	1 801	2 608	5 125	4 317	599	7 931	8 816
Not specified operatives.....	13 562	1 028	1 040	626	878	1 135	1 660	3 468	3 164	563	8 239	8 972
Industry:												
Manufacturing	98 986	5 425	6 677	4 228	6 523	9 883	13 951	28 569	21 319	2 411	8 196	8 789
Durable goods.....	75 742	3 935	5 031	3 225	5 098	7 406	11 026	22 347	15 583	2 091	8 192	8 778
Wood products, including furniture.....	3 336	330	498	233	292	455	429	612	448	39	6 692	7 378
Primary metal industries.....	10 837	581	818	504	840	1 289	1 620	2 959	1 971	255	7 856	8 488
Fabricated metal industries.....	6 914	459	635	378	668	778	989	1 700	1 176	131	7 545	8 314
Machinery, including electrical.....	16 467	921	1 149	738	1 054	1 371	1 983	4 418	4 111	722	8 461	9 129
Motor vehicles and equipment.....	31 572	1 116	1 382	1 034	1 596	2 765	5 068	11 095	6 759	757	8 509	8 960
Transportation equipment, except motor vehicles	1 492	96	129	90	183	179	214	282	263	56	7 322	8 025
Other durable goods.....	5 124	432	420	248	465	569	723	1 281	855	131	7 592	8 331
Non-durable goods.....	22 525	1 393	1 558	952	1 359	2 408	2 856	6 051	5 638	310	8 243	8 833
Food and kindred products.....	4 615	426	372	208	300	589	545	1 117	1 024	34	7 757	8 633
Apparel and other fabricated textile products	455	12	57	41	21	51	105	126	37	5	7 433	7 926
Paper and allied products.....	6 221	331	347	222	422	753	847	1 819	1 421	59	8 207	8 624
Chemicals and allied products.....	4 573	169	197	130	196	358	585	1 459	1 434	45	8 893	9 242
Other non-durable goods.....	6 661	455	585	351	420	657	774	1 530	1 722	167	8 116	8 887
Not specified manufacturing industries.....	719	97	88	51	66	69	69	171	98	10	6 833	8 482
Nonmanufacturing industries	9 270	1 421	1 031	460	641	883	1 261	1 939	1 336	298	7 158	8 103
Transportation, communications, and other public utilities	1 810	75	142	46	82	239	325	600	281	20	7 988	8 489
Wholesale and retail trade.....	3 965	761	423	273	317	375	551	722	512	31	6 556	7 716
All other industries.....	3 495	585	466	141	242	269	385	617	543	247	7 116	8 415
Transport equipment operatives	122 966	8 877	8 583	5 209	8 061	10 651	14 229	31 111	31 349	4 896	8 378	8 987
Bus drivers.....	4 646	483	558	300	322	392	453	1 073	1 004	61	7 592	8 605
Taxicab drivers and chauffeurs.....	5 574	840	785	422	584	449	480	1 030	912	72	6 347	7 810
Truck drivers and deliverymen.....	83 836	5 498	5 075	3 218	5 309	6 851	9 351	20 393	23 811	4 330	8 649	9 215
Other transport equipment operatives.....	28 910	2 056	2 165	1 269	1 846	2 959	3 945	8 615	5 622	433	8 050	8 641
Laborers, except farm	130 482	32 919	18 098	7 825	9 558	11 545	14 238	22 284	12 258	1 757	5 669	7 577
Construction laborers.....	19 528	2 558	2 326	1 334	1 759	1 950	2 255	3 693	3 059	594	6 916	8 396
Freight, stock, and material handlers.....	58 907	17 691	8 734	3 127	3 658	4 563	6 194	9 819	4 759	362	4 969	7 480
Other specified laborers.....	28 505	8 391	4 373	1 810	2 106	2 401	2 694	4 203	1 998	529	4 822	7 215
Miscellaneous and not specified laborers.....	23 542	4 279	2 665	1 554	2 035	2 631	3 095	4 569	2 442	272	6 471	7 700
Occupation:												
Miscellaneous laborers.....	8 202	902	733	497	655	1 007	1 237	1 827	1 163	181	7 248	7 955
Not specified laborers.....	15 340	3 377	1 932	1 057	1 380	1 624	1 858	2 742	1 279	91	5 945	7 519
Industry:												
Manufacturing	14 919	1 819	1 539	937	1 269	1 686	2 236	3 464	1 821	148	7 094	7 994
Durable goods.....	12 548	1 321	1 240	763	1 053	1 416	1 973	3 079	1 572	131	7 244	8 067
Wood products, including furniture.....	568	140	119	63	67	54	73	18	25	9	4 397	6 054
Metal industries.....	4 990	544	484	286	464	626	698	1 166	664	58	7 130	8 056
Machinery, including electrical.....	1 399	183	169	150	152	167	172	267	132	7	6 272	7 454
Transportation equipment.....	4 696	304	342	216	319	477	694	1 399	695	48	7 770	8 486
Other durable goods.....	895	148	126	48	51	92	136	229	56	9	6 810	7 797
Non-durable goods.....	2 246	490	275	160	207	249	256	353	239	17	5 957	7 531
Food and kindred products.....	861	225	120	54	111	114	90	73	74	—	5 284	6 618
Not specified manufacturing industries.....	125	8	24	14	9	21	7	32	10	—	6 357	...
Nonmanufacturing industries	8 623	2 460	1 126	617	766	945	859	1 105	621	124	5 142	7 046
Railroads and railway express service.....	1 199	96	110	56	175	285	160	224	93	—	6 570	6 943
Transportation, except railroads.....	406	94	47	20	24	38	19	76	82	6	6 474	8 400
Communications, and utilities and sanitary services	1 132	108	86	85	57	148	221	321	89	17	7 371	7 811
Wholesale and retail trade.....	2 913	1 033	479	225	240	218	222	257	206	33	3 768	6 713
All other industries.....	2 973	1 129	404	231	270	256	237	227	151	68	3 770	6 503
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	5 167
Farm laborers and farm foremen	12 229	6 349	2 293	901	817	520	425	448	346	130	1 926	3 892
Paid farm laborers and farm foremen.....	11 547	5 881	2 177	874	788	520	425	437	326	119	1 963	3 877
Unpaid family workers.....	682	468	116	27	29	—	—	11	20	11	1 457	1 546
Service workers, except private household¹	165 717	41 668	19 870	8 943	12 977	14 600	15 999	23 429	24 141	4 090	5 954	7 711
Cleaning service workers.....	65 422	14 623	7 601	4 370	6 964	8 379	8 221	9 700	4 825	739	5 878	6 943
Food service workers.....	33 880	17 389	5 917	1 459	1 934	1 524	1 470	1 986	1 603	558	1 948	5 814
Cooks, except private household.....	11 846	5 449	2 132	591	679	521	630	913	698	233	2 445	6 164
Busboys and dishwashers.....	9 353	7 314	1 589	184	82	73	36	46	10	17	1 278	2 248
Health service workers.....	6 241	1 318	1 312	515	693	1 213	723	581	338	48	4 952	6 456
Personal service workers.....	13 250	2 998	1 745	838	1 005	1 073	1 407	1 765	1 461	678	6 036	7 603
Protective service workers.....	36 689	2 415	1 677	1 059	1 663	2 123	3 208	8 218	14 451	1 755	9 509	10 155
Firemen, fire protection.....	6 267											

Table 175. Occupation of the Male 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

	Males with earnings in 1969										Median earnings (dollars)	
	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	All earners	Earners worked 50 to 52 weeks
Negro												
Experienced civilian labor force	204 482	21 727	18 312	10 711	15 703	22 069	30 839	50 204	30 257	4 660	7 445	8 167
Professional, technical, and kindred workers	10 292	877	745	368	484	631	880	2 002	3 119	1 186	9 160	9 795
Accountants	475	3	56	15	14	24	37	177	123	26	9 000	9 391
Architects	42	5	—	—	—	—	5	—	26	6	—	—
Computer specialists	262	12	4	12	7	15	17	84	77	34	9 524	11 061
Engineers	703	44	32	21	11	17	39	113	317	109	11 175	11 527
Aeronautical and astronautical	6	—	—	—	—	—	—	—	6	—	—	—
Civil	139	12	13	16	—	—	5	18	41	34	10 671	12 256
Electrical and electronic	136	21	10	—	7	4	—	28	61	5	9 857	—
Mechanical	121	—	3	—	—	—	—	20	23	36	12 014	11 667
Other engineers	301	11	6	5	4	13	14	44	173	31	11 546	11 731
Lawyers and judges	196	26	9	—	5	11	7	19	44	75	12 366	13 864
Life and physical scientists	192	4	21	—	—	11	11	41	81	23	10 494	11 507
Chemists	147	4	5	—	—	6	11	39	68	14	10 625	11 318
Physicians, dentists, and related practitioners	548	20	23	14	10	10	20	29	118	304	15000+	15000+
Dentists	118	4	3	5	—	—	5	—	21	80	15000+	—
Pharmacists	168	16	14	—	10	10	5	18	62	33	10 867	11 435
Physicians, medical and osteopathic	258	—	6	9	—	—	10	11	31	191	15000+	15000+
Other related practitioners	4	—	—	—	—	—	—	—	4	—	—	—
Health technologists and technicians	334	16	17	13	49	23	41	88	63	24	8 182	8 831
Religious workers	384	34	67	36	55	52	54	42	44	—	6 000	6 394
Social scientists	132	—	11	7	—	5	10	13	50	36	12 000	12 875
Social and recreation workers	729	60	53	32	30	49	94	136	229	46	8 684	10 012
Teachers	2 379	216	117	61	85	141	205	530	844	180	9 375	9 237
College and university	257	46	8	22	12	15	8	33	74	39	9 061	—
Elementary and prekindergarten	795	75	43	23	37	65	60	187	256	49	9 011	8 968
Secondary	1 209	73	60	11	31	49	120	271	510	84	9 923	9 228
Engineering and science technicians	923	98	84	52	28	77	64	206	279	35	8 568	9 701
Draftsmen and surveyors	426	42	49	32	20	42	24	87	113	17	8 092	9 754
Electrical and electronic engineering technicians	133	11	6	4	—	—	4	41	60	7	10 042	—
Technicians, except health, and engineering and science	98	—	—	—	20	21	9	9	39	—	—	—
Airplane pilots	—	—	—	—	—	—	—	—	—	—	—	—
Writers, artists, and entertainers	823	124	73	43	68	46	60	96	194	119	7 958	9 549
Other professional, technical, and kindred workers	2 072	215	178	62	102	129	207	419	591	169	8 683	9 384
Managers and administrators, except farm	5 207	387	375	197	236	485	469	875	1 509	674	9 039	9 630
Buyers, purchasing agents, and sales managers	456	27	44	24	20	38	66	79	122	36	8 228	8 500
School administrators	353	10	17	10	—	4	15	10	149	138	13 708	13 673
Specified managers and administrators, public administration	594	37	35	—	—	—	43	34	168	52	9 643	9 927
Other specified managers and administrators	1 321	89	77	49	98	172	111	193	367	165	8 668	9 582
Managers and administrators, n.e.c., salaried	1 709	106	118	81	49	160	173	316	519	187	9 060	9 766
Manufacturing	256	—	4	20	5	5	7	47	142	26	11 408	11 909
Wholesale and retail trade	547	20	60	22	23	71	62	139	109	41	8 223	8 593
Transportation, communications, and other public utilities	94	5	5	10	—	—	—	23	25	15	—	—
All other industries	812	81	49	29	21	73	104	107	243	105	8 916	10 013
Managers and administrators, n.e.c., self-employed	774	118	84	33	55	72	70	109	137	96	7 357	8 688
Construction	144	24	20	12	26	10	13	18	12	9	5 615	—
Manufacturing	28	—	4	7	—	—	—	5	—	12	—	—
Wholesale and retail trade	328	68	44	4	21	31	24	47	62	27	6 871	7 792
All other industries	274	26	16	10	8	31	33	39	63	48	8 667	10 000
Sales workers	3 815	787	501	278	256	349	375	626	488	155	6 245	7 698
Insurance agents, brokers, and underwriters	558	33	23	19	35	74	92	113	131	38	8 053	9 020
Real estate agents and brokers	245	21	11	4	5	33	23	48	58	42	9 063	9 871
Sales representatives, manufacturing industries	218	30	14	11	16	17	14	63	42	11	8 222	8 381
Sales representatives, wholesale trade	350	23	19	11	24	27	37	101	100	8	8 673	8 862
Sales clerks, retail trade	1 225	326	253	139	108	106	112	115	41	25	4 241	6 035
Salesmen, retail trade	382	41	67	20	25	43	46	78	50	12	6 884	7 552
Salesmen of services and construction	112	29	—	5	11	20	5	26	11	5	6 550	—
Other sales workers	725	284	114	69	32	29	46	82	55	14	3 377	6 346
Clerical and kindred workers	12 665	1 650	1 105	556	858	1 239	1 666	3 542	1 827	222	7 555	8 403
Bank tellers and cashiers	264	99	49	39	5	33	7	13	10	9	3 347	4 810
Bookkeepers and billing clerks	460	40	51	13	24	53	46	116	92	25	8 052	8 966
Mail handlers and postal clerks	2 634	132	117	66	123	169	399	1 124	462	42	8 553	8 856
Other clerical and kindred workers	9 307	1 379	888	438	706	984	1 214	2 289	1 263	146	7 213	8 172
Craftsmen and kindred workers	30 678	1 985	2 084	1 182	1 827	2 540	4 287	8 179	7 573	1 021	8 351	9 000
Apparel craftsmen and upholsterers	266	27	29	30	17	23	58	69	4	9	7 121	7 474
Bakers	323	17	24	30	37	44	43	90	38	—	7 221	8 217
Cabinetmakers	60	9	3	9	10	—	—	21	—	8	—	—
Construction craftsmen	6 103	475	474	356	418	573	814	1 336	1 394	263	7 928	8 976
Carpenters	864	63	71	43	49	82	130	187	216	23	7 954	9 051
Excavating, grading, and road machine operators	556	27	10	24	32	68	120	167	71	37	7 975	8 339
Electricians	806	35	40	16	34	57	112	171	270	71	9 275	9 299
Masons and tile setters	934	80	58	58	46	77	96	222	236	61	8 468	10 153
Painters, construction and maintenance, and paperhangers	1 241	175	183	116	115	145	117	210	171	9	6 217	8 310
Plasterers and cement finishers	842	56	28	62	91	74	130	154	235	12	7 846	9 492
Plumbers and pipe fitters	638	23	63	24	30	64	98	133	160	43	8 256	9 063
Other construction craftsmen	222	16	21	13	21	6	11	92	35	7	8 500	8 694
Foremen, n.e.c.	3 220	119	96	47	117	149	266	828	1 381	217	9 971	10 445
Manufacturing	2 292	80	38	34	51	101	193	589	1 003	203	10 299	10 711
Nonmanufacturing industries	928	39	58	13	66	48	73	239	378	14	9 397	9 845
Linemen and servicemen, telephone and power	596	44	66	54	58	72	114	143	45	—	7 035	7 635
Locomotive engineers and firemen	56	—	—	—	—	—	15	6	30	5	—	—
Mechanics and repairmen	7 603	502	477	231	422	665	1 246	2 192	1 711	157	8 236	8 813
Air conditioning, heating, and refrigeration	180	16	—	10	5	29	36	37	47	—	7 833	8 667
Aircraft	34	—	—	—	5	—	6	19	4	—	—	—
Automobile, including body	4 336	335	315	149	213	391	710	1 200	955	68	8 092	8 729
Radio and television	251	23	31	5	34	51	36	39	32	—	6 637	7 109
Other mechanics and repairmen	2 802	128	131	67	165	194	458	897	673	89	8 575	9 020
Metal craftsmen, except mechanics	5 562	287	202	118	288	397	741	1 774	1 565	188	8 842	9 184
Machinists and job and die setters	2 336	100	74	38	90	138	291	778	750	77	9 123	9 493
Sheetmetal workers and tinsmiths	175	18	15	5	11	12	43	34	37	—	7 616	—
Tool and die makers	612	40	23	13	22	26	49	200	186	33	9 130	9 688
Other metal craftsmen	2 439	129	90	62	165	221	338	764	592	78	8 562	8 765
Printing craftsmen	385	56	41	6	36	54	38	111	43	—	6 991	8 013
Compositors and typesetters	144	6	25	4	15	10	13	37	34	—	7 923	—
Pressman and plate printers, printing	199	50	16	2	21	39	20	42	9	—	6 269	6 424
Stationary engineers and power station operators	391	5	18	12	3	21	45	61	195	31	10 782	10 855
Other craftsmen and kindred workers	6 113	444	654	289	421	542	907	1 546	1 167	143	7 779	8 554

Table 175. Occupation of the Male 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—Continued

Experienced civilian labor force—Continued

	Males with earnings in 1969										Median earnings (dollars)	
	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	All earners	Earners worked 50 to 52 weeks
Operatives, except transport	80 238	6 018	6 437	4 056	6 296	9 662	15 020	22 685	9 374	690	7 509	8 082
Assemblers	18 598	1 309	1 484	1 010	1 570	2 417	4 273	5 015	1 453	67	7 353	7 822
Checkers, examiners, and inspectors, manufacturing	4 593	254	155	142	289	507	897	1 528	757	64	8 069	8 535
Garage workers and gas station attendants	1 214	334	223	117	122	146	115	113	44	—	4 427	6 439
Laundry and drycleaning operatives, n.e.c.	1 745	156	88	132	105	107	63	61	28	5	4 973	5 541
Meat cutters and butchers	676	48	50	27	80	81	151	133	101	5	7 344	7 723
Mine operatives, n.e.c.	49	4	—	—	14	5	—	21	5	—	—	—
Packers and wrappers, except produce	1 037	195	166	71	82	144	120	174	85	—	6 031	7 236
Painters, manufactured articles	1 734	78	150	102	108	180	259	551	291	15	7 961	8 558
Precision machine operatives	3 882	187	246	137	279	474	777	1 252	493	35	7 793	8 284
Sawyers	142	18	28	13	20	15	12	10	26	—	5 600	—
Stationary firemen	547	—	20	24	21	38	77	222	130	15	8 842	8 924
Textile operatives	41	5	—	7	4	10	—	5	10	—	—	—
Welders and flamecutters	7 741	493	544	308	503	946	1 493	2 472	849	133	7 721	8 305
Other metalworking operatives	9 528	478	663	444	697	1 091	1 835	3 024	1 204	92	7 758	8 303
Other specified operatives	12 497	1 376	1 228	706	996	1 422	2 098	3 123	1 458	90	7 248	7 869
Miscellaneous and not specified operatives	17 214	1 083	1 392	616	1 406	2 077	2 850	4 981	2 440	169	7 643	8 274
Occupation:												
Machine operatives, miscellaneous specified	6 456	370	577	277	542	791	1 009	1 898	911	81	7 665	8 303
Machine operatives, not specified	5 993	335	399	306	462	717	1 027	1 867	828	52	7 757	8 281
Miscellaneous operatives	2 934	247	223	139	227	367	509	788	416	18	7 519	8 109
Not specified operatives	1 831	131	193	94	175	202	305	428	285	18	7 395	8 376
Industry:												
Manufacturing	16 032	954	1 241	732	1 294	1 894	2 665	4 784	2 310	158	7 713	8 364
Durable goods	14 074	773	1 025	635	1 119	1 669	2 354	4 355	2 010	136	7 772	8 413
Wood products, including furniture	146	21	25	5	15	16	24	11	29	—	6 438	—
Primary metal industries	2 243	128	144	117	197	278	356	653	348	22	7 723	8 328
Fabricated metal industries	785	83	101	39	85	89	107	211	64	6	6 949	8 067
Machinery, including electrical	1 019	32	127	69	121	106	87	361	114	2	7 626	8 529
Motor vehicles and equipment	9 298	446	574	382	615	1 115	1 726	2 960	1 395	85	7 879	8 483
Transportation equipment, except motor vehicles	25	4	—	—	—	—	5	13	—	3	—	—
Other durable goods	560	59	54	23	86	65	49	146	60	18	6 892	7 632
Nondurable goods	1 837	171	207	92	170	208	283	392	292	22	7 249	7 865
Food and kindred products	450	74	44	17	28	62	79	98	48	—	7 000	8 000
Apparel and other fabricated textile products	61	—	8	4	13	15	6	15	—	—	—	—
Paper and allied products	260	31	44	19	37	22	46	28	33	—	5 973	6 659
Chemicals and allied products	267	21	18	16	24	48	36	60	44	—	7 181	7 891
Other nondurable goods	799	45	93	36	68	61	116	191	167	22	7 832	8 504
Not specified manufacturing industries	119	10	9	5	5	17	28	37	8	—	7 482	—
Nonmanufacturing industries	1 182	129	151	84	112	183	185	197	130	11	6 628	7 140
Transportation, communications, and other public utilities	162	5	7	—	5	27	44	42	32	—	7 841	8 214
Wholesale and retail trade	521	84	55	57	50	71	84	55	65	—	6 204	6 803
All other industries	499	40	89	27	57	85	57	100	33	11	6 429	7 105
Transport equipment operatives	14 622	979	1 075	728	1 214	1 526	2 155	4 259	2 454	232	7 830	8 364
Bus drivers	1 140	57	84	48	55	48	83	399	347	19	8 977	9 288
Taxicab drivers and chauffeurs	1 179	122	146	111	182	113	161	172	149	23	6 252	6 858
Truck drivers and deliverymen	7 026	390	453	329	585	815	1 032	2 067	1 182	173	7 912	8 369
Other transport equipment operatives	5 277	410	392	240	392	550	879	1 621	776	17	7 745	8 325
Laborers, except farm	21 645	3 923	2 430	1 338	1 965	2 499	3 119	4 303	1 904	164	6 467	7 441
Construction laborers	3 566	362	336	255	326	390	590	750	517	40	7 193	7 765
Freight, stock, and material handlers	7 749	1 620	867	415	746	893	1 116	1 545	528	19	6 254	7 424
Other specified laborers	5 164	1 295	704	320	349	517	590	960	383	46	5 754	7 164
Miscellaneous and not specified laborers	5 166	646	523	348	544	699	823	1 048	476	59	6 747	7 547
Occupation:												
Miscellaneous laborers	1 929	153	197	120	177	239	358	405	230	50	7 219	7 766
Not specified laborers	3 237	493	326	228	367	460	465	643	246	9	6 445	7 368
Industry:												
Manufacturing	3 860	427	395	227	393	482	621	868	392	55	7 010	7 759
Durable goods	3 507	350	370	209	347	441	572	800	370	48	7 064	7 781
Wood products, including furniture	39	6	10	4	8	6	5	—	—	—	—	—
Metal industries	1 346	166	159	71	131	208	206	281	111	13	6 702	7 465
Machinery, including electrical	1 159	20	16	22	29	22	9	36	5	—	5 741	—
Transportation equipment	1 830	137	163	95	169	194	343	444	254	31	7 458	8 140
Other durable goods	133	21	22	17	10	11	9	39	—	4	5 650	—
Nondurable goods	313	77	20	18	46	24	49	55	17	7	5 902	7 500
Food and kindred products	148	44	20	—	18	18	28	20	—	—	5 556	—
Not specified manufacturing industries	40	—	5	—	—	17	—	13	5	—	—	—
Nonmanufacturing industries	1 306	219	128	121	151	217	202	180	84	4	6 157	7 088
Railroads and railway express service	127	16	5	13	11	32	16	23	11	—	6 578	—
Transportation, except railroads	49	5	15	—	10	11	—	8	—	—	—	—
Communications, and utilities and sanitary services	273	17	10	30	8	31	67	82	24	4	7 604	7 817
Wholesale and retail trade	403	87	57	28	67	63	61	13	27	—	5 440	6 718
All other industries	454	94	41	50	55	80	58	54	22	—	5 764	6 608
Farmers and farm managers	202	59	85	4	—	15	17	18	4	—	2 988	3 035
Farm laborers and farm foremen	541	279	87	19	60	12	54	30	—	—	1 939	4 714
Paid farm laborers and farm foremen	525	279	71	19	60	12	54	30	—	—	1 882	4 714
Unpaid family workers	16	—	16	—	—	—	—	—	—	—	—	—
Service workers, except private household¹	24 330	4 662	3 314	1 968	2 502	3 099	2 784	3 685	2 000	316	5 888	6 936
Cleaning service workers	13 099	1 972	1 630	1 138	1 498	1 964	1 666	2 207	913	111	6 159	6 888
Food service workers	2 757	1 026	629	178	212	173	179	195	141	24	3 121	5 614
Cooks, except private household	849	260	145	75	94	59	87	69	54	6	4 260	6 120
Busboys and dishwashers	870	503	260	22	30	32	10	13	—	—	1 730	3 000
Health service workers	1 387	254	242	105	140	250	170	102	95	29	5 661	6 534
Personal service workers	1 711	353	261	190	190	193	172	179	120	53	5 271	6 422
Protective service workers	2 659	304	198	122	210	210	340	679	545	51	7 840	8 704
Firemen, fire protection	122	—	5	—	5	5	29	34	36	8	9 000	9 324
Guards and watchmen	1 609	220	156	111	171	154	202	291	288	16	6 951	8 057
Policemen and detectives	834	57	23	11	34	43	99	333	211	23	8 901	9 245
Private household workers	247	121	74	17	5	12	13	—	5	—	2 068	—

¹Includes allocated cases not shown separately.

Table 175. Occupation of the Male 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	Males with earnings in 1969										Median earnings (dollars)	
	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	All earners	Earners worked 50 to 52 weeks
THE STATE—Continued												
Persons of Spanish Language												
Experienced civilian labor force	27 079	2 792	2 250	1 419	1 662	2 431	3 331	5 964	5 430	1 800	7 896	8 769
Professional, technical, and kindred workers	2 892	216	147	132	83	143	165	412	895	699	10 827	11 801
Accountants	155	14	—	6	—	—	13	51	52	19	9 745	10 048
Architects	27	—	—	—	—	—	—	—	13	14	—	—
Computer specialists	61	—	—	—	—	—	—	29	26	6	—	—
Engineers	489	32	12	6	23	14	24	66	189	123	11 786	12 564
Aeronautical and astronautical	14	—	—	—	—	—	—	14	—	—	—	—
Civil	33	—	6	—	—	—	8	6	6	7	—	—
Electrical and electronic	90	—	—	—	—	—	—	13	35	42	—	—
Mechanical	109	8	6	—	—	—	—	8	60	27	12 708	—
Other engineers	243	24	—	6	23	14	16	25	88	47	10 767	11 903
Lawyers and judges	21	—	—	—	—	—	—	—	5	16	—	—
Life and physical scientists	32	—	—	—	—	—	—	—	21	11	—	—
Chemists	20	—	—	—	—	—	—	—	14	6	—	—
Physicians, dentists, and related practitioners	512	6	6	29	—	28	36	49	125	233	14 080	14 076
Dentists	13	—	—	—	—	—	—	6	7	—	—	—
Pharmacists	19	6	—	—	—	—	—	—	6	—	—	—
Physicians, medical and osteopathic	453	—	6	29	—	28	36	36	92	226	14 973	14 962
Other related practitioners	27	—	—	—	—	—	—	—	27	—	—	—
Health technologists and technicians	70	25	—	—	—	5	—	7	27	—	—	—
Religious workers	34	7	13	—	14	—	—	—	—	—	—	—
Social scientists	28	—	—	—	—	—	—	14	—	14	—	—
Social and recreation workers	42	6	5	6	—	8	—	11	6	—	—	—
Teachers	414	57	56	18	7	25	23	36	147	45	9 167	11 344
College and university	150	29	33	13	7	—	6	—	54	8	5 000	—
Elementary and kindergarten	109	22	17	5	—	5	4	28	11	17	8 107	—
Secondary	118	6	6	—	—	20	7	8	60	11	11 000	—
Engineering and science technicians	383	35	10	31	29	23	23	51	113	68	9 588	11 312
Draftsmen and surveyors	266	21	—	25	29	17	10	30	80	54	10 063	11 993
Electrical and electronic engineering technicians	37	8	—	—	—	—	—	8	7	14	—	—
Technicians, except health, and engineering and science	34	9	—	—	—	—	—	6	7	12	—	—
Airplane pilots	12	—	—	—	—	—	—	—	—	12	—	—
Writers, artists, and entertainers	284	21	25	5	—	14	13	41	115	50	11 000	11 381
Other professional, technical, and kindred workers	306	4	20	31	10	26	27	57	49	82	9 228	9 667
Managers and administrators, except farm	1 233	38	45	18	42	41	127	299	358	265	10 091	10 283
Buyers, purchasing agents, and sales managers	139	—	10	5	5	—	7	29	40	43	11 688	12 667
School administrators	27	—	—	—	—	—	7	—	15	5	—	—
Specified managers and administrators, public administration	72	—	—	—	—	8	4	31	17	12	—	—
Other specified managers and administrators	308	13	—	13	7	7	17	77	104	70	10 962	11 862
Managers and administrators, n.e.c., salaried	516	15	20	—	24	14	64	142	128	109	9 704	9 599
Manufacturing	131	—	—	—	—	7	8	28	35	53	13 214	13 426
Wholesale and retail trade	211	7	20	—	24	—	22	94	39	5	8 691	8 660
Transportation, communications, and other public utilities	49	8	—	—	—	—	5	7	9	20	—	—
All other industries	125	—	—	—	—	7	29	13	45	31	11 500	11 402
Managers and administrators, n.e.c., self-employed	171	10	15	—	6	12	28	20	54	26	9 450	9 400
Construction	6	—	—	—	6	—	—	—	—	9	—	—
Manufacturing	31	—	—	—	—	—	7	9	6	—	—	—
Wholesale and retail trade	113	10	—	—	—	12	21	5	48	17	10 885	10 610
All other industries	21	—	15	—	—	—	—	6	—	—	—	—
Sales workers	796	98	66	39	33	71	67	123	203	96	8 390	9 541
Insurance agents, brokers, and underwriters	130	—	7	—	—	28	29	37	29	—	8 054	8 243
Real estate agents and brokers	36	—	—	—	22	8	—	—	6	—	—	—
Sales representatives, manufacturing industries	89	—	—	—	—	—	—	20	35	34	—	—
Sales representatives, wholesale trade	149	12	6	6	5	16	20	19	46	19	9 000	9 316
Sales clerks, retail trade	165	55	47	—	—	9	6	12	23	13	3 170	—
Salesmen, retail trade	84	6	—	10	—	4	12	22	23	7	—	—
Salesmen of services and construction	31	—	—	—	—	—	—	—	17	14	—	—
Other sales workers	112	25	6	23	6	6	—	13	24	9	5 333	—
Clerical and kindred workers	1 404	165	180	83	42	122	182	340	255	35	7 604	8 451
Bank tellers and cashiers	61	21	11	6	—	—	6	10	7	—	—	—
Bookkeepers and billing clerks	55	14	4	5	9	5	—	12	6	—	—	—
Mail handlers and postal clerks	105	8	9	8	—	6	39	30	5	—	7 551	—
Other clerical and kindred workers	1 183	122	156	64	33	111	137	288	237	35	7 770	8 621
Craftsmen and kindred workers	5 116	222	290	169	231	460	570	1 037	1 660	477	9 188	9 943
Apparel craftsmen and upholsterers	43	6	—	—	—	—	11	13	13	—	—	—
Bakers	44	26	—	—	—	—	8	—	—	10	—	—
Cabinetmakers	12	8	—	—	4	—	—	—	—	—	—	—
Construction craftsmen	1 055	22	84	50	65	98	128	192	335	81	8 839	10 133
Carpenters	254	6	30	12	19	34	15	51	67	20	8 431	10 536
Excavating, grading, and road machine operators	129	—	19	12	8	13	18	12	40	7	7 694	—
Electricians	172	—	—	—	8	6	24	29	83	22	11 145	10 975
Masons and tile setters	62	—	—	—	—	—	15	30	10	7	—	—
Painters, construction and maintenance, and paperhangers	175	8	22	19	30	6	19	26	45	—	7 132	—
Plasterers and cement finishers	53	8	—	—	—	—	17	10	18	—	—	—
Plumbers and pipe fitters	155	—	7	7	—	—	21	15	34	58	9 618	—
Other construction craftsmen	55	—	6	—	—	—	18	5	—	12	—	—
Foremen, n.e.c.	569	12	13	12	12	26	15	112	266	101	11 551	12 096
Manufacturing	382	12	7	4	—	26	6	80	171	76	11 637	12 016
Nonmanufacturing industries	187	—	6	8	12	—	9	32	95	25	11 395	12 264
Linemen and servicemen, telephone and power	137	16	—	—	5	21	37	6	47	5	7 716	7 878
Locomotive engineers and firemen	7	—	—	—	—	—	—	—	—	—	—	—
Mechanics and repairmen	1 285	50	86	45	36	108	132	312	461	55	9 189	9 732
Air conditioning, heating, and refrigeration	15	—	—	—	—	—	7	9	6	—	—	—
Aircraft	26	—	—	—	—	—	—	—	12	—	—	—
Automobile, including body	592	42	18	21	15	43	51	168	213	21	9 262	9 419
Radio and television	87	—	—	—	6	16	—	24	41	—	—	—
Other mechanics and repairmen	565	8	68	24	15	49	74	104	189	34	8 856	10 158
Metal craftsmen, except mechanics	1 090	26	37	12	37	106	129	228	378	137	9 737	10 833
Machinists and job and die setters	253	10	11	—	7	23	37	77	75	13	9 000	9 438
Sheetmetal workers and tinsmiths	55	5	—	—	—	6	10	—	19	15	—	—
Tool and die makers	326	6	13	—	13	33	22	28	123	88	11 951	13 966
Other metal craftsmen	456	5	13	12	17	44	60	123	161	21	9 252	9 714
Printing craftsmen	128	—	6	13	13	18	8	32	24	14	8 375	8 156
Compositors and typesetters	53	—	6	—	7	7	—	9	24	—	—	—
Pressmen and plate printers, printing	62	—	—	8	6	11	8	15	—	14	—	—
Stationary engineers and power station operators	45	—	—	—	—	—	13	7	13	12	—	—
Other craftsmen and kindred workers	701	49	64	37	59	83	89	135	123	62	7 657	8 508

Table 175. Occupation of the Male 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—Continued

Experienced civilian labor force—Continued

	Males with earnings in 1969										Median earnings (dollars)	
	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	All earners	Earners worked 50 to 52 weeks
Operatives, except transport	8 594	670	648	440	645	886	1 415	2 588	1 196	106	7 712	8 297
Assemblers.....	1 920	115	133	75	149	205	397	667	161	18	7 713	8 184
Checkers, examiners, and inspectors; manufacturing.....	460	42	21	16	8	45	82	146	87	13	8 219	8 880
Garage workers and gas station attendants.....	155	56	43	—	23	7	12	7	—	7	3 000	....
Laundry and drycleaning operatives, n.e.c.....	33	13	—	—	5	7	—	8	—	—	....	....
Meat cutters and butchers.....	100	—	6	—	—	—	14	71	9	—	....	....
Mine operatives, n.e.c.....	47	—	9	—	—	18	8	12	—	—	....	....
Packers and wrappers, except produce.....	221	60	15	12	32	49	13	34	6	—	5 734	6 444
Painters, manufactured articles.....	212	8	17	40	16	13	40	38	40	—	7 300	7 574
Precision machine operatives.....	683	35	62	21	11	57	129	232	136	—	8 228	8 655
Sawyers.....	47	16	5	6	13	—	—	7	—	—	....	....
Stationary firemen.....	35	—	8	—	7	—	5	—	15	—	....	....
Textile operatives.....	6	—	6	—	—	—	—	—	—	—	....	....
Welders and flamecutters.....	741	30	42	87	51	68	82	265	109	7	8 079	8 483
Other metalworking operatives.....	837	28	72	58	86	100	150	237	92	14	7 497	8 264
Other specified operatives.....	725	105	88	34	84	56	83	134	128	13	6 920	7 654
Miscellaneous and not specified operatives.....	2 372	162	121	91	160	261	400	730	413	34	7 978	8 475
Occupation:												
Machine operatives, miscellaneous specified.....	1 136	79	48	44	94	133	217	348	166	7	7 783	8 241
Machine operatives, not specified.....	490	24	30	20	9	72	95	141	85	14	7 947	8 307
Miscellaneous operatives.....	423	40	30	12	28	22	34	168	83	6	8 542	9 160
Not specified operatives.....	323	19	13	15	29	34	54	73	79	7	7 954	8 517
Industry:												
Manufacturing.....	2 135	101	106	91	155	249	379	619	407	28	7 964	8 415
Durable goods.....	1 677	67	76	71	117	167	298	532	321	28	8 160	8 569
Wood products, including furniture.....	29	13	—	—	3	6	—	7	—	—	....	....
Primary metal industries.....	572	18	30	13	46	52	140	193	80	—	7 907	8 319
Fabricated metal industries.....	125	8	13	16	6	17	7	26	32	—	7 357	....
Machinery, including electrical.....	180	18	10	22	—	28	29	42	31	—	7 414	8 310
Motor vehicles and equipment.....	631	10	13	14	32	41	98	237	158	28	8 907	9 154
Transportation equipment, except motor vehicles.....	19	—	5	—	8	—	—	—	6	—	....	....
Other durable goods.....	121	—	5	6	22	23	24	27	14	—	7 188	....
Nondurable goods.....	454	34	30	20	38	78	81	87	86	—	7 333	7 477
Food and kindred products.....	171	18	13	6	22	29	23	36	24	—	6 914	7 917
Apparel and other fabricated textile products.....	34	—	5	—	—	—	23	7	6	—	....	....
Paper and allied products.....	54	—	—	—	7	15	16	7	9	—	....	....
Chemicals and allied products.....	54	—	5	—	—	6	7	15	21	—	....	....
Other nondurable goods.....	141	16	7	14	9	28	12	29	26	—	6 875	7 625
Not specified manufacturing industries.....	4	—	—	—	—	—	—	—	—	—	....	....
Nonmanufacturing industries.....	237	61	15	—	5	12	21	111	6	6	8 081	8 796
Transportation, communications, and other public utilities.....	76	17	7	—	—	—	7	45	—	—	....	....
Wholesale and retail trade.....	120	30	8	—	5	12	14	45	6	—	7 357	....
All other industries.....	41	14	—	—	—	—	—	21	—	6	....	....
Transport equipment operatives.....	1 486	89	109	73	132	117	197	404	336	29	8 129	8 512
Bus drivers.....	30	—	12	—	—	—	—	13	5	—	....	....
Taxicab drivers and chauffeurs.....	60	5	18	—	16	—	7	6	8	—	....	....
Truck drivers and deliverymen.....	865	45	38	52	62	57	92	248	242	29	8 698	9 168
Other transport equipment operatives.....	531	39	41	21	54	60	98	137	81	—	7 515	7 747
Laborers, except farm	2 713	559	380	165	242	246	326	520	237	38	6 043	7 487
Construction laborers.....	550	113	114	29	37	42	63	100	43	9	5 514	7 743
Freight, stock, and material handlers.....	978	274	111	79	89	108	61	175	75	6	5 281	7 050
Other specified laborers.....	347	55	59	20	30	19	51	62	36	15	6 500	7 745
Miscellaneous and not specified laborers.....	838	117	96	37	86	77	151	183	83	8	7 040	7 485
Occupation:												
Miscellaneous laborers.....	337	23	19	—	38	57	65	58	77	—	7 485	7 651
Not specified laborers.....	501	94	77	37	48	20	86	125	6	8	5 885	7 364
Industry:												
Manufacturing.....	644	91	59	27	66	58	108	157	70	8	7 194	7 664
Durable goods.....	567	67	35	23	66	45	101	152	70	8	7 470	7 865
Wood products, including furniture.....	19	11	—	—	—	—	8	—	—	—	....	....
Metal industries.....	338	39	11	14	53	22	45	113	33	8	7 667	8 426
Machinery, including electrical.....	44	6	14	9	—	—	—	7	—	—	....	....
Transportation equipment.....	154	11	10	—	13	15	36	32	37	—	7 778	....
Other durable goods.....	12	—	—	—	—	—	12	—	—	—	....	....
Nondurable goods.....	71	24	18	4	—	13	7	5	—	—	....	....
Food and kindred products.....	41	15	13	—	—	13	—	—	—	—	....	....
Not specified manufacturing industries.....	6	—	6	—	—	—	—	—	—	—	....	....
Nonmanufacturing industries.....	194	26	37	10	20	19	43	26	13	—	6 211	7 094
Railroads and railway express service.....	75	—	5	—	11	16	16	20	7	—	....	....
Transportation, except railroads.....	8	—	8	—	—	—	—	—	—	—	....	....
Communications, and utilities and sanitary services.....	22	3	—	—	4	—	15	—	—	—	....	....
Wholesale and retail trade.....	62	15	8	10	5	—	12	6	6	—	....	....
All other industries.....	27	8	16	—	—	3	—	—	—	—	....	....
Farmers and farm managers	110	32	14	16	8	15	—	—	—	25	4 563	....
Farm laborers and farm foremen	554	177	166	76	47	29	16	43	—	—	3 205	4 480
Paid farm laborers and farm foremen.....	554	177	166	76	47	29	16	43	—	—	3 205	4 480
Unpaid family workers.....	—	—	—	—	—	—	—	—	—	—	....	....
Service workers, except private household¹	2 175	526	205	208	157	301	266	198	284	30	5 946	6 900
Cleaning service workers.....	1 057	205	107	129	98	205	149	70	90	4	5 893	6 518
Food service workers.....	556	249	72	55	22	48	43	29	32	6	2 806	6 150
Cooks, except private household.....	211	82	33	22	16	19	11	13	15	—	3 424	5 594
Busboys and dishwashers.....	130	111	13	6	—	—	—	—	—	—	1 171	....
Health service workers.....	44	6	9	—	—	—	—	—	—	—	....	....
Personal service workers.....	156	3	11	17	—	4	7	8	6	6	7 708	....
Protective service workers.....	260	25	—	—	22	25	29	59	114	8	9 729	10 175
Firemen, fire protection.....	75	—	—	—	—	6	7	12	50	—	....	....
Guards and watchmen.....	64	3	—	—	22	12	9	7	11	—	....	....
Policemen and detectives.....	121	—	—	—	—	7	13	40	53	8	10 047	10 330
Private household workers	6	—	—	—	—	—	—	—	6	—	....	....

¹Includes allocated cases not shown separately.

Table 175. Occupation of the Male 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

	Males with earnings in 1969										Median earnings (dollars)	
	Total, 16 years old and over	\$1 to \$1,999 or loss	\$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 \$8,999	\$10,000 to \$14,999	\$15,000 or more	All earners	Earners worked 50 to 52 weeks
Experienced civilian labor force	1 053 421	87 569	63 516	32 818	42 057	56 391	87 815	202 249	314 896	166 110	9 548	10 824
Professional, technical, and kindred workers	153 793	5 975	6 426	3 321	3 653	4 269	6 269	16 404	53 335	52 141	12 763	13 633
Accountants	12 446	330	410	205	202	298	531	1 766	5 062	3 642	12 451	12 991
Architects	1 223	35	36	22	—	24	9	78	426	593	14 783	15 000+
Computer specialists	4 875	113	157	74	154	146	219	656	2 319	1 037	11 980	12 558
Engineers	33 930	520	455	322	458	422	522	1 802	13 523	15 906	14 608	15 000+
Aeronautical and astronautical	189	8	—	—	7	7	—	12	53	102	15 000+	15 000+
Civil	2 187	49	24	39	38	30	55	177	629	1 146	15 000+	15 000+
Electrical and electronic	3 709	87	89	33	56	50	74	166	1 743	1 411	13 728	14 166
Mechanical	12 859	158	150	129	166	150	179	457	4 779	6 691	15 000+	15 000+
Other engineers	14 986	218	192	121	191	185	214	990	6 319	6 556	14 259	14 558
Lawyers and judges	5 259	171	159	58	68	118	152	213	998	3 322	15 000+	15 000+
Life and physical scientists	2 240	66	53	23	48	49	65	299	1 000	637	12 585	13 141
Chemists	1 795	42	37	11	37	46	44	231	881	466	12 551	12 946
Physicians, dentists, and related practitioners	10 697	200	269	251	239	203	286	626	1 869	7 054	15 000+	15 000+
Dentists	2 058	14	26	9	42	28	35	53	223	1 628	15 000+	15 000+
Pharmacists	1 917	89	63	38	44	66	41	103	616	857	14 176	15 000+
Physicians, medical and osteopathic	5 855	73	163	190	125	95	177	417	584	4 031	15 000+	15 000+
Other related practitioners	8 678	24	17	14	28	14	33	53	146	538	15 000+	15 000+
Health technologists and technicians	1 606	157	213	82	125	94	128	259	382	166	8 031	9 692
Religious workers	3 071	305	534	225	243	428	329	411	460	136	6 534	6 776
Social scientists	2 758	48	60	51	32	84	84	202	1 038	1 159	13 940	14 536
Social and recreation workers	2 178	215	179	68	90	90	171	400	744	221	9 380	10 952
Teachers	19 460	1 240	1 279	683	546	608	1 310	3 184	7 659	2 951	10 574	11 421
College and university	3 104	249	292	176	176	43	81	199	937	1 073	12 444	14 098
Elementary and prekindergarten	4 901	337	402	169	221	235	335	880	1 902	420	9 708	9 940
Secondary	10 416	486	464	283	262	274	822	1 932	4 549	1 344	10 753	11 330
Engineering and science technicians	21 565	839	1 067	553	524	748	1 095	2 883	8 389	5 467	11 832	12 670
Draftsmen and surveyors	13 789	613	746	400	378	471	671	1 612	4 802	4 076	12 086	13 151
Electrical and electronic engineering technicians	1 733	66	73	29	43	37	70	297	915	203	11 374	11 806
Technicians, except health, and engineering and science	1 329	37	61	12	47	72	65	199	508	328	11 688	12 444
Airplane pilots	361	5	10	6	26	17	35	102	151	13 554	14 195	
Writers, artists, and entertainers	14 124	916	673	356	395	352	495	1 369	4 973	4 595	12 520	13 461
Other professional, technical, and kindred workers	17 032	783	821	336	482	533	808	2 057	6 285	4 927	12 145	12 865
Managers and administrators, except farm	95 237	2 706	2 526	1 655	2 016	2 863	3 829	10 421	29 615	39 606	13 647	14 085
Buyers, purchasing agents, and sales managers	14 696	284	259	134	262	335	534	1 704	5 130	6 054	13 739	14 228
School administrators	2 692	41	31	17	5	12	57	85	654	1 790	15 000+	15 000+
Specified managers and administrators, public administration	4 782	72	97	42	53	118	204	779	2 346	1 071	12 187	12 406
Other specified managers and administrators	16 188	675	632	456	471	725	960	2 060	5 331	4 878	11 984	12 663
Managers and administrators, n.e.c., salaried	46 141	898	924	636	709	1 063	1 440	4 494	13 671	22 306	14 720	15 000+
Manufacturing	15 832	185	211	67	98	124	196	858	4 230	9 863	15 000+	15 000+
Wholesale and retail trade	13 258	362	378	303	361	479	590	1 964	4 132	4 689	12 652	13 226
Transportation, communications, and other public utilities	3 298	26	13	35	11	64	83	352	1 445	1 269	13 685	13 858
All other industries	13 753	325	322	231	239	396	571	1 320	3 864	6 485	14 493	15 000+
Managers and administrators, n.e.c., self-employed	10 738	736	583	370	516	610	634	1 299	2 483	3 507	11 251	12 061
Construction	1 745	105	108	40	110	63	69	187	435	628	12 190	14 086
Manufacturing	1 410	87	64	34	39	32	68	142	289	655	14 135	14 674
Wholesale and retail trade	5 114	383	288	187	261	367	375	687	1 202	1 364	10 037	10 706
All other industries	2 469	161	123	109	106	148	122	283	557	860	11 638	12 632
Sales workers	65 208	7 516	4 456	1 945	2 489	2 975	4 053	8 924	17 417	15 433	10 071	11 676
Insurance agents, brokers, and underwriters	6 732	251	200	181	264	307	518	1 154	2 018	1 839	11 217	12 024
Real estate agents and brokers	4 366	352	320	201	242	277	196	444	1 018	1 316	10 742	12 428
Sales representatives, manufacturing industries	9 063	253	140	101	172	198	401	1 222	3 240	3 336	13 155	13 516
Sales representatives, wholesale trade	12 924	509	432	223	378	483	954	2 041	4 292	3 612	11 680	12 301
Sales clerks, retail trade	14 272	3 475	2 168	757	832	897	985	1 712	2 197	1 249	5 885	8 465
Salesmen, retail trade	7 406	606	587	180	269	417	515	1 098	2 179	1 555	10 071	11 546
Salesmen of services and construction	3 563	303	160	85	104	150	188	506	1 109	958	11 287	12 415
Other sales workers	6 882	1 767	449	217	228	246	296	747	1 364	1 568	8 637	10 838
Clerical and kindred workers	78 479	6 644	5 862	2 826	3 504	4 852	7 839	20 657	20 768	5 537	8 748	9 428
Bank tellers and cashiers	2 083	575	432	152	167	128	133	238	217	41	4 227	6 650
Bookkeepers and billing clerks	5 738	382	343	231	269	352	508	1 236	1 847	570	9 269	9 953
Mail handlers and postal clerks	8 344	467	557	276	275	512	1 120	3 368	1 656	163	8 603	8 934
Other clerical and kindred workers	62 314	5 220	4 530	2 217	2 793	3 860	6 068	15 815	17 048	4 763	8 818	9 540
Craftsmen and kindred workers	240 028	10 280	8 762	5 054	6 852	9 370	14 989	43 977	100 970	39 774	11 027	11 734
Apparel craftsmen and upholsterers	1 745	139	94	74	86	142	300	526	287	97	8 143	8 752
Bakers	1 457	157	91	79	106	119	215	331	311	48	7 821	8 725
Cabinetmakers	634	67	29	33	26	43	58	158	159	61	8 772	9 338
Construction craftsmen	49 774	2 333	1 885	1 213	1 816	2 280	3 210	8 403	19 534	9 100	10 959	12 352
Carpenters	11 862	528	463	358	566	642	934	2 373	4 967	1 031	10 067	11 382
Excavating, grading, and road machine operators	3 595	131	127	82	129	149	301	932	1 161	583	9 885	10 354
Electricians	10 534	280	191	113	182	234	422	1 331	4 818	2 963	12 609	12 894
Masons and tile setters	4 454	215	151	114	181	178	313	761	1 931	610	10 813	11 980
Painters, construction and maintenance, and paperhangers	5 889	670	443	340	349	418	476	1 010	1 811	372	8 492	10 034
Plasterers and cement finishers	2 052	123	85	70	121	160	227	322	777	167	9 491	10 668
Plumbers and pipe fitters	8 369	245	234	64	152	301	356	1 155	3 007	2 855	12 789	13 145
Other construction craftsmen	3 019	141	191	72	136	198	181	519	1 062	519	10 337	11 853
Foremen, n.e.c.	37 917	715	432	228	308	617	950	4 277	17 976	12 414	13 180	13 410
Manufacturing	27 377	522	203	149	139	385	499	2 556	13 152	9 772	13 511	13 705
Nonmanufacturing industries	10 540	193	229	79	169	232	451	1 721	4 824	2 642	12 276	12 574
Linemen and servicemen, telephone and power	6 516	274	606	208	295	447	500	1 208	2 568	410	9 536	10 537
Locomotive engineers and firemen	941	19	10	6	8	15	29	117	540	197	12 468	12 682
Mechanics and repairmen	52 767	2 680	2 338	1 388	1 896	2 584	4 326	12 788	20 506	4 261	9 747	10 459
Air conditioning, heating, and refrigeration	2 026	76	90	53	40	126	183	343	797	318	10 640	11 654
Aircraft	883	31										

Table 175. Occupation of the Male 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

Total - Continued

Experienced civilian labor force - Continued

	Males with earnings in 1969										Median earnings (dollars)	
	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	All earners	Earners worked 50 to 52 weeks
Operatives, except transport	216 841	17 281	14 909	8 356	11 096	16 555	29 729	61 551	49 800	7 564	8 341	9 108
Assemblers.....	35 435	2 302	2 683	1 635	2 446	3 647	7 427	10 663	4 337	295	7 674	8 294
Checkers, examiners, and inspectors; manufacturing.....	19 392	562	509	323	630	1 032	2 396	7 020	6 152	768	9 209	9 453
Garage workers and gas station attendants.....	8 507	4 123	1 889	474	374	393	397	480	324	53	2 138	6 132
Laundry and drycleaning operatives, n.e.c.....	1 271	301	150	116	160	144	117	146	84	53	5 428	6 543
Meat cutters and butchers.....	3 844	172	275	116	267	257	481	1 037	1 118	121	8 683	9 188
Mine operatives, n.e.c.....	246	20	19	10	26	16	18	82	49	6	8 341	9 326
Packers and wrappers, except produce.....	3 784	960	438	212	202	327	427	739	458	21	6 245	8 337
Painters, manufactured articles.....	3 994	222	238	167	187	320	513	1 144	1 056	147	8 612	9 314
Precision machine operatives.....	24 215	927	1 003	584	663	1 220	2 071	6 505	9 526	1 716	9 734	10 477
Sawyers.....	910	54	74	39	31	106	110	275	196	25	8 298	8 863
Stationary firemen.....	2 322	47	41	64	23	90	177	771	1 016	93	9 865	10 198
Textile operatives.....	139	25	-	-	16	10	6	23	54	5	9 087	10 539
Welders and flamecutters.....	18 747	852	1 027	609	798	1 465	2 827	5 823	4 321	1 025	8 617	9 194
Other metalworking operatives.....	19 445	1 040	1 287	854	1 126	1 709	3 197	6 298	3 501	433	8 162	8 760
Other specified operatives.....	27 240	2 591	2 105	1 269	1 662	2 175	3 546	7 251	5 692	949	8 075	8 811
Miscellaneous and not specified operatives.....	47 350	3 083	3 171	1 884	2 485	3 644	6 019	13 294	11 916	1 854	8 510	9 213
Occupation:												
Machine operatives, miscellaneous specified.....	16 564	963	1 064	589	891	1 379	2 126	4 919	4 039	594	8 516	9 135
Machine operatives, not specified.....	13 663	680	874	635	801	1 144	1 883	4 121	3 143	382	8 395	9 005
Miscellaneous operatives.....	10 379	966	781	396	496	672	1 320	2 516	2 769	463	8 444	9 411
Not specified operatives.....	6 744	474	452	264	297	449	690	1 738	1 965	415	8 858	9 638
Industry:												
Manufacturing.....	42 583	2 447	2 663	1 668	2 221	3 252	5 386	12 263	11 048	1 635	8 596	9 260
Durable goods.....	35 814	1 979	2 173	1 391	1 916	2 712	4 539	10 404	9 223	1 475	8 615	9 278
Wood products, including furniture.....	408	34	47	6	35	18	72	103	93	-	7 889	8 432
Primary metal industries.....	4 018	270	250	149	207	310	506	1 027	1 106	193	8 617	9 415
Fabricated metal industries.....	3 502	274	290	174	285	280	445	937	719	98	8 006	8 845
Machinery, including electrical.....	8 203	554	536	335	344	372	641	2 143	2 691	587	9 231	10 044
Motor vehicles and equipment.....	17 281	646	843	578	855	1 559	2 620	5 632	4 060	488	8 547	9 066
Transportation equipment, except motor vehicles.....	270	18	27	12	3	8	29	41	107	25	9 854	11 814
Other durable goods.....	2 132	183	180	137	187	165	226	521	449	84	7 947	8 886
Nondurable goods.....	6 496	418	472	256	290	520	799	1 798	1 787	156	8 548	9 183
Food and kindred products.....	1 337	99	89	50	59	153	220	301	344	22	7 593	8 931
Apparel and other fabricated textile products.....	205	5	25	16	17	25	51	48	13	5	7 284	7 475
Paper and allied products.....	727	40	49	30	53	90	114	193	147	11	7 890	8 614
Chemicals and allied products.....	1 707	82	87	56	51	127	163	550	562	29	9 045	9 383
Other nondurable goods.....	2 520	192	222	104	110	125	251	706	721	89	8 725	9 450
Not specified manufacturing industries.....	273	50	18	21	15	20	48	61	36	4	7 260	8 827
Nonmanufacturing industries.....	4 767	636	508	216	264	392	633	1 031	868	219	7 581	8 659
Transportation, communications, and other public utilities.....	894	47	76	21	20	71	150	320	177	12	8 388	8 916
Wholesale and retail trade.....	1 994	338	179	140	137	187	255	376	366	16	7 063	8 285
All other industries.....	1 879	251	253	55	107	134	228	335	325	191	7 612	8 873
Transport equipment operatives	59 272	4 150	3 567	2 061	2 862	3 954	6 237	16 025	17 925	2 471	8 847	9 478
Bus drivers.....	2 314	103	100	81	79	83	219	823	786	40	9 196	9 494
Toxicab drivers and chauffeurs.....	3 571	520	542	285	359	302	308	624	571	60	6 263	7 802
Truck drivers and deliverymen.....	38 556	2 513	1 909	1 058	1 661	2 279	3 735	9 944	13 317	2 140	9 231	9 863
Other transport equipment operatives.....	14 831	1 014	1 016	637	763	1 290	1 995	4 634	3 251	231	8 302	8 907
Laborers, except farm	61 106	14 162	8 024	3 206	3 832	4 831	6 820	11 868	7 397	966	6 275	8 080
Construction laborers.....	8 240	947	803	462	592	620	843	1 774	1 869	330	7 824	9 300
Freight, stock, and material handlers.....	30 065	8 274	4 496	1 521	1 747	2 154	3 292	5 452	2 931	198	5 424	7 854
Other specified laborers.....	11 799	3 125	1 225	611	747	1 027	1 234	2 170	1 109	251	5 855	7 813
Miscellaneous and not specified laborers.....	11 002	1 816	1 500	612	746	1 030	1 451	2 472	1 488	187	7 067	8 287
Occupation:												
Miscellaneous laborers.....	3 888	319	335	205	227	355	552	1 025	742	128	7 911	8 767
Not specified laborers.....	7 114	1 497	865	407	519	675	899	1 447	746	59	6 399	7 954
Industry:												
Manufacturing.....	7 222	846	734	383	486	661	1 051	1 849	1 109	103	7 477	8 442
Durable goods.....	6 358	662	643	319	404	570	967	1 688	1 014	91	7 601	8 504
Wood products, including furniture.....	46	11	10	-	5	-	5	-	-	-	-	-
Metal industries.....	2 537	284	293	130	166	235	314	623	449	43	7 511	8 674
Machinery, including electrical.....	517	101	65	43	34	37	55	116	66	-	6 419	7 979
Transportation equipment.....	2 865	199	212	130	180	252	532	846	470	44	7 864	8 576
Other durable goods.....	393	67	63	12	19	40	61	103	24	4	6 888	7 885
Nondurable goods.....	821	184	91	58	82	74	84	151	85	12	5 945	7 840
Food and kindred products.....	290	75	45	11	43	30	31	38	17	-	5 326	6 731
Not specified manufacturing industries.....	43	-	-	6	-	17	-	10	-	-	-	-
Nonmanufacturing industries.....	3 780	970	466	229	260	369	400	623	379	84	5 865	7 882
Railroads and railway express service.....	335	28	41	5	30	54	36	102	39	-	7 264	8 333
Transportation, except railroads.....	267	58	36	14	19	16	19	61	38	6	6 406	8 675
Communications, and utilities and sanitary services.....	530	34	39	22	15	68	105	181	57	9	7 829	8 324
Wholesale and retail trade.....	1 382	421	180	87	111	126	126	166	138	27	5 027	7 739
All other industries.....	1 266	429	170	101	85	105	114	113	107	42	4 337	7 335
Farmers and farm managers	1 463	399	308	78	98	87	58	104	186	145	4 314	4 895
Farm laborers and farm foremen	1 324	583	195	71	83	61	104	119	85	23	2 810	5 712
Paid farm laborers and farm foremen.....	1 273	542	195	71	83	61	104	119	78	20	2 969	5 780
Unpaid family workers.....	51	41	-	-	-	-	-	-	7	3	-	-
Service workers, except private household	80 169	17 633	8 401	4 222	5 512	6 555	7 854	12 177	15 370	2 445	6 659	8 360
Cleaning service workers.....	30 192	5 898	3 127	1 901	2 520	3 668	4 306	5 605	2 749	418	6 450	7 459
Food service workers.....	15 781	7 346	2 517	784	1 079	836	834	1 143	944	298	2 433	6 226
Cooks, except private household.....	5 782	2 341	967	339	407	288	321	559	424	136	3 138	6 723
Busboys and dishwashers.....	4 095	3 214	623	97	54	37	28	24	10	8	1 274	2 553
Health service workers.....	2 494	602	549	196	241	284	235	164	180	43	4 490	6 505
Personal service workers.....	6 432	1 303	788	505	501	452	669	869	900	445	6 263	7 867
Protective service workers.....	20 367	1 169	803	538	790	877	1 297	3 798	10 031	1 064	10 454	11 102
Firemen, fire protection.....	3 578	72	21	6	24	28	96	534	2 416	381	12 086	12 160
Guards and watchmen.....	7 599	740	624	440	561	614	716	1 354	2 335	215	8 154	9 339
Policemen and detectives.....	8 668	236	132	81	192	203	448	1 786	5 146	444	11 220	11 536
Private household workers	501	240	80	23	60	19	24	22	28	5	2 263	5 450

*Includes allocated cases not shown separately.

Table 175. Occupation of the Male 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	Males with earnings in 1969										Median earnings (dollars)	
	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	All earners	Earners worked 50 to 52 weeks
DETROIT SMSA—Continued												
Negro												
Experienced civilian labor force	159 987	16 352	13 457	7 955	11 904	17 167	24 394	40 010	24 827	3 921	7 539	8 255
Professional, technical, and kindred workers	7 833	624	475	242	380	450	637	1 511	2 503	1 011	9 467	9 929
Accountants	396	—	39	15	14	24	21	150	118	15	9 133	9 500
Architects	42	5	—	—	—	—	5	—	26	6	...	...
Computer specialists	210	12	4	12	—	10	12	68	66	26	9 618	11 364
Engineers	527	44	18	5	7	17	25	78	246	87	11 413	11 796
Aeronautical and astronautical	—	—	—	—	—	—	—	—	—	—	—	—
Civil	98	12	5	—	—	—	5	18	37	21	...	...
Electrical and electronic	103	21	10	—	7	4	—	12	49	—	9 583	...
Mechanical	110	—	3	—	—	—	15	17	36	39	12 778	12 431
Other engineers	216	11	—	5	—	13	5	31	124	27	11 734	11 869
Lawyers and judges	169	22	5	—	5	11	7	19	38	62	12 039	13 487
Life and physical scientists	140	4	5	—	—	—	5	39	67	20	11 269	11 574
Chemists	124	4	5	—	—	—	5	39	57	14	10 789	...
Physicians, dentists, and related practitioners	433	4	13	14	—	10	18	13	92	269	15000+	15000+
Dentists	106	—	—	5	—	—	5	—	21	75	15000+	...
Pharmacists	128	4	7	—	—	10	5	13	56	33	12 232	12 188
Physicians, medical and osteopathic	195	—	6	9	—	—	8	—	11	161	15000+	15000+
Other related practitioners	4	—	—	—	—	—	—	—	4	—	...	...
Health technologists and technicians	261	9	17	5	49	23	35	72	34	17	7 786	8 433
Religious workers	272	25	53	18	31	40	37	28	40	—	6 225	6 463
Social scientists	107	—	11	7	—	5	10	13	35	26	11 071	...
Social and recreation workers	544	54	39	20	23	38	62	109	161	38	8 661	10 068
Teachers	1 738	139	72	51	69	85	140	373	664	145	9 678	9 127
College and university	80	8	—	17	—	5	—	13	20	17	...	...
Elementary and prekindergarten	668	56	33	23	37	34	45	153	238	49	9 386	9 491
Secondary	900	63	33	6	27	34	78	177	406	76	10 394	9 160
Engineering and science technicians	714	68	57	32	25	40	50	161	246	35	9 056	10 025
Draftsmen and surveyors	376	42	42	28	17	23	24	78	105	17	8 308	9 857
Electrical and electronic engineering technicians	102	6	6	—	—	—	—	31	52	7	10 769	...
Technicians, except health, and engineering and science	79	—	—	—	11	15	9	5	39	—	...	...
Airplane pilots .....	—	—	—	—	—	—	—	—	—	—	...	...
Writers, artists, and entertainers	667	92	38	33	63	32	50	70	170	119	8 729	10 328
Other professional, technical, and kindred workers	1 534	146	104	30	83	100	151	313	461	146	8 978	9 471
Managers and administrators, except farm	4 136	287	306	144	179	409	369	723	1 173	546	9 035	9 606
Buyers, purchasing agents, and sales managers	338	23	35	5	10	22	55	68	84	36	8 559	8 702
School administrators	231	5	6	4	—	—	15	6	100	95	13 975	...
Specified managers and administrators, public administration	475	28	22	—	10	29	26	136	184	40	9 801	9 928
Other specified managers and administrators	1 069	64	72	41	74	143	88	155	279	153	8 677	9 566
Managers and administrators, n.e.c., salaried	1 417	81	93	68	38	148	154	272	418	145	8 930	9 684
Manufacturing	192	—	4	16	5	5	7	32	106	17	11 274	12 005
Wholesale and retail trade	479	20	41	18	19	65	62	130	94	30	8 223	8 566
Transportation, communications, and other public utilities	89	5	5	10	—	11	—	23	20	15	...	...
All other industries	657	56	43	24	14	67	85	87	198	83	8 908	10 144
Managers and administrators, n.e.c., self-employed	606	86	78	26	47	67	31	86	108	77	6 985	9 074
Construction	126	16	20	12	26	10	9	18	12	3	5 577	...
Manufacturing	21	—	4	—	—	—	—	5	—	12	...	...
Wholesale and retail trade	246	49	44	4	21	26	8	24	51	19	6 192	6 942
All other industries	213	21	10	10	—	31	14	39	45	43	9 051	10 778
Sales workers	3 186	573	400	220	227	319	346	549	425	127	6 542	7 787
Insurance agents, brokers, and underwriters	507	33	17	19	29	64	92	106	116	31	7 995	9 000
Real estate agents and brokers	217	16	—	—	5	29	23	48	54	36	9 229	9 968
Sales representatives, manufacturing industries	173	23	10	—	16	17	14	40	37	11	8 075	7 700
Sales representatives, wholesale trade	312	11	14	11	24	27	37	93	87	8	8 488	8 841
Sales clerks, retail trade	1 029	245	204	118	96	106	96	111	32	21	4 555	6 158
Salesmen, retail trade	311	35	63	11	19	37	33	57	50	6	6 743	7 438
Salesmen of services and construction	91	25	—	5	11	16	—	5	21	—	...	...
Other sales workers	546	185	86	51	27	23	46	73	41	14	4 039	7 167
Clerical and kindred workers	10 571	1 256	816	454	743	1 024	1 445	3 009	1 621	203	7 687	8 471
Bank tellers and cashiers	192	63	34	39	5	21	7	13	10	—	3 941	...
Bookkeepers and billing clerks	404	26	45	13	24	50	41	103	87	15	8 058	8 908
Mail handlers and postal clerks	2 349	85	107	46	108	145	364	1 011	441	42	6 632	8 907
Other clerical and kindred workers	7 626	1 082	630	356	606	808	1 033	1 882	1 083	146	7 320	8 228
Craftsmen and kindred workers	23 901	1 547	1 518	827	1 294	1 924	3 370	6 446	6 102	873	8 456	9 130
Apparel craftsmen and upholsterers	216	21	16	20	12	23	58	53	4	9	7 276	7 474
Bakers	246	13	18	24	21	33	34	65	38	—	7 412	8 362
Cabinetmakers	43	4	—	4	10	—	—	17	—	8	...	...
Construction craftsmen	4 925	397	359	231	320	473	688	1 096	1 122	239	7 992	9 002
Carpenters	634	44	37	12	39	51	102	157	169	23	8 408	9 282
Excavating, grading, and road machine operators	464	27	5	10	27	46	100	153	59	37	8 222	8 556
Electricians	648	35	29	10	21	57	103	144	187	62	8 958	9 058
Masons and tile setters	750	66	40	26	26	77	72	183	206	54	8 743	11 055
Painters, construction and maintenance, and paperhangers	1 100	165	167	111	96	127	112	158	155	9	6 087	8 342
Plasterers and cement finishers	652	44	23	28	65	45	117	118	200	12	8 068	9 535
Plumbers and pipe fitters	513	11	45	21	25	64	75	114	123	35	8 272	8 623
Other construction craftsmen	164	5	13	13	21	6	7	69	23	7	8 493	...
Foremen, n.e.c.	2 579	99	92	28	74	110	160	667	1 166	183	10 255	10 744
Manufacturing	1 801	69	34	20	31	79	109	470	820	169	10 540	10 990
Nonmanufacturing industries	778	30	58	8	43	31	51	197	346	14	9 706	10 201
Linemen and servicemen, telephone and power	512	35	47	45	48	65	114	113	45	—	7 140	7 653
Locomotive engineers and firemen	35	—	—	—	—	—	—	—	30	5	...	...
Mechanics and repairmen	6 240	424	370	159	328	552	1 053	1 823	1 408	123	8 257	8 849
Air conditioning, heating, and refrigeration	158	13	—	5	—	29	36	33	42	—	7 889	...
Aircraft	34	—	—	—	5	—	6	19	4	—	...	...
Automobile, including body	3 563	287	265	98	164	317	577	999	802	54	8 147	8 814
Radio and television	218	17	27	—	29	44	30	39	32	—	6 818	7 471
Other mechanics and repairmen	2 267	107	78	56	130	162	404	733	528	69	8 536	8 981
Metal craftsmen, except mechanics	3 802	197	119	73	181	228	494	1 213	1 165	132	9 004	9 424
Machinists and job and die setters	1 689	48	47	19	71	99	197	586	564	58	9 241	9 633
Sheetmetal workers and tinsmiths	130	18	15	5	5	12	39	21	15	—	7 256	...
Tool and die makers	440	35	9	13	17	21	57	133	134	21	9 023	9 807
Other metal craftsmen	1 543	96	48	36	88	96	201	473	452	53	8 873	9 128
Printing craftsmen	313	45	31	6	21	32	29	106	43	—	7 741	8 569
Compositors and typesetters	120	—	15	4	11	10</						

Table 175. Occupation of the Male 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

Negro—Continued

Experienced civilian labor force—Continued

	Males with earnings in 1969										Median earnings (dollars)	
	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	All earners	Earners worked 50 to 52 weeks
Operatives, except transport	62 556	4 810	4 879	3 024	4 714	7 371	11 745	17 831	7 636	546	7 552	8 133
Assemblers.....	14 826	1 124	1 145	755	1 224	1 905	3 564	3 938	1 136	35	7 354	7 766
Checkers, examiners, and inspectors, manufacturing.....	3 477	206	136	101	210	355	660	1 147	622	40	8 123	8 651
Garage workers and gas station attendants.....	1 043	289	202	104	94	130	85	105	34	—	4 293	6 329
Laundry and drycleaning operatives, n.e.c.....	586	122	74	78	96	93	53	42	23	5	5 198	5 717
Meat cutters and butchers.....	639	42	44	27	74	75	145	131	96	5	7 397	7 754
Mine operatives, n.e.c.....	45	—	—	—	14	5	—	21	5	—	...	...
Packers and wrappers, except produce.....	827	144	131	65	64	114	95	145	69	—	6 083	7 525
Painters, manufactured articles.....	1 395	60	116	76	86	144	193	463	247	10	8 097	8 708
Precision machine operatives.....	2 889	126	176	99	168	330	544	1 012	399	35	8 003	8 468
Sawyers.....	89	12	14	9	7	5	6	10	26	—	...	...
Stationary firemen	480	—	14	15	11	35	65	206	119	15	8 971	8 990
Textile operatives.....	24	5	—	—	4	5	—	5	5	—	...	...
Welders and flamecutters.....	6 652	407	452	250	412	832	1 274	2 189	725	111	7 764	8 348
Other metalworking operatives.....	7 252	364	460	319	478	792	1 447	2 323	989	80	7 838	8 357
Other specified operatives.....	9 544	1 087	900	530	747	1 059	1 553	2 400	1 181	87	7 289	7 915
Miscellaneous and not specified operatives.....	12 788	822	1 015	596	1 025	1 492	2 061	3 694	1 960	123	7 701	8 362
Occupation:												
Machine operatives, miscellaneous specified.....	4 536	265	398	185	337	558	664	1 357	716	56	7 791	8 452
Machine operatives, not specified.....	4 539	263	291	233	363	525	762	1 419	647	36	7 780	8 300
Miscellaneous operatives.....	2 327	184	161	102	193	263	415	614	377	18	7 628	8 295
Not specified operatives.....	1 386	110	165	76	132	146	220	304	220	13	7 291	8 372
Industry:												
Manufacturing	11 788	713	882	523	937	1 336	1 910	3 528	1 847	112	7 787	8 465
Durable goods	10 348	593	731	464	832	1 165	1 680	3 169	1 620	94	7 827	8 499
Wood products, including furniture.....	83	—	19	—	4	5	21	5	29	—	...	...
Primary metal industries.....	1 054	85	67	58	99	108	146	243	234	14	7 753	8 886
Fabricated metal industries.....	584	72	64	23	64	66	79	163	47	6	7 038	8 161
Machinery, including electrical.....	722	27	60	47	75	77	49	291	96	—	8 179	8 873
Motor vehicles and equipment.....	7 442	368	481	319	519	861	1 345	2 320	1 165	64	7 872	8 464
Transportation equipment, except motor vehicles.....	20	4	—	—	—	—	—	13	—	3	...	...
Other durable goods.....	443	37	40	17	71	48	40	134	49	7	7 213	7 980
Nondurable goods	1 348	110	146	59	100	154	202	335	224	18	7 520	8 199
Food and kindred products.....	369	57	37	5	22	55	72	83	38	—	7 118	8 000
Apparel and other fabricated textile products.....	49	—	8	4	13	9	—	15	—	—	...	...
Paper and allied products.....	129	13	15	16	19	11	12	19	24	—	6 136	...
Chemicals and allied products.....	204	21	18	10	5	41	26	48	35	—	7 269	7 841
Other nondurable goods.....	597	19	68	24	41	38	92	170	127	18	8 194	8 800
Not specified manufacturing industries.....	92	10	5	—	5	17	28	24	3	—	...	...
Nonmanufacturing industries	1 000	109	133	73	88	156	151	166	113	11	6 622	7 167
Transportation, communications, and other public utilities.....	146	5	7	—	5	21	39	42	27	—	7 897	8 357
Wholesale and retail trade.....	456	69	44	57	37	71	58	55	65	—	6 296	6 697
All other industries.....	398	35	82	16	46	64	54	69	21	11	6 313	7 167
Transport equipment operatives	12 251	801	784	587	976	1 291	1 808	3 638	2 176	190	7 933	8 463
Bus drivers.....	1 016	53	48	43	31	33	64	383	342	19	9 232	9 450
Taxicab drivers and chauffeurs.....	1 005	78	134	98	164	92	148	164	104	23	6 310	7 044
Truck drivers and deliverymen.....	5 724	328	317	246	460	674	842	1 689	1 037	131	7 994	8 492
Other transport equipment operatives.....	4 506	342	285	200	321	492	754	1 402	693	17	7 813	8 358
Laborers, except farm	16 643	2 976	1 884	972	1 449	1 927	2 394	3 314	1 582	145	6 540	7 517
Construction laborers.....	2 547	244	221	167	236	244	387	551	461	36	7 417	8 133
Freight, stock, and material handlers.....	6 406	1 276	705	341	615	770	916	1 302	462	19	6 345	7 437
Other specified laborers.....	3 915	971	539	240	246	414	475	693	297	40	5 843	7 245
Miscellaneous and not specified laborers.....	3 775	485	419	224	352	499	616	768	362	50	6 817	7 632
Occupation:												
Miscellaneous laborers.....	1 344	107	167	87	103	157	244	269	169	41	7 209	7 877
Not specified laborers.....	2 431	378	252	137	249	342	372	499	193	9	6 583	7 472
Industry:												
Manufacturing	2 669	301	312	145	233	316	429	605	282	46	7 064	7 888
Durable goods	2 387	252	297	132	202	278	380	540	267	39	7 086	7 886
Wood products, including furniture.....	22	6	6	4	6	—	—	—	—	—	...	...
Metal industries.....	625	96	118	34	46	105	79	98	45	4	6 176	7 102
Machinery, including electrical.....	106	16	12	15	8	10	9	31	5	—	6 200	...
Transportation equipment.....	1 526	123	144	67	138	151	283	372	217	31	7 495	8 183
Other durable goods.....	108	11	17	12	10	6	9	39	—	4	6 667	...
Nondurable goods	250	49	15	13	31	21	49	55	10	7	6 810	7 787
Food and kindred products.....	131	32	15	—	18	18	28	20	—	—	6 028	...
Not specified manufacturing industries.....	32	—	—	—	—	17	—	10	5	—	...	...
Nonmanufacturing industries	1 106	184	107	79	119	183	187	163	80	4	6 350	7 240
Railroads and railway express service.....	93	12	5	—	5	21	16	23	11	—	...	...
Transportation, except railroads.....	45	5	15	—	10	11	—	4	—	—	...	...
Communications, and utilities and sanitary services.....	249	17	10	22	5	31	63	77	20	4	7 627	7 763
Wholesale and retail trade.....	332	69	41	17	55	54	56	13	27	—	5 709	6 923
All other industries.....	387	81	36	40	44	66	52	46	22	—	5 830	6 793
Farmers and farm managers	135	39	57	—	—	—	6	18	4	—	3 000	3 000
Farm laborers and farm foremen	290	119	21	15	46	12	47	30	—	—	4 333	5 647
Paid farm laborers and farm foremen	290	119	21	15	46	12	47	30	—	—	4 333	5 647
Unpaid family workers	—	—	—	—	—	—	—	—	—	—	—	—
Service workers, except private household¹	18 290	3 227	2 261	1 453	1 891	2 423	2 214	2 941	1 600	280	6 129	7 071
Cleaning service workers.....	9 715	1 352	1 084	836	1 107	1 535	1 272	1 723	703	103	6 312	6 959
Food service workers.....	2 003	677	471	109	152	141	157	162	114	20	3 378	6 016
Cooks, except private household.....	570	143	103	50	62	41	76	47	42	6	4 780	6 583
Busboys and dishwashers.....	597	350	162	15	30	21	10	9	—	—	1 706	2 932
Health service workers.....	1 011	198	162	57	98	195	123	72	77	29	5 903	6 737
Personal service workers.....	1 326	258	200	142	166	142	125	130	116	47	5 380	6 495
Protective service workers.....	2 233	232	130	108	177	189	299	598	455	45	7 938	8 623
Firemen, fire protection.....	95	—	5	—	—	5	29	23	25	8	...	...
Guards and watchmen.....	1 380	180	105	97	155	149	187	260	231	16	7 021	7 872
Policemen and detectives.....	709	40	13	11	22	35	83	299	189	17	9 007	9 255
Private household workers	195	93	56	17	5	6	13	—	5	—	2 161	...

¹Includes allocated cases not shown separately.

Table 175. Occupation of the Male 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

Persons of Spanish Language

Experienced civilian labor force

	Males with earnings in 1969										Median earnings (dollars)	
	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	All earners	Earners worked 50 to 52 weeks
Experienced civilian labor force	13 183	1 153	743	511	609	1 014	1 501	3 013	3 342	1 297	8 704	9 519
Professional, technical, and kindred workers	1 637	100	48	90	36	50	87	263	487	496	11 586	12 706
Accountants	82	8	—	—	—	—	13	36	19	6	—	—
Architects	21	—	—	—	—	—	—	—	7	14	—	—
Computer specialists	37	—	—	—	—	—	—	18	19	—	—	—
Engineers	314	24	6	—	—	8	18	22	135	101	12 926	13 578
Aeronautical and astronautical	—	—	—	—	—	—	—	—	—	—	—	—
Civil	21	—	—	—	—	—	8	6	—	7	—	—
Electrical and electronic	49	—	—	—	—	—	—	—	29	20	—	—
Mechanical	93	8	6	—	—	—	—	—	52	27	—	—
Other engineers	151	16	—	—	—	8	10	16	54	47	12 361	12 778
Lawyers and judges	14	—	—	—	—	—	—	—	5	9	—	—
Life and physical scientists	11	—	—	—	—	—	—	—	6	5	—	—
Chemists	6	—	—	—	—	—	—	—	6	—	—	—
Physicians, dentists, and related practitioners	346	6	6	29	—	28	23	32	62	160	13 952	14 234
Dentists	7	—	—	—	—	—	—	—	7	—	—	—
Pharmacists	19	6	—	—	—	—	—	7	6	—	—	—
Physicians, medical and osteopathic	299	—	6	29	—	28	23	25	35	153	15000+	15000+
Other related practitioners	21	—	—	—	—	—	—	—	21	—	—	—
Health technologists and technicians	26	12	—	—	—	—	—	7	7	—	—	—
Religious workers	8	—	—	—	8	—	—	—	—	—	—	—
Social scientists	21	—	—	—	—	—	—	14	—	7	—	—
Social and recreation workers	11	—	5	6	—	—	—	—	—	—	—	—
Teachers	159	22	14	11	7	14	6	21	41	23	8 524	—
College and university	36	16	7	6	7	—	—	—	—	—	—	—
Elementary and prekindergarten	50	—	7	5	—	—	—	21	—	17	—	—
Secondary	52	6	—	—	—	14	—	—	—	6	—	—
Engineering and science technicians	242	13	10	14	11	—	11	43	85	55	11 118	12 405
Draftsmen and surveyors	178	7	—	14	11	—	5	30	64	47	11 719	13 147
Electrical and electronic engineering technicians	15	—	—	—	—	—	—	—	7	8	—	—
Technicians, except health, and engineering and science	7	—	—	—	—	—	—	—	—	7	—	—
Airplane pilots	7	—	—	—	—	—	—	—	—	—	—	—
Writers, artists, and entertainers	192	15	7	5	—	—	—	34	81	50	12 160	12 394
Other professional, technical, and kindred workers	166	—	—	25	10	—	16	36	20	59	9 778	11 250
Managers and administrators, except farm	724	38	31	7	10	34	80	181	169	174	9 790	9 856
Buyers, purchasing agents, and sales managers	85	—	10	—	—	—	7	15	40	13	—	—
School administrators	5	—	—	—	—	—	—	—	—	5	—	—
Specified managers and administrators, public administration	25	—	—	—	—	8	4	13	—	—	—	—
Other specified managers and administrators	177	13	—	7	—	—	5	45	63	44	11 468	12 193
Managers and administrators, n.e.c., salaried	314	15	6	—	10	14	51	88	44	86	9 386	9 318
Manufacturing	104	—	—	—	—	7	8	28	14	47	13 214	—
Wholesale and retail trade	89	7	6	—	10	—	14	46	6	—	—	—
Transportation, communications, and other public utilities	37	8	—	—	—	—	—	7	9	13	—	—
All other industries	84	—	—	—	—	7	29	7	15	26	—	—
Managers and administrators, n.e.c., self-employed	118	10	15	—	—	12	13	20	22	26	8 900	—
Construction	—	—	—	—	—	—	—	—	—	—	—	—
Manufacturing	25	—	—	—	—	—	7	9	—	9	—	—
Wholesale and retail trade	72	10	—	—	—	12	6	5	22	17	—	—
All other industries	21	—	15	—	—	—	—	6	—	—	—	—
Sales workers	527	49	40	—	27	39	42	110	149	71	9 209	9 844
Insurance agents, brokers, and underwriters	74	—	7	—	—	—	16	37	14	—	—	—
Real estate agents and brokers	36	—	—	—	22	8	—	—	6	—	—	—
Sales representatives, manufacturing industries	82	—	—	—	—	—	—	20	35	27	—	—
Sales representatives, wholesale trade	93	12	6	—	5	16	14	12	20	8	—	—
Sales clerks, retail trade	102	25	21	—	—	9	6	12	16	13	6 556	—
Salesmen, retail trade	58	—	—	—	—	—	6	22	23	7	—	—
Salesmen of services and construction	24	—	—	—	—	—	—	—	17	9	—	—
Other sales workers	58	12	6	—	—	6	—	7	18	—	—	—
Clerical and kindred workers	895	71	117	37	20	60	117	238	205	30	8 214	8 778
Bank tellers and cashiers	39	3	11	6	—	—	6	6	7	—	—	—
Bookkeepers and billing clerks	17	6	—	—	—	5	—	6	—	—	—	—
Mail handlers and postal clerks	49	—	9	8	—	—	—	16	16	—	—	—
Other clerical and kindred workers	790	62	97	23	20	55	95	210	198	30	8 410	8 994
Craftsmen and kindred workers	2 835	115	85	88	97	211	261	524	1 072	382	10 170	11 138
Apparel craftsmen and upholsterers	18	—	—	—	—	—	5	—	13	—	—	—
Bakers	19	9	—	—	—	—	—	—	—	10	—	—
Cabinetmakers	8	—	—	—	—	—	—	—	—	—	—	—
Construction craftsmen	508	14	20	12	28	46	57	108	171	52	9 426	10 105
Carpenters	113	6	6	—	5	7	8	28	33	20	9 750	—
Excavating, grading, and road machine operators	46	—	7	—	8	—	13	—	18	—	—	—
Electricians	95	—	—	—	8	—	24	15	41	7	—	—
Masons and tile setters	31	—	—	—	—	—	7	14	10	—	—	—
Painters, construction and maintenance, and paperhangers	70	8	—	12	7	—	—	12	31	—	—	—
Plasterers and cement finishers	17	—	—	—	—	—	5	5	7	—	—	—
Plumbers and pipe fitters	99	—	7	—	—	21	—	34	24	13	—	—
Other construction craftsmen	37	—	—	—	—	18	—	—	7	12	—	—
Foremen, n.e.c.	370	12	6	8	12	9	9	50	186	78	12 124	12 634
Manufacturing	223	12	—	—	—	9	—	36	105	61	12 595	12 781
Nonmanufacturing industries	147	—	6	8	12	—	9	14	81	17	11 512	—
Linemen and servicemen, telephone and power	96	16	—	—	5	7	22	—	41	5	—	—
Locomotive engineers and firemen	7	7	—	—	—	—	—	—	—	—	—	—
Mechanics and repairmen	750	31	30	34	6	63	62	161	315	48	9 851	10 830
Air conditioning, heating, and refrigeration	6	—	—	—	—	—	—	—	6	—	—	—
Aircraft	19	—	—	—	—	—	—	7	12	—	—	—
Automobile, including body	335	31	5	14	—	17	27	89	131	21	9 652	10 278
Radio and television	63	—	—	—	6	—	—	13	35	—	—	—
Other mechanics and repairmen	327	—	25	20	—	37	35	52	131	27	9 788	11 140
Metal craftsmen, except mechanics	574	11	13	5	26	35	38	111	222	113	11 081	12 424
Machinists and job and die setters	108	—	—	—	7	7	11	30	40	13	9 933	—
Sheetmetal workers and tinsmiths	36	5	—	—	—	—	10	—	6	—	—	—
Tool and die makers	237	6	13	—	—	21	7	20	99	64	12 247	14 286
Other metal craftsmen	193	—	—	5	12	7	10	61	77	21	10 097	10 820
Printing craftsmen	40	—	—	—	7	—	8	24	24	8	—	—
Compositors and typesetters	40	—	—	—	—	—	—	9	24	—	—	—
Pressmen and plate printers, printing	44	—	—	8	—	—	—	8	15	—	—	—
Stationary engineers and power station operators	38	—	—	—	—	—	13	7	6	12	—	—
Other craftsmen and kindred workers	363	7	16	21	13	46	47	63	94	56	9 000	9 690

Table 175. Occupation of the Male 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

Persons of Spanish Language—Continued

Experienced civilian labor force—Continued

	Males with earnings in 1969										Median earnings (dollars)	
	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	All earners	Earners worked 50 to 52 weeks
Operatives, except transport	3 633	293	229	121	162	292	574	1 170	723	69	8 249	8 860
Assemblers.....	888	52	57	18	103	99	195	277	79	8	7 590	8 220
Checkers, examiners, and inspectors; manufacturing	156	19	—	—	—	6	35	48	—	—	8 750	—
Garage workers and gas station attendants.....	44	6	20	—	4	7	—	7	—	—	—	—
Laundry and drycleaning operatives, n.e.c.....	28	13	—	—	—	7	—	8	—	—	—	—
Meat cutters and butchers.....	62	—	6	—	—	—	8	39	9	—	—	—
Mine operatives, n.e.c.....	31	—	—	—	—	11	8	12	—	—	—	—
Packers and wrappers, except produce.....	65	23	—	—	5	13	—	18	6	—	—	—
Painters, manufactured articles.....	108	—	10	15	—	—	18	33	32	—	8 667	—
Precision machine operatives.....	314	35	24	—	—	—	61	116	78	—	8 638	8 986
Sawyers.....	5	—	5	—	—	—	—	—	—	—	—	—
Stationary firemen.....	28	—	8	—	—	—	5	—	15	—	—	—
Textile operatives.....	—	—	—	—	—	—	—	—	—	—	—	—
Welders and flamecutters.....	346	18	6	33	7	22	27	156	77	—	8 769	9 069
Other metalworking operatives.....	300	4	31	21	15	25	67	91	32	14	7 806	8 681
Other specified operatives.....	326	59	12	6	10	22	34	68	102	13	8 588	9 282
Miscellaneous and not specified operatives.....	932	64	50	28	18	80	116	297	245	34	8 741	9 117
Occupation:												
Machine operatives, miscellaneous specified.....	315	35	17	6	—	20	37	130	63	7	8 654	9 147
Machine operatives, not specified.....	264	5	13	7	—	44	36	76	69	14	8 711	8 782
Miscellaneous operatives.....	208	24	20	—	3	—	22	72	61	6	8 972	9 400
Not specified operatives.....	145	—	—	15	15	16	21	19	52	7	8 579	9 000
Industry:												
Manufacturing	801	19	50	28	13	74	116	228	245	28	8 882	9 153
Durable goods.....	665	19	44	22	10	46	90	206	200	28	8 985	9 231
Wood products, including furniture.....	—	—	—	—	—	—	—	—	—	—	—	—
Primary metal industries.....	172	11	20	5	5	5	31	57	38	—	8 316	8 822
Fabricated metal industries.....	78	8	7	10	—	5	7	16	25	—	—	—
Machinery, including electrical.....	63	—	10	—	—	9	11	20	13	—	—	—
Motor vehicles and equipment.....	325	—	7	7	5	27	41	100	110	28	9 510	9 806
Transportation equipment, except motor vehicles	—	—	—	—	—	—	—	—	—	—	—	—
Other durable goods.....	27	—	—	—	—	—	—	13	14	—	—	—
Nondurable goods.....	132	—	6	6	3	24	26	22	45	—	8 091	—
Food and kindred products.....	64	—	6	6	—	16	11	7	18	—	—	—
Apparel and other fabricated textile products	5	—	—	—	—	—	5	—	—	—	—	—
Paper and allied products.....	10	—	—	—	—	—	10	—	—	—	—	—
Chemicals and allied products.....	26	—	—	—	—	—	—	15	11	—	—	—
Other nondurable goods.....	27	—	—	—	3	8	—	—	16	—	—	—
Not specified manufacturing industries.....	4	—	—	—	4	—	—	—	—	—	—	—
Nonmanufacturing industries	131	45	—	—	5	6	—	69	—	6	8 275	—
Transportation, communications, and other public utilities	36	17	—	—	—	—	—	19	—	—	—	—
Wholesale and retail trade.....	61	21	—	—	5	6	—	29	—	—	—	—
All other industries.....	34	7	—	—	—	—	—	21	—	6	—	—
Transport equipment operatives	749	51	31	24	77	39	82	208	224	13	8 678	9 189
Bus drivers.....	18	—	—	—	—	—	—	13	5	—	—	—
Taxicab drivers and chauffeurs.....	27	—	11	—	16	—	—	—	—	—	—	—
Truck drivers and deliverymen.....	460	25	6	18	41	25	46	114	172	13	9 211	9 753
Other transport equipment operatives.....	244	26	14	6	20	14	36	81	47	—	8 148	8 818
Laborers, except farm	1 156	236	113	54	107	144	108	215	141	38	6 472	7 810
Construction laborers.....	174	17	32	12	9	29	35	13	18	9	6 586	—
Freight, stock, and material handlers.....	484	118	57	32	37	74	21	88	51	6	5 946	6 974
Other specified laborers.....	108	27	6	10	8	11	5	6	20	15	6 273	—
Miscellaneous and not specified laborers.....	390	74	18	—	53	30	47	108	52	8	7 426	8 350
Occupation:												
Miscellaneous laborers.....	159	9	13	—	18	30	17	26	46	—	7 559	—
Not specified laborers.....	231	65	5	—	35	—	30	82	6	8	7 350	—
Industry:												
Manufacturing	283	59	13	—	37	15	30	82	39	8	7 583	8 478
Durable goods.....	258	44	8	—	37	15	30	77	39	8	7 833	8 609
Wood products, including furniture.....	—	—	—	—	—	—	—	—	—	—	—	—
Metal industries.....	175	39	8	—	37	—	7	62	14	8	7 500	—
Machinery, including electrical.....	—	—	—	—	—	—	—	—	—	—	—	—
Transportation equipment.....	78	5	—	—	—	15	18	15	25	—	—	—
Other durable goods.....	5	—	—	—	—	—	5	—	—	—	—	—
Nondurable goods.....	25	15	5	—	—	—	—	5	—	—	—	—
Food and kindred products.....	6	6	—	—	—	—	—	—	—	—	—	—
Not specified manufacturing industries.....	—	—	—	—	—	—	—	—	—	—	—	—
Nonmanufacturing industries	107	15	5	—	16	15	17	26	13	—	7 147	—
Railroads and railway express service.....	66	—	5	—	11	12	11	20	7	—	—	—
Transportation, except railroads.....	—	—	—	—	—	—	—	—	—	—	—	—
Communications, and utilities and sanitary services	—	—	—	—	—	—	—	—	—	—	—	—
Wholesale and retail trade.....	30	7	—	—	5	—	6	6	6	—	—	—
All other industries.....	11	8	—	—	—	3	—	—	—	—	—	—
Farmers and farm managers	—	—	—	—	—	—	—	—	—	—	—	—
Farm laborers and farm foremen	41	5	15	6	7	8	—	—	—	—	—	—
Paid farm laborers and farm foremen.....	41	5	15	6	7	8	—	—	—	—	—	—
Unpaid family workers.....	—	—	—	—	—	—	—	—	—	—	—	—
Service workers, except private household¹	960	195	34	84	66	137	150	104	166	24	6 737	7 556
Cleaning service workers.....	396	89	9	41	28	71	70	41	43	4	6 437	7 259
Food service workers.....	285	101	14	27	22	34	43	21	23	—	5 023	6 750
Cooks, except private household.....	94	27	—	16	16	5	11	13	6	—	—	—
Busboys and dishwashers.....	61	48	7	6	—	—	—	—	—	—	—	—
Health service workers.....	14	—	—	—	—	—	—	—	8	6	—	—
Personal service workers.....	85	—	11	9	—	8	24	13	14	6	—	—
Protective service workers.....	150	—	—	—	16	13	6	29	78	8	10 705	11 090
Firemen, fire protection.....	34	—	—	—	—	—	—	6	28	—	—	—
Guards and watchmen.....	33	—	—	—	16	6	—	7	4	—	—	—
Policemen and detectives.....	83	—	—	—	—	7	6	16	46	8	—	—
Private household workers	6	—	—	—	—	—	—	—	6	—	—	—

¹Includes allocated cases not shown separately.

Table 175. Occupation of the Male 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

	Males with earnings in 1969										Median earnings (dollars)		
	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	All earners	Earners worked 50 to 52 weeks	
Total	120 121	9 629	7 015	3 604	5 255	7 044	11 744	28 701	34 705	12 424	9 099	9 912	
Experienced civilian labor force	12 142	601	715	409	447	400	617	1 660	4 644	2 649	11 316	12 388	
Professional, technical, and kindred workers	730	23	25	10	31	26	13	83	332	187	12 319	12 911	
Accountants	68	4	—	—	—	—	—	13	26	25	...	...
Architects	248	12	6	—	6	10	22	4	139	49	12 302	12 284	
Computer specialists	2 091	42	45	121	95	19	28	155	1 027	559	12 631	13 323	
Engineers	6	—	—	—	6	—	—	—	—	—	...	...
Aeronautical and astronautical	140	5	—	14	—	—	—	20	67	34	12 313	12 759	
Civil	216	8	—	15	20	4	6	21	103	39	11 650	12 670	
Electrical and electronic	768	16	24	42	40	5	17	26	369	229	12 900	13 671	
Mechanical	961	13	21	50	29	10	5	88	488	257	12 710	13 263	
Other engineers	272	5	5	—	—	—	3	5	62	192	15 000+	15 000+	
Lawyers and judges	187	—	—	—	5	—	—	35	106	24	11 722	12 206	
Life and physical scientists	155	—	—	—	5	—	—	17	35	90	8	11 139	11 686
Chemists	1 118	43	32	6	33	19	79	73	137	696	15 000+	15 000+	
Physicians, dentists, and related practitioners	159	—	10	—	4	—	10	10	10	115	15 000+	...	
Dentists	216	17	—	—	26	—	5	10	61	97	14 098	15 000+	
Pharmacists	637	26	18	6	3	19	60	47	31	427	15 000+	15 000+	
Physicians, medical and osteopathic	106	—	—	—	—	—	—	—	—	—	15 000+	...	
Other related practitioners	163	18	19	6	11	—	4	6	35	57	8 882	9 304	
Health technologists and technicians	464	50	63	32	66	55	59	76	45	18	6 382	6 745	
Religious workers	113	—	5	—	8	15	5	11	45	24	11 389	...	
Social scientists	225	19	29	21	10	3	21	39	79	4	8 487	10 190	
Social and recreation workers	2 657	113	191	44	38	157	195	595	1 113	211	9 985	11 157	
Teachers	422	6	—	5	11	—	15	24	272	89	12 757	12 923	
College and university	688	50	67	4	9	70	46	176	227	39	9 114	9 337	
Elementary and prekindergarten	1 463	41	109	35	18	83	131	390	578	78	9 613	10 724	
Secondary	1 631	124	210	103	45	38	72	220	579	240	10 030	11 852	
Engineering and science technicians	859	44	63	35	22	38	25	97	347	188	11 520	12 216	
Draftsmen and surveyors	69	—	—	4	—	—	14	13	33	5	...	...
Electrical and electronic engineering technicians	111	11	7	—	5	3	6	19	48	12	10 469	...	
Technicians, except health, and engineering and science	22	—	—	—	—	3	—	—	11	8	...	...
Airplane pilots	636	72	31	17	10	15	13	73	290	115	11 500	12 415	
Writers, artists, and entertainers	1 428	65	47	49	84	40	79	208	573	283	11 239	11 683	
Other professional, technical, and kindred workers	7 850	251	224	135	180	260	381	1 117	2 588	2 714	12 660	13 016	
Managers and administrators, except farm	922	19	13	4	32	38	58	215	254	289	11 614	11 996	
Buyers, purchasing agents, and sales managers	362	4	7	—	—	—	—	129	222	15 000+	15 000+	...	
School administrators	441	10	10	4	11	15	14	115	173	89	11 199	11 494	
Specified managers and administrators, public administration	1 356	69	46	20	34	81	71	257	408	370	11 225	11 854	
Other specified managers and administrators	3 575	89	83	58	61	47	164	397	1 328	1 348	13 345	13 677	
Managers and administrators, n.e.c., salaried	748	11	15	13	—	9	6	24	259	411	15 000+	15 000+	
Manufacturing	1 397	42	54	30	35	24	114	196	519	383	11 961	12 326	
Wholesale and retail trade	274	—	—	—	—	4	7	35	120	108	13 792	13 941	
Transportation, communications, and other public utilities	1 156	36	14	15	26	10	37	142	430	446	13 465	13 720	
All other industries	1 194	60	65	49	42	79	74	133	296	396	11 605	12 102	
Managers and administrators, n.e.c., self-employed	234	3	22	9	4	15	8	33	57	83	12 018	13 929	
Construction	70	5	5	7	—	—	6	—	9	38	...	...
Manufacturing	674	26	38	19	30	60	60	70	184	187	10 924	11 217	
Wholesale and retail trade	216	26	—	14	8	4	—	30	46	88	12 826	12 903	
All other industries	5 535	819	441	164	246	309	409	815	1 340	992	8 931	10 573	
Sales workers	664	17	19	33	25	47	47	85	185	208	11 595	12 959	
Insurance agents, brokers, and underwriters	430	22	43	18	24	46	40	44	71	122	9 000	10 735	
Real estate agents and brokers	400	24	6	5	6	—	42	35	176	106	12 330	12 758	
Sales representatives, manufacturing industries	843	30	39	24	25	14	81	206	277	147	10 045	10 830	
Sales representatives, wholesale trade	1 425	477	224	54	84	103	95	146	142	100	4 213	7 906	
Sales clerks, retail trade	948	66	41	56	37	43	84	177	329	155	10 152	10 995	
Salesmen, retail trade	229	19	17	—	9	16	5	49	71	43	9 980	10 943	
Salesmen of services and construction	596	164	52	14	36	40	15	73	89	113	6 800	9 365	
Other sales workers	6 721	479	394	211	272	337	683	1 911	2 106	328	9 030	9 621	
Clerical and kindred workers	294	79	115	8	18	17	15	24	18	—	3 183	5 409	
Bank tellers and cashiers	503	29	26	23	17	18	32	113	194	51	9 885	10 566	
Bookkeepers and billing clerks	445	37	17	—	30	30	58	223	46	4	8 453	8 716	
Mail handlers and postal clerks	5 479	334	236	180	207	272	578	1 551	1 848	273	9 202	9 776	
Other clerical and kindred workers	31 756	1 195	1 089	515	845	1 153	2 184	6 085	14 240	4 450	10 987	11 642	
Craftsmen and kindred workers	149	7	18	4	10	13	19	49	16	13	8 143	...	
Apparel craftsmen and upholsterers	93	21	25	5	10	11	—	7	9	5	...	...
Bakers	82	13	15	5	5	5	11	11	10	7	...	...
Cabinetmakers	6 366	260	325	143	232	276	474	1 125	2 754	777	10 632	11 683	
Construction craftsmen	1 425	87	98	53	75	115	110	212	528	147	9 646	11 378	
Carpenters	601	35	29	16	24	27	71	206	138	55	8 956	9 390	
Excavating, grading, and road machine operators	1 670	19	27	21	31	32	72	190	1 022	256	12 167	12 431	
Electricians	373	—	31	16	22	10	21	80	133	60	10 244	11 821	
Masons and tile setters	528	53	62	19	30	31	49	125	143	16	8 320	9 614	
Painters, construction and maintenance, and paperhangers	164	3	14	5	10	7	8	63	45	9	9 111	...	
Plasterers and cement finishers	1 243	51	45	10	15	32	96	179	626	189	11 546	12 185	
Plumbers and pipe fitters	362	12	19	3	25	22	47	70	119	45	9 514	10 735	
Other construction craftsmen	4 946	69	33	35	60	28	123	480	2 442	1 676	13 368	13 621	
Foremen, n.e.c.	4 032	52	28	31	34	11	51	300	2 022	1 503	13 731	13 941	
Manufacturing	914	17	5	4	26	17	72	180	420	173	11 619	12 030	
Nonmanufacturing industries	615	20	40	9	40	45	39	151	236	35	9 517	10 724	
Linemen and servicemen, telephone and power	44	5	—	6	—	—	—	6	27	—	...	...
Locomotive engineers and firemen	7 036	336	300	147	237	390	572	1 767	2 803	484	9 739	10 333	
Mechanics and repairmen	160	9	—	14	5	4	15	4	109	—	11 330	11 705	
Air conditioning, heating, and refrigeration	11	—	—	—	—	—	—	5	6	—	...	...
Aircraft	3 773	185	180	81	161	297	370	1 098	1 261	140	9 116	9 508	
Automobile, including body	188	13	14	5	21	—	—	70	61	4	9 171	9 378	
Radio and television	2 904	129	106	47	71	68	187	590	1 366	340	10 930	11 420	
Other mechanics and repairmen	8 580	174	101	64	98	215	526	1 721	4 584	1 097	11 517	11 797	
Metal craftsmen, except mechanics	2 882	55	29	18	52	97	280	917	1 292	142	9 985	10 498	
Machinists and job and die setters	530	8	4	10	11	21	40	65	337	34	11 573	11 891	
Sheetmetal workers and tinsmiths	3 521	44	33	32	25	45	101	472	2 050	719	12 460	12 667	
Tool and die makers	1 647	67	35	4	10	52	105	267	905	202	11 566	11 832	
Other metal craftsmen	271	18	14	9	10								

Table 175. Occupation of the Male 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

Total—Continued

Experienced civilian labor force—Continued

	Males with earnings in 1969										Median earnings (dollars)	
	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	All earners	Earners worked 50 to 52 weeks
Operatives, except transport	32 481	1 802	2 000	1 239	1 887	2 750	4 895	11 626	5 691	591	8 287	8 880
Assemblers.....	8 741	302	641	429	687	1 013	1 482	3 219	925	43	7 876	8 498
Checkers, examiners, and inspectors; manufacturing.....	3 759	73	78	61	162	248	537	1 636	900	64	8 881	9 142
Garage workers and gas station attendants.....	1 092	496	262	57	53	99	45	46	29	5	2 382	6 000
Laundry and drycleaning operatives, n.e.c.....	153	47	3	6	14	27	23	18	9	6	6 241	...
Meat cutters and butchers.....	318	28	15	7	10	26	70	94	64	4	8 064	8 424
Mine operatives, n.e.c.....	70	6	6	7	8	—	—	38	—	5	...	...
Packers and wrappers, except produce.....	395	9	27	—	47	30	76	159	47	—	8 107	8 415
Painters, manufactured articles.....	907	42	28	32	52	43	130	321	239	20	8 788	9 173
Precision machine operatives.....	2 145	64	52	48	72	107	255	722	745	80	9 314	9 765
Sawyers.....	62	2	—	—	—	10	10	17	23	—	...	...
Stationary firemen	169	—	6	—	—	—	9	32	104	18	11 803	12 260
Textile operatives.....	27	—	—	—	4	10	9	4	—	—	...	...
Welders and flamecutters.....	2 559	119	128	111	123	188	389	766	656	79	8 578	9 324
Other metalworking operatives.....	3 612	121	211	114	153	279	603	1 584	521	26	8 410	8 797
Other specified operatives.....	3 058	227	231	155	240	216	364	987	539	99	8 195	8 871
Miscellaneous and not specified operatives.....	5 414	266	312	212	262	454	893	1 983	890	142	8 311	8 908
Occupation:												
Machine operatives, miscellaneous specified.....	1 536	81	70	54	76	144	248	586	245	32	8 324	8 926
Machine operatives, not specified.....	2 052	68	115	79	100	192	372	762	319	45	8 262	8 805
Miscellaneous operatives.....	1 008	83	85	42	46	71	125	314	218	24	8 331	8 970
Not specified operatives.....	818	34	42	37	40	47	148	321	108	41	8 380	9 054
Industry:												
Manufacturing	5 115	218	273	212	247	416	849	1 908	850	142	8 359	8 941
Durable goods.....	4 845	191	266	195	247	392	797	1 803	817	137	8 371	8 949
Wood products, including furniture.....	34	—	17	—	—	—	—	12	—	5	...	...
Primary metal industries.....	94	5	6	11	17	20	18	13	4	—	...	...
Fabricated metal industries.....	173	5	24	11	15	7	26	62	23	—	7 942	...
Machinery, including electrical.....	147	11	10	5	20	9	14	44	11	23	8 205	8 718
Motor vehicles and equipment.....	4 229	138	186	158	190	341	729	1 618	760	109	8 460	9 009
Transportation equipment, except motor vehicles.....	42	4	12	10	—	5	—	11	—	—	...	...
Other durable goods.....	126	28	11	—	5	10	10	43	19	—	7 900	...
Nondurable goods.....	266	27	7	17	—	24	52	101	33	5	8 119	8 815
Food and kindred products.....	48	10	—	—	—	10	24	4	—	—	...	...
Apparel and other fabricated textile products.....	13	—	—	—	—	8	5	—	—	—	...	...
Paper and allied products.....	79	17	2	—	—	20	6	23	11	—	...	...
Chemicals and allied products.....	101	—	—	17	—	4	18	49	13	—	8 469	...
Other nondurable goods.....	25	—	5	—	—	10	—	—	5	5	...	...
Not specified manufacturing industries.....	4	—	—	—	—	—	4	—	—	—	...	...
Nonmanufacturing industries	299	48	39	—	15	38	44	75	40	—	7 216	8 085
Transportation, communications, and other public utilities.....	33	5	—	—	—	4	—	24	—	—	...	...
Wholesale and retail trade.....	155	30	22	—	6	11	28	33	25	—	7 304	8 091
All other industries.....	111	13	17	—	9	23	16	18	15	—	6 717	...
Transport equipment operatives	6 734	350	289	226	431	549	753	2 153	1 734	249	8 714	9 123
Bus drivers.....	90	—	23	4	15	31	11	6	—	—	...	...
Taxicab drivers and chauffeurs.....	356	34	30	35	33	25	22	55	118	4	7 955	9 000
Truck drivers and deliverymen.....	4 774	231	144	132	284	379	544	1 523	1 302	235	8 884	9 184
Other transport equipment operatives.....	1 514	85	92	55	99	114	176	569	314	10	8 478	9 084
Laborers, except farm	7 351	1 785	769	249	366	547	965	1 884	723	63	6 926	8 292
Construction laborers.....	874	128	83	33	61	64	135	210	137	23	7 504	9 302
Freight, stock, and material handlers.....	4 001	1 087	382	133	129	299	495	1 089	364	23	6 901	8 337
Other specified laborers.....	1 509	405	224	48	123	102	149	325	116	17	5 630	8 000
Miscellaneous and not specified laborers.....	967	165	80	35	53	82	186	260	106	—	7 368	8 043
Occupation:												
Miscellaneous laborers.....	352	38	17	8	19	49	83	97	41	—	7 542	7 977
Not specified laborers.....	615	127	63	27	34	33	103	163	65	—	7 228	8 092
Industry:												
Manufacturing	680	55	51	17	35	68	150	218	86	—	7 760	8 425
Durable goods.....	631	45	51	11	25	63	150	205	81	—	7 803	8 416
Wood products, including furniture.....	14	7	—	—	—	—	—	—	—	—	...	...
Metal industries.....	48	—	10	—	—	16	11	5	6	—	...	...
Machinery, including electrical.....	14	—	—	—	—	—	—	7	—	—	...	...
Transportation equipment.....	528	20	34	11	25	47	139	193	59	—	7 914	8 494
Other durable goods.....	27	18	—	—	—	—	—	9	—	—	...	...
Nondurable goods.....	46	10	—	6	10	5	—	10	5	—	...	...
Food and kindred products.....	22	—	—	—	6	5	—	6	5	—	...	...
Not specified manufacturing industries.....	3	—	—	—	—	—	—	3	—	—	...	...
Nonmanufacturing industries	287	110	29	18	18	14	36	42	20	—	4 250	6 850
Railroads and railway express service.....	42	4	6	—	4	3	5	14	6	—	...	...
Transportation, except railroads.....	11	6	—	—	—	—	—	5	—	—	...	...
Communications, and utilities and sanitary services.....	59	5	—	8	8	7	13	14	4	—	...	...
Wholesale and retail trade.....	70	34	13	5	5	4	4	5	—	—	...	...
All other industries.....	105	61	10	5	6	—	14	9	—	—	1 721	...
Farmers and farm managers	969	249	139	73	80	61	54	102	97	114	5 294	5 549
Farm laborers and farm foremen	629	321	113	55	49	37	13	22	19	—	1 960	3 057
Paid farm laborers and farm foremen.....	604	310	103	55	49	37	13	22	15	—	1 948	3 326
Unpaid family workers.....	25	11	10	—	—	—	—	—	4	—	...	...
Service workers, except private household¹	7 924	1 752	838	328	452	641	790	1 326	1 523	274	6 924	8 575
Cleaning service workers.....	3 420	580	376	171	215	411	528	712	371	56	6 895	7 671
Food service workers.....	1 097	696	106	45	40	27	39	57	76	11	1 576	7 379
Cooks, except private household.....	485	259	55	14	26	22	27	37	34	11	1 873	6 955
Busboys and dishwashers.....	267	239	23	—	—	5	—	—	—	—	1 117	...
Health service workers.....	429	67	77	25	64	50	45	90	11	—	5 711	6 790
Personal service workers.....	733	162	100	44	74	54	79	111	66	43	5 818	7 531
Protective service workers.....	1 800	142	62	35	45	60	58	306	939	153	11 022	11 622
Firemen, fire protection.....	286	—	—	—	6	—	—	43	189	48	12 487	12 527
Guards and watchmen.....	632	33	27	9	15	15	19	77	383	54	11 580	11 933
Policemen and detectives.....	719	48	19	15	18	27	34	145	362	51	10 739	11 243
Private household workers	29	25	4	—	—	—	—	—	—	—	...	...

¹Includes allocated cases not shown separately.

Table 175. Occupation of the Male 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	Males with earnings in 1969										Median earnings (dollars)	
	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	All earners	Earners worked 50 to 52 weeks
FLINT SMSA — Continued												
Negro												
Experienced civilian labor force	12 777	1 034	974	569	832	1 278	2 173	3 883	1 805	229	7 783	8 476
Professional, technical, and kindred workers	456	25	42	27	16	28	43	106	144	25	8 887	9 643
Accountants	15	—	11	—	—	—	4	—	—	—	...	...
Architects .....	—	—	—	—	—	—	—	—	—	—	...	...
Computer specialists	5	—	—	—	—	5	—	—	—	—	...	...
Engineers	23	—	—	8	—	—	—	5	10	—	...	...
Aeronautical and astronautical .....	—	—	—	—	—	—	—	—	—	—	...	...
Civil	8	—	—	8	—	—	—	—	—	—	...	...
Electrical and electronic	10	—	—	—	—	—	—	5	5	—	...	...
Mechanical .....	—	—	—	—	—	—	—	—	—	—	...	...
Other engineers	5	—	—	—	—	—	—	—	5	—	...	...
Lawyers and judges	6	—	—	—	—	—	—	—	6	—	...	...
Life and physical scientists	6	—	—	—	—	—	6	—	—	—	...	...
Chemists	6	—	—	—	—	—	6	—	—	—	...	...
Physicians, dentists, and related practitioners	46	6	—	—	5	—	2	11	6	16	...	...
Dentists	5	—	—	—	—	—	—	—	—	—	...	...
Pharmacists	17	6	—	—	5	—	—	—	6	—	...	...
Physicians, medical and osteopathic	24	—	—	—	—	—	2	11	—	11	...	...
Other related practitioners .....	—	—	—	—	—	—	—	—	—	—	...	...
Health technologists and technicians	16	—	—	—	—	—	—	5	11	—	...	...
Religious workers	21	4	5	—	6	—	6	—	6	—	...	...
Social scientists	6	—	—	—	—	—	—	—	—	—	...	...
Social and recreation workers	34	6	8	4	—	3	—	—	13	—	...	...
Teachers	150	9	4	—	—	10	15	53	50	9	9 396	...
College and university	9	—	—	—	—	—	—	—	5	4	...	...
Elementary and prekindergarten	54	9	—	—	—	10	6	11	18	—	...	...
Secondary	87	—	4	—	—	—	9	42	27	5	...	...
Engineering and science technicians	32	—	4	12	—	4	5	4	3	—	...	...
Draftsmen and surveyors	12	—	—	4	—	4	—	4	—	—	...	...
Electrical and electronic engineering technicians	4	—	—	4	—	—	—	—	—	—	...	...
Technicians, except health, and engineering and science	5	—	—	—	5	—	—	—	—	—	...	...
Airplane pilots .....	—	—	—	—	—	—	—	—	—	—	...	...
Writers, artists, and entertainers	12	—	4	—	—	—	—	8	—	—	...	...
Other professional, technical, and kindred workers	79	—	6	3	—	6	5	20	39	—	...	...
Managers and administrators, except farm	180	9	—	7	—	16	19	28	74	27	10 743	10 521
Buyers, purchasing agents, and sales managers	10	—	—	—	—	5	—	—	5	—	...	...
School administrators	17	—	—	—	—	—	—	—	12	5	...	...
Specified managers and administrators, public administration .....	—	—	—	—	—	—	—	—	—	—	...	...
Other specified managers and administrators	44	—	—	—	—	6	4	20	14	—	...	...
Managers and administrators, n.e.c., salaried	64	4	—	—	—	—	5	5	37	13	...	...
Manufacturing	12	—	—	—	—	—	—	—	12	—	...	...
Wholesale and retail trade	5	—	—	—	—	—	—	—	5	—	...	...
Transportation, communications, and other public utilities	5	—	—	—	—	—	—	—	5	—	...	...
All other industries	42	4	—	—	—	—	5	5	15	13	...	...
Managers and administrators, n.e.c., self-employed	45	5	—	7	—	5	10	3	6	9	...	...
Construction	10	—	—	—	—	—	4	—	—	6	...	...
Manufacturing	7	—	—	7	—	—	—	—	—	—	...	...
Wholesale and retail trade	23	—	—	—	—	5	6	3	6	3	...	...
All other industries	5	5	—	—	—	—	—	—	—	—	...	...
Sales workers	153	36	13	20	—	8	17	15	29	15	6 938	...
Insurance agents, brokers, and underwriters	22	—	—	—	—	4	—	—	15	3	...	...
Real estate agents and brokers	14	—	—	4	—	4	—	—	—	6	...	...
Sales representatives, manufacturing industries .....	—	—	—	—	—	—	—	—	—	—	...	...
Sales representatives, wholesale trade	12	—	—	—	—	—	—	3	9	—	...	...
Sales clerks, retail trade	53	19	13	7	—	—	9	—	5	—	...	...
Salesmen, retail trade	41	6	—	9	—	—	8	12	—	6	...	...
Salesmen of services and construction .....	—	—	—	—	—	—	—	—	—	—	...	...
Other sales workers	11	11	—	—	—	—	—	—	—	—	...	...
Clerical and kindred workers	483	70	27	17	20	34	52	215	48	—	8 200	8 751
Bank tellers and cashiers	19	12	7	—	—	—	—	—	—	—	...	...
Bookkeepers and billing clerks	8	—	—	—	—	—	—	6	—	—	...	...
Mail handlers and postal clerks	52	15	—	—	6	6	—	25	—	—	...	...
Other clerical and kindred workers	404	41	20	17	14	28	52	184	48	—	8 326	8 818
Craftsmen and kindred workers	1 845	96	99	55	107	115	251	511	534	77	8 781	9 322
Apparel craftsmen and upholsterers	27	—	13	4	5	—	—	5	—	—	...	...
Bakers .....	—	—	—	—	—	—	—	—	—	—	...	...
Cabinetmakers .....	—	—	—	—	—	—	—	—	—	—	...	...
Construction craftsmen	230	5	24	15	23	7	24	68	52	12	8 500	9 157
Carpenters	29	—	6	—	—	7	7	—	9	—	...	...
Excavating, grading, and road machine operators	5	—	—	—	—	—	5	—	—	—	...	...
Electricians	61	—	5	6	5	—	4	15	21	5	...	...
Masons and tile setters	44	—	6	4	8	—	—	19	7	—	...	...
Painters, construction and maintenance, and paperhangers	37	5	—	—	—	—	—	27	5	—	...	...
Plasterers and cement finishers	42	—	—	5	10	—	8	7	12	—	...	...
Plumbers and pipe fitters	7	—	7	—	—	—	—	—	—	—	...	...
Other construction craftsmen	5	—	—	—	—	—	—	—	5	—	...	...
Foremen, n.e.c.	156	10	4	—	11	—	25	16	71	19	10 845	...
Manufacturing	133	7	4	—	5	—	20	11	67	19	11 455	...
Nonmanufacturing industries	23	3	—	—	6	—	5	5	4	—	...	...
Linemen and servicemen, telephone and power	16	—	7	—	—	—	—	—	—	—	...	...
Locomotive engineers and firemen .....	—	—	—	—	—	—	—	—	—	—	...	...
Mechanics and repairmen	510	10	22	21	24	38	86	173	120	16	8 624	9 140
Air conditioning, heating, and refrigeration	10	—	—	5	—	—	—	—	5	—	...	...
Aircraft .....	—	—	—	—	—	—	—	—	—	—	...	...
Automobile, including body	399	10	17	16	16	25	72	105	68	10	8 257	8 660
Radio and television	7	—	—	—	—	7	—	—	—	—	...	...
Other mechanics and repairmen	154	—	5	—	8	6	14	68	47	6	9 294	9 660
Metal craftsmen, except mechanics	535	36	10	—	6	40	54	173	186	30	9 405	9 632
Machine and job and die setters	349	31	5	—	—	19	39	99	137	19	9 626	10 046
Sheetmetal workers and tinsmiths	21	—	—	—	6	—	—	—	15	—	...	...
Tool and die makers	91	—	—	—	—	5	5	52	23	6	...	...
Other metal craftsmen	74	5	5	—	—	—	16	10	11	5	...	...
Printing craftsmen .....	—	—	—	—	—	—	—	—	—	—	...	...
Compositors and typesetters .....	—	—	—	—	—	—	—	—	—	—	...	...
Pressmen and plate printers, printing .....	—	—	—	—	—	—	—	—	—	—	...	...
Stationary engineers and power station operators	16	—	—	—	—	—	—	16	—	—	...	...
Other craftsmen and kindred workers	355	35	19	15	38	30	62	51	105	—	7 653	8 038

Table 175. Occupation of the Male 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—Continued

Experienced civilian labor force—Continued

	Males with earnings in 1969										Median earnings (dollars)	
	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	All earners	Earners worked 50 to 52 weeks
Operatives, except transport	6 410	340	438	304	472	754	1 317	2 109	613	63	7 681	8 333
Assemblers.....	2 231	89	167	122	224	293	458	688	176	14	7 481	8 108
Checkers, examiners, and inspectors, manufacturing.....	439	9	5	19	19	73	59	180	58	17	8 394	8 667
Garage workers and gas station attendants.....	35	5	—	5	10	—	4	4	—	—	—	—
Laundry and drycleaning operatives, n.e.c.....	43	23	—	6	5	—	6	—	5	—	—	—
Meat cutters and butchers.....	12	—	—	—	—	6	6	—	—	—	—	—
Mine operatives, n.e.c.....	—	—	—	—	—	—	—	—	—	—	—	—
Packers and wrappers, except produce.....	33	4	3	—	4	—	—	17	5	—	—	—
Painters, manufactured articles.....	112	4	8	5	6	4	25	31	24	5	8 258	—
Precision machine operatives.....	192	11	8	—	17	28	54	54	20	—	7 593	—
Sawyers.....	—	—	—	—	—	—	—	—	—	—	—	—
Stationary firemen	—	—	—	—	—	—	—	—	—	—	—	—
Textile operatives	—	—	—	—	—	—	—	—	—	—	—	—
Welders and flame cutters.....	529	40	28	25	45	51	137	146	53	4	7 551	7 938
Other metalworking operatives.....	860	30	60	28	54	53	181	352	98	4	8 136	8 644
Other specified operatives.....	776	72	71	46	45	80	165	254	40	3	7 448	8 222
Miscellaneous and not specified operatives.....	1 148	53	88	48	43	166	222	383	129	16	7 793	8 617
Occupation:												
Machine operatives, miscellaneous specified.....	211	21	—	8	11	35	36	73	21	6	7 847	8 509
Machine operatives, not specified.....	631	20	59	28	17	98	122	203	79	5	7 766	8 699
Miscellaneous operatives.....	164	8	12	6	15	15	27	62	19	—	7 963	—
Not specified operatives.....	142	4	17	6	—	18	37	45	10	5	7 703	—
Industry:												
Manufacturing	1 126	53	81	48	43	155	218	383	129	16	7 839	8 672
Durable goods.....	1 112	53	79	42	43	155	218	377	129	16	7 844	8 664
Wood products, including furniture.....	6	—	6	—	—	—	—	—	—	—	—	—
Primary metal industries.....	21	—	—	—	—	—	10	5	—	—	—	—
Fabricated metal industries.....	20	—	—	—	—	—	—	11	—	—	—	—
Machinery, including electrical.....	7	—	9	—	—	—	—	2	—	—	—	—
Motor vehicles and equipment.....	1 050	45	53	42	43	155	208	359	129	16	7 899	8 688
Transportation equipment, except motor vehicles.....	—	—	—	—	—	—	—	—	—	—	—	—
Other durable goods.....	8	8	—	—	—	—	—	—	—	—	—	—
Nondurable goods.....	14	—	2	6	—	—	—	6	—	—	—	—
Food and kindred products.....	—	—	—	—	—	—	—	—	—	—	—	—
Apparel and other fabricated textile products.....	—	—	—	—	—	—	—	—	—	—	—	—
Paper and allied products.....	2	—	2	—	—	—	—	—	—	—	—	—
Chemicals and allied products.....	12	—	—	6	—	—	—	6	—	—	—	—
Other nondurable goods.....	—	—	—	—	—	—	—	—	—	—	—	—
Not specified manufacturing industries.....	—	—	—	—	—	—	—	—	—	—	—	—
Nonmanufacturing industries	22	—	7	—	—	11	4	—	—	—	—	—
Transportation, communications, and other public utilities.....	—	—	—	—	—	—	—	—	—	—	—	—
Wholesale and retail trade.....	4	—	—	—	—	—	4	—	—	—	—	—
All other industries.....	18	—	7	—	—	11	—	—	—	—	—	—
Transport equipment operatives	829	40	33	28	53	78	145	291	145	16	8 258	8 762
Bus drivers.....	16	—	—	—	10	—	—	6	—	—	—	—
Taxicab drivers and chauffeurs.....	102	8	2	13	11	11	13	4	40	—	7 462	—
Truck drivers and deliverymen.....	536	21	14	15	19	62	92	218	79	16	8 413	8 748
Other transport equipment operatives.....	175	11	17	—	13	5	40	63	26	—	8 048	—
Laborers, except farm	1 077	169	96	56	56	115	184	304	91	6	7 253	8 036
Construction laborers.....	155	20	—	6	17	16	35	43	18	—	7 529	—
Freight, stock, and material handlers.....	422	75	36	17	27	45	89	116	17	—	7 124	7 890
Other specified laborers.....	342	53	43	21	12	31	20	108	48	6	7 550	8 319
Miscellaneous and not specified laborers.....	158	21	17	12	—	23	40	37	8	—	7 150	—
Occupation:												
Miscellaneous laborers.....	41	10	5	—	—	10	16	—	—	—	—	—
Not specified laborers.....	117	11	12	12	—	13	24	37	8	—	7 438	—
Industry:												
Manufacturing	131	10	10	7	—	19	40	37	8	—	7 488	—
Durable goods.....	128	10	10	7	—	19	40	34	8	—	7 450	—
Wood products, including furniture.....	—	—	—	—	—	—	—	—	—	—	—	—
Metal industries.....	—	—	—	—	—	—	—	—	—	—	—	—
Machinery, including electrical.....	—	—	—	—	—	—	—	—	—	—	—	—
Transportation equipment.....	118	—	10	7	—	19	40	34	8	—	7 575	—
Other durable goods.....	10	10	—	—	—	—	—	—	—	—	—	—
Nondurable goods.....	—	—	—	—	—	—	—	—	—	—	—	—
Food and kindred products.....	—	—	—	—	—	—	—	—	—	—	—	—
Not specified manufacturing industries.....	3	—	—	—	—	—	—	3	—	—	—	—
Nonmanufacturing industries	27	11	7	5	—	4	—	—	—	—	—	—
Railroads and railway express service.....	—	—	—	—	—	—	—	—	—	—	—	—
Transportation, except railroads.....	—	—	—	—	—	—	—	—	—	—	—	—
Communications, and utilities and sanitary services.....	—	—	—	—	—	—	—	—	—	—	—	—
Wholesale and retail trade.....	17	6	7	—	—	4	—	—	—	—	—	—
All other industries.....	10	5	—	5	—	—	—	—	—	—	—	—
Farmers and farm managers	14	5	9	—	—	—	—	—	—	—	—	—
Farm laborers and farm foremen	19	12	—	—	—	—	7	—	—	—	—	—
Paid farm laborers and farm foremen.....	19	12	—	—	—	—	7	—	—	—	—	—
Unpaid family workers.....	—	—	—	—	—	—	—	—	—	—	—	—
Service workers, except private household¹	1 303	228	213	55	108	130	138	304	127	—	6 365	7 593
Cleaning service workers.....	833	114	97	29	72	89	119	232	81	—	7 130	7 758
Food service workers.....	70	33	10	—	10	—	5	4	8	—	—	—
Cooks, except private household.....	47	21	10	—	7	—	5	—	4	—	—	—
Busboys and dishwashers.....	5	5	—	—	—	—	—	—	—	—	—	—
Health service workers.....	56	10	27	4	12	—	—	3	—	—	—	—
Personal service workers.....	101	22	21	18	10	15	6	9	—	—	4 417	—
Protective service workers.....	85	14	13	—	—	—	—	26	32	—	—	—
Firemen, fire protection.....	—	—	—	—	—	—	—	—	—	—	—	—
Guards and watchmen.....	55	—	8	—	—	—	—	15	32	—	—	—
Policemen and detectives.....	25	14	5	—	—	—	—	6	—	—	—	—
Private household workers	8	4	4	—	—	—	—	—	—	—	—	—

¹Includes allocated cases not shown separately.

Table 175. Occupation of the Male 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

Total

	Males with earnings in 1969										Median earnings (dollars)	
	Total, 16 years old and over	\$1 to \$1,999 or loss	\$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	All earners	Earners worked 50 to 52 weeks
Experienced civilian labor force	132 703	14 504	10 310	5 106	7 427	11 116	14 817	27 056	29 848	12 519	8 227	9 124
Professional, technical, and kindred workers	15 622	759	871	440	533	834	1 313	2 769	5 217	2 886	10 280	11 166
Accountants	1 475	79	60	20	50	42	82	331	508	303	10 723	11 684
Architects	118	—	—	—	12	—	8	9	38	51	13 947	14 485
Computer specialists	202	—	11	5	16	10	27	27	100	6	10 250	10 950
Engineers	2 540	40	29	19	11	50	59	366	1 350	616	12 578	12 752
Aeronautical and astronautical	45	—	—	—	—	—	6	—	29	10	—	—
Civil	237	9	5	—	5	—	—	28	114	76	13 136	13 702
Electrical and electronic	400	6	5	—	6	10	4	31	255	83	12 706	12 886
Mechanical	427	—	5	—	—	9	10	65	254	84	12 451	12 541
Other engineers	1 431	25	14	19	—	31	39	242	698	363	12 475	12 627
Lawyers and judges	437	—	10	10	18	8	9	23	51	308	15000+	15000+
Life and physical scientists	269	15	17	5	—	11	33	58	120	10	9 845	10 500
Chemists	208	9	17	5	—	—	27	48	92	10	9 917	10 625
Physicians, dentists, and related practitioners	1 374	78	66	45	21	21	34	63	214	832	15000+	15000+
Dentists	266	19	9	7	6	—	—	10	20	195	15000+	15000+
Pharmacists	308	28	5	23	10	4	4	18	134	82	12 313	12 965
Physicians, medical and osteopathic	653	26	52	15	—	17	30	23	40	450	15000+	15000+
Other related practitioners	147	5	—	—	5	—	—	12	20	105	15000+	15000+
Health technologists and technicians	199	20	32	11	—	12	30	26	47	16	7 650	9 192
Religious workers	833	71	50	55	102	144	178	162	36	35	6 962	7 220
Social scientists	186	5	10	5	5	—	10	17	59	75	13 475	14 797
Social and recreation workers	282	8	48	11	12	29	19	31	110	14	8 903	10 571
Teachers	3 183	116	209	119	101	200	373	694	1 192	179	9 365	9 856
College and university	619	16	24	25	4	10	37	89	329	85	11 588	12 005
Elementary and prekindergarten	600	30	43	42	38	69	73	133	153	19	8 075	8 150
Secondary	1 849	54	137	41	55	111	248	463	677	63	9 203	9 678
Engineering and science technicians	1 613	70	94	49	77	186	209	358	500	70	8 679	9 227
Draftsmen and surveyors	1 029	25	72	23	44	137	133	252	295	48	8 639	9 024
Electrical and electronic engineering technicians	138	—	6	9	9	4	22	9	74	5	10 676	11 182
Technicians, except health, and engineering and science	134	10	—	5	9	16	21	42	23	8	8 286	8 590
Airplane pilots	48	4	—	5	4	—	10	5	10	4	—	—
Writers, artists, and entertainers	1 250	131	157	32	38	59	102	275	294	162	8 771	9 494
Other professional, technical, and kindred workers	1 527	116	78	49	56	46	119	287	575	201	10 109	11 037
Managers and administrators, except farm	13 413	361	354	222	353	464	866	2 123	4 494	4 176	12 185	12 559
Buyers, purchasing agents, and sales managers	2 096	44	61	54	21	68	199	361	702	586	11 709	12 094
School administrators	396	6	5	9	—	9	6	51	175	135	13 200	13 206
Specified managers and administrators, public administration	615	5	15	14	20	20	32	166	268	75	10 662	10 890
Other specified managers and administrators	1 970	78	97	28	93	83	139	316	686	450	11 101	11 639
Managers and administrators, n.e.c., salaried	6 650	136	90	71	160	198	340	1 023	2 215	2 417	12 950	13 220
Manufacturing	2 282	22	10	24	28	60	56	252	813	1 017	14 237	14 317
Wholesale and retail trade	2 158	45	45	25	17	90	165	421	697	596	11 535	11 807
Transportation, communications, and other public utilities	561	—	6	17	4	22	106	230	159	12	12 359	12 544
All other industries	1 649	69	29	5	41	44	97	244	475	645	13 111	13 807
Managers and administrators, n.e.c., self-employed	1 686	92	86	46	59	86	150	206	448	513	11 317	12 267
Construction	446	10	34	7	6	30	26	55	138	140	11 993	13 514
Manufacturing	182	10	4	4	19	4	—	36	52	53	11 346	12 740
Wholesale and retail trade	701	46	27	13	13	52	71	89	184	206	11 073	11 522
All other industries	357	26	21	22	21	—	53	26	74	114	10 642	11 728
Sales workers	11 051	1 169	886	304	445	668	878	1 855	2 686	2 160	9 267	10 031
Insurance agents, brokers, and underwriters	1 383	46	51	35	66	90	117	190	394	394	11 225	11 806
Real estate agents and brokers	586	35	62	33	29	47	26	81	148	125	9 506	9 744
Sales representatives, manufacturing industries	1 483	24	27	12	28	46	84	314	514	434	12 009	12 204
Sales representatives, wholesale trade	2 512	115	125	54	69	168	256	495	721	509	9 895	10 386
Sales clerks, retail trade	2 257	599	392	89	122	112	218	259	301	165	5 398	7 783
Salesmen, retail trade	1 333	108	77	40	95	119	133	252	296	213	8 750	9 173
Salesmen of services and construction	510	43	45	11	15	29	22	114	118	113	9 579	10 212
Other sales workers	987	199	107	30	21	57	22	150	194	207	8 767	10 479
Clerical and kindred workers	9 024	998	808	332	441	876	1 147	2 508	1 575	339	7 922	8 557
Bank tellers and cashiers	307	97	98	30	10	11	16	22	18	5	3 153	4 500
Bookkeepers and billing clerks	822	65	82	30	45	65	85	200	193	57	8 390	9 000
Mail handlers and postal clerks	1 148	87	52	11	47	91	154	485	198	23	8 544	8 768
Other clerical and kindred workers	6 747	749	576	261	339	709	892	1 801	1 166	254	7 829	8 504
Craftsmen and kindred workers	30 715	1 567	1 577	1 056	1 389	2 452	3 802	7 748	9 380	1 744	8 907	9 420
Apparel craftsmen and upholsterers	514	37	49	20	50	76	50	119	103	10	7 500	8 430
Bakers	323	47	37	17	33	33	46	66	44	—	6 833	7 893
Cabinetmakers	369	34	24	14	26	40	108	70	49	4	7 431	7 699
Construction craftsmen	7 378	482	371	299	390	606	1 004	1 715	2 089	422	8 626	9 451
Carpenters	2 214	166	148	81	140	212	370	548	435	114	7 973	8 914
Excavating, grading, and road machine operators	659	21	26	8	19	32	99	240	176	38	9 038	9 077
Electricians	1 208	34	29	38	35	94	136	280	497	65	9 700	10 402
Masons and tile setters	601	35	22	15	45	32	63	143	213	33	9 238	10 168
Painters, construction and maintenance, and paperhangers	964	153	85	72	94	128	120	134	142	36	6 609	7 929
Plasterers and cement finishers	403	23	13	30	29	28	37	96	124	23	8 865	9 950
Plumbers and pipe fitters	1 014	35	23	24	17	31	118	240	430	96	10 221	10 467
Other construction craftsmen	315	15	25	31	11	49	61	34	72	17	7 434	7 833
Foremen, n.e.c.	4 660	98	61	63	70	145	423	1 136	2 082	582	10 802	11 056
Manufacturing	3 202	30	42	30	44	78	274	854	1 495	355	10 833	10 983
Nonmanufacturing industries	1 458	68	19	33	26	67	149	282	587	227	10 724	11 250
Linemen and servicemen, telephone and power	797	17	28	21	33	35	89	285	276	13	9 232	9 459
Locomotive engineers and firemen	149	4	—	—	4	29	16	17	69	10	10 326	11 573
Mechanics and repairmen	6 341	398	454	283	321	705	925	1 693	1 358	204	8 100	8 645
Air conditioning, heating, and refrigeration	414	28	16	6	35	76	54	81	90	28	7 852	8 566
Aircraft	57	—	6	—	—	5	9	17	15	5	—	—
Automobile, including body	2 450	193	208	112	143	243	346	621	499	85	7 942	8 663
Radio and television	264	27	45	—	32	24	26	76	22	12	7 154	7 929
Other mechanics and repairmen	3 156	150	179	165	111	357	490	898	732	74	8 281	8 681
Metal craftsmen, except mechanics	5 385	140	213	125	219	291	560	1 426	2 151	260	9 605	9 985
Machinists and job and die setters	1 539	21	66	55	87	134	257	545	349	25	8 549	8 855
Sheetmetal workers and tinsmiths	427	5	23	4	26	19	39	79	209	23	10 443	11 008
Toal and die makers	2 544	68	66	51	79	80	197	523	1 318	162	10 789	11 248
Other metal craftsmen	875	46	58	15	27	58	67	279	275	50	9 194	9 473
Printing craftsmen	1 132	64										

Table 175. Occupation of the Male 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—Continued

Total—Continued

Experienced civilian labor force—Continued

	Males with earnings in 1969										Median earnings (dollars)	
	Total, 16 years old and over	\$1 to \$1,999 or loss	\$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	All earners	Earners worked 50 to 52 weeks
Operatives, except transport	24 871	2 335	2 259	1 221	2 226	3 313	4 123	5 758	3 286	350	7 262	7 992
Assemblers.....	2 913	247	251	200	283	433	528	595	343	33	7 080	7 773
Checkers, examiners, and inspectors, manufacturing.....	1 597	34	102	25	131	225	348	492	225	15	7 809	8 367
Garage workers and gas station attendants.....	1 132	504	320	48	54	62	33	59	42	10	2 388	5 581
Laundry and drycleaning operatives, n.e.c.....	148	29	25	20	20	7	18	9	16	4	5 000	5 381
Meat cutters and butchers.....	680	62	65	9	38	63	76	209	113	45	8 258	8 763
Mine operatives, n.e.c.....	22	6	—	—	11	—	5	—	—	—	...	...
Packers and wrappers, except produce.....	930	214	113	59	85	121	103	153	72	10	5 929	7 473
Painters, manufactured articles.....	624	46	36	43	100	118	87	122	63	9	6 737	7 654
Precision machine operatives.....	1 966	143	125	67	118	196	327	603	364	23	8 023	8 487
Sawyers.....	508	35	38	39	104	85	102	82	23	—	6 447	7 065
Stationary firemen.....	186	12	9	5	14	18	40	40	48	—	7 875	8 367
Textile operatives.....	142	6	36	10	4	20	21	35	10	—	6 750	...
Welders and flamecutters.....	2 187	109	95	118	175	254	308	576	482	70	8 120	8 866
Other metalworking operatives.....	3 134	140	262	198	350	498	589	669	388	40	7 202	7 875
Other specified operatives.....	3 016	336	270	140	250	402	517	689	380	32	7 213	7 765
Miscellaneous and not specified operatives.....	5 686	412	512	240	489	811	1 021	1 425	717	59	7 371	7 961
Occupation:												
Machine operatives, miscellaneous specified.....	2 659	130	215	96	250	351	520	704	371	22	7 553	8 089
Machine operatives, not specified.....	1 105	88	82	43	85	173	213	271	129	21	7 383	7 898
Miscellaneous operatives.....	1 121	123	152	60	94	167	143	254	118	10	6 787	7 728
Not specified operatives.....	801	71	63	41	60	120	145	196	99	6	7 314	7 916
Industry:												
Manufacturing.....	5 077	303	426	199	466	737	932	1 295	665	54	7 437	7 972
Durable goods.....	3 775	174	278	139	328	582	681	966	584	43	7 568	8 081
Wood products, including furniture.....	915	74	61	36	50	160	104	178	241	11	7 736	8 548
Primary metal industries.....	510	16	49	20	40	71	101	138	64	11	7 584	8 198
Fabricated metal industries.....	722	21	71	31	67	102	130	201	93	6	7 531	7 990
Machinery, including electrical.....	778	40	69	48	88	128	127	185	87	6	7 126	7 711
Motor vehicles and equipment.....	349	—	17	—	23	38	99	112	56	4	7 975	8 490
Transportation equipment, except motor vehicles.....	122	—	—	—	9	31	41	36	5	—	7 512	7 671
Other durable goods.....	379	23	11	4	51	52	79	116	38	5	7 614	7 949
Nondurable goods.....	1 265	122	143	54	138	155	251	318	73	11	7 082	7 686
Food and kindred products.....	320	50	48	5	32	46	58	56	19	6	6 543	7 406
Apparel and other fabricated textile products.....	31	—	—	4	—	—	11	16	—	—	...	...
Paper and allied products.....	233	14	17	12	32	37	42	65	14	—	7 107	7 608
Chemicals and allied products.....	224	4	23	10	20	17	65	65	20	—	7 585	7 963
Other nondurable goods.....	457	54	55	23	54	55	75	116	20	5	6 773	7 639
Not specified manufacturing industries.....	37	7	5	6	—	—	—	—	8	—	...	...
Nonmanufacturing industries.....	609	109	86	41	23	74	89	130	52	5	6 615	7 841
Transportation, communications, and other public utilities.....	92	4	20	4	—	16	11	32	5	—	...	...
Wholesale and retail trade.....	335	70	51	16	7	42	58	69	22	—	6 560	7 810
All other industries.....	182	35	15	21	16	16	20	29	25	5	6 250	8 080
Transport equipment operatives	7 602	530	569	398	473	787	909	1 865	1 704	367	8 145	8 839
Bus drivers.....	258	29	54	15	14	42	30	31	43	—	6 405	7 292
Taxicab drivers and chauffeurs.....	127	25	17	17	29	17	5	11	6	—	5 155	...
Truck drivers and deliverymen.....	5 540	351	348	270	314	472	636	1 386	1 422	341	8 547	9 172
Other transport equipment operatives.....	1 677	125	150	96	116	256	238	437	233	26	7 401	8 160
Laborers, except farm	7 943	2 424	1 237	426	607	690	885	1 162	416	96	4 729	7 150
Construction laborers.....	1 032	157	217	43	76	133	161	179	54	12	6 173	7 599
Freight, stock, and material handlers.....	4 219	1 310	676	219	321	371	442	640	209	31	4 564	7 038
Other specified laborers.....	1 663	687	230	97	97	82	155	211	60	44	3 257	6 950
Miscellaneous and not specified laborers.....	1 029	270	114	67	113	104	127	132	93	9	5 562	7 241
Occupation:												
Miscellaneous laborers.....	454	81	31	27	43	33	64	104	62	9	7 188	8 510
Not specified laborers.....	575	189	83	40	70	71	63	28	31	—	4 388	6 369
Industry:												
Manufacturing.....	528	80	74	43	64	65	56	82	64	—	6 046	7 591
Durable goods.....	449	50	64	43	58	50	51	78	55	—	6 190	7 821
Wood products, including furniture.....	52	14	9	—	6	—	10	4	9	—	...	...
Metal industries.....	210	16	24	25	43	18	17	40	27	—	5 930	6 861
Machinery, including electrical.....	87	10	21	18	5	14	8	11	—	—	...	...
Transportation equipment.....	61	—	5	—	4	13	11	13	15	—	...	...
Other durable goods.....	39	10	5	—	—	5	5	10	4	—	...	...
Nondurable goods.....	79	30	10	—	6	15	5	4	9	—	...	...
Food and kindred products.....	42	23	5	—	—	5	—	4	5	—	...	...
Not specified manufacturing industries.....	—	—	—	—	—	—	—	—	—	—	...	...
Nonmanufacturing industries.....	501	190	40	24	49	39	71	50	29	9	4 854	6 985
Railroads and railway express service.....	74	6	7	7	—	10	21	13	10	—	...	...
Transportation, except railroads.....	14	5	—	—	5	—	—	4	—	—	...	...
Communications, and utilities and sanitary services.....	99	18	6	6	11	—	26	29	—	3	...	...
Wholesale and retail trade.....	185	94	11	6	21	10	14	4	19	6	1 968	...
All other industries.....	129	67	16	5	12	19	10	—	—	—	1 925	...
Farmers and farm managers	1 647	372	197	92	171	123	91	162	237	202	5 950	6 244
Farm laborers and farm foremen	1 097	659	168	67	71	35	44	28	13	12	1 665	3 319
Paid farm laborers and farm foremen.....	1 047	630	160	63	71	35	44	28	4	12	1 662	3 322
Unpaid family workers.....	50	29	8	4	—	—	—	—	9	—	...	...
Service workers, except private household¹	9 687	3 299	1 384	548	718	874	759	1 078	840	187	4 293	6 872
Cleaning service workers.....	4 091	1 308	534	273	401	553	442	375	188	17	4 745	6 365
Food service workers.....	2 302	1 427	427	53	71	84	49	63	97	31	1 613	4 615
Cooks, except private household.....	768	408	184	7	22	46	18	31	40	12	1 882	6 076
Busboys and dishwashers.....	755	622	114	5	5	—	4	—	—	—	1 214	2 418
Health service workers.....	427	108	151	65	41	15	15	8	19	5	3 397	4 402
Personal service workers.....	766	179	67	50	51	73	69	95	125	57	6 493	7 746
Protective service workers.....	1 586	145	126	46	119	90	147	482	361	70	8 498	9 011
Firemen, fire protection.....	254	—	—	—	—	5	6	97	114	32	10 833	11 045
Guards and watchmen.....	610	126	87	36	93	44	73	82	64	5	5 602	7 109
Police and detectives.....	645	14	27	10	20	23	57	278	183	33	9 234	9 371
Private household workers	31	31	—	—	—	—	—	—	—	—	...	...

¹Includes allocated cases not shown separately.

Table 175. Occupation of the Male 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

	Males with earnings in 1969										Median earnings (dollars)	
	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	All earners	Earners worked 50 to 52 weeks
Experienced civilian labor force	95 515	12 844	9 615	3 445	4 058	5 090	7 846	18 889	23 237	10 491	8 515	9 629
Professional, technical, and kindred workers	16 051	1 556	1 751	582	534	612	821	1 837	4 597	3 761	10 362	11 992
Accountants	1 012	59	51	16	25	62	55	163	349	212	11 016	11 710
Architects	123	4	—	—	—	4	5	—	22	7	15000+	15000+
Computer specialists	574	88	55	36	6	33	14	113	190	39	8 973	10 563
Engineers	2 105	36	37	33	62	40	33	204	890	770	13 413	13 818
Aeronautical and astronautical	—	—	—	—	—	—	—	—	—	—	—	—
Civil	616	4	9	6	16	—	14	20	246	301	14 858	15000+
Electrical and electronic	196	16	10	4	6	6	—	45	84	25	10 655	11 646
Mechanical	383	5	6	6	16	13	5	49	117	146	13 910	14 745
Other engineers	910	11	12	17	24	21	14	90	443	278	13 002	13 285
Lawyers and judges	391	9	5	—	6	—	—	—	133	229	15000+	15000+
Life and physical scientists	403	29	60	21	21	15	41	38	119	59	8 763	10 084
Chemists	107	11	18	10	13	—	11	10	28	6	7 136	...
Physicians, dentists, and related practitioners	765	39	31	5	10	9	10	39	84	538	15000+	15000+
Dentists	177	—	6	—	—	—	—	—	9	162	15000+	...
Pharmacists	138	6	11	—	5	9	—	10	42	55	13 333	14 392
Physicians, medical and osteopathic	349	17	10	5	5	—	—	22	23	267	15000+	15000+
Other related practitioners	101	16	4	—	—	—	10	7	10	54	15000+	...
Health technologists and technicians	225	59	23	28	9	10	13	49	30	4	5 278	8 449
Religious workers	440	21	58	35	65	45	109	48	45	14	6 911	6 922
Social scientists	216	—	41	16	5	—	16	17	75	46	10 867	12 649
Social and recreation workers	312	52	39	12	4	—	18	64	84	39	8 969	10 299
Teachers	4 396	452	681	177	139	149	231	430	1 100	1 037	9 716	13 105
College and university	2 920	329	496	155	106	86	66	167	612	903	10 449	14 434
Elementary and prekindergarten	327	38	60	—	15	25	36	40	73	40	7 708	...
Secondary	1 082	61	121	22	13	38	129	223	387	88	9 408	9 718
Engineering and science technicians	1 466	180	148	61	40	106	111	221	493	106	8 787	10 408
Draftsmen and surveyors	906	54	98	25	27	59	67	160	337	79	9 538	10 766
Electrical and electronic engineering technicians	157	14	15	5	—	16	14	22	60	11	9 318	10 670
Technicians, except health, and engineering and science	175	19	—	—	11	10	9	44	57	25	9 750	9 909
Airplane pilots	37	—	—	—	—	5	—	5	27	—	...	...
Writers, artists, and entertainers	1 027	196	130	24	34	42	55	128	275	143	8 508	10 581
Other professional, technical, and kindred workers	2 421	313	387	118	97	83	100	269	631	423	8 836	11 004
Managers and administrators, except farm	8 926	404	273	179	227	281	583	1 438	2 806	2 735	11 921	12 516
Buyers, purchasing agents, and sales managers	1 110	45	27	179	20	35	95	241	361	267	11 011	11 771
School administrators	459	10	36	—	5	5	6	21	164	212	14 466	15000+
Specified managers and administrators, public administration	877	37	25	16	—	10	49	132	294	314	12 883	13 496
Other specified managers and administrators	1 602	109	38	25	73	85	155	259	485	373	10 588	11 295
Managers and administrators, n.e.c., salaried	3 883	124	118	84	82	98	240	627	1 240	1 270	12 292	12 802
Manufacturing	612	8	20	16	9	6	10	62	241	240	13 631	13 798
Wholesale and retail trade	1 422	53	49	41	61	50	96	321	390	361	10 513	11 219
Transportation, communications, and other public utilities	243	5	—	4	5	5	30	30	95	69	12 237	12 474
All other industries	1 606	58	49	23	7	37	104	214	514	600	13 025	13 611
Managers and administrators, n.e.c., self-employed	995	79	29	34	48	38	158	262	299	299	11 212	11 894
Construction	220	23	—	6	14	5	7	39	98	28	10 816	11 203
Manufacturing	53	5	4	—	6	—	—	6	13	15	...	...
Wholesale and retail trade	524	48	14	28	28	31	31	89	103	152	9 843	10 758
All other industries	198	3	11	—	—	8	—	24	48	104	15000+	15000+
Sales workers	6 201	884	695	221	265	391	377	959	1 393	1 016	8 538	10 082
Insurance agents, brokers, and underwriters	853	38	55	24	11	27	38	149	245	266	11 724	12 823
Real estate agents and brokers	456	26	33	31	46	39	36	43	90	112	8 791	11 794
Sales representatives, manufacturing industries	557	—	15	14	19	13	26	153	190	127	11 013	11 471
Sales representatives, wholesale trade	915	55	33	8	19	77	105	177	276	165	9 814	10 543
Sales clerks, retail trade	1 756	424	428	98	114	117	80	204	183	108	4 265	7 324
Salesmen, retail trade	747	76	53	21	39	78	51	122	208	99	8 910	10 103
Salesmen of services and construction	245	44	11	10	12	9	20	32	58	49	9 031	11 164
Other sales workers	672	221	67	15	5	31	21	79	143	90	6 903	10 127
Clerical and kindred workers	6 580	1 042	932	230	266	399	627	1 470	1 265	349	7 671	8 962
Bank tellers and cashiers	333	129	94	13	11	11	26	15	20	14	2 798	7 265
Bookkeepers and billing clerks	568	79	73	11	23	33	31	106	148	64	8 642	9 711
Mail handlers and postal clerks	715	59	78	9	14	49	106	297	98	5	8 286	8 711
Other clerical and kindred workers	4 964	775	687	197	218	306	464	1 052	999	266	7 644	9 003
Craftsmen and kindred workers	19 709	1 188	1 179	491	713	868	1 640	4 316	7 487	1 827	9 750	10 487
Apparel craftsmen and upholsterers	76	18	5	—	10	9	5	19	10	—	...	...
Bakers	121	10	4	—	29	10	23	12	23	—	6 750	...
Cabinetmakers	38	6	—	—	12	14	—	—	—	—	...	...
Construction craftsmen	4 921	341	317	162	198	254	452	894	1 868	435	9 648	10 988
Carpenters	1 321	101	151	49	56	105	154	247	389	69	8 360	9 865
Excavating, grading, and road machine operators	456	5	10	22	23	34	68	93	143	58	9 419	9 081
Electricians	1 003	76	38	8	36	40	35	121	525	124	11 405	11 839
Masons and tile setters	427	20	32	39	22	15	35	67	165	32	9 507	11 961
Painters, construction and maintenance, and paperhangers	492	96	53	18	14	10	68	139	84	10	7 809	8 910
Plasterers and cement finishers	203	5	—	10	4	21	45	61	53	4	8 541	...
Plumbers and pipe fitters	800	28	13	16	13	14	35	113	440	128	11 909	12 160
Other construction craftsmen	219	10	20	—	30	15	12	53	69	10	8 849	...
Foremen, n.e.c.	2 661	69	57	33	9	51	141	411	1 151	739	12 430	12 778
Manufacturing	1 622	26	11	10	—	24	56	193	714	588	13 438	13 525
Nonmanufacturing industries	1 039	43	46	23	9	27	85	218	437	151	10 784	11 508
Linemen and servicemen, telephone and power	586	47	19	13	28	56	58	179	176	10	8 804	9 302
Locomotive engineers and firemen	28	—	7	—	—	—	—	—	17	4	...	...
Mechanics and repairmen	4 941	344	302	155	245	243	494	1 413	1 556	189	8 973	9 372
Air conditioning, heating, and refrigeration	242	22	—	10	13	16	11	67	86	17	9 463	10 400
Aircraft	58	10	—	—	4	—	15	13	16	—	...	...
Automobile, including body	2 410	139	176	63	102	114	239	770	751	56	8 966	9 322
Radio and television	224	46	16	14	11	—	41	40	51	3	7 561	8 125
Other mechanics and repairmen	2 007	127	110	66	115	113	188	523	652	113	9 088	9 479
Metal craftsmen, except mechanics	3 206	99	80	47	64	58	131	746	1 684	297	11 122	11 372
Machinists and job and die setters	853	37	34	11	10	21	69	272	354	45	9 798	9 970
Sheetmetal workers and tinsmiths	353	10	4	10	5	16	15	94	192	7	10 586	11 099
Toal and die makers	1 214	30	32	16	24	12	14	232	664	190	11 860	12 163
Other metal craftsmen	786	22	10	10	25	9	33	148	474	55	11 435	11 497
Printing craftsmen	482	16	60	9	11	21	47	116	192	10	9 328	9 655
Compositors and typesetters	208	—										

Table 175. Occupation of the Male 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

	Males with earnings in 1969										Median earnings (dollars)	
	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	All earners	Earners worked 50 to 52 weeks
LANSING SMSA—Continued												
Total—Continued												
Experienced civilian labor force—Continued												
Operatives, except transport	16 399	1 401	1 528	769	883	1 133	1 921	5 395	3 131	238	8 209	8 887
Assemblers	3 143	134	347	194	137	261	501	1 258	303	8	7 995	8 572
Checkers, examiners, and inspectors; manufacturing	1 647	32	35	53	84	76	233	710	408	16	8 875	9 250
Garage workers and gas station attendants	858	378	189	58	57	30	63	43	31	9	2 540	6 025
Laundry and drycleaning operatives, n.e.c.	130	33	21	9	6	8	32	4	11	6	5 333	...
Meat cutters and butchers	294	22	53	7	32	21	28	86	34	11	7 429	8 610
Mine operatives, n.e.c.	48	—	7	—	6	8	6	9	12	—	...	...
Packers and wrappers, except produce	260	67	43	17	10	30	9	61	18	5	5 300	8 317
Painters, manufactured articles	427	5	24	11	14	48	38	197	79	11	8 746	9 109
Precision machine operatives	1 290	50	72	52	69	74	107	394	467	5	9 122	9 726
Sawyers	73	10	10	6	22	12	—	13	—	—	...	...
Stationary firemen	124	5	—	—	4	5	15	52	43	—	9 269	9 250
Textile operatives	6	6	—	—	—	—	—	—	—	—	...	...
Welders and flamecutters	1 234	76	121	39	57	84	134	445	233	45	8 476	8 972
Other metalworking operatives	1 734	104	149	73	89	99	217	600	381	22	8 453	8 976
Other specified operatives	1 963	177	194	124	156	131	162	595	380	44	8 126	8 690
Miscellaneous and not specified operatives	3 168	302	263	126	140	246	376	928	731	56	8 282	8 965
Occupation:												
Machine operatives, miscellaneous specified	1 089	77	69	20	56	97	121	363	270	16	8 576	9 010
Machine operatives, not specified	799	60	69	11	34	63	107	237	197	21	8 468	9 133
Miscellaneous operatives	688	98	65	54	16	74	64	159	155	3	7 578	8 758
Not specified operatives	592	67	60	41	34	12	84	169	109	16	7 976	8 757
Industry:												
Manufacturing	2 723	201	207	99	113	217	342	828	666	50	8 441	9 037
Durable goods	2 421	152	179	80	106	195	302	763	594	50	8 515	9 042
Wood products, including furniture	79	33	13	28	5	—	—	—	—	—	...	...
Primary metal industries	245	5	29	—	15	27	34	74	54	5	8 284	9 087
Fabricated metal industries	134	12	24	—	10	15	21	36	11	—	7 048	...
Machinery, including electrical	392	44	59	9	23	54	26	66	94	17	7 269	8 590
Motor vehicles and equipment	1 350	34	35	24	45	78	198	518	394	24	9 008	9 372
Transportation equipment, except motor vehicles	—	—	—	—	—	—	—	—	—	—	...	...
Other durable goods	215	24	19	14	8	21	15	69	41	4	8 188	8 509
Nondurable goods	277	34	22	15	7	22	40	65	72	—	7 963	8 982
Food and kindred products	147	19	7	10	3	12	25	32	39	—	7 900	9 188
Apparel and other fabricated textile products	—	—	—	—	—	—	—	—	—	—	...	...
Paper and allied products	47	5	—	—	4	—	9	6	23	—	...	...
Chemicals and other products	16	—	4	—	—	6	—	6	—	—	...	...
Other nondurable goods	67	10	11	5	—	4	6	21	10	—	...	...
Not specified manufacturing industries	25	15	6	4	—	—	—	—	—	—	...	...
Nonmanufacturing industries	445	101	56	27	27	29	34	100	65	6	6 397	8 246
Transportation, communications, and other public utilities	66	—	6	—	—	5	5	25	25	—	...	...
Wholesale and retail trade	189	39	38	22	12	10	18	32	18	—	4 795	...
All other industries	190	62	12	5	15	14	11	43	22	6	6 071	...
Transport equipment operatives	4 758	428	425	193	302	309	612	1 282	1 085	122	8 172	8 795
Bus drivers	165	29	28	10	16	20	28	29	5	—	5 969	...
Taxicab drivers and chauffeurs	243	37	16	—	18	—	34	106	32	—	8 311	8 851
Truck drivers and deliverymen	3 340	295	296	143	211	219	411	794	853	118	8 239	8 907
Other transport equipment operatives	1 010	67	85	40	57	70	139	353	195	4	8 266	8 743
Laborers, except farm	5 133	1 848	830	263	208	320	337	845	409	73	3 731	7 766
Construction laborers	1 012	208	162	69	63	81	48	249	92	40	6 049	8 610
Freight, stock, and material handlers	2 208	976	344	98	76	106	145	306	157	—	2 744	7 760
Other specified laborers	1 259	455	226	77	38	75	88	166	113	21	3 544	7 125
Miscellaneous and not specified laborers	654	209	98	19	31	58	56	124	47	12	5 032	7 553
Occupation:												
Miscellaneous laborers	238	72	26	5	8	18	49	28	32	—	6 444	7 500
Not specified laborers	416	137	72	14	23	40	7	96	15	12	3 972	7 857
Industry:												
Manufacturing	291	69	30	—	23	28	16	100	20	5	6 839	8 507
Durable goods	240	55	16	—	18	28	13	95	10	5	7 231	8 500
Wood products, including furniture	5	5	—	—	—	—	—	—	—	—	...	...
Metal industries	50	22	—	—	6	12	5	5	—	—	...	...
Machinery, including electrical	29	9	11	—	—	5	—	4	—	—	...	...
Transportation equipment	151	19	5	—	12	11	8	86	10	—	8 477	...
Other durable goods	5	—	—	—	—	—	—	—	—	5	...	...
Nondurable goods	44	10	14	—	5	—	—	5	10	—	...	...
Food and kindred products	17	—	8	—	5	—	—	—	4	—	...	...
Not specified manufacturing industries	7	4	—	—	—	—	3	—	—	—	...	...
Nonmanufacturing industries	363	140	68	19	8	30	40	24	27	7	3 221	6 867
Railroads and railway express service	37	—	11	—	5	10	6	5	—	—	...	...
Transportation, except railroads	22	5	—	—	—	—	—	—	17	—	...	...
Communications, and utilities and sanitary services	32	4	—	4	3	6	11	4	—	—	...	...
Wholesale and retail trade	119	53	33	5	—	8	5	10	5	—	2 394	...
All other industries	153	78	24	10	—	6	18	5	5	7	1 962	...
Farmers and farm managers	2 150	596	417	149	119	141	133	194	196	205	4 416	5 216
Farm laborers and farm foremen	762	391	139	49	39	37	34	29	24	20	1 949	4 027
Paid farm laborers and farm foremen	690	339	127	49	34	37	34	29	24	17	2 094	4 149
Unpaid family workers	72	52	12	—	5	—	—	—	—	3	...	...
Service workers, except private household ¹	8 815	3 085	1 436	319	502	599	761	1 124	844	145	3 842	7 521
Cleaning service workers	3 522	1 122	605	156	321	419	345	327	209	18	4 218	6 517
Food service workers	2 416	1 439	529	89	57	54	105	99	25	19	1 679	3 897
Cooks, except private household	934	523	221	29	21	5	69	50	16	—	1 786	3 948
Busboys and dishwashers	859	641	192	19	7	—	—	—	—	—	1 340	...
Health service workers	166	85	38	—	—	19	15	9	—	—	1 953	...
Personal service workers	688	177	85	31	44	25	143	81	76	26	6 280	7 743
Protective service workers	1 563	114	99	26	55	71	118	524	508	48	9 139	9 522
Firemen, fire protection	335	7	—	—	6	4	14	139	159	6	9 964	10 083
Guards and watchmen	492	57	59	17	25	35	56	123	107	13	7 946	8 774
Policemen and detectives	650	25	30	9	19	22	38	247	231	29	9 474	9 636
Private household workers	31	21	10	—	—	—	—	—	—	—	...	...

¹Includes allocated cases not shown separately.

Table 175. Occupation of the Male 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	Males with earnings in 1969											Median earnings (dollars)	
	Total, 16 years old and over	\$1 to \$1,999 or loss	\$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	All earners	Earnings worked 50 to 52 weeks	
TOLEDO, OHIO-MICH., SMSA													
Total	173 355	16 370	12 309	6 912	8 837	12 164	18 523	34 649	45 710	17 881	8 667	9 471	
Experienced civilian labor force	173 355	16 370	12 309	6 912	8 837	12 164	18 523	34 649	45 710	17 881	8 667	9 471	
Professional, technical, and kindred workers	21 209	1 296	1 468	566	696	938	1 551	3 065	6 962	4 667	10 736	11 807	
Accountants	1 864	61	93	31	13	106	112	319	685	444	11 438	12 113	
Architects	83	—	—	3	3	—	—	—	56	21	—	—	
Computer specialists	458	12	18	4	5	—	35	97	225	62	11 289	11 534	
Engineers	4 109	74	103	57	86	70	158	425	1 902	1 234	12 843	13 147	
Aeronautical and astronautical	15	—	—	—	—	—	—	—	5	10	—	—	
Civil	531	6	14	—	10	18	27	57	230	169	12 902	13 304	
Electrical and electronic	555	22	27	—	8	—	37	76	256	129	12 100	12 570	
Mechanical	807	9	4	17	8	10	17	67	397	278	13 419	13 315	
Other engineers	2 201	37	58	40	60	42	77	225	1 014	648	12 769	13 174	
Lawyers and judges	788	29	18	14	5	4	23	50	121	524	15000+	15000+	
Life and physical scientists	423	22	21	3	21	4	43	32	227	50	11 443	12 049	
Chemists	326	12	11	—	15	—	43	22	188	35	11 596	12 020	
Physicians, dentists, and related practitioners	1 485	52	58	35	17	35	43	76	280	889	15000+	15000+	
Dentists	248	10	—	—	10	8	—	9	202	15000+	15000+		
Pharmacists	429	36	25	18	7	19	12	40	169	103	11 701	12 283	
Physicians, medical and osteopathic	694	6	33	12	—	8	27	21	68	519	15000+	15000+	
Other related practitioners	114	—	—	5	—	—	4	6	34	65	15000+	—	
Health technologists and technicians	242	29	43	—	15	10	37	41	52	15	7 649	8 585	
Religious workers	669	54	92	30	70	82	104	107	113	17	7 063	7 384	
Social scientists	323	12	14	—	—	10	18	26	117	126	13 483	13 916	
Social and recreation workers	361	51	41	15	15	31	42	39	127	—	7 655	9 128	
Teachers	4 196	287	487	144	170	250	404	662	1 252	540	9 076	10 554	
College and university	1 422	130	189	51	74	43	58	85	366	426	11 107	13 735	
Elementary and prekindergarten	545	45	77	24	17	45	105	93	123	16	7 614	9 200	
Secondary	2 074	71	207	64	79	158	231	434	749	81	9 046	9 776	
Engineering and science technicians	2 374	121	171	74	128	126	316	617	679	142	8 814	9 297	
Draftsmen and surveyors	1 276	58	134	39	98	80	162	273	372	60	8 491	9 158	
Electrical and electronic engineering technicians	229	19	5	—	11	15	28	69	78	4	9 058	9 547	
Technicians, except health, and engineering and science	250	14	15	10	16	6	4	46	98	41	10 714	11 454	
Airplane pilots	73	—	—	—	—	6	—	15	31	21	—	—	
Writers, artists, and entertainers	1 398	201	164	49	52	104	71	218	366	173	8 532	10 466	
Other professional, technical, and kindred workers	2 186	277	130	97	80	100	141	310	662	389	9 729	11 051	
Managers and administrators, except farm	16 627	497	492	315	525	603	1 155	2 487	5 288	5 265	12 118	12 457	
Buyers, purchasing agents, and sales managers	2 384	21	70	46	49	73	203	433	822	667	11 807	12 140	
School administrators	444	17	—	—	10	5	15	36	208	153	13 341	13 777	
Specified managers and administrators, public administration	761	45	18	10	21	28	58	175	279	127	10 457	10 970	
Other specified managers and administrators	2 971	115	144	62	113	161	228	494	1 006	648	10 837	11 059	
Managers and administrators, n.e.c., salaried	8 283	172	179	118	223	241	512	1 135	2 594	3 109	13 010	13 398	
Manufacturing	2 679	56	14	26	31	29	75	278	868	1 302	14 784	15000+	
Wholesale and retail trade	2 662	56	96	33	111	118	255	488	729	776	11 193	11 863	
Transportation, communications, and other public utilities	782	5	14	8	21	22	35	152	316	209	12 120	12 464	
All other industries	2 160	55	55	51	60	72	147	217	681	822	13 106	13 370	
Managers and administrators, n.e.c., self-employed	1 784	127	81	79	109	95	139	214	379	561	10 633	10 877	
Construction	356	5	9	18	23	29	16	37	95	124	12 158	12 944	
Manufacturing	167	9	17	13	4	6	16	12	31	59	11 048	11 613	
Wholesale and retail trade	907	85	50	38	59	35	80	127	197	236	9 677	9 940	
All other industries	354	28	5	10	23	25	27	38	56	142	11 875	11 279	
Sales workers	10 527	1 301	699	415	423	649	857	1 660	2 663	1 860	9 108	10 037	
Insurance agents, brokers, and underwriters	1 204	40	37	33	57	73	82	220	296	364	11 014	11 632	
Real estate agents and brokers	514	57	65	23	5	32	19	43	138	132	10 471	11 591	
Sales representatives, manufacturing industries	1 404	49	27	6	24	53	85	280	507	379	11 755	12 200	
Sales representatives, wholesale trade	1 949	91	27	78	65	137	235	410	549	357	9 666	9 920	
Sales clerks, retail trade	2 408	624	357	181	159	146	177	266	350	148	5 264	7 648	
Salesmen, retail trade	1 465	84	87	68	55	118	145	222	437	249	9 581	10 000	
Salesmen of services and construction	571	63	9	19	11	30	45	115	178	101	9 887	11 330	
Other sales workers	1 012	293	90	7	47	60	69	104	208	134	7 130	9 020	
Clerical and kindred workers	12 241	1 256	1 030	505	732	1 079	1 668	3 207	2 291	473	7 910	8 620	
Bank tellers and cashiers	443	136	79	33	44	39	57	29	21	5	4 197	6 050	
Bookkeepers and billing clerks	1 137	73	112	58	72	99	173	275	199	76	7 893	8 472	
Mail handlers and postal clerks	1 571	90	89	31	37	103	218	722	251	30	8 602	8 910	
Other clerical and kindred workers	9 090	957	750	383	579	838	1 220	2 181	1 820	362	7 851	8 623	
Craftsmen and kindred workers	41 144	1 945	1 736	1 205	1 503	2 425	3 855	8 942	15 835	3 698	9 768	10 252	
Apparel craftsmen and upholsterers	342	30	25	11	33	50	86	59	43	5	7 256	7 573	
Bakers	170	—	14	10	6	25	19	48	43	5	8 458	8 263	
Cabinetmakers	150	14	10	—	5	21	29	61	10	—	7 862	—	
Construction craftsmen	9 174	555	390	292	342	516	697	1 635	3 459	1 288	10 231	10 964	
Carpenters	2 438	141	104	121	128	159	238	474	888	183	9 376	10 504	
Excavating, grading, and road machine operators	711	20	35	12	24	50	40	217	260	53	9 608	9 845	
Electricians	1 870	110	59	17	44	92	99	324	700	425	11 357	11 671	
Masons and tile setters	624	43	22	28	20	26	44	97	265	79	10 604	10 791	
Painters, construction and maintenance, and paperhangers	978	121	99	35	40	98	126	152	243	64	7 762	8 276	
Plasterers and cement finishers	289	21	8	11	13	19	22	57	117	21	9 772	—	
Plumbers and pipe fitters	1 582	55	25	37	32	31	108	238	651	405	12 035	12 113	
Other construction craftsmen	682	44	36	31	41	41	20	76	335	58	10 776	11 064	
Foremen, n.e.c.	6 549	79	50	51	99	151	397	1 369	3 367	986	11 602	11 818	
Manufacturing	4 467	46	29	30	46	74	216	862	2 511	653	11 853	12 028	
Nonmanufacturing industries	2 082	33	21	21	53	77	181	507	856	333	10 864	11 162	
Linemen and servicemen, telephone and power	1 082	35	79	61	42	101	97	240	379	48	9 050	9 677	
Locomotive engineers and firemen	989	20	31	29	28	39	72	145	514	111	11 269	12 009	
Mechanics and repairmen	8 583	606	409	365	380	710	1 117	2 221	2 373	402	8 634	9 072	
Air conditioning, heating, and refrigeration	267	9	28	15	5	10	34	51	82	33	9 275	9 689	
Aircraft	115	6	7	5	6	5	6	49	26	5	8 918	9 163	
Automobile, including body	3 401	298	193	186	170	334	537	867	692	124	7 967	8 506	
Radio and television	408	29	33	4	19	46	69	117	76	15	8 068	8 554	
Other mechanics and repairmen	4 392	264	148	155	180	315	471	1 137	1 497	225	9 166	9 524	
Metal craftsmen, except mechanics	7 573	247	213	154	248	333	653	1 602	3 603	520	10 467	10 823	
Machinists and job and die setters	2 508	68	116	61	96	112	271	743	937	104	9 427	9 782	
Sheetmetal workers and tinmiths	645	12	13	16	18	56	60	79	338	53	11 013	11 346	
Tool and die makers	2 291	69	59	59	68	101	139	334	1 260	202	11 256	11 594	
Other metal craftsmen	2 129	98	25	18	66	64	183	446	1 068	161	10 770	10 905	
Printing craftsmen	986	36	35	38	36	83	122	206	385	45	9 388	<	

Table 175. Occupation of the Male 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—Continued

Total—Continued

Experienced civilian labor force—Continued

	Males with earnings in 1969										Median earnings (dollars)	
	Total, 16 years old and over	\$1 to \$1,999 or loss	\$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	All earners	Earners worked 50 to 52 weeks
Operatives, except transport	33 780	2 754	2 490	1 542	2 196	3 231	5 328	8 830	6 702	707	7 878	8 602
Assemblers.....	3 262	200	228	151	259	419	824	837	330	14	7 454	7 904
Checkers, examiners, and inspectors; manufacturing	3 131	105	105	105	115	309	536	991	799	66	8 586	8 949
Garage workers and gas station attendants.....	1 629	777	350	126	76	57	67	97	38	41	2 214	5 852
Laundry and drycleaning operatives, n.e.c.....	156	47	47	30	—	10	8	14	—	—	3 319	8 555
Meat cutters and butchers.....	561	42	37	—	49	41	69	193	120	10	8 440	8 855
Mine operatives, n.e.c.....	65	11	—	—	—	8	15	14	17	—	—	—
Packers and wrappers, except produce.....	901	94	98	23	127	84	198	177	84	16	7 124	7 926
Painters, manufactured articles.....	582	41	52	38	60	59	86	175	61	10	7 477	8 267
Precision machine operatives.....	2 504	118	161	110	99	172	351	694	745	54	8 695	9 191
Sawyers.....	205	20	9	—	23	37	35	45	30	6	7 386	7 387
Stationary firemen.....	661	15	18	6	23	41	83	208	236	31	9 389	9 911
Textile operatives.....	196	—	4	5	17	20	77	60	13	—	7 675	7 753
Welders and flamcutters.....	2 556	112	151	99	143	212	473	564	652	150	8 312	8 939
Other metalworking operatives.....	3 147	158	161	210	313	368	497	780	602	58	7 731	8 455
Other specified operatives.....	4 887	473	504	306	350	426	624	1 164	922	118	7 616	8 427
Miscellaneous and not specified operatives.....	9 337	541	565	333	542	968	1 385	2 817	2 053	133	8 237	8 788
Occupation:												
Machine operatives, miscellaneous specified.....	3 667	206	168	121	227	365	516	1 133	884	47	8 407	8 819
Machine operatives, not specified.....	2 829	101	206	126	166	296	489	864	549	32	8 071	8 695
Miscellaneous operatives.....	1 392	143	122	50	71	218	203	350	215	20	7 453	8 372
Not specified operatives.....	1 449	91	69	36	78	89	177	470	405	34	8 785	9 207
Industry:												
Manufacturing	8 525	399	465	298	495	912	1 255	2 682	1 912	107	8 327	8 815
Durable goods.....	6 529	252	338	210	388	675	1 001	2 129	1 429	107	8 376	8 844
Wood products, including furniture.....	166	11	22	6	18	10	25	54	20	—	7 640	8 154
Primary metal industries.....	765	39	47	40	68	65	125	277	99	5	7 988	8 448
Fabricated metal industries.....	622	37	33	14	56	117	89	136	134	6	7 607	8 090
Machinery, including electrical.....	920	31	31	54	37	170	179	262	127	29	7 765	8 283
Motor vehicles and equipment.....	2 455	93	141	60	153	189	443	798	561	17	8 372	8 901
Transportation equipment, except motor vehicles.....	122	—	11	5	11	10	21	48	10	6	8 125	—
Other durable goods.....	1 479	41	53	31	45	114	119	554	478	44	9 215	9 488
Nondurable goods.....	1 963	142	127	88	107	232	254	548	465	—	8 115	8 672
Food and kindred products.....	318	25	21	17	16	39	66	84	50	—	7 621	8 156
Apparel and other fabricated textile products.....	5	—	5	—	—	—	—	—	—	—	—	—
Paper and allied products.....	588	55	12	18	35	92	84	141	151	—	7 976	8 482
Chemicals and allied products.....	369	18	32	8	11	30	22	141	107	—	8 901	9 369
Other nondurable goods.....	683	44	57	45	45	71	82	182	157	—	7 970	8 394
Not specified manufacturing industries.....	33	5	—	—	—	5	—	5	18	—	—	—
Nonmanufacturing industries	812	142	100	35	47	56	130	135	141	26	7 200	8 239
Transportation, communications, and other public utilities.....	254	16	29	—	—	25	50	65	56	13	8 215	8 767
Wholesale and retail trade.....	357	93	43	19	33	18	52	40	59	—	5 712	7 868
All other industries.....	201	33	28	16	14	13	28	30	26	13	6 731	—
Transport equipment operatives	10 693	730	720	462	540	985	1 379	2 615	2 752	510	8 406	9 002
Bus drivers.....	217	14	14	52	14	31	50	26	11	5	6 468	7 131
Taxicab drivers and chauffeurs.....	311	42	69	36	28	32	30	47	27	—	5 304	6 717
Truck drivers and deliverymen.....	7 021	479	463	247	360	533	843	1 771	1 903	422	8 661	9 212
Other transport equipment operatives.....	3 144	195	174	127	138	389	456	771	811	83	8 241	8 837
Laborers, except farm	12 271	2 657	1 591	841	843	1 176	1 592	2 050	1 323	198	6 173	7 514
Construction laborers.....	1 727	227	201	75	123	192	227	353	281	48	7 200	8 421
Freight, stock, and material handlers.....	5 973	1 370	834	409	356	486	805	957	660	96	6 036	7 522
Other specified laborers.....	2 495	674	344	186	179	263	301	340	189	19	5 243	6 900
Miscellaneous and not specified laborers.....	2 076	386	212	171	185	235	259	400	193	35	6 357	7 773
Occupation:												
Miscellaneous laborers.....	627	83	50	37	62	94	107	113	60	21	6 867	7 678
Not specified laborers.....	1 449	303	162	134	123	141	152	287	133	14	6 018	7 852
Industry:												
Manufacturing	1 081	121	97	107	111	125	177	221	111	11	6 836	7 746
Durable goods.....	835	70	79	86	87	104	135	175	88	11	6 918	7 798
Wood products, including furniture.....	28	14	5	—	—	4	5	—	—	—	—	—
Metal industries.....	300	24	20	34	36	44	50	53	33	6	6 818	7 606
Machinery, including electrical.....	91	5	11	10	17	26	17	—	—	—	—	—
Transportation equipment.....	205	5	10	14	25	28	42	64	17	—	7 488	8 091
Other durable goods.....	211	22	39	27	16	11	12	41	38	5	6 136	8 714
Nondurable goods.....	223	48	13	21	20	21	42	35	23	—	6 452	7 488
Food and kindred products.....	47	25	—	5	—	—	8	9	—	—	—	—
Not specified manufacturing industries.....	23	3	5	—	4	—	—	11	—	—	—	—
Nonmanufacturing industries	995	265	115	64	74	110	82	179	82	24	5 723	7 831
Railroads and railway express service.....	196	26	8	17	22	50	25	20	21	7	6 500	6 926
Transportation, except railroads.....	98	23	7	—	—	5	5	31	21	6	—	—
Communications, and utilities and sanitary services.....	105	23	5	—	6	—	21	39	11	—	7 881	—
Wholesale and retail trade.....	259	86	38	31	27	4	14	35	24	—	4 177	6 865
All other industries.....	337	107	57	16	19	51	17	54	5	11	4 281	—
Farmers and farm managers	1 896	438	285	138	177	117	118	164	266	193	5 492	5 879
Farm laborers and farm foremen	719	380	147	20	31	30	12	29	61	9	1 892	4 900
Paid farm laborers and farm foremen.....	698	364	142	20	31	30	12	29	61	9	1 918	5 262
Unpaid family workers.....	21	16	5	—	—	—	—	—	—	—	—	—
Service workers, except private household¹	12 177	3 091	1 624	892	1 168	926	1 008	1 600	1 567	301	5 412	7 401
Cleaning service workers.....	4 630	952	609	435	650	603	463	587	285	46	5 491	6 542
Food service workers.....	2 456	1 356	424	145	126	97	95	111	81	21	1 811	5 332
Cooks, except private household.....	748	347	131	28	38	60	41	60	38	5	2 412	6 159
Busboys and dishwashers.....	584	488	66	9	—	6	15	—	—	—	1 197	—
Health service workers.....	355	69	106	52	63	16	31	13	5	—	4 048	5 103
Personal service workers.....	1 203	286	165	65	108	71	94	176	132	106	5 792	7 725
Protective service workers.....	2 771	174	170	105	156	113	288	629	1 012	124	9 207	9 779
Firemen, fire protection.....	474	5	6	4	—	4	7	103	280	65	11 929	12 018
Guards and watchmen.....	1 058	133	122	74	114	73	179	156	185	22	7 073	7 646
Police and detectives.....	1 123	28	35	27	33	23	78	328	534	37	10 089	10 490
Private household workers	71	25	27	11	3	5	—	—	—	—	—	—

¹Includes allocated cases not shown separately.

Table 175. Occupation of the Male 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—Continued

Negro

Experienced civilian labor force

Professional, technical, and kindred workers

	Males with earnings in 1969										Median earnings (dollars)	
	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	All earners	Earners worked 50 to 52 weeks
Experienced civilian labor force	11 203	1 553	1 337	922	1 058	1 150	1 489	2 229	1 312	153	6 636	7 522
Professional, technical, and kindred workers	597	55	87	14	46	48	22	121	171	33	8 438	8 913
Accountants	35	4	6	—	—	10	—	5	10	—	—	—
Architects	6	—	—	—	—	—	—	—	6	—	—	—
Computer specialists	32	—	—	—	6	—	—	20	6	—	—	—
Engineers	12	—	—	—	6	—	—	—	6	—	—	—
Aeronautical and astronautical	—	—	—	—	—	—	—	—	—	—	—	—
Civil	6	—	—	—	—	—	—	6	—	—	—	—
Electrical and electronic	9	—	—	—	—	—	—	—	—	—	—	—
Mechanical	9	—	—	—	—	—	—	9	—	—	—	—
Other engineers	5	—	—	—	—	—	—	5	—	—	—	—
Lawyers and judges	22	5	8	—	—	—	—	—	—	—	9	—
Life and physical scientists	5	—	5	—	—	—	—	—	—	—	—	—
Chemists	5	—	5	—	—	—	—	—	—	—	—	—
Physicians, dentists, and related practitioners	48	—	—	—	7	4	—	—	13	24	—	—
Dentists	14	—	—	—	—	4	—	—	4	6	—	—
Pharmacists	15	—	—	—	7	—	—	—	—	8	—	—
Physicians, medical and osteopathic	19	—	—	—	—	—	—	—	9	10	—	—
Other related practitioners	—	—	—	—	—	—	—	—	—	—	—	—
Health technologists and technicians	20	5	15	—	—	—	—	—	—	—	—	—
Religious workers	23	—	5	—	6	5	—	7	—	—	—	—
Social scientists	3	—	—	—	—	—	—	—	3	—	—	—
Social and recreation workers	46	14	4	—	—	—	—	10	18	—	—	—
Teachers	137	5	10	—	3	8	9	28	74	—	10 372	—
College and university	19	—	—	—	3	—	5	5	6	—	—	—
Elementary and prekindergarten	44	—	—	—	—	4	—	17	23	—	—	—
Secondary	69	—	10	—	—	8	—	6	45	—	—	—
Engineering and science technicians	81	12	19	4	5	—	13	22	6	—	—	—
Draftsmen and surveyors	58	12	8	—	5	—	13	14	6	—	—	—
Electrical and electronic engineering technicians	4	—	—	—	—	—	—	4	—	—	—	—
Technicians, except health, and engineering and science	6	—	—	—	6	—	—	—	—	—	—	—
Airplane pilots	—	—	—	—	—	—	—	—	—	—	—	—
Writers, artists, and entertainers	46	—	6	4	13	—	—	23	—	—	—	—
Other professional, technical, and kindred workers	87	10	9	6	—	21	—	6	35	—	—	—
Managers and administrators, except farm	327	11	23	19	26	50	28	73	65	32	8 178	8 226
Buyers, purchasing agents, and sales managers	25	—	—	6	—	10	4	5	—	—	—	—
School administrators	10	—	—	—	—	—	—	—	5	5	—	—
Specified managers and administrators, public administration	49	—	8	—	5	4	—	13	10	9	—	—
Other specified managers and administrators	53	5	—	4	6	4	7	6	21	—	—	—
Managers and administrators, n.e.c., salaried	124	—	9	—	15	5	8	44	25	18	9 136	9 158
Manufacturing	17	—	—	—	—	—	—	12	5	—	—	—
Wholesale and retail trade	26	—	—	—	4	5	—	17	—	—	—	—
Transportation, communications, and other public utilities	11	—	—	—	4	—	—	—	—	7	—	—
All other industries	70	—	9	—	7	—	8	15	20	11	—	—
Managers and administrators, n.e.c., self-employed	66	6	6	9	—	27	9	5	4	—	—	—
Construction	16	—	—	9	—	7	—	—	—	—	—	—
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—
Wholesale and retail trade	26	6	6	—	—	—	9	5	—	—	—	—
All other industries	24	—	—	—	—	20	—	—	4	—	—	—
Sales workers	189	67	42	13	14	15	—	6	21	11	3 310	—
Insurance agents, brokers, and underwriters	28	3	—	—	—	9	—	6	4	6	—	—
Real estate agents and brokers	—	—	—	—	—	—	—	—	—	—	—	—
Sales representatives, manufacturing industries	11	—	—	—	6	—	—	—	5	—	—	—
Sales representatives, wholesale trade	6	—	—	—	—	6	—	—	—	—	—	—
Sales clerks, retail trade	105	45	22	13	8	—	—	—	12	5	2 682	—
Salesmen, retail trade	—	—	—	—	—	—	—	—	—	—	—	—
Salesmen of services and construction	3	3	—	—	—	—	—	—	—	—	—	—
Other sales workers	36	16	20	—	—	—	—	—	—	—	—	—
Clerical and kindred workers	707	97	82	53	49	66	76	209	70	5	7 086	8 356
Bank tellers and cashiers	7	7	—	—	—	—	—	—	—	—	—	—
Bookkeepers and billing clerks	45	4	6	—	3	—	3	24	—	5	—	—
Mail handlers and postal clerks	202	21	10	10	5	6	31	100	19	—	8 360	8 930
Other clerical and kindred workers	453	65	66	43	41	60	42	85	51	—	6 192	7 226
Craftsmen and kindred workers	1 586	180	141	107	130	161	175	342	326	24	7 423	8 303
Apparel craftsmen and upholsterers	10	4	—	—	6	—	—	—	—	—	—	—
Bakers	4	—	—	—	—	—	—	4	—	—	—	—
Cabinetmakers	—	—	—	—	—	—	—	—	—	—	—	—
Construction craftsmen	335	56	23	21	26	29	20	69	86	5	7 625	7 893
Carpenters	27	8	—	—	7	—	—	14	10	—	—	—
Excavating, grading, and road machine operators	39	—	—	6	—	3	—	11	7	—	—	—
Electricians	39	13	—	—	—	11	—	5	5	—	—	—
Masons and tile setters	76	8	—	3	6	6	12	10	31	—	—	—
Painters, construction and maintenance, and paperhangers	60	10	15	—	13	9	—	5	8	—	—	—
Plasterers and cement finishers	58	14	8	7	—	—	—	15	14	—	—	—
Plumbers and pipe fitters	27	3	—	5	—	—	8	5	6	—	—	—
Other construction craftsmen	9	—	—	—	—	—	—	4	5	—	—	—
Foremen, n.e.c.	148	—	6	—	10	14	11	70	24	13	8 943	9 130
Manufacturing	90	—	—	—	6	9	5	55	7	8	—	—
Nonmanufacturing industries	58	—	6	—	4	5	6	15	17	5	—	—
Linemen and servicemen, telephone and power	81	—	19	—	—	18	—	27	4	—	—	—
Locomotive engineers and firemen	10	—	—	—	—	—	—	10	—	—	—	—
Mechanics and repairmen	329	33	21	42	21	56	59	60	37	—	6 848	7 477
Air conditioning, heating, and refrigeration	—	—	—	—	—	—	—	—	—	—	—	—
Aircraft	—	—	—	—	—	—	—	—	—	—	—	—
Automobile, including body	151	—	—	31	9	46	37	6	22	—	6 772	6 957
Radio and television	—	—	—	—	—	—	—	—	—	—	—	—
Other mechanics and repairmen	178	33	21	11	12	10	22	54	15	—	7 091	8 245
Metal craftsmen, except mechanics	232	31	13	25	22	23	25	57	36	—	7 080	8 271
Machinists and job and die setters	111	10	6	17	22	4	6	31	15	—	6 125	—
Sheetmetal workers and tinsmiths	6	—	—	—	—	—	—	6	—	—	—	—
Tool and die makers	7	—	7	—	—	—	—	—	—	—	—	—
Other metal craftsmen	108	21	—	8	—	19	19	20	21	—	7 316	—
Printing craftsmen	40	6	5	—	4	—	25	—	—	—	—	—
Compositors and typesetters	30	6	—	—	4	—	20	—	—	—	—	—
Pressmen and plate printers, printing	5	—	—	—	—	—	5	—	—	—	—	—
Stationary engineers and power station operators	22	—	—	—	—	—	—	13	9	—	—	—
Other craftsmen and kindred workers	375	50	54	6	41	21	35	32	130	6	7 443	9 556

Table 175. Occupation of the Male 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—Continued

Negro—Continued

Experienced civilian labor force—Continued

	Males with earnings in 1969										Median earnings (dollars)	
	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	All earners	Earners worked 50 to 52 weeks
Operatives, except transport	3 520	314	314	279	402	333	678	793	391	16	7 174	7 708
Assemblers.....	335	20	61	7	46	21	58	87	35	—	7 216	7 905
Checkers, examiners, and inspectors, manufacturing.....	253	18	10	13	16	21	70	51	44	10	7 693	7 886
Garage workers and gas station attendants.....	35	—	—	6	5	5	5	10	4	—	...	...
Laundry and drycleaning operatives, n.e.c.....	27	10	13	—	—	—	—	4	—	—	...	...
Meat cutters and butchers.....	6	—	—	—	6	—	—	—	—	—	...	...
Mine operatives, n.e.c.....	8	—	—	—	—	3	—	5	—	—	...	...
Packers and wrappers, except produce.....	71	26	4	—	—	3	27	—	5	6	...	...
Painters, manufactured articles.....	67	6	10	—	10	22	10	5	4	—	...	...
Precision machine operatives.....	128	5	9	7	6	18	24	28	31	—	7 792	...
Sawyers.....	6	—	—	—	—	—	—	6	—	—	...	...
Stationary firemen.....	50	—	—	—	7	6	4	17	16	—	...	...
Textile operatives.....	32	—	—	—	—	—	14	18	—	—	...	...
Welders and flamecutters.....	175	11	17	11	28	21	19	54	14	—	6 976	8 120
Other metalworking operatives.....	422	37	17	52	38	38	113	96	31	—	7 257	7 885
Other specified operatives.....	790	92	102	99	124	75	115	115	68	—	5 823	6 175
Miscellaneous and not specified operatives.....	1 115	89	71	84	116	100	219	297	139	—	7 445	7 920
Occupation:												
Machine operatives, miscellaneous specified.....	327	31	19	21	43	27	61	84	41	—	7 369	7 670
Machine operatives, not specified.....	512	28	45	41	37	54	109	134	64	—	7 468	7 926
Miscellaneous operatives.....	116	—	—	15	19	16	35	20	11	—	7 229	...
Not specified operatives.....	160	30	7	7	17	3	14	59	23	—	8 068	8 580
Industry:												
Manufacturing.....	1 013	70	59	65	98	96	210	281	134	—	7 564	7 918
Durable goods.....	909	70	51	49	75	87	193	265	119	—	7 635	7 979
Wood products, including furniture.....	7	—	—	—	—	—	7	—	—	—	...	...
Primary metal industries.....	274	22	4	25	21	16	60	99	27	—	7 817	7 948
Fabricated metal industries.....	84	8	—	5	16	18	10	18	9	—	...	...
Machinery, including electrical.....	45	4	—	—	—	20	9	12	—	—	...	...
Motor vehicles and equipment.....	387	21	41	15	27	27	97	109	50	—	7 644	8 292
Transportation equipment, except motor vehicles.....	30	—	6	—	11	—	—	6	7	—	...	...
Other durable goods.....	82	15	—	4	—	6	10	21	26	—	...	...
Nondurable goods.....	99	—	8	16	23	4	17	16	15	—	...	...
Food and kindred products.....	24	—	—	—	—	—	11	8	5	—	...	...
Apparel and other fabricated textile products.....	—	—	—	—	—	—	—	—	—	—	...	...
Paper and allied products.....	5	—	—	—	—	—	—	—	5	—	...	...
Chemicals and allied products.....	4	—	—	—	—	—	—	4	—	—	...	...
Other nondurable goods.....	66	—	8	16	23	4	6	4	5	—	...	...
Not specified manufacturing industries.....	5	—	—	—	—	5	—	—	—	—	...	...
Nonmanufacturing industries.....	102	19	12	19	18	4	9	16	5	—	5 056	...
Transportation, communications, and other public utilities.....	10	—	—	—	—	—	4	6	—	—	...	...
Wholesale and retail trade.....	67	11	5	19	13	4	5	5	5	—	...	...
All other industries.....	25	8	7	—	5	—	—	5	—	—	...	...
Transport equipment operatives	822	79	69	44	74	121	127	188	109	11	7 189	7 530
Bus drivers.....	25	—	7	—	—	—	13	5	—	—	...	...
Taxicab drivers and chauffeurs.....	31	—	6	5	9	—	5	6	—	—	...	...
Truck drivers and deliverymen.....	435	38	35	17	38	37	65	132	62	11	7 808	8 427
Other transport equipment operatives.....	331	41	21	22	27	84	44	45	47	—	6 649	6 778
Laborers, except farm	1 799	333	228	149	110	224	265	351	121	18	6 355	7 191
Construction laborers.....	385	16	75	14	26	26	45	121	49	13	7 789	8 985
Freight, stock, and material handlers.....	558	137	46	54	54	62	98	78	29	—	5 778	6 800
Other specified laborers.....	513	148	76	51	10	62	47	86	33	—	4 637	6 330
Miscellaneous and not specified laborers.....	343	32	31	30	20	74	75	66	10	5	6 791	7 438
Occupation:												
Miscellaneous laborers.....	108	12	15	—	20	15	20	16	5	5	6 467	...
Not specified laborers.....	235	20	16	30	—	59	55	50	5	—	6 873	7 525
Industry:												
Manufacturing.....	241	14	22	18	12	46	71	43	10	5	7 120	7 625
Durable goods.....	195	3	9	18	12	46	55	37	10	5	7 173	7 629
Wood products, including furniture.....	9	—	—	—	—	4	5	—	—	—	...	...
Metal industries.....	88	3	6	18	12	22	11	6	10	—	...	...
Machinery, including electrical.....	27	—	—	—	—	6	12	9	—	—	...	...
Transportation equipment.....	42	—	3	—	—	10	19	10	—	—	...	...
Other durable goods.....	29	—	—	—	—	4	8	12	—	5	...	...
Nondurable goods.....	43	8	13	—	—	—	16	6	—	—	...	...
Food and kindred products.....	—	—	—	—	—	—	—	—	—	—	...	...
Not specified manufacturing industries.....	3	3	—	—	—	—	—	—	—	—	...	...
Nonmanufacturing industries.....	102	18	9	12	8	28	4	23	—	—	6 143	...
Railroads and railway express service.....	15	—	—	—	—	—	15	—	—	—	...	...
Transportation, except railroads.....	5	5	—	—	—	—	—	—	—	—	...	...
Communications, and utilities and sanitary services.....	13	—	—	—	—	—	4	9	—	—	...	...
Wholesale and retail trade.....	38	4	9	12	8	—	—	5	—	—	...	...
All other industries.....	31	9	—	—	—	13	—	9	—	—	...	...
Farmers and farm managers	38	32	6	—	—	—	—	—	—	—	...	...
Farm laborers and farm foremen	44	22	12	—	—	—	—	10	—	—	...	...
Paid farm laborers and farm foremen.....	44	22	12	—	—	—	—	10	—	—	...	...
Unpaid family workers.....	—	—	—	—	—	—	—	—	—	—	...	...
Service workers, except private household¹	1 561	363	329	238	204	132	118	136	38	3	4 372	5 467
Cleaning service workers.....	815	155	136	136	136	102	73	64	13	—	4 857	5 527
Food service workers.....	213	84	49	25	19	8	20	8	—	—	2 918	4 941
Cooks, except private household.....	88	17	12	8	15	8	20	8	—	—	...	...
Busboys and dishwashers.....	28	24	—	4	—	—	—	—	—	—	...	...
Health service workers.....	54	4	12	18	5	—	15	—	—	—	...	...
Personal service workers.....	85	16	30	14	22	—	—	3	—	—	...	...
Protective service workers.....	111	13	24	6	—	5	4	41	15	3	8 171	...
Firemen, fire protection.....	4	—	—	—	—	—	—	4	—	—	...	...
Guards and watchmen.....	48	7	12	6	—	5	—	10	5	3	...	...
Policemen and detectives.....	59	6	12	—	—	—	4	27	10	—	...	...
Private household workers	13	—	4	6	3	—	—	—	—	—	...	...

¹Includes allocated cases not shown separately.