TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

MICHIGAN

	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY	1 TO 14	15 TO 34	35 TO 40	41+
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	HOURS	HOURS	HOURS	HOURS
TOTAL												
MALES 16 YEARS AND OVER	2 181 242	1 761 755	269 791	42 228	73 143	154 420	145 035	4 661	75 720	216 565	1 102 465	717 321
MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS	487 584	333 586	112 872	10 801	35 391	66 680	40 545	581	10 242	26 146	230 545	211 451
EXECUTIVE, ADMINISTRATIVE, AND MANAGERIAL OCCUPATIONS	244 022	188 841	36 430	6 345	10 785	19 300	18 303	448	3 056	8 114	108 232	119 914
OFFICIALS AND ADMINISTRATORS, PUBLIC ADMINISTRATION	8 451	22	8 429	1 445	2 343	4 641	-	-	255	379	5 218	2 419
ADMINISTRATORS, EDUCATION AND RELATED FIELDS	10 529	1 839	8 666	59	2 157	6 450	24	-	177	282	4 650	5 252
MANAGERS, MEDICINE AND HEALTH	2 029	1 567	418	83	161	174	41	3	5	63	1 054	884
OTHER SPECIFIED MANAGERS	44 053	40 206	2 007	824	467	716	1 815	25	341	1 083	18 780	23 105
MANAGERS AND ADMINISTRATORS, N.E.C., SALARIED	106 965	100 812	6 153	932	1 869	3 352	-	-	1 123	3 175	41 735	58 726
MANUFACTURING	37 415	37 396	19	-	7	12	-	-	272	747	15 330	20 412
TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES	7 426	6 726	700	193	28	479	-	-	39	142	3 439	3 580
WHOLESALE AND RETAIL TRADE	29 467	29 376	91	25	48	18	-	-	259	969	8 662	18 955
ALL OTHER INDUSTRIES	32 657	27 314	5 343	714	1 786	2 843	-	-	553	1 317	14 304	15 779
MANAGERS AND ADMINISTRATORS, N.E.C., SELF-EMPLOYED	13 286	-	-	-	-	-	12 927	359	299	1 034	3 680	7 895
CONSTRUCTION	1 781	-	-	-	-	-	1 779	2	46	305	698	617
MANUFACTURING	1 803	-	-	-	-	-	1 756	47	45	138	509	1 059
WHOLESALE AND RETAIL TRADE	5 509	-	-	-	-	-	5 327	182	90	253	1 202	3 849
ALL OTHER INDUSTRIES	4 193	-	-	-	-	-	4 065	128	118	338	1 271	2 370
MANAGEMENT RELATED OCCUPATIONS	58 709	44 395	10 757	3 002	3 788	3 967	3 496	61	856	2 098	33 115	21 633
ACCOUNTANTS AND AUDITORS	24 060	19 054	2 963	809	1 268	886	2 036	7	218	927	12 932	9 655
BUYERS AND PURCHASING AGENTS	8 777	8 012	411	142	110	159	339	15	77	210	4 910	3 432
PROFESSIONAL SPECIALTY OCCUPATIONS	243 562	144 745	76 442	4 456	24 606	47 380	22 242	133	7 186	18 032	122 313	91 537
ENGINEERS, ARCHITECTS, AND SURVEYORS	64 907	59 518	4 033	1 167	1 412	1 454	1 356	-	477	1 589	39 586	22 117
ARCHITECTS	2 814	1 982	177	29	65	83	655	-	48	186	1 374	1 110
ENGINEERS	61 337	56 959	3 734	1 115	1 291	1 328	644	-	400	1 357	37 713	20 838
ELECTRICAL AND ELECTRONIC ENGINEERS	7 370	6 999	269	70	106	93	102	-	57	206	4 606	2 386
MECHANICAL ENGINEERS	25 648	25 049	478	283	74	121	121	-	91	469	14 906	9 667
OTHER ENGINEERS	28 319	24 911	2 987	762	1 111	1 114	421	-	252	682	18 201	8 785
SURVEYORS AND MAPPING SCIENTISTS	756	577	122	23	56	43	57	-	29	46	499	169
MATHEMATICAL AND COMPUTER SCIENTISTS	8 973	7 557	1 351	520	638	193	65	-	51	255	5 927	2 617
COMPUTER SYSTEMS ANALYSTS AND SCIENTISTS	5 914	5 128	750	227	402	121	36	-	15	177	3 706	1 955
NATURAL SCIENTISTS	6 917	4 703	2 127	564	1 142	421	87	-	118	271	4 541	1 897
HEALTH DIAGNOSING OCCUPATIONS	22 624	13 480	1 723	342	1 049	332	7 421	-	392	2 068	6 648	12 955
PHYSICIANS	14 453	9 883	1 421	245	879	297	3 149	-	254	627	2 731	10 492
DENTISTS	5 168	2 228	199	45	121	33	2 741	-	87	1 032	2 669	1 207
OTHER HEALTH DIAGNOSING PRACTITIONERS	3 003	1 369	103	52	49	2	1 531	-	51	409	1 248	1 256
HEALTH ASSESSMENT AND TREATING OCCUPATIONS	9 609	7 083	1 900	245	771	884	621	5	228	796	4 291	4 165
REGISTERED NURSES	1 866	1 181	634	56	390	188	51	-	24	119	1 124	566
PHARMACISTS	4 504	3 721	273	48	100	125	505	5	156	423	1 389	2 467
THERAPISTS	2 357	1 569	743	104	238	401	45	-	48	209	1 375	712
TEACHERS, LIBRARIANS, AND COUNSELORS	66 261	12 325	53 265	439	13 739	39 087	658	13	3 156	7 527	34 572	19 726
TEACHERS, POSTSECONDARY	15 430	3 215	12 215	101	10 438	1 676	-	-	1 343	2 502	5 468	5 881
TEACHERS, ELEMENTARY AND PRE-KINDERGARTEN	26 941	3 851	23 067	88	1 058	21 921	23	-	574	2 342	16 359	7 120
TEACHERS, SECONDARY	15 398	2 121	13 277	44	568	12 665	-	-	374	1 243	8 754	4 739
SOCIAL SCIENTISTS AND URBAN PLANNERS	4 593	2 595	1 718	137	602	979	280	-	90	286	2 353	1 808
SOCIAL AND RECREATION WORKERS	7 482	1 755	5 616	295	3 075	2 246	98	13	166	561	4 974	1 648
RELIGIOUS WORKERS	9 949	8 223	62	10	33	19	1 664	-	256	511	1 878	7 205
LAWYERS AND JUDGES	15 031	7 014	2 707	475	1 015	1 217	5 310	-	318	923	5 485	8 087
WRITERS, ARTISTS, ENTERTAINERS, AND ATHLETES	27 216	20 492	1 940	262	1 130	548	4 682	102	1 934	3 245	12 058	9 312
TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS	376 277	306 256	42 549	19 363	13 222	9 964	26 756	716	14 279	36 273	181 498	135 823
TECHNICIANS AND RELATED SUPPORT OCCUPATIONS	60 601	50 379	9 541	2 068	4 842	2 631	669	12	1 941	4 787	33 999	18 732
HEALTH TECHNOLOGISTS AND TECHNICIANS	6 226	4 544	1 650	237	681	732	30	2	188	586	3 542	1 826
LICENSED PRACTICAL NURSES	671	322	343	18	276	49	6	-	18	60	459	123
ENGINEERING AND SCIENCE TECHNICIANS	37 276	33 621	3 282	791	1 566	925	365	8	965	2 322	20 964	12 252
ELECTRICAL AND ELECTRONIC TECHNICIANS	5 333	4 662	614	339	181	94	57	-	110	231	3 183	1 584
DRAFTING AND SURVEYING TECHNICIANS	17 148	15 868	1 047	130	446	471	233	-	263	1 345	8 662	6 534
TECHNICIANS, EXCEPT HEALTH, ENGINEERING, AND SCIENCE	17 099	12 214	4 609	1 040	2 595	974	274	2	788	1 879	9 493	4 654
AIRPLANE PILOTS AND NAVIGATORS	1 182	1 053	103	53	33	17	26	-	73	224	517	357
COMPUTER PROGRAMMERS	6 938	5 867	977	153	605	219	94	-	231	515	4 121	1 968
SALES OCCUPATIONS	179 015	152 138	1 416	232	660	524	24 881	580	7 299	18 516	67 650	81 868
SUPERVISORS AND PROPRIETORS, SALES OCCUPATIONS	38 207	28 397	300	89	154	57	9 365	145	480	1 565	10 725	24 680
SELF-EMPLOYED	9 510	-	-	-	-	-	9 365	145	166	496	1 898	6 776
SALES REPRESENTATIVES, FINANCE AND BUSINESS SERVICES	39 063	31 728	400	54	104	242	6 857	78	1 044	2 748	17 294	17 105
SALES REPRESENTATIVES, COMMODITIES, EXCEPT RETAIL	40 077	36 646	22	5	7	10	3 373	36	471	1 647	19 921	17 431
SALES WORKERS, RETAIL AND PERSONAL SERVICES	61 193	55 037	659	77	373	209	5 181	316	5 257	12 474	19 544	22 488
CASHIERS	9 427	8 775	290	32	179	79	305	57	992	3 322	3 167	1 752
SALES RELATED OCCUPATIONS	475	330	35	7	22	6	105	5	47	82	166	164

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

MICHIGAN

	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY	1 TO 14	15 TO 34	35 TO 40	41+
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	HOURS	HOURS	HOURS	HOURS
TOTAL												
ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL	136 661	103 739	31 592	17 063	7 720	6 809	1 206	124	5 039	12 970	79 849	35 223
SUPERVISORS, ADMINISTRATIVE SUPPORT OCCUPATIONS	21 667	16 001	5 541	2 095	2 064	1 382	123	2	81	633	12 881	7 668
COMPUTER EQUIPMENT OPERATORS	5 767	4 858	882	232	412	238	20	7	160	521	3 443	1 560
SECRETARIES, STENOGRAPHERS, AND TYPISTS	2 273	1 530	664	113	255	296	76	3	193	380	1 165	491
SECRETARIES	1 405	1 079	289	28	110	151	34	3	139	229	705	307
RECEPTIONISTS	1 033	458	566	26	467	73	9	-	379	329	230	63
FILE CLERKS	2 368	1 894	467	165	165	137	7	-	155	365	1 395	369
FINANCIAL RECORDS PROCESSING OCCUPATIONS	8 233	6 718	1 172	300	411	461	309	34	359	880	4 614	2 139
BOOKKEEPERS, ACCOUNTING, AND AUDITING CLERKS	5 300	4 148	833	181	324	328	285	34	266	650	2 877	1 327
TELEPHONE OPERATORS	723	644	79	18	28	33	-	-	44	114	472	78
MAIL AND MESSAGE DISTRIBUTING OCCUPATIONS	15 637	3 572	11 975	11 443	348	184	55	35	556	1 498	8 671	4 405
TRAFFIC, SHIPPING, STOCK AND INVENTORY CLERKS	29 592	27 954	1 567	411	541	615	65	6	714	3 201	17 198	7 502
INSURANCE ADJUSTERS, EXAMINERS, AND INVESTIGATORS	2 316	2 216	23	16	7	-	77	-	26	81	1 714	463
BANK TELLERS	1 068	1 035	26	15	6	5	7	-	44	287	593	129
DATA-ENTRY KEYERS	659	511	141	57	65	19	7	-	21	62	367	187
OTHER ADMINISTRATIVE SUPPORT OCCUPATIONS	45 325	36 348	8 489	2 172	2 951	3 366	451	37	2 307	4 619	27 106	10 169
SERVICE OCCUPATIONS	203 251	133 136	62 992	3 953	15 635	43 404	6 747	376	21 450	47 087	88 186	39 687
PRIVATE HOUSEHOLD OCCUPATIONS	691	677	-	-	-	-	14	-	203	191	196	93
PROTECTIVE SERVICE OCCUPATIONS	48 454	17 228	31 130	1 376	5 166	24 588	94	2	1 323	3 938	25 572	16 014
FIREFIGHTING OCCUPATIONS	5 838	123	5 715	154	84	5 477	-	-	13	80	644	4 904
POLICE AND DETECTIVES, PUBLIC SERVICE	14 969	-	14 969	429	1 878	12 662	-	-	69	296	10 344	3 945
GUARDS	19 488	16 029	3 369	564	913	1 892	88	2	1 210	3 337	9 114	4 954
OTHER PROTECTIVE SERVICE OCCUPATIONS	8 159	1 076	7 077	229	2 291	4 557	6	-	31	225	5 470	2 211
SERVICE OCCUPATIONS, EXCEPT PROTECTIVE AND HOUSEHOLD	154 106	115 231	31 862	2 577	10 469	18 816	6 639	374	19 924	42 958	62 418	23 580
FOOD PREPARATION AND SERVICE OCCUPATIONS	56 150	51 133	3 199	167	2 312	720	1 661	157	10 468	24 534	12 300	7 205
WAITERS AND FOOD COUNTER WORKERS	4 727	4 553	116	14	87	15	56	2	796	2 320	1 065	314
COOKS	23 400	22 107	700	76	409	215	551	42	3 745	10 598	5 477	3 070
HEALTH SERVICE OCCUPATIONS	8 347	4 738	3 538	395	2 433	710	63	8	258	1 480	5 164	1 219
NURSING AIDES, ORDERLIES, AND ATTENDANTS	6 628	3 450	3 115	294	2 305	516	63	-	165	974	4 393	906
CLEANING AND BUILDING SERVICE OCCUPATIONS EXC. HOUSEHOLD	77 560	52 849	22 997	1 882	4 926	16 189	1 517	197	7 757	14 077	41 051	11 728
PERSONAL SERVICE OCCUPATIONS	12 049	6 511	2 128	133	798	1 197	3 398	12	1 441	2 867	3 903	3 428
BARBERS, HAIRDRESSERS AND COSMETOLOGISTS	5 161	1 971	43	-	20	23	3 137	10	165	645	1 731	2 447
FARMING, FORESTRY, AND FISHING OCCUPATIONS	51 943	20 372	3 978	559	1 014	2 405	25 944	1 649	3 723	8 510	14 583	23 504
FARM OPERATORS AND MANAGERS	26 480	2 496	60	19	20	21	23 922	2	1 120	2 816	5 152	16 802
FARM OCCUPATIONS, EXCEPT MANAGERIAL	12 831	10 806	229	55	87	87	224	1 572	1 512	3 459	2 919	4 585
RELATED AGRICULTURAL OCCUPATIONS	9 388	5 557	3 152	264	753	2 135	634	45	921	1 644	4 998	1 361
FORESTRY AND FISHING OCCUPATIONS	3 244	1 513	537	221	154	162	1 164	30	170	591	1 514	756
PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS	465 341	408 376	21 751	3 350	4 131	14 270	34 481	733	8 509	34 167	252 427	154 303
MECHANICS AND REPAIRERS	154 381	135 670	8 962	1 849	1 466	5 647	9 504	245	2 734	9 464	84 792	52 603
AUTOMOBILE MECHANICS, INCLUDING BODY	44 883	37 840	2 118	375	231	1 512	4 821	104	863	3 426	22 603	16 688
AIRCRAFT MECHANICS	1 532	1 207	293	239	35	19	32	-	17	90	1 046	377
HEATING, AIR CONDITIONING, AND REFRIGERATION MECHANICS	5 016	3 935	249	93	76	80	819	13	205	571	2 714	1 385
OTHER MECHANICS AND REPAIRERS	102 950	92 688	6 302	1 142	1 124	4 036	3 832	128	1 649	5 377	58 429	34 153
CONSTRUCTION TRADES	129 746	101 763	7 496	871	1 714	4 911	20 184	303	4 303	17 519	73 638	28 518
CARPENTERS	27 507	19 062	1 321	219	356	746	6 995	129	1 289	5 353	15 101	4 381
ELECTRICIANS	24 293	22 073	1 014	152	314	548	1 194	12	346	1 524	14 758	7 014
PAINTERS, CONSTRUCTION AND MAINTENANCE	9 111	5 841	857	153	228	476	2 373	40	521	1 757	4 854	1 400
PLUMBERS, PIPEFITTERS, AND STEAMFITTERS	19 253	17 063	939	89	214	636	1 202	49	353	1 362	12 246	4 539
OTHER CONSTRUCTION TRADES	49 582	37 724	3 365	258	602	2 505	8 420	73	1 794	7 523	26 679	11 184
EXTRACTIVE OCCUPATIONS	2 823	2 548	67	12	16	39	193	15	37	167	1 632	869
PRECISION PRODUCTION OCCUPATIONS	178 391	168 395	5 226	618	935	3 673	4 600	170	1 435	7 017	92 365	72 313
SUPERVISORS, PRODUCTION OCCUPATIONS	78 224	75 607	1 658	192	385	1 081	888	71	425	1 572	40 892	33 307
MANUFACTURING	64 002	63 403	143	52	50	41	427	29	292	1 172	33 727	27 159
PRECISION METALWORKING OCCUPATIONS	64 845	63 439	527	160	158	209	858	21	513	2 875	32 727	26 612
TOOL AND DIE MAKERS	33 237	32 801	89	19	17	53	326	21	206	1 047	16 158	14 829
MACHINISTS	17 589	17 146	268	93	95	80	175	-	131	943	8 880	7 015
SHEET METAL WORKERS	5 178	4 971	81	23	23	35	126	-	73	447	3 275	1 177
OTHER PRECISION METAL WORKERS	8 841	8 521	89	25	23	41	231	-	103	438	4 414	3 591
PRECISION TEXTILE, APPAREL, AND FURNISHINGS MACHINE WORKERS	2 548	1 537	24	9	9	6	947	40	89	271	1 100	949
PLANT AND SYSTEM OPERATORS	8 051	5 415	2 582	79	281	2 222	54	-	30	255	5 082	2 495
OTHER PRECISION PRODUCTION OCCUPATIONS	24 723	22 397	435	178	102	155	1 853	38	378	2 044	12 564	8 950

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MICHIGAN

	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY	1 TO 14	15 TO 34	35 TO 40	41+
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	HOURS	HOURS	HOURS	HOURS
TOTAL												
OPERATORS, FABRICATORS, AND LABORERS	596 846	560 029	25 649	4 202	3 750	17 697	10 562	606	17 517	64 382	335 226	152 553
MACHINE OPERATORS, ASSEMBLERS, AND INSPECTORS	335 817	326 777	5 246	1 252	1 162	2 832	3 625	169	4 927	24 255	207 568	83 415
MACHINE OPERATORS AND TENDERS, EXCEPT PRECISION	195 784	190 264	3 053	596	749	1 708	2 348	119	3 028	14 218	116 970	53 285
METALWORKING AND PLASTIC WORKING MACHINE OPERATORS	69 859	69 138	363	117	41	205	339	19	819	4 633	40 948	20 340
PRINTING MACHINE OPERATORS	10 139	9 422	370	76	144	150	342	5	242	849	6 318	2 464
TEXTILE, APPAREL, AND FURNISHINGS MACHINE OPERATORS	3 924	3 274	116	6	66	44	510	24	156	663	2 044	915
TEXTILE MACHINE OPERATORS	717	700	-	-	-	-	12	5	8	56	405	239
TEXTILE SEWING MACHINE OPERATORS	675	637	-	-	-	-	36	2	10	102	413	131
LAUNDERING AND DRYCLEANING MACHINE OPERATORS	2 089	1 500	116	6	66	44	456	17	135	426	999	435
OTHER SPECIFIED MACHINE OPERATORS	50 692	48 469	1 414	211	351	852	761	48	867	4 110	30 252	13 370
MISCELLANEOUS AND NOT SPECIFIED MACHINE OPERATORS	61 170	59 961	790	186	147	457	396	23	944	3 963	37 408	16 196
OCCUPATION:												
MISCELLANEOUS MACHINE OPERATORS, N.E.C.	17 744	17 359	195	34	76	85	184	6	262	1 094	10 199	5 388
MACHINE OPERATORS, NOT SPECIFIED	43 426	42 602	595	152	71	372	212	17	682	2 869	27 209	10 808
INDUSTRY:												
MANUFACTURING	56 523	56 058	228	71	37	120	230	7	740	3 521	34 783	15 003
NONDURABLE GOODS	12 155	12 086	40	11	11	18	28	1	178	681	6 984	3 850
FOOD AND KINDRED PRODUCTS	2 661	2 637	6	-	6	-	18	-	43	156	1 382	953
TEXTILE MILL AND FINISHED TEXTILE PRODUCTS	272	265	7	-	-	7	-	-	-	24	192	56
PAPER AND ALLIED PRODUCTS	3 962	3 943	17	6	5	6	2	-	33	223	1 919	1 617
OTHER NONDURABLE GOODS	5 260	5 241	10	5	-	5	8	1	102	278	3 491	1 224
DURABLE GOODS, INCLUDING NOT SPECIFIED MFG	44 368	43 972	188	60	26	102	202	6	562	2 840	27 799	11 153
METAL INDUSTRIES	9 665	9 620	35	14	7	14	10	-	89	779	6 188	2 259
MACHINERY, INCLUDING ELECTRICAL	11 046	10 889	42	20	-	22	109	6	171	652	5 842	3 912
TRANSPORTATION EQUIPMENT	18 905	18 798	88	19	13	56	19	-	182	1 115	12 936	3 628
OTHER DURABLE GOODS	4 752	4 665	23	7	6	10	64	-	120	294	2 833	1 354
NONMANUFACTURING INDUSTRIES	4 647	3 903	562	115	110	337	166	16	204	442	2 625	1 193
TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES	999	845	154	51	7	96	-	-	36	30	692	227
WHOLESALE AND RETAIL TRADE	1 628	1 528	11	-	-	11	81	8	53	167	826	519
ALL OTHER INDUSTRIES	2 020	1 530	397	64	103	230	85	8	115	245	1 107	447
FABRICATORS, ASSEMBLERS, AND HAND WORKING OCCUPATIONS	107 242	104 492	1 464	439	258	767	1 243	43	1 557	8 214	68 737	22 675
WELDERS AND CUTTERS	34 186	32 982	615	271	68	276	571	18	444	2 227	21 380	8 576
ASSEMBLERS	70 559	69 358	785	168	157	460	391	25	1 010	5 584	45 938	13 603
OTHER FABRICATORS AND HAND WORKING OCCUPATIONS	2 497	2 152	64	-	33	31	281	-	103	403	1 419	496
PRODUCTION INSPECTORS, TESTERS, SAMPLERS, AND WEIGHERS	32 791	32 021	729	217	155	357	34	7	342	1 823	21 861	7 455
TRANSPORTATION AND MATERIAL MOVING OCCUPATIONS	148 545	129 389	13 452	1 531	1 535	10 386	5 569	135	3 950	13 030	74 293	50 318
MOTOR VEHICLE OPERATORS	94 400	80 404	9 231	464	970	7 797	4 659	106	3 220	9 486	40 621	36 734
TRUCK DRIVERS AND DRIVER-SALES WORKERS	82 156	73 215	4 673	361	475	3 837	4 162	106	2 434	7 175	35 547	33 240
BUS DRIVERS	5 330	1 470	3 822	30	344	3 448	38	-	377	1 289	2 074	1 375
RAIL AND WATER TRANSPORTATION OCCUPATIONS	7 346	6 350	991	853	72	66	5	-	83	433	3 831	2 581
MATERIAL MOVING EQUIPMENT OPERATORS	46 799	42 635	3 230	214	493	2 523	905	29	647	3 111	29 841	11 003
EXCAVATING, GRADING, AND DOZER MACHINE OPERATORS	3 263	2 081	709	13	37	659	470	3	101	393	1 871	749
HANDLERS, EQUIPMENT CLEANERS, HELPERS, AND LABORERS	112 484	103 863	6 951	1 419	1 053	4 479	1 368	302	8 640	27 097	53 365	18 820
CONSTRUCTION LABORERS	13 788	11 967	1 811	102	296	1 413	-	10	833	2 447	7 899	1 829
FREIGHT, STOCK, AND MATERIAL HANDLERS	41 356	38 884	1 981	637	240	1 104	371	120	4 215	13 125	16 769	5 878
GARAGE AND SERVICE STATION RELATED OCCUPATIONS	11 031	10 589	118	18	22	78	272	52	1 001	4 266	3 348	2 075
HAND PACKERS AND PACKAGERS	5 992	5 879	84	26	8	50	19	10	230	1 104	3 134	1 232
OTHER SPECIFIED HANDLERS, EQUIPMENT CLEANERS, AND HELPERS	10 915	10 198	414	94	111	209	252	51	950	2 502	4 972	2 046
LABORERS, EXCEPT CONSTRUCTION	29 402	26 346	2 543	542	376	1 625	454	59	1 411	3 653	17 243	5 760
MANUFACTURING	15 541	15 302	174	34	31	109	44	21	368	1 441	10 175	2 820
NONDURABLE GOODS	3 248	3 217	16	3	-	13	15	-	118	287	1 951	781
DURABLE GOODS, INCLUDING NOT SPECIFIED MFG.	12 293	12 085	158	31	31	96	29	21	250	1 154	8 224	2 039
METAL INDUSTRIES	4 130	4 074	54	13	22	19	2	-	72	448	2 806	572
NONMANUFACTURING INDUSTRIES	13 861	11 044	2 369	508	345	1 516	410	38	1 043	2 212	7 068	2 940
TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES	2 995	2 180	801	194	6	601	14	-	67	261	2 026	493
WHOLESALE AND RETAIL TRADE	6 838	6 696	30	4	17	9	97	15	475	1 109	3 141	1 877
ALL OTHER INDUSTRIES	4 028	2 168	1 538	310	322	906	299	23	501	842	1 901	570

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

MICHIGAN

	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY				
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	1 TO 14 HOURS	15 TO 34 HOURS	35 TO 40 HOURS	41+ HOURS
TOTAL												
FEMALES 16 YEARS AND OVER	1 569 490	1 185 619	325 979	36 299	86 320	203 360	47 355	10 537	136 203	398 235	797 296	174 881
MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS	315 471	170 022	131 737	6 986	28 362	96 389	12 081	1 631	22 454	60 217	170 794	52 071
EXECUTIVE, ADMINISTRATIVE, AND MANAGERIAL OCCUPATIONS	100 072	73 641	19 766	3 680	6 779	9 307	5 433	1 232	3 359	12 132	57 986	23 941
OFFICIALS AND ADMINISTRATORS, PUBLIC ADMINISTRATION	4 285	-	4 285	626	916	2 743	-	-	382	638	2 566	574
ADMINISTRATORS, EDUCATION AND RELATED FIELDS	5 239	1 822	3 341	65	1 073	2 203	76	-	388	665	2 704	1 369
MANAGERS, MEDICINE AND HEALTH	1 887	1 450	389	57	156	176	41	7	23	183	1 060	572
OTHER SPECIFIED MANAGERS	15 170	13 363	1 133	564	271	298	607	67	369	1 444	9 188	3 749
MANAGERS AND ADMINISTRATORS, N.E.C., SALARIED	37 092	33 268	3 824	492	1 315	2 017	-	-	1 198	4 682	20 030	10 307
MANUFACTURING	3 544	3 544	-	-	-	-	-	-	53	205	2 337	854
TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES	1 826	1 758	68	33	-	35	-	-	25	58	1 195	513
WHOLESALE AND RETAIL TRADE	13 060	13 023	37	14	6	17	-	-	262	1 713	5 940	4 876
ALL OTHER INDUSTRIES	18 662	14 943	3 719	445	1 309	1 965	-	-	858	2 706	10 558	4 064
MANAGERS AND ADMINISTRATORS, N.E.C., SELF-EMPLOYED	4 732	-	-	-	-	-	3 738	994	220	1 096	1 407	1 900
CONSTRUCTION	50	-	-	-	-	-	33	17	8	16	12	7
MANUFACTURING	218	-	-	-	-	-	188	30	13	52	90	57
WHOLESALE AND RETAIL TRADE	2 578	-	-	-	-	-	2 050	528	89	515	734	1 182
ALL OTHER INDUSTRIES	1 886	-	-	-	-	-	1 467	419	110	513	571	654
MANAGEMENT RELATED OCCUPATIONS	31 667	23 738	6 794	1 876	3 048	1 870	971	164	779	3 424	21 031	5 470
ACCOUNTANTS AND AUDITORS	12 871	10 280	2 139	708	744	687	359	93	235	1 285	8 449	2 463
BUYERS AND PURCHASING AGENTS	4 158	3 767	296	109	103	84	56	39	63	443	2 620	899
PROFESSIONAL SPECIALTY OCCUPATIONS	215 399	96 381	111 971	3 306	21 583	87 082	6 648	399	19 095	48 085	112 808	28 130
ENGINEERS, ARCHITECTS, AND SURVEYORS	2 786	2 547	204	79	65	60	29	6	32	175	1 872	639
ARCHITECTS	209	177	10	5	5	-	22	-	5	41	112	38
ENGINEERS	2 530	2 347	176	74	54	48	7	-	19	125	1 746	585
ELECTRICAL AND ELECTRONIC ENGINEERS	441	421	15	-	15	-	5	-	6	12	271	146
MECHANICAL ENGINEERS	695	684	11	-	-	11	-	-	-	37	502	136
OTHER ENGINEERS	1 394	1 242	150	74	39	37	2	-	13	76	973	303
SURVEYORS AND MAPPING SCIENTISTS	47	23	18	-	6	12	-	6	8	9	14	16
MATHEMATICAL AND COMPUTER SCIENTISTS	2 870	2 200	662	250	340	72	8	-	59	178	2 008	521
COMPUTER SYSTEMS ANALYSTS AND SCIENTISTS	1 592	1 244	340	123	193	24	8	-	29	99	1 112	279
NATURAL SCIENTISTS	1 867	1 236	593	132	296	165	38	-	86	265	1 095	356
HEALTH DIAGNOSING OCCUPATIONS	2 873	1 825	541	66	355	120	491	16	124	462	868	1 311
PHYSICIANS	2 377	1 498	499	60	334	105	370	10	87	317	673	1 204
DENTISTS	223	146	34	6	13	15	43	-	19	80	103	15
OTHER HEALTH DIAGNOSING PRACTITIONERS	273	181	8	-	8	-	78	6	18	65	92	92
HEALTH ASSESSMENT AND TREATING OCCUPATIONS	54 928	43 275	11 088	850	3 367	6 871	465	100	2 510	15 354	27 984	6 901
REGISTERED NURSES	45 083	36 557	8 177	698	2 519	4 960	273	76	1 992	13 171	22 410	5 619
PHARMACISTS	1 528	1 347	131	20	56	55	38	12	120	416	656	321
THERAPISTS	5 672	3 310	2 237	62	603	1 572	125	-	259	1 291	3 400	542
TEACHERS, LIBRARIANS, AND COUNSELORS	113 300	25 600	85 281	992	9 523	74 766	2 379	40	12 792	24 587	60 155	12 192
TEACHERS, POSTSECONDARY	8 267	2 516	5 751	119	4 244	1 388	-	-	1 865	2 306	2 451	1 345
TEACHERS, ELEMENTARY AND PRE-KINDERGARTEN	69 955	14 081	55 725	595	2 230	52 900	144	5	5 441	14 428	40 597	7 303
TEACHERS, SECONDARY	17 586	2 976	14 610	120	590	13 900	-	-	1 638	3 184	9 971	2 227
SOCIAL SCIENTISTS AND URBAN PLANNERS	2 478	1 148	1 139	64	328	747	181	10	143	413	1 447	436
SOCIAL AND RECREATION WORKERS	14 292	3 919	10 153	524	6 257	3 372	175	45	373	1 822	9 691	1 909
RELIGIOUS WORKERS	1 861	1 727	25	6	14	5	109	-	286	464	525	543
LAWYERS AND JUDGES	2 183	1 116	712	157	220	335	332	23	103	278	1 103	655
WRITERS, ARTISTS, ENTERTAINERS, AND ATHLETES	15 961	11 788	1 573	186	818	569	2 441	159	2 587	4 087	6 060	2 667
TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS	718 041	574 960	121 997	24 471	38 826	58 700	15 334	5 750	54 124	175 757	392 654	71 723
TECHNICIANS AND RELATED SUPPORT OCCUPATIONS	50 752	40 318	10 100	1 248	4 007	4 845	277	57	2 651	11 919	28 416	5 741
HEALTH TECHNOLOGISTS AND TECHNICIANS	36 214	30 212	5 760	536	1 843	3 381	199	43	1 602	9 789	19 909	3 296
LICENSED PRACTICAL NURSES	19 263	15 488	3 604	293	1 200	2 111	152	19	757	5 823	10 149	1 401
ENGINEERING AND SCIENCE TECHNICIANS	6 121	4 963	1 112	193	671	248	39	7	500	836	3 390	1 221
ELECTRICAL AND ELECTRONIC TECHNICIANS	574	480	94	54	11	29	-	-	23	63	408	72
DRAFTING AND SURVEYING TECHNICIANS	1 903	1 729	136	21	54	61	31	7	97	250	938	579
TECHNICIANS, EXCEPT HEALTH, ENGINEERING, AND SCIENCE	8 417	5 143	3 228	519	1 493	1 216	39	7	549	1 294	5 117	1 224
AIRPLANE PILOTS AND NAVIGATORS	4	4	-	-	-	-	-	-	-	4	-	-
COMPUTER PROGRAMMERS	3 099	2 503	573	178	221	174	23	-	48	304	2 074	576
SALES OCCUPATIONS	180 267	164 645	2 794	381	1 023	1 390	11 037	1 791	23 418	68 427	61 938	19 494
SUPERVISORS AND PROPRIETORS, SALES OCCUPATIONS	14 463	10 891	82	18	50	14	3 096	394	305	2 071	6 610	4 953
SELF-EMPLOYED	3 490	-	-	-	-	-	3 096	394	172	644	923	1 635
SALES REPRESENTATIVES, FINANCE AND BUSINESS SERVICES	19 728	17 195	213	81	58	74	2 191	129	1 541	4 553	9 279	3 735
SALES REPRESENTATIVES, COMMODITIES, EXCEPT RETAIL	5 806	5 112	52	18	32	2	557	85	391	1 086	3 030	1 133
SALES WORKERS, RETAIL AND PERSONAL SERVICES	139 731	130 943	2 443	264	883	1 296	5 173	1 172	21 044	60 495	42 903	9 627
CASHIERS	60 255	57 366	1 916	165	668	1 083	577	396	7 399	26 377	19 300	4 543
SALES RELATED OCCUPATIONS	539	504	4	-	-	4	20	11	137	222	116	46

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

MICHIGAN

	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY				
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	1 TO 14 HOURS	15 TO 34 HOURS	35 TO 40 HOURS	41+ HOURS
TOTAL												
ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL	487 022	369 997	109 103	22 842	33 796	52 465	4 020	3 902	28 055	95 411	302 300	46 488
SUPERVISORS, ADMINISTRATIVE SUPPORT OCCUPATIONS	18 692	13 896	4 614	1 052	2 085	1 477	127	55	184	1 412	12 854	3 689
COMPUTER EQUIPMENT OPERATORS	8 788	7 364	1 414	357	558	499	8	2	267	966	5 846	1 453
SECRETARIES, STENOGRAPHERS, AND TYPISTS	174 976	128 305	44 011	4 915	15 081	24 015	1 371	1 289	8 784	31 358	116 165	13 970
SECRETARIES	144 871	110 113	32 687	2 995	11 154	18 538	844	1 227	6 569	25 197	97 482	11 968
RECEPTIONISTS	22 022	18 785	2 897	317	1 367	1 213	118	222	2 240	6 613	11 106	1 453
FILE CLERKS	8 574	6 558	1 976	324	874	778	13	27	924	2 346	4 423	543
FINANCIAL RECORDS PROCESSING OCCUPATIONS	68 518	58 115	7 333	934	2 330	4 069	1 575	1 495	4 218	12 859	41 571	8 041
BOOKKEEPERS, ACCOUNTING, AND AUDITING CLERKS	53 434	45 425	5 047	502	1 693	2 852	1 510	1 452	3 556	10 523	31 571	6 356
TELEPHONE OPERATORS	9 676	8 618	1 024	120	362	542	16	18	437	2 030	6 129	655
MAIL AND MESSAGE DISTRIBUTING OCCUPATIONS	11 396	2 792	8 531	7 987	366	178	62	11	860	1 797	6 431	1 760
TRAFFIC, SHIPPING, STOCK AND INVENTORY CLERKS	10 986	9 819	1 115	535	261	319	27	25	415	1 396	7 331	1 391
INSURANCE ADJUSTERS, EXAMINERS, AND INVESTIGATORS	3 683	3 636	47	19	23	5	-	-	44	201	2 921	397
BANK TELLERS	20 027	19 205	810	471	156	183	7	5	743	4 765	12 649	1 268
DATA-ENTRY KEYERS	12 416	10 688	1 701	250	991	460	27	-	391	1 813	8 483	1 335
OTHER ADMINISTRATIVE SUPPORT OCCUPATIONS	117 268	82 216	33 630	5 561	9 342	18 727	669	753	8 548	27 855	66 391	10 533
SERVICE OCCUPATIONS	319 605	248 059	57 030	3 271	16 406	37 353	13 476	1 040	49 476	120 496	112 251	23 313
PRIVATE HOUSEHOLD OCCUPATIONS	16 587	16 565	-	-	-	-	22	-	5 381	5 625	3 388	1 417
PROTECTIVE SERVICE OCCUPATIONS	7 081	3 072	4 009	164	665	3 180	-	-	1 173	1 580	3 001	954
FIREFIGHTING OCCUPATIONS	43	-	43	-	5	38	-	-	-	6	13	17
POLICE AND DETECTIVES, PUBLIC SERVICE	1 207	-	1 207	27	116	1 064	-	-	17	59	889	175
GUARDS	5 029	3 019	2 010	76	297	1 637	-	-	1 122	1 457	1 523	668
OTHER PROTECTIVE SERVICE OCCUPATIONS	802	53	749	61	247	441	-	-	34	58	576	94
SERVICE OCCUPATIONS, EXCEPT PROTECTIVE AND HOUSEHOLD	295 937	228 422	53 021	3 107	15 741	34 173	13 454	1 040	42 922	113 291	105 862	20 942
FOOD PREPARATION AND SERVICE OCCUPATIONS	135 058	117 565	15 597	759	5 112	9 726	1 308	588	24 190	62 396	34 316	8 344
WAITERS AND FOOD COUNTER WORKERS	68 256	67 128	626	78	257	291	331	171	11 367	36 350	14 326	3 358
COOKS	28 479	22 067	5 641	302	1 291	4 048	558	213	3 330	11 439	10 123	2 265
HEALTH SERVICE OCCUPATIONS	70 004	56 774	12 528	802	5 407	6 319	562	140	3 713	20 231	37 649	5 203
NURSING AIDES, ORDERLIES, AND ATTENDANTS	48 047	36 852	10 599	646	4 790	5 163	562	34	2 366	13 142	26 428	3 525
CLEANING AND BUILDING SERVICE OCCUPATIONS EXC. HOUSEHOLD	40 495	29 873	9 479	741	2 877	5 861	964	179	6 064	11 574	18 862	2 043
PERSONAL SERVICE OCCUPATIONS	50 380	24 210	15 417	805	2 345	12 267	10 620	133	8 955	19 090	15 035	5 352
BARBERS, HAIRDRESSERS AND COSMETOLOGISTS	18 431	12 695	109	22	25	62	5 552	75	1 404	7 780	6 363	2 164
FARMING, FORESTRY, AND FISHING OCCUPATIONS	10 622	5 280	702	177	249	276	3 165	1 475	1 364	3 462	2 887	2 636
FARM OPERATORS AND MANAGERS	3 024	300	6	-	6	-	2 718	-	426	687	610	1 228
FARM OCCUPATIONS, EXCEPT MANAGERIAL	4 708	3 216	66	22	38	6	48	1 378	492	1 735	1 338	1 060
RELATED AGRICULTURAL OCCUPATIONS	2 707	1 701	541	76	197	268	381	84	441	991	842	317
FORESTRY AND FISHING OCCUPATIONS	183	63	89	79	8	2	18	13	5	49	97	31
PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS	28 461	25 144	1 341	267	401	673	1 765	211	1 345	5 013	15 261	5 429
MECHANICS AND REPAIRERS	4 244	3 884	188	41	55	92	147	25	97	503	2 542	875
AUTOMOBILE MECHANICS, INCLUDING BODY	687	624	25	-	17	8	36	2	18	88	377	163
AIRCRAFT MECHANICS	23	21	-	-	-	-	2	-	-	-	21	-
HEATING, AIR CONDITIONING, AND REFRIGERATION MECHANICS	49	33	6	-	-	6	10	-	-	10	30	9
OTHER MECHANICS AND REPAIRERS	3 485	3 206	157	41	38	78	99	23	79	405	2 114	703
CONSTRUCTION TRADES	2 623	1 898	342	80	85	177	336	47	262	532	1 308	345
CARPENTERS	385	248	96	19	40	37	35	6	41	89	175	38
ELECTRICIANS	449	394	49	14	9	26	6	-	19	62	278	76
PAINTERS, CONSTRUCTION AND MAINTENANCE	695	387	127	47	25	55	159	22	120	174	297	46
PLUMBERS, PIPEFITTERS, AND STEAMFITTERS	144	117	19	-	-	19	8	-	-	10	95	31
OTHER CONSTRUCTION TRADES	950	752	51	-	11	40	128	19	82	197	463	154
EXTRACTIVE OCCUPATIONS	77	74	-	-	-	-	3	-	8	6	58	5
PRECISION PRODUCTION OCCUPATIONS	21 517	19 288	811	146	261	404	1 279	139	978	3 972	11 353	4 204
SUPERVISORS, PRODUCTION OCCUPATIONS	7 601	7 129	286	77	144	65	160	26	85	691	4 314	2 184
MANUFACTURING	4 539	4 418	41	16	25	-	80	-	42	237	2 617	1 468
PRECISION METALWORKING OCCUPATIONS	1 908	1 842	18	16	2	-	48	-	50	236	1 086	369
TOOL AND DIE MAKERS	457	457	-	-	-	-	-	-	-	27	256	152
MACHINISTS	757	749	8	6	2	-	-	-	6	64	471	122
SHEET METAL WORKERS	61	61	-	-	-	-	-	-	7	2	41	11
OTHER PRECISION METAL WORKERS	633	575	10	10	-	-	48	-	37	143	318	84
PRECISION TEXTILE, APPAREL, AND FURNISHINGS MACHINE WORKERS	4 089	3 074	138	38	55	45	825	52	537	1 284	1 719	388
PLANT AND SYSTEM OPERATORS	293	255	35	-	-	35	-	3	15	21	194	50
OTHER PRECISION PRODUCTION OCCUPATIONS	7 626	6 988	334	15	60	259	246	58	291	1 740	4 040	1 213

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MICHIGAN

	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY	1 TO 14	15 TO 34	35 TO 40	41+
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	HOURS	HOURS	HOURS	HOURS
TOTAL												
OPERATORS, FABRICATORS, AND LABORERS	177 290	162 154	13 172	1 127	2 076	9 969	1 534	430	7 440	33 290	103 449	19 709
MACHINE OPERATORS, ASSEMBLERS, AND INSPECTORS	129 816	126 110	2 471	482	786	1 203	1 000	235	3 736	17 930	82 615	14 969
MACHINE OPERATORS AND TENDERS, EXCEPT PRECISION	70 205	67 535	1 728	273	600	855	746	196	2 393	10 791	44 015	7 838
METALWORKING AND PLASTIC WORKING MACHINE OPERATORS	13 413	13 314	71	15	2	54	26	2	242	1 613	8 876	1 568
PRINTING MACHINE OPERATORS	3 861	3 473	263	40	119	104	93	32	229	842	2 100	554
TEXTILE, APPAREL, AND FURNISHINGS MACHINE OPERATORS	16 147	15 215	551	38	221	292	327	54	757	3 290	9 705	1 295
TEXTILE MACHINE OPERATORS	499	435	3	-	-	3	59	2	31	102	272	69
TEXTILE SEWING MACHINE OPERATORS	8 936	8 641	120	18	76	26	144	31	303	1 267	5 859	775
LAUNDERING AND DRYCLEANING MACHINE OPERATORS	4 666	4 154	399	14	142	243	106	7	315	1 270	2 533	265
OTHER SPECIFIED MACHINE OPERATORS	14 209	13 709	342	52	114	176	120	38	534	2 083	8 868	1 798
MISCELLANEOUS AND NOT SPECIFIED MACHINE OPERATORS	22 575	21 824	501	128	144	229	180	70	631	2 963	14 466	2 623
OCCUPATION:												
MISCELLANEOUS MACHINE OPERATORS, N.E.C.	5 874	5 504	193	65	59	69	135	42	218	727	3 724	711
MACHINE OPERATORS, NOT SPECIFIED	16 701	16 320	308	63	85	160	45	28	413	2 236	10 742	1 912
INDUSTRY:												
MANUFACTURING	20 454	20 225	158	38	41	79	50	21	501	2 438	13 385	2 352
NONDURABLE GOODS	7 123	7 039	59	12	20	27	18	7	243	1 111	4 306	832
FOOD AND KINDRED PRODUCTS	1 076	1 055	14	-	-	14	-	7	44	196	611	122
TEXTILE MILL AND FINISHED TEXTILE PRODUCTS	500	500	-	-	-	-	-	-	5	78	354	9
PAPER AND ALLIED PRODUCTS	838	834	-	-	-	-	4	-	26	86	482	194
OTHER NONDURABLE GOODS	4 709	4 650	45	12	20	13	14	-	168	751	2 859	507
DURABLE GOODS, INCLUDING NOT SPECIFIED MFG	13 331	13 186	99	26	21	52	32	14	258	1 327	9 079	1 520
METAL INDUSTRIES	2 797	2 771	16	-	-	16	10	-	61	253	1 873	363
MACHINERY, INCLUDING ELECTRICAL	2 886	2 819	46	14	10	22	7	14	32	247	2 050	332
TRANSPORTATION EQUIPMENT	5 112	5 087	25	10	11	4	-	-	105	495	3 479	506
OTHER DURABLE GOODS	2 536	2 509	12	2	-	10	15	-	60	332	1 677	319
NONMANUFACTURING INDUSTRIES	2 121	1 599	343	90	103	150	130	49	130	525	1 081	271
TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES	210	129	81	58	-	23	-	-	3	13	124	55
WHOLESALE AND RETAIL TRADE	719	574	2	2	-	-	118	25	82	186	295	107
ALL OTHER INDUSTRIES	1 192	896	260	30	103	127	12	24	45	326	662	109
FABRICATORS, ASSEMBLERS, AND HAND WORKING OCCUPATIONS	43 709	42 926	524	132	123	269	234	25	1 019	5 352	28 244	4 906
WELDERS AND CUTTERS	2 855	2 786	66	9	6	51	3	-	57	327	1 798	341
ASSEMBLERS	39 706	39 099	439	123	100	216	147	21	873	4 824	25 807	4 402
OTHER FABRICATORS AND HAND WORKING OCCUPATIONS	1 148	1 041	19	-	17	2	84	4	89	201	639	163
PRODUCTION INSPECTORS, TESTERS, SAMPLERS, AND WEIGHERS	15 902	15 649	219	77	63	79	20	14	324	1 787	10 356	2 225
TRANSPORTATION AND MATERIAL MOVING OCCUPATIONS	17 701	7 750	9 655	218	1 067	8 370	259	37	1 535	7 647	5 605	1 834
MOTOR VEHICLE OPERATORS	15 377	5 553	9 540	189	1 047	8 304	249	35	1 474	7 420	4 139	1 515
TRUCK DRIVERS AND DRIVER-SALES WORKERS	3 172	2 581	360	43	93	224	196	35	232	929	1 180	675
BUS DRIVERS	11 111	2 248	8 863	131	871	7 861	-	-	1 138	6 220	2 531	659
RAIL AND WATER TRANSPORTATION OCCUPATIONS	100	61	37	25	5	7	2	-	7	7	58	-
MATERIAL MOVING EQUIPMENT OPERATORS	2 224	2 136	78	4	15	59	8	2	54	220	1 408	319
EXCAVATING, GRADING, AND DOZER MACHINE OPERATORS	56	33	15	-	-	15	6	2	6	-	30	18
HANDLERS, EQUIPMENT CLEANERS, HELPERS, AND LABORERS	29 773	28 294	1 046	427	223	396	275	158	2 169	7 713	15 229	2 906
CONSTRUCTION LABORERS	362	268	90	22	26	42	-	4	32	65	189	54
FREIGHT, STOCK, AND MATERIAL HANDLERS	8 411	7 944	335	244	50	41	94	38	814	2 941	3 602	672
GARAGE AND SERVICE STATION RELATED OCCUPATIONS	1 142	1 066	2	2	-	-	27	47	92	449	354	201
HAND PACKERS AND PACKAGERS	12 058	11 864	122	7	12	103	48	24	646	2 622	6 905	1 145
OTHER SPECIFIED HANDLERS, EQUIPMENT CLEANERS, AND HELPERS	1 670	1 493	114	13	45	56	39	24	136	396	816	224
LABORERS, EXCEPT CONSTRUCTION	6 130	5 659	383	139	90	154	67	21	449	1 240	3 363	610
MANUFACTURING	3 615	3 542	40	15	-	25	33	-	148	522	2 253	375
NONDURABLE GOODS	1 356	1 323	2	-	-	2	31	-	77	257	755	214
DURABLE GOODS, INCLUDING NOT SPECIFIED MFG.	2 259	2 219	38	15	-	23	2	-	71	265	1 498	161
METAL INDUSTRIES	649	631	18	7	-	11	-	-	13	83	415	32
NONMANUFACTURING INDUSTRIES	2 515	2 117	343	124	90	129	34	21	301	718	1 110	235
TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES	282	215	67	51	-	16	-	-	36	69	127	28
WHOLESALE AND RETAIL TRADE	1 225	1 179	15	-	15	-	16	15	124	319	571	146
ALL OTHER INDUSTRIES	1 008	723	261	73	75	113	18	6	141	330	412	61

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

MICHIGAN

	EMPLOYED PERSONS								PERSONS AT WORK			
	TOTAL	PRIV. WAGE AND SALARY WORKERS	GOVERNMENT WORKERS TOTAL	FEDERAL	STATE	LOCAL	SELF-EMPLOYED WORKERS	UNPAID FAMILY WORKERS	1 TO 14 HOURS	15 TO 34 HOURS	35 TO 40 HOURS	41+ HOURS
WHITE												
MALES 16 YEARS AND OVER	1 966 758	1 592 812	230 441	34 745	64 662	131 034	139 141	4 364	67 695	193 661	971 561	676 058
MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS	454 997	314 377	101 531	9 545	31 813	60 173	38 576	513	9 277	23 734	212 428	201 191
EXECUTIVE, ADMINISTRATIVE, AND MANAGERIAL OCCUPATIONS	230 399	180 282	32 299	5 670	9 609	17 020	17 424	394	2 816	7 567	100 428	115 328
OFFICIALS AND ADMINISTRATORS, PUBLIC ADMINISTRATION	7 546	22	7 524	1 255	2 072	4 197	-	-	244	355	4 655	2 166
MANAGEMENT RELATED OCCUPATIONS	54 606	41 991	9 188	2 624	3 295	3 269	3 366	61	817	1 965	30 269	20 651
PROFESSIONAL SPECIALTY OCCUPATIONS	224 598	134 095	69 232	3 875	22 204	43 153	21 152	119	6 461	16 167	112 000	85 863
ENGINEERS AND NATURAL SCIENTISTS	75 226	67 025	6 736	2 050	2 963	1 723	1 465	-	589	1 973	46 171	25 295
ENGINEERS	57 305	53 353	3 340	1 018	1 213	1 109	612	-	343	1 255	35 012	19 771
HEALTH DIAGNOSING OCCUPATIONS	19 685	11 407	1 355	243	855	257	6 923	-	350	1 958	5 855	11 018
HEALTH ASSESSMENT AND TREATING OCCUPATIONS	8 765	6 498	1 653	224	668	761	609	5	216	742	3 752	3 926
TEACHERS, LIBRARIANS, AND COUNSELORS	61 265	11 506	49 121	344	12 515	36 262	625	13	2 824	6 500	31 817	18 900
TEACHERS, ELEMENTARY AND SECONDARY SCHOOLS	39 517	5 681	33 813	101	1 484	32 228	23	-	782	3 064	23 440	11 425
TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS	347 386	285 903	35 076	15 729	11 493	7 854	25 765	642	13 049	32 776	164 309	129 640
HEALTH TECHNOLOGISTS AND TECHNICIANS	5 284	3 900	1 357	192	592	573	25	2	167	516	2 878	1 646
TECHNOLOGISTS AND TECHNICIANS, EXCEPT HEALTH	50 859	43 069	7 149	1 598	3 887	1 664	631	10	1 645	3 933	28 181	16 108
SALES OCCUPATIONS	170 378	144 633	1 274	210	596	468	23 965	506	6 848	17 195	63 615	79 232
SUPERVISORS AND PROPRIETORS, SALES OCCUPATIONS	36 410	27 100	268	89	128	51	8 936	106	418	1 430	9 966	23 878
SALES REPRESENTATIVES, COMMODITIES AND FINANCE	76 140	65 663	401	54	104	243	9 968	108	1 453	4 167	35 536	33 569
OTHER SALES OCCUPATIONS	57 828	51 870	605	67	364	174	5 061	292	4 977	11 598	18 113	21 785
CASHIERS	8 385	7 807	229	15	159	55	299	50	920	2 985	2 728	1 575
ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL	120 865	94 301	25 296	13 729	6 418	5 149	1 144	124	4 389	11 132	69 635	32 654
COMPUTER EQUIPMENT OPERATORS	5 167	4 360	780	181	382	217	20	7	141	480	3 059	1 410
SECRETARIES, STENOGRAPHERS, AND TYPISTS	1 946	1 355	512	73	226	213	76	3	157	343	960	442
FINANCIAL RECORDS PROCESSING OCCUPATIONS	7 542	6 264	944	268	336	340	300	34	336	810	4 134	2 028
MAIL AND MESSAGE DISTRIBUTING OCCUPATIONS	12 933	3 010	9 833	9 423	270	140	55	35	484	1 294	6 872	3 852
SERVICE OCCUPATIONS	170 944	111 946	52 483	2 914	13 477	36 092	6 176	339	18 986	41 197	70 279	35 168
PRIVATE HOUSEHOLD OCCUPATIONS	533	519	-	-	-	-	14	-	175	114	148	88
PROTECTIVE SERVICE OCCUPATIONS	41 321	14 190	27 043	1 143	4 688	21 212	86	2	1 161	3 368	20 963	14 524
POLICE AND FIREFIGHTERS	18 316	109	18 207	513	1 788	15 906	-	-	67	339	9 264	8 217
SERVICE OCCUPATIONS, EXCEPT PROTECTIVE AND HOUSEHOLD	129 090	97 237	25 440	1 771	8 789	14 880	6 076	337	17 650	37 715	49 168	20 556
FOOD SERVICE OCCUPATIONS	49 347	45 037	2 630	121	2 078	431	1 543	137	9 453	22 258	10 026	6 288
CLEANING AND BUILDING SERVICE OCCUPATIONS, EXCEPT HOUSEHOLD	63 552	43 224	18 760	1 382	4 176	13 202	1 386	182	6 731	11 794	32 596	10 239
FARMING, FORESTRY, AND FISHING OCCUPATIONS	50 025	19 270	3 378	482	890	2 006	25 740	1 637	3 524	8 145	13 687	23 186
FARM OPERATORS AND MANAGERS	26 299	2 453	51	10	20	21	23 793	2	1 090	2 776	5 078	16 768
FARM WORKERS AND RELATED OCCUPATIONS	20 638	15 373	2 823	257	716	1 850	837	1 605	2 275	4 811	7 172	5 692
PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS	433 848	381 729	18 353	2 780	3 798	11 775	33 058	708	7 757	31 698	232 581	147 494
MECHANICS AND REPAIRERS	142 502	125 772	7 478	1 484	1 360	4 634	9 016	236	2 499	8 647	76 997	50 152
CONSTRUCTION TRADES	121 870	95 750	6 408	745	1 594	4 069	19 425	287	3 942	16 468	69 047	27 182
PRECISION PRODUCTION OCCUPATIONS	166 709	157 715	4 400	539	828	3 033	4 424	170	1 279	6 423	84 935	69 305
OPERATORS, FABRICATORS, AND LABORERS	509 558	479 587	19 620	3 295	3 191	13 134	9 826	525	15 102	56 111	278 277	139 379
MACHINE OPERATORS AND TENDERS, EXCEPT PRECISION	169 163	164 524	2 364	455	657	1 252	2 168	107	2 473	11 900	98 849	49 499
FABRICATORS, ASSEMBLERS, INSPECTORS, AND SAMPLERS	111 963	109 036	1 648	495	390	763	1 242	37	1 376	7 972	71 233	26 568
TRANSPORTATION OCCUPATIONS	90 642	78 606	7 674	1 127	852	5 695	4 273	89	2 916	8 833	38 057	36 731
MOTOR VEHICLE OPERATORS	83 669	72 580	6 732	305	782	5 645	4 268	89	2 833	8 414	34 468	34 220
MATERIAL MOVING EQUIPMENT OPERATORS	39 853	36 127	2 816	174	381	2 261	881	29	580	2 695	25 202	9 707
HANDLERS, EQUIPMENT CLEANERS, HELPERS, AND LABORERS	97 937	91 294	5 118	1 044	911	3 163	1 262	263	7 757	24 711	44 936	16 874
CONSTRUCTION LABORERS	11 974	10 450	1 514	87	265	1 162	-	10	777	2 134	6 776	1 643
FREIGHT, STOCK, AND MATERIAL HANDLERS	37 079	35 368	1 256	403	196	657	353	102	3 774	12 225	14 541	5 438

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

MICHIGAN	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY	1 TO 14	15 TO 34	35 TO 40	41+
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	HOURS	HOURS	HOURS	HOURS
WHITE												
FEMALES 16 YEARS AND OVER	1 365 214	1 046 208	264 332	24 715	70 699	168 918	44 531	10 143	123 848	357 807	675 806	156 519
MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS	278 207	154 456	110 835	4 979	23 098	82 758	11 392	1 524	20 869	54 257	146 657	47 850
EXECUTIVE, ADMINISTRATIVE, AND MANAGERIAL OCCUPATIONS	89 373	67 567	15 565	2 572	5 510	7 483	5 075	1 166	3 079	11 197	50 540	22 305
OFFICIALS AND ADMINISTRATORS, PUBLIC ADMINISTRATION	3 542	-	3 542	435	705	2 402	-	-	365	595	1 983	501
MANAGEMENT RELATED OCCUPATIONS	27 355	21 306	4 982	1 239	2 371	1 372	910	157	698	3 163	17 666	5 038
PROFESSIONAL SPECIALTY OCCUPATIONS	188 834	86 889	95 270	2 407	17 588	75 275	6 317	358	17 790	43 060	96 117	25 545
ENGINEERS AND NATURAL SCIENTISTS	6 548	5 214	1 257	368	629	260	71	6	152	561	4 234	1 411
ENGINEERS	2 123	1 979	137	74	29	34	7	-	19	102	1 452	512
HEALTH DIAGNOSING OCCUPATIONS	1 975	1 231	314	37	215	62	424	6	86	326	514	960
HEALTH ASSESSMENT AND TREATING OCCUPATIONS	48 806	38 960	9 305	630	2 809	5 866	447	94	2 382	14 738	23 637	6 138
TEACHERS, LIBRARIANS, AND COUNSELORS	100 245	23 406	74 510	749	8 414	65 347	2 314	15	11 930	21 003	52 751	11 359
TEACHERS, ELEMENTARY AND SECONDARY SCHOOLS	77 296	15 667	61 492	571	2 497	58 424	132	5	6 609	14 664	44 602	8 957
TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS	637 231	519 987	96 911	16 688	32 498	47 725	14 741	5 592	49 682	160 731	342 101	64 702
HEALTH TECHNOLOGISTS AND TECHNICIANS	30 484	25 869	4 393	348	1 346	2 699	179	43	1 490	8 900	16 097	2 742
TECHNOLOGISTS AND TECHNICIANS, EXCEPT HEALTH	12 776	8 980	3 704	489	1 913	1 302	78	14	882	1 914	7 375	2 266
SALES OCCUPATIONS	166 499	152 052	2 168	298	827	1 043	10 606	1 673	21 919	63 712	56 563	18 150
SUPERVISORS AND PROPRIETORS, SALES OCCUPATIONS	13 682	10 353	47	17	22	8	2 925	357	296	1 959	6 220	4 718
SALES REPRESENTATIVES, COMMODITIES AND FINANCE	24 029	20 938	223	83	84	56	2 654	214	1 877	5 396	11 402	4 630
OTHER SALES OCCUPATIONS	128 788	120 761	1 898	198	721	979	5 027	1 102	19 746	56 357	38 941	8 802
CASHIERS	54 177	51 787	1 494	118	553	823	543	353	6 732	23 956	17 184	4 066
ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL	427 472	333 086	86 646	15 553	28 412	42 681	3 878	3 862	25 391	86 205	262 066	41 544
COMPUTER EQUIPMENT OPERATORS	7 338	6 293	1 035	141	455	439	8	2	239	893	4 794	1 262
SECRETARIES, STENOGRAPHERS, AND TYPISTS	158 629	118 785	37 265	3 732	13 176	20 357	1 305	1 274	7 979	29 236	104 341	12 938
FINANCIAL RECORDS PROCESSING OCCUPATIONS	63 648	54 609	6 036	561	1 994	3 481	1 533	1 470	4 076	12 327	38 020	7 562
MAIL AND MESSAGE DISTRIBUTING OCCUPATIONS	8 108	2 253	5 782	5 398	300	84	62	11	798	1 474	4 179	1 294
SERVICE OCCUPATIONS	268 559	211 631	43 766	2 101	12 761	28 904	12 222	940	44 387	106 335	87 113	19 698
PRIVATE HOUSEHOLD OCCUPATIONS	12 576	12 554	-	-	-	-	22	-	4 373	4 015	2 454	1 246
PROTECTIVE SERVICE OCCUPATIONS	5 445	2 485	2 960	107	486	2 367	-	-	1 085	1 334	2 013	758
POLICE AND FIREFIGHTERS	713	-	713	11	90	612	-	-	3	34	499	146
SERVICE OCCUPATIONS, EXCEPT PROTECTIVE AND HOUSEHOLD	250 538	196 592	40 806	1 994	12 275	26 537	12 200	940	38 929	100 986	82 646	17 694
FOOD SERVICE OCCUPATIONS	123 214	108 040	13 445	544	4 505	8 396	1 232	497	22 621	58 248	29 740	7 463
CLEANING AND BUILDING SERVICE OCCUPATIONS, EXCEPT HOUSEHOLD	30 195	22 484	6 666	460	2 126	4 080	866	179	5 314	9 055	12 886	1 541
FARMING, FORESTRY, AND FISHING OCCUPATIONS	10 220	5 077	574	160	212	202	3 101	1 468	1 332	3 318	2 718	2 593
FARM OPERATORS AND MANAGERS	3 001	300	6	-	6	-	2 695	-	424	681	599	1 224
FARM WORKERS AND RELATED OCCUPATIONS	7 043	4 719	481	81	198	202	388	1 455	903	2 588	2 029	1 338
PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS	24 605	21 751	1 036	147	370	519	1 620	198	1 193	4 398	13 055	4 770
MECHANICS AND REPAIRERS	3 472	3 160	151	25	46	80	136	25	92	405	2 090	710
CONSTRUCTION TRADES	2 265	1 634	248	58	82	108	336	47	233	518	1 090	290
PRECISION PRODUCTION OCCUPATIONS	18 804	16 896	637	64	242	331	1 145	126	860	3 469	9 830	3 765
OPERATORS, FABRICATORS, AND LABORERS	146 392	133 306	11 210	640	1 760	8 810	1 455	421	6 385	28 768	84 162	16 906
MACHINE OPERATORS AND TENDERS, EXCEPT PRECISION	57 747	55 606	1 231	114	480	637	717	193	1 940	9 054	36 014	6 841
FABRICATORS, ASSEMBLERS, INSPECTORS, AND SAMPLERS	46 893	46 120	480	110	148	222	254	39	1 021	5 620	30 437	5 867
TRANSPORTATION OCCUPATIONS	13 962	4 912	8 785	174	943	7 668	230	35	1 427	6 942	3 523	1 332
MOTOR VEHICLE OPERATORS	13 884	4 861	8 760	161	938	7 661	228	35	1 420	6 942	3 470	1 332
MATERIAL MOVING EQUIPMENT OPERATORS	1 800	1 739	51	-	15	36	8	2	54	179	1 148	276
HANDLERS, EQUIPMENT CLEANERS, HELPERS, AND LABORERS	25 990	24 929	663	242	174	247	246	152	1 943	6 973	13 040	2 590
CONSTRUCTION LABORERS	308	237	67	22	21	24	-	4	29	45	166	46
FREIGHT, STOCK, AND MATERIAL HANDLERS	7 564	7 282	153	97	35	21	91	38	718	2 740	3 204	572

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

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MICHIGAN	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY	1 TO 14	15 TO 34	35 TO 40	41+
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	HOURS	HOURS	HOURS	HOURS
BLACK												
MALES 16 YEARS AND OVER	179 585	140 597	34 246	6 695	6 220	21 331	4 540	202	6 418	19 373	112 197	31 355
MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS	23 004	12 540	9 060	961	2 406	5 693	1 358	46	711	1 874	13 263	6 473
EXECUTIVE, ADMINISTRATIVE, AND MANAGERIAL OCCUPATIONS	11 119	6 794	3 605	574	944	2 087	688	32	215	472	6 511	3 553
OFFICIALS AND ADMINISTRATORS, PUBLIC ADMINISTRATION	788	-	788	153	243	392	-	-	11	24	497	204
MANAGEMENT RELATED OCCUPATIONS	3 498	2 032	1 356	335	386	635	110	-	34	114	2 431	836
PROFESSIONAL SPECIALTY OCCUPATIONS	11 885	5 746	5 455	387	1 462	3 606	670	14	496	1 402	6 752	2 920
ENGINEERS AND NATURAL SCIENTISTS	2 594	2 169	406	137	88	181	19	-	26	80	1 869	491
ENGINEERS	1 826	1 615	198	54	40	104	13	-	26	59	1 288	360
HEALTH DIAGNOSING OCCUPATIONS	794	527	95	31	43	21	172	-	28	66	192	472
HEALTH ASSESSMENT AND TREATING OCCUPATIONS	628	419	197	9	97	91	12	-	6	39	412	171
TEACHERS, LIBRARIANS, AND COUNSELORS	3 858	623	3 210	64	635	2 511	25	-	227	759	2 217	612
TEACHERS, ELEMENTARY AND SECONDARY SCHOOLS	2 474	242	2 232	22	117	2 093	-	-	128	469	1 477	378
TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS	24 355	16 840	6 666	3 398	1 254	2 014	782	67	889	2 984	14 857	4 914
HEALTH TECHNOLOGISTS AND TECHNICIANS	677	422	250	45	65	140	5	-	14	49	483	124
TECHNOLOGISTS AND TECHNICIANS, EXCEPT HEALTH	2 388	1 921	461	156	100	205	6	-	53	149	1 664	461
SALES OCCUPATIONS	7 244	6 326	142	22	64	56	709	67	352	1 159	3 533	2 051
SUPERVISORS AND PROPRIETORS, SALES OCCUPATIONS	1 424	1 023	32	-	26	6	330	39	50	113	630	598
SALES REPRESENTATIVES, COMMODITIES AND FINANCE	2 524	2 312	21	5	7	9	185	6	47	205	1 448	771
OTHER SALES OCCUPATIONS	3 296	2 991	89	17	31	41	194	22	255	841	1 455	682
CASHIERS	919	852	61	17	20	24	6	-	42	314	418	131
ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL	14 046	8 171	5 813	3 175	1 025	1 613	62	-	470	1 627	9 177	2 278
COMPUTER EQUIPMENT OPERATORS	544	462	82	51	10	21	-	-	19	34	344	141
SECRETARIES, STENOGRAPHERS, AND TYPISTS	295	156	139	40	16	83	-	-	35	27	184	49
FINANCIAL RECORDS PROCESSING OCCUPATIONS	562	371	182	28	52	102	9	-	13	62	387	95
MAIL AND MESSAGE DISTRIBUTING OCCUPATIONS	2 542	515	2 027	1 925	58	44	-	-	59	187	1 698	522
SERVICE OCCUPATIONS	28 104	18 146	9 498	960	1 776	6 762	445	15	1 963	5 085	16 027	3 598
PRIVATE HOUSEHOLD OCCUPATIONS	148	148	-	-	-	-	-	-	23	77	43	5
PROTECTIVE SERVICE OCCUPATIONS	6 509	2 783	3 721	218	359	3 144	5	-	131	495	4 261	1 330
POLICE AND FIREFIGHTERS	2 263	14	2 249	68	129	2 052	-	-	15	28	1 611	536
SERVICE OCCUPATIONS, EXCEPT PROTECTIVE AND HOUSEHOLD	21 447	15 215	5 777	742	1 417	3 618	440	15	1 809	4 513	11 723	2 263
FOOD SERVICE OCCUPATIONS	5 090	4 555	476	46	159	271	59	-	813	1 852	1 705	438
CLEANING AND BUILDING SERVICE OCCUPATIONS, EXCEPT HOUSEHOLD	12 630	8 709	3 794	446	626	2 722	112	15	820	2 037	7 716	1 332
FARMING, FORESTRY, AND FISHING OCCUPATIONS	1 106	491	511	67	88	356	104	-	102	211	567	110
FARM OPERATORS AND MANAGERS	131	29	9	9	-	-	93	-	14	38	62	16
FARM WORKERS AND RELATED OCCUPATIONS	932	449	472	55	88	329	11	-	88	156	481	94
PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS	26 381	22 211	2 953	494	235	2 224	1 208	9	644	2 023	17 007	5 365
MECHANICS AND REPAIRERS	10 027	8 273	1 323	336	64	923	422	9	208	700	6 701	1 922
CONSTRUCTION TRADES	6 501	4 942	917	95	90	732	642	-	295	811	3 859	1 086
PRECISION PRODUCTION OCCUPATIONS	9 823	8 966	713	63	81	569	144	-	141	505	6 435	2 351
OPERATORS, FABRICATORS, AND LABORERS	76 635	70 369	5 558	815	461	4 282	643	65	2 109	7 196	50 476	10 895
MACHINE OPERATORS AND TENDERS, EXCEPT PRECISION	23 161	22 358	646	134	73	439	145	12	488	2 060	15 968	2 964
FABRICATORS, ASSEMBLERS, INSPECTORS, AND SAMPLERS	25 113	24 587	492	161	22	309	21	13	489	1 892	17 342	3 024
TRANSPORTATION OCCUPATIONS	9 974	7 164	2 425	175	173	2 077	368	17	337	969	5 809	2 242
MOTOR VEHICLE OPERATORS	9 736	6 960	2 391	157	173	2 061	368	17	337	963	5 648	2 218
MATERIAL MOVING EQUIPMENT OPERATORS	6 061	5 680	357	21	96	240	24	-	64	369	4 080	1 058
HANDLERS, EQUIPMENT CLEANERS, HELPERS, AND LABORERS	12 326	10 580	1 638	324	97	1 217	85	23	731	1 906	7 277	1 607
CONSTRUCTION LABORERS	1 578	1 342	236	7	-	229	-	-	46	285	984	155
FREIGHT, STOCK, AND MATERIAL HANDLERS	3 580	2 907	658	216	44	398	7	8	396	682	1 932	342

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

MICHIGAN	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY	1 TO 14	15 TO 34	35 TO 40	41+
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	HOURS	HOURS	HOURS	HOURS
BLACK												
FEMALES 16 YEARS AND OVER	180 367	121 685	56 238	10 593	13 728	31 917	2 229	215	10 341	35 143	108 925	15 372
MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS	31 408	12 087	18 818	1 775	4 518	12 525	462	41	1 188	5 095	20 666	3 262
EXECUTIVE, ADMINISTRATIVE, AND MANAGERIAL OCCUPATIONS	9 537	5 363	3 889	1 029	1 176	1 684	273	12	225	838	6 722	1 388
OFFICIALS AND ADMINISTRATORS, PUBLIC ADMINISTRATION	709	-	709	181	203	325	-	-	16	36	557	73
MANAGEMENT RELATED OCCUPATIONS	3 904	2 139	1 701	608	635	458	57	7	70	243	3 074	363
PROFESSIONAL SPECIALTY OCCUPATIONS	21 871	6 724	14 929	746	3 342	10 841	189	29	963	4 257	13 944	1 874
ENGINEERS AND NATURAL SCIENTISTS	726	554	168	93	50	25	4	-	13	40	558	74
ENGINEERS	330	301	29	-	15	14	-	-	-	13	240	60
HEALTH DIAGNOSING OCCUPATIONS	252	180	65	8	35	22	-	7	16	21	114	91
HEALTH ASSESSMENT AND TREATING OCCUPATIONS	4 138	2 739	1 384	167	432	785	9	6	85	416	2 956	484
TEACHERS, LIBRARIANS, AND COUNSELORS	11 763	1 825	9 873	189	851	8 833	49	16	638	3 252	6 789	745
TEACHERS, ELEMENTARY AND SECONDARY SCHOOLS	9 486	1 211	8 263	131	282	7 850	12	-	390	2 750	5 559	521
TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS	72 582	48 960	23 082	7 212	5 564	10 306	429	111	3 733	13 249	46 028	6 127
HEALTH TECHNOLOGISTS AND TECHNICIANS	5 050	3 753	1 277	180	450	647	20	-	89	764	3 418	453
TECHNOLOGISTS AND TECHNICIANS, EXCEPT HEALTH	1 345	856	489	179	172	138	-	-	130	170	882	112
SALES OCCUPATIONS	12 025	11 094	543	75	155	313	307	81	1 201	4 096	4 865	1 109
SUPERVISORS AND PROPRIETORS, SALES OCCUPATIONS	640	456	34	-	28	6	126	24	7	99	333	172
SALES REPRESENTATIVES, COMMODITIES AND FINANCE	1 342	1 237	40	14	6	20	65	-	44	205	851	212
OTHER SALES OCCUPATIONS	10 043	9 401	469	61	121	287	116	57	1 150	3 792	3 681	725
CASHIERS	5 365	4 947	351	47	74	230	31	36	525	2 098	1 939	419
ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL	54 162	33 257	20 773	6 778	4 787	9 208	102	30	2 313	8 219	36 863	4 453
COMPUTER EQUIPMENT OPERATORS	1 327	967	360	205	97	58	-	-	26	68	949	184
SECRETARIES, STENOGRAPHERS, AND TYPISTS	14 671	8 495	6 125	1 027	1 630	3 468	41	10	689	1 878	10 699	885
FINANCIAL RECORDS PROCESSING OCCUPATIONS	4 317	3 067	1 201	326	300	575	29	20	97	467	3 223	387
MAIL AND MESSAGE DISTRIBUTING OCCUPATIONS	3 169	504	2 665	2 521	50	94	-	-	60	293	2 192	444
SERVICE OCCUPATIONS	45 171	31 877	12 151	1 046	3 308	7 797	1 095	48	4 346	12 210	22 791	3 031
PRIVATE HOUSEHOLD OCCUPATIONS	3 736	3 736	-	-	-	-	-	-	922	1 533	857	141
PROTECTIVE SERVICE OCCUPATIONS	1 524	540	984	37	169	778	-	-	82	217	911	196
POLICE AND FIREFIGHTERS	511	-	511	12	31	468	-	-	14	25	383	46
SERVICE OCCUPATIONS, EXCEPT PROTECTIVE AND HOUSEHOLD	39 911	27 601	11 167	1 009	3 139	7 019	1 095	48	3 342	10 460	21 023	2 694
FOOD SERVICE OCCUPATIONS	9 390	7 346	1 950	184	529	1 237	55	39	1 199	3 134	3 931	577
CLEANING AND BUILDING SERVICE OCCUPATIONS, EXCEPT HOUSEHOLD	9 435	6 805	2 535	251	641	1 643	95	-	644	2 264	5 548	466
FARMING, FORESTRY, AND FISHING OCCUPATIONS	200	52	90	6	28	56	56	2	20	54	91	23
FARM OPERATORS AND MANAGERS	17	-	-	-	-	-	17	-	2	-	11	4
FARM WORKERS AND RELATED OCCUPATIONS	178	47	90	6	28	56	39	2	18	54	75	19
PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS	3 406	2 989	283	113	28	142	121	13	131	541	1 990	559
MECHANICS AND REPAIRERS	671	631	29	16	9	4	11	-	5	82	400	149
CONSTRUCTION TRADES	323	239	84	15	-	69	-	-	24	12	204	48
PRECISION PRODUCTION OCCUPATIONS	2 399	2 106	170	82	19	69	110	13	102	447	1 373	362
OPERATORS, FABRICATORS, AND LABORERS	27 600	25 720	1 814	441	282	1 091	66	-	923	3 994	17 359	2 370
MACHINE OPERATORS AND TENDERS, EXCEPT PRECISION	10 995	10 528	440	129	108	203	27	-	409	1 485	7 151	803
FABRICATORS, ASSEMBLERS, INSPECTORS, AND SAMPLERS	11 497	11 255	242	93	23	126	-	-	285	1 364	7 392	1 127
TRANSPORTATION OCCUPATIONS	1 408	635	752	40	107	605	21	-	39	457	640	161
MOTOR VEHICLE OPERATORS	1 386	625	740	28	107	605	21	-	39	450	635	161
MATERIAL MOVING EQUIPMENT OPERATORS	390	363	27	4	-	23	-	-	-	41	234	37
HANDLERS, EQUIPMENT CLEANERS, HELPERS, AND LABORERS	3 310	2 939	353	175	44	134	18	-	190	647	1 942	242
CONSTRUCTION LABORERS	34	24	10	-	-	10	-	-	3	20	11	-
FREIGHT, STOCK, AND MATERIAL HANDLERS	746	571	175	140	15	20	-	-	80	164	357	93

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

MICHIGAN

	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY	1 TO 14	15 TO 34	35 TO 40	41+
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	HOURS	HOURS	HOURS	HOURS
AMERICAN INDIAN, ESKIMO, ALEUT												
MALES 16 YEARS AND OVER.	8 340	6 625	1 359	349	372	638	331	25	403	1 013	4 348	2 173
MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS	965	520	405	108	109	188	32	8	43	64	465	369
EXECUTIVE, ADMINISTRATIVE, AND MANAGERIAL OCCUPATIONS.	512	275	209	74	51	84	20	8	-	17	273	216
OFFICIALS AND ADMINISTRATORS, PUBLIC ADMINISTRATION.	70	-	70	37	10	23	-	-	-	-	47	21
MANAGEMENT RELATED OCCUPATIONS . . .	137	71	66	18	15	33	-	-	-	4	94	39
PROFESSIONAL SPECIALTY OCCUPATIONS . .	453	245	196	34	58	104	12	-	43	47	192	153
ENGINEERS AND NATURAL SCIENTISTS . .	127	94	33	8	11	14	-	-	-	-	73	54
ENGINEERS	93	75	18	2	2	14	-	-	-	-	52	41
HEALTH DIAGNOSING OCCUPATIONS. . . .	20	19	-	-	-	-	1	-	7	-	-	13
HEALTH ASSESSMENT AND TREATING OCCUPATIONS	23	9	14	12	2	-	-	-	-	7	16	-
TEACHERS, LIBRARIANS, AND COUNSELORS	151	20	131	13	39	79	-	-	13	25	66	41
TEACHERS, ELEMENTARY AND SECONDARY SCHOOLS.	92	8	84	9	2	73	-	-	6	9	56	15
TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS	914	733	133	78	38	17	48	-	43	82	456	312
HEALTH TECHNOLOGISTS AND TECHNICIANS .	15	15	-	-	-	-	-	-	-	5	5	5
TECHNOLOGISTS AND TECHNICIANS, EXCEPT HEALTH.	137	109	26	14	12	-	2	-	-	-	71	66
SALES OCCUPATIONS.	403	357	-	-	-	-	46	-	35	34	136	188
SUPERVISORS AND PROPRIETORS, SALES OCCUPATIONS	73	66	-	-	-	-	7	-	5	10	26	32
SALES REPRESENTATIVES, COMMODITIES AND FINANCE	184	149	-	-	-	-	35	-	11	15	62	89
OTHER SALES OCCUPATIONS.	146	142	-	-	-	-	4	-	19	9	48	67
CASHIERS.	24	24	-	-	-	-	-	-	5	-	7	12
ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL.	359	252	107	64	26	17	-	-	8	43	244	53
COMPUTER EQUIPMENT OPERATORS	-	-	-	-	-	-	-	-	-	-	-	-
SECRETARIES, STENOGRAPHERS, AND TYPISTS	15	9	6	-	6	-	-	-	-	10	5	-
FINANCIAL RECORDS PROCESSING OCCUPATIONS	33	20	13	2	-	11	-	-	-	-	31	-
MAIL AND MESSAGE DISTRIBUTING OCCUPATIONS	33	-	33	33	-	-	-	-	-	-	15	18
SERVICE OCCUPATIONS.	1 004	595	386	47	133	206	23	-	111	221	461	201
PRIVATE HOUSEHOLD OCCUPATIONS.	5	5	-	-	-	-	-	-	5	-	-	-
PROTECTIVE SERVICE OCCUPATIONS	327	139	188	9	64	115	-	-	20	38	159	107
POLICE AND FIREFIGHTERS.	113	-	113	2	25	86	-	-	-	2	44	64
SERVICE OCCUPATIONS, EXCEPT PROTECTIVE AND HOUSEHOLD	672	451	198	38	69	91	23	-	86	183	302	94
FOOD SERVICE OCCUPATIONS	230	189	34	-	17	17	7	-	36	102	56	34
CLEANING AND BUILDING SERVICE OCCUPATIONS, EXCEPT HOUSEHOLD	387	226	145	35	40	70	16	-	39	70	218	57
FARMING, FORESTRY, AND FISHING OCCUPATIONS	312	199	22	10	-	12	81	10	36	48	157	61
FARM OPERATORS AND MANAGERS.	30	6	-	-	-	-	24	-	5	2	8	15
FARM WORKERS AND RELATED OCCUPATIONS .	174	142	19	7	-	12	3	10	20	30	99	16
PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS	1 998	1 669	218	55	43	120	104	7	54	215	1 021	560
MECHANICS AND REPAIRERS.	672	583	54	18	2	34	35	-	21	30	378	205
CONSTRUCTION TRADES.	717	534	107	24	24	59	69	7	26	145	375	126
PRECISION PRODUCTION OCCUPATIONS . . .	589	532	57	13	17	27	-	-	7	40	254	223
OPERATORS, FABRICATORS, AND LABORERS . .	3 147	2 909	195	51	49	95	43	-	116	383	1 788	670
MACHINE OPERATORS AND TENDERS, EXCEPT PRECISION	860	844	3	3	-	-	13	-	22	85	483	205
FABRICATORS, ASSEMBLERS, INSPECTORS, AND SAMPLERS.	691	667	10	-	-	10	14	-	19	61	491	75
TRANSPORTATION OCCUPATIONS	642	557	71	12	17	42	14	-	20	68	315	212
MOTOR VEHICLE OPERATORS.	573	500	59	2	15	42	14	-	20	60	278	188
MATERIAL MOVING EQUIPMENT OPERATORS. .	288	266	22	-	11	11	-	-	3	30	173	61
HANDLERS, EQUIPMENT CLEANERS, HELPERS, AND LABORERS	666	575	89	36	21	32	2	-	52	139	326	117
CONSTRUCTION LABORERS.	115	84	31	8	7	16	-	-	3	4	70	21
FREIGHT, STOCK, AND MATERIAL HANDLERS.	209	187	22	18	-	4	-	-	23	63	93	30

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

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MICHIGAN

	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY	1 TO 14	15 TO 34	35 TO 40	41+
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	HOURS	HOURS	HOURS	HOURS
AMERICAN INDIAN, ESKIMO, ALEUT												
FEMALES 16 YEARS AND OVER	5 577	3 970	1 475	364	426	685	120	12	463	1 335	2 793	682
MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS	882	424	431	78	132	221	20	7	67	166	499	122
EXECUTIVE, ADMINISTRATIVE, AND MANAGERIAL OCCUPATIONS	332	215	108	35	27	46	2	7	1	34	208	79
OFFICIALS AND ADMINISTRATORS, PUBLIC ADMINISTRATION	34	-	34	10	8	16	-	-	1	7	26	-
MANAGEMENT RELATED OCCUPATIONS	67	47	20	4	10	6	-	-	-	2	49	14
PROFESSIONAL SPECIALTY OCCUPATIONS	550	209	323	43	105	175	18	-	66	132	291	43
ENGINEERS AND NATURAL SCIENTISTS	10	10	-	-	-	-	-	-	-	3	7	-
ENGINEERS	7	7	-	-	-	-	-	-	-	-	7	-
HEALTH DIAGNOSING OCCUPATIONS	12	12	-	-	-	-	-	-	-	7	5	-
HEALTH ASSESSMENT AND TREATING OCCUPATIONS	92	77	15	9	-	6	-	-	-	11	45	29
TEACHERS, LIBRARIANS, AND COUNSELORS	289	51	232	24	60	148	6	-	61	84	136	2
TEACHERS, ELEMENTARY AND SECONDARY SCHOOLS	180	18	162	7	18	137	-	-	15	58	99	2
TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS	1 983	1 359	596	196	186	214	23	5	161	412	1 085	239
HEALTH TECHNOLOGISTS AND TECHNICIANS	121	102	19	-	8	11	-	-	-	28	59	27
TECHNOLOGISTS AND TECHNICIANS, EXCEPT HEALTH	68	54	14	3	11	-	-	-	2	13	46	7
SALES OCCUPATIONS	439	393	30	3	9	18	16	-	71	176	117	35
SUPERVISORS AND PROPRIETORS, SALES OCCUPATIONS	18	8	1	1	-	-	9	-	2	2	11	3
SALES REPRESENTATIVES, COMMODITIES AND FINANCE	76	67	2	2	-	-	7	-	-	17	17	21
OTHER SALES OCCUPATIONS	345	318	27	-	9	18	-	-	69	157	89	11
CASHIERS	200	173	27	-	9	18	-	-	28	114	44	5
ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL	1 355	810	533	190	158	185	7	5	88	195	863	170
COMPUTER EQUIPMENT OPERATORS	36	32	4	2	-	2	-	-	2	2	32	-
SECRETARIES, STENOGRAPHERS, AND TYPISTS	409	205	204	63	64	77	-	-	16	35	317	39
FINANCIAL RECORDS PROCESSING OCCUPATIONS	150	122	18	9	7	2	5	5	18	8	60	60
MAIL AND MESSAGE DISTRIBUTING OCCUPATIONS	37	1	36	36	-	-	-	-	2	7	18	10
SERVICE OCCUPATIONS	1 616	1 194	350	55	94	201	72	-	192	563	610	152
PRIVATE HOUSEHOLD OCCUPATIONS	119	119	-	-	-	-	-	-	55	17	36	11
PROTECTIVE SERVICE OCCUPATIONS	85	27	58	20	10	28	-	-	6	22	57	-
POLICE AND FIREFIGHTERS	19	-	19	4	-	15	-	-	-	6	13	-
SERVICE OCCUPATIONS, EXCEPT PROTECTIVE AND HOUSEHOLD	1 412	1 048	292	35	84	173	72	-	131	524	517	141
FOOD SERVICE OCCUPATIONS	621	578	37	14	11	12	6	-	91	280	152	59
CLEANING AND BUILDING SERVICE OCCUPATIONS, EXCEPT HOUSEHOLD	224	142	82	8	31	43	-	-	16	75	97	13
FARMING, FORESTRY, AND FISHING OCCUPATIONS	21	6	15	11	-	4	-	-	2	10	9	-
FARM OPERATORS AND MANAGERS	-	-	-	-	-	-	-	-	-	-	-	-
FARM WORKERS AND RELATED OCCUPATIONS	19	6	13	11	-	2	-	-	2	10	7	-
PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS	143	138	5	2	3	-	-	-	-	30	58	35
MECHANICS AND REPAIRERS	34	34	-	-	-	-	-	-	-	8	18	8
CONSTRUCTION TRADES	12	7	5	2	3	-	-	-	-	-	-	7
PRECISION PRODUCTION OCCUPATIONS	97	97	-	-	-	-	-	-	-	22	40	20
OPERATORS, FABRICATORS, AND LABORERS	932	849	78	22	11	45	5	-	41	154	532	134
MACHINE OPERATORS AND TENDERS, EXCEPT PRECISION	386	365	19	10	-	9	2	-	9	58	250	47
FABRICATORS, ASSEMBLERS, INSPECTORS, AND SAMPLERS	332	324	8	2	6	-	-	-	8	41	197	50
TRANSPORTATION OCCUPATIONS	82	51	31	-	-	31	-	-	9	25	18	22
MOTOR VEHICLE OPERATORS	82	51	31	-	-	31	-	-	9	25	18	22
MATERIAL MOVING EQUIPMENT OPERATORS	17	17	-	-	-	-	-	-	-	-	11	6
HANDLERS, EQUIPMENT CLEANERS, HELPERS, AND LABORERS	115	92	20	10	5	5	3	-	15	30	56	9
CONSTRUCTION LABORERS	5	-	5	-	5	-	-	-	-	-	5	-
FREIGHT, STOCK, AND MATERIAL HANDLERS	33	23	7	7	-	-	3	-	10	14	9	-

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

MICHIGAN	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY	1 TO 14	15 TO 34	35 TO 40	41+
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	HOURS	HOURS	HOURS	HOURS
ASIAN AND PACIFIC ISLANDER												
MALES 16 YEARS AND OVER	14 341	11 382	2 184	248	1 315	621	734	41	688	1 162	7 353	4 918
MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS	7 513	5 498	1 500	171	897	432	501	14	175	356	3 835	3 054
EXECUTIVE, ADMINISTRATIVE, AND MANAGERIAL OCCUPATIONS	1 508	1 170	186	16	120	50	138	14	16	44	745	652
OFFICIALS AND ADMINISTRATORS, PUBLIC ADMINISTRATION	28	-	28	-	16	12	-	-	-	-	5	23
MANAGEMENT RELATED OCCUPATIONS	359	267	84	16	50	18	8	-	5	15	252	67
PROFESSIONAL SPECIALTY OCCUPATIONS	6 005	4 328	1 314	155	777	382	363	-	159	312	3 090	2 402
ENGINEERS AND NATURAL SCIENTISTS	2 686	2 345	317	51	116	150	24	-	31	62	1 842	737
ENGINEERS	2 001	1 809	173	36	36	101	19	-	31	43	1 285	630
HEALTH DIAGNOSING OCCUPATIONS	2 027	1 450	261	68	145	48	316	-	7	33	577	1 389
HEALTH ASSESSMENT AND TREATING OCCUPATIONS	178	148	30	-	4	26	-	-	6	8	102	62
TEACHERS, LIBRARIANS, AND COUNSELORS	805	141	656	18	490	148	8	-	82	183	412	121
TEACHERS, ELEMENTARY AND SECONDARY SCHOOLS	167	28	139	-	23	116	-	-	32	15	111	9
TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS	2 255	1 726	404	58	299	47	118	7	234	252	1 148	591
HEALTH TECHNOLOGISTS AND TECHNICIANS	192	163	29	-	24	5	-	-	7	2	139	44
TECHNOLOGISTS AND TECHNICIANS, EXCEPT HEALTH	796	602	194	39	132	23	-	-	40	109	438	204
SALES OCCUPATIONS	606	481	-	-	-	-	118	7	58	47	255	235
SUPERVISORS AND PROPRIETORS, SALES OCCUPATIONS	184	125	-	-	-	-	59	-	7	12	65	94
SALES REPRESENTATIVES, COMMODITIES AND FINANCE	224	182	-	-	-	-	42	-	4	8	139	69
OTHER SALES OCCUPATIONS	198	174	-	-	-	-	17	7	47	27	51	72
CASHIERS	64	57	-	-	-	-	-	7	19	14	10	20
ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL	661	480	181	19	143	19	-	-	129	94	316	108
COMPUTER EQUIPMENT OPERATORS	54	34	20	-	20	-	-	-	-	7	38	9
SECRETARIES, STENOGRAPHERS, AND TYPISTS	6	6	-	-	-	-	-	-	-	-	6	-
FINANCIAL RECORDS PROCESSING OCCUPATIONS	73	60	13	2	3	8	-	-	10	8	42	13
MAIL AND MESSAGE DISTRIBUTING OCCUPATIONS	19	9	10	10	-	-	-	-	-	4	15	-
SERVICE OCCUPATIONS	1 639	1 401	169	16	68	85	49	20	156	306	597	552
PRIVATE HOUSEHOLD OCCUPATIONS	5	5	-	-	-	-	-	-	-	-	5	-
PROTECTIVE SERVICE OCCUPATIONS	76	18	58	6	9	43	-	-	-	19	51	6
POLICE AND FIREFIGHTERS	34	-	34	-	-	34	-	-	-	7	24	3
SERVICE OCCUPATIONS, EXCEPT PROTECTIVE AND HOUSEHOLD	1 558	1 378	111	10	59	42	49	20	156	287	541	546
FOOD SERVICE OCCUPATIONS	1 015	922	29	-	29	-	44	20	59	188	316	435
CLEANING AND BUILDING SERVICE OCCUPATIONS, EXCEPT HOUSEHOLD	308	264	44	3	15	26	-	-	66	70	114	47
FARMING, FORESTRY, AND FISHING OCCUPATIONS	62	46	13	-	13	-	3	-	22	20	17	3
FARM OPERATORS AND MANAGERS	3	-	-	-	-	-	3	-	2	-	-	1
FARM WORKERS AND RELATED OCCUPATIONS	59	46	13	-	13	-	-	-	20	20	17	2
PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS	1 093	985	68	3	30	35	40	-	34	36	640	359
MECHANICS AND REPAIRERS	411	364	33	-	25	8	14	-	6	23	245	132
CONSTRUCTION TRADES	123	101	14	-	-	14	8	-	20	-	66	37
PRECISION PRODUCTION OCCUPATIONS	555	516	21	3	5	13	18	-	8	13	325	190
OPERATORS, FABRICATORS, AND LABORERS	1 779	1 726	30	-	8	22	23	-	67	192	1 116	359
MACHINE OPERATORS AND TENDERS, EXCEPT PRECISION	653	642	2	-	-	2	9	-	21	59	403	156
FABRICATORS, ASSEMBLERS, INSPECTORS, AND SAMPLERS	451	445	6	-	-	6	-	-	-	11	346	88
TRANSPORTATION OCCUPATIONS	107	93	8	-	-	8	6	-	15	2	70	20
MOTOR VEHICLE OPERATORS	92	78	8	-	-	8	6	-	15	2	55	20
MATERIAL MOVING EQUIPMENT OPERATORS	127	127	-	-	-	-	-	-	-	3	85	39
HANDLERS, EQUIPMENT CLEANERS, HELPERS, AND LABORERS	441	419	14	-	8	6	8	-	31	117	212	56
CONSTRUCTION LABORERS	30	16	14	-	8	6	-	-	-	4	16	10
FREIGHT, STOCK, AND MATERIAL HANDLERS	134	134	-	-	-	-	-	-	11	51	31	22

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

MICHIGAN	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY				
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	1 TO 14 HOURS	15 TO 34 HOURS	35 TO 40 HOURS	41+ HOURS
ASIAN AND PACIFIC ISLANDER												
FEMALES 16 YEARS AND OVER	10 621	8 156	1 962	232	868	862	354	149	868	2 084	5 769	1 583
MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS	4 029	2 651	1 157	82	446	629	169	52	239	544	2 405	720
EXECUTIVE, ADMINISTRATIVE, AND MANAGERIAL OCCUPATIONS	519	368	64	5	25	34	47	40	29	40	316	110
OFFICIALS AND ADMINISTRATORS, PUBLIC ADMINISTRATION	-	-	-	-	-	-	-	-	-	-	-	-
MANAGEMENT RELATED OCCUPATIONS	236	192	40	5	16	19	4	-	5	11	166	37
PROFESSIONAL SPECIALTY OCCUPATIONS	3 510	2 283	1 093	77	421	595	122	12	210	504	2 089	610
ENGINEERS AND NATURAL SCIENTISTS	207	179	28	-	22	6	-	-	6	14	150	31
ENGINEERS	70	60	10	-	10	-	-	-	-	10	47	13
HEALTH DIAGNOSING OCCUPATIONS	619	391	160	21	105	34	65	3	22	100	230	258
HEALTH ASSESSMENT AND TREATING OCCUPATIONS	1 777	1 415	353	26	120	207	9	-	38	168	1 284	228
TEACHERS, LIBRARIANS, AND COUNSELORS	697	209	469	24	150	295	10	9	113	174	320	67
TEACHERS, ELEMENTARY AND SECONDARY SCHOOLS	374	101	273	-	11	262	-	-	41	95	191	35
TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS	3 281	2 556	581	118	328	135	105	39	306	680	1 779	421
HEALTH TECHNOLOGISTS AND TECHNICIANS	470	408	62	5	33	24	-	-	13	83	300	66
TECHNOLOGISTS AND TECHNICIANS, EXCEPT HEALTH	250	165	85	30	44	11	-	-	25	8	158	53
SALES OCCUPATIONS	726	576	38	5	21	12	78	34	139	216	215	139
SUPERVISORS AND PROPRIETORS, SALES OCCUPATIONS	84	52	-	-	-	-	19	13	-	-	39	39
SALES REPRESENTATIVES, COMMODITIES AND FINANCE	66	44	-	-	-	-	22	-	11	14	25	5
OTHER SALES OCCUPATIONS	576	480	38	5	21	12	37	21	128	202	151	95
CASHIERS	265	225	33	-	21	12	-	7	86	101	38	40
ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL	1 835	1 407	396	78	230	88	27	5	129	373	1 106	163
COMPUTER EQUIPMENT OPERATORS	63	57	6	-	6	-	-	-	-	3	47	7
SECRETARIES, STENOGRAPHERS, AND TYPISTS	546	350	172	33	111	28	19	5	50	82	343	61
FINANCIAL RECORDS PROCESSING OCCUPATIONS	224	173	43	14	27	2	8	-	19	15	150	21
MAIL AND MESSAGE DISTRIBUTING OCCUPATIONS	28	11	17	8	9	-	-	-	-	6	17	5
SERVICE OCCUPATIONS	2 171	1 888	184	27	76	81	49	50	267	690	899	269
PRIVATE HOUSEHOLD OCCUPATIONS	58	58	-	-	-	-	-	-	12	18	21	2
PROTECTIVE SERVICE OCCUPATIONS	20	13	7	-	-	7	-	-	-	6	14	-
POLICE AND FIREFIGHTERS	7	-	7	-	-	7	-	-	-	-	7	-
SERVICE OCCUPATIONS, EXCEPT PROTECTIVE AND HOUSEHOLD	2 093	1 817	177	27	76	74	49	50	255	666	864	267
FOOD SERVICE OCCUPATIONS	1 110	996	56	17	33	6	8	50	128	447	323	189
CLEANING AND BUILDING SERVICE OCCUPATIONS, EXCEPT HOUSEHOLD	174	129	45	8	26	11	-	-	52	46	59	17
FARMING, FORESTRY, AND FISHING OCCUPATIONS	45	18	19	-	7	12	6	2	10	13	22	-
FARM OPERATORS AND MANAGERS	4	-	-	-	-	-	4	-	-	4	-	-
FARM WORKERS AND RELATED OCCUPATIONS	41	18	19	-	7	12	2	2	10	9	22	-
PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS	151	125	9	5	-	4	17	-	17	27	63	33
MECHANICS AND REPAIRERS	21	21	-	-	-	-	-	-	-	-	12	-
CONSTRUCTION TRADES	13	8	5	5	-	-	-	-	5	-	6	-
PRECISION PRODUCTION OCCUPATIONS	117	96	4	-	-	4	17	-	12	27	45	33
OPERATORS, FABRICATORS, AND LABORERS	944	918	12	-	11	1	8	6	29	130	601	140
MACHINE OPERATORS AND TENDERS, EXCEPT PRECISION	412	403	9	-	9	-	-	-	13	49	252	61
FABRICATORS, ASSEMBLERS, INSPECTORS, AND SAMPLERS	396	396	-	-	-	-	-	-	10	68	254	57
TRANSPORTATION OCCUPATIONS	3	-	3	-	2	1	-	-	-	3	-	-
MOTOR VEHICLE OPERATORS	3	-	3	-	2	1	-	-	-	3	-	-
MATERIAL MOVING EQUIPMENT OPERATORS	-	-	-	-	-	-	-	-	-	-	-	-
HANDLERS, EQUIPMENT CLEANERS, HELPERS, AND LABORERS	133	119	-	-	-	-	8	6	6	10	95	22
CONSTRUCTION LABORERS	-	-	-	-	-	-	-	-	-	-	-	-
FREIGHT, STOCK, AND MATERIAL HANDLERS	25	25	-	-	-	-	-	-	-	5	20	-

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

MICHIGAN

	EMPLOYED PERSONS								PERSONS AT WORK			
	TOTAL	PRIV. WAGE AND SALARY WORKERS	GOVERNMENT WORKERS TOTAL	GOVERNMENT WORKERS FEDERAL	GOVERNMENT WORKERS STATE	GOVERNMENT WORKERS LOCAL	SELF-EMPLOYED WORKERS	UNPAID FAMILY WORKERS	1 TO 14 HOURS	15 TO 34 HOURS	35 TO 40 HOURS	41+ HOURS
SPANISH ORIGIN												
MALES 16 YEARS AND OVER.	29 852	25 192	3 536	551	1 120	1 865	1 075	49	1 235	3 329	16 646	7 422
MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS	3 921	2 561	1 025	96	442	487	335	-	107	318	1 844	1 546
EXECUTIVE, ADMINISTRATIVE, AND MANAGERIAL OCCUPATIONS.	1 645	1 226	305	34	128	143	114	-	20	86	842	647
OFFICIALS AND ADMINISTRATORS, PUBLIC ADMINISTRATION.	57	-	57	-	21	36	-	-	-	-	50	-
MANAGEMENT RELATED OCCUPATIONS . . .	446	297	132	21	66	45	17	-	-	34	252	160
PROFESSIONAL SPECIALTY OCCUPATIONS . .	2 276	1 335	720	62	314	344	221	-	87	232	1 002	899
ENGINEERS AND NATURAL SCIENTISTS . .	635	542	93	35	34	24	-	-	-	14	429	175
ENGINEERS	436	407	29	11	9	9	-	-	-	9	280	141
HEALTH DIAGNOSING OCCUPATIONS. . . .	440	309	42	-	37	5	89	-	-	5	84	338
HEALTH ASSESSMENT AND TREATING OCCUPATIONS	127	98	24	8	9	7	5	-	-	5	69	42
TEACHERS, LIBRARIANS, AND COUNSELORS	520	108	406	13	171	222	6	-	49	100	191	166
TEACHERS, ELEMENTARY AND SECONDARY SCHOOLS.	224	28	196	-	-	196	-	-	26	37	89	58
TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS	3 786	2 964	653	234	262	157	169	-	183	486	2 006	1 039
HEALTH TECHNOLOGISTS AND TECHNICIANS .	104	76	28	-	14	14	-	-	-	14	57	33
TECHNOLOGISTS AND TECHNICIANS, EXCEPT HEALTH.	572	444	118	31	70	17	10	-	27	77	308	154
SALES OCCUPATIONS.	1 352	1 193	13	6	-	7	146	-	51	215	506	525
SUPERVISORS AND PROPRIETORS, SALES OCCUPATIONS	354	265	-	-	-	-	89	-	-	-	152	185
SALES REPRESENTATIVES, COMMODITIES AND FINANCE	361	343	-	-	-	-	18	-	12	12	142	195
OTHER SALES OCCUPATIONS.	637	585	13	6	-	7	39	-	39	203	212	145
CASHIERS.	178	165	13	6	-	7	-	-	20	73	47	30
ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL.	1 758	1 251	494	197	178	119	13	-	105	180	1 135	327
COMPUTER EQUIPMENT OPERATORS	50	37	13	-	13	-	-	-	-	10	26	14
SECRETARIES, STENOGRAPHERS, AND TYPISTS	91	62	27	-	8	19	2	-	7	22	24	38
FINANCIAL RECORDS PROCESSING OCCUPATIONS	89	26	52	8	30	14	11	-	6	17	63	3
MAIL AND MESSAGE DISTRIBUTING OCCUPATIONS	199	57	142	128	14	-	-	-	31	13	133	22
SERVICE OCCUPATIONS.	3 688	2 517	1 032	58	282	692	137	2	414	785	1 835	531
PRIVATE HOUSEHOLD OCCUPATIONS.	-	-	-	-	-	-	-	-	-	-	-	-
PROTECTIVE SERVICE OCCUPATIONS	633	280	353	7	63	283	-	-	24	99	336	165
POLICE AND FIREFIGHTERS.	274	-	274	-	37	237	-	-	-	8	160	99
SERVICE OCCUPATIONS, EXCEPT PROTECTIVE AND HOUSEHOLD	3 055	2 237	679	51	219	409	137	2	390	686	1 499	366
FOOD SERVICE OCCUPATIONS	1 090	1 010	54	-	44	10	26	-	183	412	347	106
CLEANING AND BUILDING SERVICE OCCUPATIONS, EXCEPT HOUSEHOLD	1 581	1 042	518	41	106	371	21	-	179	217	963	167
FARMING, FORESTRY, AND FISHING OCCUPATIONS	809	668	101	9	34	58	40	-	62	177	290	263
FARM OPERATORS AND MANAGERS.	67	36	-	-	-	-	31	-	9	26	23	7
FARM WORKERS AND RELATED OCCUPATIONS .	724	625	92	-	34	58	7	-	53	151	253	254
PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS	5 390	4 798	295	50	42	203	274	23	136	437	3 086	1 464
MECHANICS AND REPAIRERS.	2 115	1 876	139	31	27	81	86	14	53	133	1 309	517
CONSTRUCTION TRADES.	1 368	1 154	90	13	8	69	115	9	82	221	740	227
PRECISION PRODUCTION OCCUPATIONS . . .	1 905	1 766	66	6	7	53	73	-	1	83	1 037	718
OPERATORS, FABRICATORS, AND LABORERS . .	12 258	11 684	430	104	58	268	120	24	333	1 126	7 585	2 579
MACHINE OPERATORS AND TENDERS, EXCEPT PRECISION	4 075	3 978	52	9	20	23	45	-	88	289	2 608	883
FABRICATORS, ASSEMBLERS, INSPECTORS, AND SAMPLERS.	3 848	3 783	55	-	1	54	10	-	37	217	2 555	788
TRANSPORTATION OCCUPATIONS	1 138	1 005	109	21	3	85	24	-	42	119	609	337
MOTOR VEHICLE OPERATORS.	1 059	932	103	15	3	85	24	-	42	119	559	311
MATERIAL MOVING EQUIPMENT OPERATORS. .	946	886	54	25	18	11	6	-	-	44	608	250
HANDLERS, EQUIPMENT CLEANERS, HELPERS, AND LABORERS	2 251	2 032	160	49	16	95	35	24	166	457	1 205	321
CONSTRUCTION LABORERS.	226	186	40	-	16	24	-	-	16	46	131	19
FREIGHT, STOCK, AND MATERIAL HANDLERS.	678	584	73	20	-	53	11	10	58	204	314	63

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

MICHIGAN	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY	1 TO 14	15 TO 34	35 TO 40	41+
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	HOURS	HOURS	HOURS	HOURS
SPANISH ORIGIN												
FEMALES 16 YEARS AND OVER	20 617	15 595	4 545	759	1 354	2 432	424	53	1 760	5 048	10 756	2 022
MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS	3 002	1 460	1 416	145	403	868	111	15	229	613	1 607	442
EXECUTIVE, ADMINISTRATIVE, AND MANAGERIAL OCCUPATIONS	862	468	313	77	88	148	66	15	27	129	489	182
OFFICIALS AND ADMINISTRATORS, PUBLIC ADMINISTRATION	25	-	25	-	11	14	-	-	-	2	23	-
MANAGEMENT RELATED OCCUPATIONS	248	137	111	37	44	30	-	-	-	35	176	27
PROFESSIONAL SPECIALTY OCCUPATIONS	2 140	992	1 103	68	315	720	45	-	202	484	1 118	260
ENGINEERS AND NATURAL SCIENTISTS	96	90	6	-	-	6	-	-	6	10	68	12
ENGINEERS	23	23	-	-	-	-	-	-	-	10	13	-
HEALTH DIAGNOSING OCCUPATIONS	66	26	29	7	20	2	11	-	-	8	25	33
HEALTH ASSESSMENT AND TREATING OCCUPATIONS	557	425	132	27	45	60	-	-	25	108	312	76
TEACHERS, LIBRARIANS, AND COUNSELORS	988	252	722	20	139	563	14	-	147	253	491	73
TEACHERS, ELEMENTARY AND SECONDARY SCHOOLS	648	134	514	16	17	481	-	-	63	148	384	45
TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS	8 253	6 265	1 846	481	572	793	123	19	659	1 868	4 728	693
HEALTH TECHNOLOGISTS AND TECHNICIANS	355	323	26	3	13	10	6	-	17	61	221	41
TECHNOLOGISTS AND TECHNICIANS, EXCEPT HEALTH	232	143	89	37	28	24	-	-	35	23	129	34
SALES OCCUPATIONS	2 029	1 893	35	11	12	12	98	3	289	749	702	205
SUPERVISORS AND PROPRIETORS, SALES OCCUPATIONS	147	114	-	-	-	-	33	-	-	21	46	80
SALES REPRESENTATIVES, COMMODITIES AND FINANCE	214	185	11	11	-	-	18	-	4	47	127	36
OTHER SALES OCCUPATIONS	1 668	1 594	24	-	12	12	47	3	285	681	529	89
CASHIERS	810	781	19	-	11	8	10	-	161	322	263	43
ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL	5 637	3 906	1 696	430	519	747	19	16	318	1 035	3 676	413
COMPUTER EQUIPMENT OPERATORS	88	73	9	9	-	-	6	-	-	6	75	-
SECRETARIES, STENOGRAPHERS, AND TYPISTS	1 952	1 321	610	122	228	260	13	8	118	304	1 308	147
FINANCIAL RECORDS PROCESSING OCCUPATIONS	608	515	91	46	15	30	-	2	17	115	404	52
MAIL AND MESSAGE DISTRIBUTING OCCUPATIONS	118	43	75	57	18	-	-	-	-	22	64	18
SERVICE OCCUPATIONS	5 005	3 747	1 119	94	352	673	137	2	652	1 817	1 927	344
PRIVATE HOUSEHOLD OCCUPATIONS	239	239	-	-	-	-	-	-	67	101	48	23
PROTECTIVE SERVICE OCCUPATIONS	82	39	43	11	-	32	-	-	7	16	49	10
POLICE AND FIREFIGHTERS	18	-	18	-	-	18	-	-	-	-	13	5
SERVICE OCCUPATIONS, EXCEPT PROTECTIVE AND HOUSEHOLD	4 684	3 469	1 076	83	352	641	137	2	578	1 700	1 830	311
FOOD SERVICE OCCUPATIONS	1 871	1 638	193	9	64	120	38	2	340	834	444	133
CLEANING AND BUILDING SERVICE OCCUPATIONS, EXCEPT HOUSEHOLD	993	736	252	26	98	128	5	-	86	307	511	39
FARMING, FORESTRY, AND FISHING OCCUPATIONS	278	250	4	-	2	2	20	4	10	111	110	36
FARM OPERATORS AND MANAGERS	8	-	-	-	-	-	8	-	-	2	2	4
FARM WORKERS AND RELATED OCCUPATIONS	270	250	4	-	2	2	12	4	10	109	108	32
PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS	346	320	8	-	-	8	18	-	6	41	214	71
MECHANICS AND REPAIRERS	90	78	8	-	-	8	4	-	-	8	55	19
CONSTRUCTION TRADES	21	21	-	-	-	-	-	-	-	4	17	-
PRECISION PRODUCTION OCCUPATIONS	235	221	-	-	-	-	14	-	6	29	142	52
OPERATORS, FABRICATORS, AND LABORERS	3 733	3 553	152	39	25	88	15	13	204	598	2 170	436
MACHINE OPERATORS AND TENDERS, EXCEPT PRECISION	1 675	1 586	61	32	8	21	15	13	83	280	975	235
FABRICATORS, ASSEMBLERS, INSPECTORS, AND SAMPLERS	1 248	1 225	23	4	13	6	-	-	53	168	770	100
TRANSPORTATION OCCUPATIONS	110	64	46	-	4	42	-	-	11	31	53	10
MOTOR VEHICLE OPERATORS	110	64	46	-	4	42	-	-	11	31	53	10
MATERIAL MOVING EQUIPMENT OPERATORS	81	81	-	-	-	-	-	-	6	-	49	14
HANDLERS, EQUIPMENT CLEANERS, HELPERS, AND LABORERS	619	597	22	3	-	19	-	-	51	119	323	77
CONSTRUCTION LABORERS	24	7	17	-	-	17	-	-	-	5	7	12
FREIGHT, STOCK, AND MATERIAL HANDLERS	111	111	-	-	-	-	-	-	16	46	29	16

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A-SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

ANN ARBOR, MI SMSA

	EMPLOYED PERSONS								PERSONS AT WORK			
	TOTAL	PRIV. WAGE AND SALARY WORKERS	GOVERNMENT WORKERS TOTAL	GOVERNMENT WORKERS FEDERAL	GOVERNMENT WORKERS STATE	GOVERNMENT WORKERS LOCAL	SELF-EMPLOYED WORKERS	UNPAID FAMILY WORKERS	1 TO 14 HOURS	15 TO 34 HOURS	35 TO 40 HOURS	41+ HOURS
TOTAL												
MALES 16 YEARS AND OVER	70 268	49 645	16 385	1 833	10 239	4 313	4 098	140	4 728	9 259	30 987	23 512
MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS	24 108	13 562	8 776	660	5 815	2 301	1 733	37	1 279	2 205	9 862	10 429
EXECUTIVE, ADMINISTRATIVE, AND MANAGERIAL OCCUPATIONS	8 241	6 013	1 572	175	928	469	638	18	218	389	3 361	4 157
OFFICIALS AND ADMINISTRATORS, PUBLIC ADMINISTRATION	205	-	205	51	44	110	-	-	18	7	107	67
ADMINISTRATORS, EDUCATION AND RELATED FIELDS	744	86	650	6	466	178	8	-	20	29	365	309
MANAGERS, MEDICINE AND HEALTH	137	75	62	19	38	5	-	-	-	7	71	59
OTHER SPECIFIED MANAGERS	1 359	1 202	81	18	45	18	76	-	31	66	504	747
MANAGERS AND ADMINISTRATORS, N.E.C., SALARIED	3 491	3 152	339	47	202	90	-	-	58	114	1 272	1 993
MANUFACTURING	1 038	1 038	-	-	-	-	-	-	5	15	395	609
TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES	174	134	40	14	1	25	-	-	-	2	90	82
WHOLESALE AND RETAIL TRADE	737	737	-	-	-	-	-	-	9	54	147	513
ALL OTHER INDUSTRIES	1 542	1 243	299	33	201	65	-	-	44	43	640	789
MANAGERS AND ADMINISTRATORS, N.E.C., SELF-EMPLOYED	426	-	-	-	-	-	412	14	38	28	84	268
CONSTRUCTION	18	-	-	-	-	-	18	-	5	-	2	11
MANUFACTURING	81	-	-	-	-	-	81	-	9	6	16	44
WHOLESALE AND RETAIL TRADE	187	-	-	-	-	-	187	-	8	11	40	128
ALL OTHER INDUSTRIES	140	-	-	-	-	-	126	14	16	11	26	85
MANAGEMENT RELATED OCCUPATIONS	1 879	1 498	235	34	133	68	142	4	53	138	958	714
ACCOUNTANTS AND AUDITORS	794	673	97	12	73	12	24	-	-	61	393	333
BUYERS AND PURCHASING AGENTS	269	224	29	-	29	-	12	4	10	-	159	100
PROFESSIONAL SPECIALTY OCCUPATIONS	15 867	7 549	7 204	485	4 887	1 832	1 095	19	1 061	1 816	6 501	6 272
ENGINEERS, ARCHITECTS, AND SURVEYORS	3 540	3 102	340	127	193	20	98	-	114	150	1 965	1 272
ARCHITECTS	267	176	18	-	18	-	73	-	21	25	130	91
ENGINEERS	3 243	2 896	322	127	175	20	25	-	85	125	1 825	1 169
ELECTRICAL AND ELECTRONIC ENGINEERS	544	483	48	14	34	-	13	-	15	18	334	177
MECHANICAL ENGINEERS	1 151	1 070	81	61	20	-	-	-	-	45	659	408
OTHER ENGINEERS	1 548	1 343	193	52	121	20	12	-	70	62	832	584
SURVEYORS AND MAPPING SCIENTISTS	30	30	-	-	-	-	-	-	8	-	10	12
MATHEMATICAL AND COMPUTER SCIENTISTS	725	538	172	50	114	8	15	-	23	72	391	234
COMPUTER SYSTEMS ANALYSTS AND SCIENTISTS	515	452	48	-	48	-	15	-	2	46	259	203
NATURAL SCIENTISTS	644	302	342	46	263	33	-	-	19	19	347	259
HEALTH DIAGNOSING OCCUPATIONS	1 603	719	522	70	411	41	362	-	46	103	325	1 103
PHYSICIANS	1 185	555	461	56	364	41	169	-	26	20	159	969
DENTISTS	330	107	61	14	47	-	162	-	20	64	128	103
OTHER HEALTH DIAGNOSING PRACTITIONERS	88	57	-	-	-	-	31	-	-	19	38	31
HEALTH ASSESSMENT AND TREATING OCCUPATIONS	523	296	202	46	156	-	25	-	29	65	252	177
REGISTERED NURSES	131	42	89	13	76	-	-	-	7	-	110	14
PHARMACISTS	200	137	43	11	32	-	20	-	22	53	28	97
THERAPISTS	167	110	57	9	48	-	-	-	-	12	89	66
TEACHERS, LIBRARIANS, AND COUNSELORS	5 503	781	4 688	27	3 219	1 442	34	-	506	912	1 994	1 995
TEACHERS, POSTSECONDARY	3 434	391	3 043	8	2 880	155	-	-	308	691	945	1 428
TEACHERS, ELEMENTARY AND PRE-KINDERGARTEN	935	87	848	-	60	788	-	-	37	49	562	267
TEACHERS, SECONDARY	537	77	460	7	30	423	-	-	29	56	250	202
SOCIAL SCIENTISTS AND URBAN PLANNERS	419	183	207	17	92	98	29	-	28	60	166	165
SOCIAL AND RECREATION WORKERS	404	101	303	20	182	101	-	-	41	54	231	73
RELIGIOUS WORKERS	322	275	5	5	-	-	42	-	6	27	69	214
LAWYERS AND JUDGES	643	296	133	40	31	62	214	-	32	73	222	309
WRITERS, ARTISTS, ENTERTAINERS, AND ATHLETES	1 541	956	290	37	226	27	276	19	217	281	539	471
TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS	14 400	10 401	3 359	866	2 186	307	626	14	1 452	2 444	5 739	4 500
TECHNICIANS AND RELATED SUPPORT OCCUPATIONS	4 107	2 543	1 487	297	1 105	85	69	8	468	782	1 701	1 117
HEALTH TECHNOLOGISTS AND TECHNICIANS	514	221	293	109	177	7	-	-	45	76	250	137
LICENSED PRACTICAL NURSES	35	4	31	6	25	-	-	-	-	-	31	4
ENGINEERING AND SCIENCE TECHNICIANS	1 370	1 051	283	49	218	16	28	8	134	213	564	444
ELECTRICAL AND ELECTRONIC TECHNICIANS	326	244	62	30	32	-	20	-	25	45	153	103
DRAFTING AND SURVEYING TECHNICIANS	385	356	23	7	14	2	6	-	25	81	158	121
TECHNICIANS, EXCEPT HEALTH, ENGINEERING, AND SCIENCE	2 223	1 271	911	139	710	62	41	-	289	493	887	536
AIRPLANE PILOTS AND NAVIGATORS	237	231	6	6	-	-	-	-	22	44	84	87
COMPUTER PROGRAMMERS	718	549	152	14	138	-	17	-	67	126	343	176
SALES OCCUPATIONS	5 417	4 763	106	-	85	21	542	6	342	758	1 904	2 290
SUPERVISORS AND PROPRIETORS, SALES OCCUPATIONS	1 246	1 056	19	-	19	-	171	-	17	93	352	765
SELF-EMPLOYED	171	-	-	-	-	-	171	-	4	9	43	115
SALES REPRESENTATIVES, FINANCE AND BUSINESS SERVICES	1 105	901	8	-	-	8	196	-	53	71	422	528
SALES REPRESENTATIVES, COMMODITIES, EXCEPT RETAIL	945	868	-	-	-	-	77	-	3	19	524	375
SALES WORKERS, RETAIL AND PERSONAL SERVICES	2 099	1 931	73	-	60	13	89	6	256	569	606	619
CASHIERS	490	437	47	-	47	-	6	-	111	187	140	28
SALES RELATED OCCUPATIONS	22	7	6	-	6	-	9	-	13	6	-	3

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

ANN ARBOR, MI SMSA	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY	1 TO 14	15 TO 34	35 TO 40	41+
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	HOURS	HOURS	HOURS	HOURS
TOTAL												
ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL	4 876	3 095	1 766	569	996	201	15	-	642	904	2 134	1 093
SUPERVISORS, ADMINISTRATIVE SUPPORT OCCUPATIONS	669	478	187	56	99	32	4	-	14	17	346	286
COMPUTER EQUIPMENT OPERATORS	237	158	79	7	57	15	-	-	8	50	130	42
SECRETARIES, STENOGRAPHERS, AND TYPISTS	93	47	46	9	23	14	-	-	12	36	19	26
SECRETARIES	52	30	22	-	17	5	-	-	6	16	13	17
RECEPTIONISTS	81	52	29	6	23	-	-	-	12	37	26	-
FILE CLERKS	109	75	34	8	26	-	-	-	29	35	22	23
FINANCIAL RECORDS PROCESSING OCCUPATIONS	256	179	76	22	29	25	1	-	26	65	110	36
BOOKKEEPERS, ACCOUNTING, AND AUDITING CLERKS	191	128	62	11	26	25	1	-	12	62	84	20
TELEPHONE OPERATORS	45	39	6	-	6	-	-	-	7	6	23	4
MAIL AND MESSAGE DISTRIBUTING OCCUPATIONS	421	94	327	293	34	-	-	-	38	47	165	165
TRAFFIC, SHIPPING, STOCK AND INVENTORY CLERKS	886	727	159	35	109	15	-	-	60	136	459	207
INSURANCE ADJUSTERS, EXAMINERS, AND INVESTIGATORS	51	51	-	-	-	-	-	-	-	7	42	2
BANK TELLERS	53	53	-	-	-	-	-	-	11	8	21	13
DATA-ENTRY KEYERS	17	6	11	-	11	-	-	-	14	3	-	-
OTHER ADMINISTRATIVE SUPPORT OCCUPATIONS	1 958	1 136	812	133	579	100	10	-	411	457	771	289
SERVICE OCCUPATIONS	7 101	4 563	2 431	182	1 411	838	94	13	1 140	1 905	2 689	1 118
PRIVATE HOUSEHOLD OCCUPATIONS	20	20	-	-	-	-	-	-	-	6	14	-
PROTECTIVE SERVICE OCCUPATIONS	1 213	515	698	42	194	462	-	-	100	177	534	346
FIREFIGHTING OCCUPATIONS	103	2	101	-	-	101	-	-	-	2	2	96
POLICE AND DETECTIVES, PUBLIC SERVICE	272	-	272	11	29	232	-	-	1	24	144	89
GUARDS	604	435	169	10	127	32	-	-	99	151	216	106
OTHER PROTECTIVE SERVICE OCCUPATIONS	234	78	156	21	38	97	-	-	-	-	172	55
SERVICE OCCUPATIONS, EXCEPT PROTECTIVE AND HOUSEHOLD	5 868	4 028	1 733	140	1 217	376	94	13	1 040	1 722	2 141	772
FOOD PREPARATION AND SERVICE OCCUPATIONS	2 584	2 052	509	18	460	31	15	8	695	1 001	548	269
WAITERS AND FOOD COUNTER WORKERS	312	293	19	-	19	-	-	-	72	189	34	6
COOKS	812	738	56	5	44	7	10	8	119	292	262	122
HEALTH SERVICE OCCUPATIONS	448	193	255	33	222	-	-	-	58	67	235	76
NURSING AIDES, ORDERLIES, AND ATTENDANTS	354	148	206	11	195	-	-	-	25	48	193	76
CLEANING AND BUILDING SERVICE OCCUPATIONS EXC. HOUSEHOLD	2 365	1 537	801	82	419	300	22	5	171	513	1 264	333
PERSONAL SERVICE OCCUPATIONS	471	246	168	7	116	45	57	-	116	141	94	94
BARBERS, HAIRDRESSERS AND COSMETOLOGISTS	84	42	-	-	-	-	42	-	-	23	24	37
FARMING, FORESTRY, AND FISHING OCCUPATIONS	1 294	499	154	-	51	103	588	53	111	160	382	625
FARM OPERATORS AND MANAGERS	637	72	-	-	-	-	565	-	29	69	104	431
FARM OCCUPATIONS, EXCEPT MANAGERIAL	273	227	-	-	-	-	-	46	40	47	33	146
RELATED AGRICULTURAL OCCUPATIONS	376	200	146	-	51	95	23	7	42	44	237	48
FORESTRY AND FISHING OCCUPATIONS	8	-	8	-	-	8	-	-	-	-	8	-
PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS	10 519	8 899	791	86	393	312	814	15	254	967	5 668	3 264
MECHANICS AND REPAIRERS	3 616	3 124	307	57	123	127	170	15	58	307	1 940	1 228
AUTOMOBILE MECHANICS, INCLUDING BODY	1 125	987	56	7	19	30	76	6	33	91	564	425
AIRCRAFT MECHANICS	203	199	4	4	-	-	-	-	-	-	161	42
HEATING, AIR CONDITIONING, AND REFRIGERATION MECHANICS	145	114	24	7	17	-	7	-	-	26	99	20
OTHER MECHANICS AND REPAIRERS	2 143	1 824	223	39	87	97	87	9	25	190	1 116	741
CONSTRUCTION TRADES	3 222	2 390	298	15	184	99	534	-	135	503	1 802	607
CARPENTERS	718	487	63	-	52	11	168	-	43	142	362	125
ELECTRICIANS	573	519	40	-	16	24	14	-	8	42	389	112
PAINTERS, CONSTRUCTION AND MAINTENANCE	381	257	33	2	24	7	91	-	41	103	172	49
PLUMBERS, PIPEFITTERS, AND STEAMFITTERS	465	369	61	8	38	15	35	-	-	70	309	54
OTHER CONSTRUCTION TRADES	1 085	758	101	5	54	42	226	-	43	146	570	267
EXTRACTIVE OCCUPATIONS	40	27	-	-	-	-	13	-	-	13	21	6
PRECISION PRODUCTION OCCUPATIONS	3 641	3 358	186	14	86	86	97	-	61	144	1 905	1 423
SUPERVISORS, PRODUCTION OCCUPATIONS	2 001	1 930	33	-	18	15	38	-	15	45	961	915
MANUFACTURING	1 618	1 604	4	-	4	-	10	-	8	45	796	729
PRECISION METALWORKING OCCUPATIONS	909	859	34	7	27	-	16	-	15	20	553	296
TOOL AND DIE MAKERS	458	451	-	-	-	-	7	-	15	-	306	121
MACHINISTS	291	269	22	-	22	-	-	-	-	9	164	109
SHEET METAL WORKERS	58	53	5	-	5	-	-	-	-	2	45	11
OTHER PRECISION METAL WORKERS	102	86	7	7	-	-	9	-	-	9	38	55
PRECISION TEXTILE, APPAREL, AND FURNISHINGS MACHINE WORKERS	13	13	-	-	-	-	-	-	5	8	-	-
PLANT AND SYSTEM OPERATORS	202	108	94	-	23	71	-	-	-	13	151	38
OTHER PRECISION PRODUCTION OCCUPATIONS	516	448	25	7	18	-	43	-	26	58	240	174

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

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ANN ARBOR, MI SMSA

	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY				
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	1 TO 14 HOURS	15 TO 34 HOURS	35 TO 40 HOURS	41+ HOURS
TOTAL												
OPERATORS, FABRICATORS, AND LABORERS	12 846	11 721	874	39	383	452	243	8	492	1 578	6 647	3 576
MACHINE OPERATORS, ASSEMBLERS, AND INSPECTORS	7 973	7 693	192	12	136	44	88	-	185	627	4 517	2 309
MACHINE OPERATORS AND TENDERS, EXCEPT PRECISION	4 223	4 013	129	12	94	23	81	-	103	382	2 297	1 325
METALWORKING AND PLASTIC WORKING MACHINE OPERATORS	1 722	1 711	5	-	-	5	6	-	5	116	948	606
PRINTING MACHINE OPERATORS	382	351	19	-	11	8	12	-	14	46	228	87
TEXTILE, APPAREL, AND FURNISHINGS MACHINE OPERATORS	103	73	-	-	-	-	30	-	-	39	50	14
TEXTILE MACHINE OPERATORS	6	2	-	-	-	-	4	-	-	-	6	-
TEXTILE SEWING MACHINE OPERATORS	-	-	-	-	-	-	-	-	-	-	-	-
LAUNDERING AND DRYCLEANING MACHINE OPERATORS	91	65	-	-	-	-	26	-	-	39	44	8
OTHER SPECIFIED MACHINE OPERATORS	868	785	67	-	67	-	16	-	50	90	402	299
MISCELLANEOUS AND NOT SPECIFIED MACHINE OPERATORS	1 148	1 093	38	12	16	10	17	-	34	91	669	319
OCCUPATION:												
MISCELLANEOUS MACHINE OPERATORS, N.E.C.	269	249	18	-	14	4	2	-	16	30	144	75
MACHINE OPERATORS, NOT SPECIFIED	879	844	20	12	2	6	15	-	18	61	525	244
INDUSTRY:												
MANUFACTURING	1 057	1 036	13	7	-	6	8	-	14	81	632	312
NONDURABLE GOODS	124	124	-	-	-	-	-	-	-	-	69	55
FOOD AND KINDRED PRODUCTS	31	31	-	-	-	-	-	-	-	-	10	21
TEXTILE MILL AND FINISHED TEXTILE PRODUCTS	5	5	-	-	-	-	-	-	-	-	5	-
PAPER AND ALLIED PRODUCTS	22	22	-	-	-	-	-	-	-	-	22	-
OTHER NONDURABLE GOODS	66	66	-	-	-	-	-	-	-	-	32	34
DURABLE GOODS, INCLUDING NOT SPECIFIED MFG	933	912	13	7	-	6	8	-	14	81	563	257
METAL INDUSTRIES	83	77	6	-	-	6	-	-	-	9	56	16
MACHINERY, INCLUDING ELECTRICAL	156	144	7	7	-	-	5	-	7	5	69	68
TRANSPORTATION EQUIPMENT	619	619	-	-	-	-	-	-	7	58	391	154
OTHER DURABLE GOODS	75	72	-	-	-	-	3	-	-	9	47	19
NONMANUFACTURING INDUSTRIES	91	57	25	5	16	4	9	-	20	10	37	7
TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES	17	15	2	-	-	2	-	-	-	-	15	-
WHOLESALE AND RETAIL TRADE	9	7	-	-	-	-	2	-	-	-	7	-
ALL OTHER INDUSTRIES	65	35	23	5	16	2	7	-	20	10	15	7
FABRICATORS, ASSEMBLERS, AND HAND WORKING OCCUPATIONS	2 811	2 796	11	-	11	-	4	-	48	207	1 591	771
WELDERS AND CUTTERS	474	465	7	-	7	-	2	-	-	23	291	160
ASSEMBLERS	2 316	2 314	-	-	-	-	2	-	44	184	1 287	607
OTHER FABRICATORS AND HAND WORKING OCCUPATIONS	21	17	4	-	4	-	-	-	4	-	13	4
PRODUCTION INSPECTORS, TESTERS, SAMPLERS, AND WEIGHERS	939	884	52	-	31	21	3	-	34	38	629	213
TRANSPORTATION AND MATERIAL MOVING OCCUPATIONS	2 679	2 042	512	26	147	339	125	-	113	287	1 260	881
MOTOR VEHICLE OPERATORS	1 908	1 353	439	20	125	294	116	-	113	229	782	687
TRUCK DRIVERS AND DRIVER-SALES WORKERS	1 461	1 147	223	20	67	136	91	-	95	161	610	541
BUS DRIVERS	224	54	170	-	47	123	-	-	11	37	94	78
RAIL AND WATER TRANSPORTATION OCCUPATIONS	31	25	6	6	-	-	-	-	-	7	18	6
MATERIAL MOVING EQUIPMENT OPERATORS	740	664	67	-	22	45	9	-	-	51	460	188
EXCAVATING, GRADING, AND DOZER MACHINE OPERATORS	8	4	2	-	-	2	2	-	-	3	2	1
HANDLERS, EQUIPMENT CLEANERS, HELPERS, AND LABORERS	2 194	1 986	170	1	100	69	30	8	194	664	870	386
CONSTRUCTION LABORERS	301	277	24	-	11	13	-	-	20	86	142	52
FREIGHT, STOCK, AND MATERIAL HANDLERS	912	838	66	-	43	23	8	-	99	341	342	100
GARAGE AND SERVICE STATION RELATED OCCUPATIONS	302	287	7	-	7	-	8	-	23	111	82	75
HAND PACKERS AND PACKAGERS	122	111	11	-	6	5	-	-	6	18	63	28
OTHER SPECIFIED HANDLERS, EQUIPMENT CLEANERS, AND HELPERS	197	181	7	-	7	-	9	-	23	49	57	45
LABORERS, EXCEPT CONSTRUCTION	360	292	55	1	26	28	5	8	23	59	184	86
MANUFACTURING	137	137	-	-	-	-	-	-	4	11	97	23
NONDURABLE GOODS	20	20	-	-	-	-	-	-	-	-	4	16
DURABLE GOODS, INCLUDING NOT SPECIFIED MFG.	117	117	-	-	-	-	-	-	4	11	93	7
METAL INDUSTRIES	31	31	-	-	-	-	-	-	1	8	15	5
NONMANUFACTURING INDUSTRIES	223	155	55	1	26	28	5	8	19	48	87	63
TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES	48	42	6	-	-	6	-	-	-	14	22	10
WHOLESALE AND RETAIL TRADE	89	88	-	-	-	-	1	-	-	19	35	35
ALL OTHER INDUSTRIES	86	25	49	1	26	22	4	8	19	15	30	18

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

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ANN ARBOR, MI SMSA

	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY				
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	1 TO 14 HOURS	15 TO 34 HOURS	35 TO 40 HOURS	41+ HOURS
TOTAL												
FEMALES 16 YEARS AND OVER	58 286	37 199	19 086	1 464	11 369	6 253	1 727	274	7 083	14 671	26 623	7 951
MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS	17 292	7 950	8 647	387	4 513	3 747	633	62	1 332	3 633	8 227	3 570
EXECUTIVE, ADMINISTRATIVE, AND MANAGERIAL OCCUPATIONS	4 458	2 951	1 311	115	840	356	159	37	155	585	2 383	1 249
OFFICIALS AND ADMINISTRATORS, PUBLIC ADMINISTRATION	93	-	93	17	14	62	-	-	-	8	67	18
ADMINISTRATORS, EDUCATION AND RELATED FIELDS	527	117	404	7	299	98	6	-	7	86	287	139
MANAGERS, MEDICINE AND HEALTH	164	88	76	9	67	-	-	-	-	8	81	75
OTHER SPECIFIED MANAGERS	545	461	61	18	26	17	23	-	26	35	289	184
MANAGERS AND ADMINISTRATORS, N.E.C., SALARIED	1 679	1 351	328	24	208	96	-	-	73	242	864	464
MANUFACTURING	123	123	-	-	-	-	-	-	-	-	81	42
TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES	65	55	10	-	-	10	-	-	-	5	31	29
WHOLESALE AND RETAIL TRADE	436	436	-	-	-	-	-	-	7	65	177	186
ALL OTHER INDUSTRIES	1 055	737	318	24	208	86	-	-	66	172	575	207
MANAGERS AND ADMINISTRATORS, N.E.C., SELF-EMPLOYED	94	-	-	-	-	-	71	23	-	26	23	45
CONSTRUCTION	-	-	-	-	-	-	-	-	-	-	-	-
MANUFACTURING	10	-	-	-	-	-	10	-	-	-	3	7
WHOLESALE AND RETAIL TRADE	39	-	-	-	-	-	34	5	-	5	13	21
ALL OTHER INDUSTRIES	45	-	-	-	-	-	27	18	-	21	7	17
MANAGEMENT RELATED OCCUPATIONS	1 356	934	349	40	226	83	59	14	49	180	772	324
ACCOUNTANTS AND AUDITORS	563	414	116	21	62	33	25	8	12	101	312	126
BUYERS AND PURCHASING AGENTS	184	166	18	-	11	7	-	-	6	15	105	58
PROFESSIONAL SPECIALTY OCCUPATIONS	12 834	4 999	7 336	272	3 673	3 391	474	25	1 177	3 048	5 844	2 321
ENGINEERS, ARCHITECTS, AND SURVEYORS	219	193	21	5	16	-	5	-	9	33	131	46
ARCHITECTS	72	67	-	-	-	-	5	-	5	16	29	22
ENGINEERS	141	126	15	5	10	-	-	-	4	17	96	24
ELECTRICAL AND ELECTRONIC ENGINEERS	7	7	-	-	-	-	-	-	-	-	7	-
MECHANICAL ENGINEERS	39	39	-	-	-	-	-	-	-	-	33	6
OTHER ENGINEERS	95	80	15	5	10	-	-	-	4	17	56	18
SURVEYORS AND MAPPING SCIENTISTS	6	-	6	-	6	-	-	-	-	-	6	-
MATHEMATICAL AND COMPUTER SCIENTISTS	212	108	96	6	73	17	8	-	28	31	93	45
COMPUTER SYSTEMS ANALYSTS AND SCIENTISTS	131	76	47	-	42	5	8	-	16	26	56	24
NATURAL SCIENTISTS	248	109	139	23	98	18	-	-	16	53	130	41
HEALTH DIAGNOSING OCCUPATIONS	304	176	98	2	90	6	30	-	2	18	99	178
PHYSICIANS	273	152	91	2	83	6	30	-	2	11	81	172
DENTISTS	25	18	7	-	7	-	-	-	-	7	12	6
OTHER HEALTH DIAGNOSING PRACTITIONERS	6	6	-	-	-	-	-	-	-	-	6	-
HEALTH ASSESSMENT AND TREATING OCCUPATIONS	3 192	2 001	1 147	138	822	187	38	6	141	733	1 583	539
REGISTERED NURSES	2 378	1 509	859	108	631	120	4	6	90	569	1 131	425
PHARMACISTS	191	123	68	14	48	6	-	-	18	47	92	27
THERAPISTS	452	252	172	16	95	61	28	-	16	113	265	50
TEACHERS, LIBRARIANS, AND COUNSELORS	6 060	1 131	4 779	52	1 910	2 817	150	-	741	1 516	2 666	1 003
TEACHERS, POSTSECONDARY	1 489	226	1 263	19	1 159	85	-	-	340	474	298	354
TEACHERS, ELEMENTARY AND PRE-KINDERGARTEN	2 376	410	1 948	10	151	1 787	18	-	99	515	1 335	372
TEACHERS, SECONDARY	796	116	680	-	24	656	-	-	58	137	404	173
SOCIAL SCIENTISTS AND URBAN PLANNERS	305	93	188	6	97	85	18	6	15	121	120	49
SOCIAL AND RECREATION WORKERS	992	334	638	25	393	220	13	7	50	185	523	182
RELIGIOUS WORKERS	69	69	-	-	-	-	-	-	11	16	18	24
LAWYERS AND JUDGES	158	86	29	-	18	11	43	-	28	22	38	68
WRITERS, ARTISTS, ENTERTAINERS, AND ATHLETES	1 075	699	201	15	156	30	169	6	136	320	443	146
TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS	24 457	16 511	7 383	902	4 956	1 525	392	171	3 027	6 409	11 848	2 579
TECHNICIANS AND RELATED SUPPORT OCCUPATIONS	2 946	1 695	1 229	205	905	119	17	5	395	694	1 519	275
HEALTH TECHNOLOGISTS AND TECHNICIANS	1 375	941	430	109	273	48	4	-	130	325	782	131
LICENSED PRACTICAL NURSES	542	425	117	45	66	6	-	-	49	157	310	26
ENGINEERING AND SCIENCE TECHNICIANS	393	205	175	13	144	18	13	-	54	102	170	47
ELECTRICAL AND ELECTRONIC TECHNICIANS	39	33	6	6	-	-	-	-	-	15	16	8
DRAFTING AND SURVEYING TECHNICIANS	82	71	6	-	6	-	5	-	-	5	53	18
TECHNICIANS, EXCEPT HEALTH, ENGINEERING, AND SCIENCE	1 178	549	624	83	488	53	-	5	211	267	567	97
AIRPLANE PILOTS AND NAVIGATORS	-	-	-	-	-	-	-	-	-	-	-	-
COMPUTER PROGRAMMERS	272	204	68	12	47	9	-	-	11	27	190	35
SALES OCCUPATIONS	5 315	4 872	156	-	125	31	236	51	962	1 976	1 495	737
SUPERVISORS AND PROPRIETORS, SALES OCCUPATIONS	494	395	6	-	6	-	71	22	25	66	165	225
SELF-EMPLOYED	93	-	-	-	-	-	71	22	9	5	17	62
SALES REPRESENTATIVES, FINANCE AND BUSINESS SERVICES	648	574	-	-	-	-	69	5	57	86	304	178
SALES REPRESENTATIVES, COMMODITIES, EXCEPT RETAIL	181	173	-	-	-	-	8	-	15	28	101	37
SALES WORKERS, RETAIL AND PERSONAL SERVICES	3 976	3 714	150	-	119	31	88	24	857	1 788	925	297
CASHIERS	1 729	1 584	119	-	97	22	8	18	357	724	454	133
SALES RELATED OCCUPATIONS	16	16	-	-	-	-	-	-	8	8	-	-

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

ANN ARBOR, MI SMSA

	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY				
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	1 TO 14 HOURS	15 TO 34 HOURS	35 TO 40 HOURS	41+ HOURS
TOTAL												
ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL	16 196	9 944	5 998	697	3 926	1 375	139	115	1 670	3 739	8 834	1 567
SUPERVISORS, ADMINISTRATIVE SUPPORT OCCUPATIONS	751	474	270	60	139	71	7	-	15	73	533	130
COMPUTER EQUIPMENT OPERATORS	343	273	70	8	57	5	-	-	12	46	212	66
SECRETARIES, STENOGRAPHERS, AND TYPISTS	6 202	3 500	2 601	220	1 735	646	61	40	490	1 553	3 541	483
SECRETARIES	5 194	2 971	2 146	118	1 435	593	37	40	305	1 239	3 116	439
RECEPTIONISTS	801	534	261	26	211	24	6	-	154	237	339	43
FILE CLERKS	395	254	141	5	116	20	-	-	63	136	177	7
FINANCIAL RECORDS PROCESSING OCCUPATIONS	1 577	1 190	292	19	200	73	51	44	146	271	859	259
BOOKKEEPERS, ACCOUNTING, AND AUDITING CLERKS	1 245	935	215	19	152	44	51	44	137	237	639	195
TELEPHONE OPERATORS	263	213	50	4	33	13	-	-	-	78	156	29
MAIL AND MESSAGE DISTRIBUTING OCCUPATIONS	295	65	230	146	65	19	-	-	48	37	141	61
TRAFFIC, SHIPPING, STOCK AND INVENTORY CLERKS	376	281	95	11	71	13	-	-	13	35	278	44
INSURANCE ADJUSTERS, EXAMINERS, AND INVESTIGATORS	53	47	6	-	6	-	-	-	-	-	53	-
BANK TELLERS	444	420	24	15	7	2	-	-	36	135	197	68
DATA-ENTRY KEYERS	317	227	90	10	45	35	-	-	20	85	164	31
OTHER ADMINISTRATIVE SUPPORT OCCUPATIONS	4 379	2 466	1 868	173	1 241	454	14	31	673	1 053	2 184	346
SERVICE OCCUPATIONS	10 435	7 449	2 506	133	1 645	728	474	6	2 442	3 545	3 195	838
PRIVATE HOUSEHOLD OCCUPATIONS	534	534	-	-	-	-	-	-	246	141	105	27
PROTECTIVE SERVICE OCCUPATIONS	318	147	171	24	86	61	-	-	59	51	142	35
FIREFIGHTING OCCUPATIONS	5	-	5	-	5	-	-	-	-	-	5	-
POLICE AND DETECTIVES, PUBLIC SERVICE	28	-	28	-	2	26	-	-	-	-	21	7
GUARDS	192	132	60	-	46	14	-	-	53	44	61	12
OTHER PROTECTIVE SERVICE OCCUPATIONS	93	15	78	24	33	21	-	-	6	7	55	16
SERVICE OCCUPATIONS, EXCEPT PROTECTIVE AND HOUSEHOLD	9 583	6 768	2 335	109	1 559	667	474	6	2 137	3 353	2 948	776
FOOD PREPARATION AND SERVICE OCCUPATIONS	4 724	3 666	1 036	44	809	183	22	-	1 395	1 941	935	256
WAITERS AND FOOD COUNTER WORKERS	2 387	2 304	75	-	65	10	8	-	528	1 260	392	107
COOKS	740	579	147	-	71	76	14	-	90	313	231	62
HEALTH SERVICE OCCUPATIONS	1 904	1 464	397	23	312	62	37	6	225	524	923	182
NURSING AIDES, ORDERLIES, AND ATTENDANTS	1 253	944	272	16	215	41	37	-	193	351	566	96
CLEANING AND BUILDING SERVICE OCCUPATIONS EXC. HOUSEHOLD	1 304	923	344	15	241	88	37	-	140	272	740	90
PERSONAL SERVICE OCCUPATIONS	1 651	715	558	27	197	334	378	-	377	616	350	248
BARBERS, HAIRDRESSERS AND COSMETOLOGISTS	485	336	9	-	5	4	140	-	32	229	102	96
FARMING, FORESTRY, AND FISHING OCCUPATIONS	305	167	37	-	28	9	71	30	30	138	59	73
FARM OPERATORS AND MANAGERS	79	23	-	-	-	-	56	-	11	20	6	42
FARM OCCUPATIONS, EXCEPT MANAGERIAL	134	100	5	-	5	-	-	29	5	79	21	29
RELATED AGRICULTURAL OCCUPATIONS	92	44	32	-	23	9	15	1	14	39	32	2
FORESTRY AND FISHING OCCUPATIONS	-	-	-	-	-	-	-	-	-	-	-	-
PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS	819	682	67	11	54	2	70	-	25	144	537	95
MECHANICS AND REPAIRERS	142	122	14	11	3	-	6	-	-	14	96	29
AUTOMOBILE MECHANICS, INCLUDING BODY	48	45	3	-	3	-	-	-	-	-	45	-
AIRCRAFT MECHANICS	7	7	-	-	-	-	-	-	-	-	7	-
HEATING, AIR CONDITIONING, AND REFRIGERATION MECHANICS	-	-	-	-	-	-	-	-	-	-	-	-
OTHER MECHANICS AND REPAIRERS	87	70	11	11	-	-	6	-	-	14	44	29
CONSTRUCTION TRADES	80	64	9	-	9	-	7	-	12	6	62	-
CARPENTERS	19	13	-	-	-	-	6	-	6	6	7	-
ELECTRICIANS	25	16	9	-	9	-	-	-	6	-	19	-
PAINTERS, CONSTRUCTION AND MAINTENANCE	17	17	-	-	-	-	-	-	-	-	17	-
PLUMBERS, PIPEFITTERS, AND STEAMFITTERS	-	-	-	-	-	-	-	-	-	-	-	-
OTHER CONSTRUCTION TRADES	19	18	-	-	-	-	1	-	-	-	19	-
EXTRACTIVE OCCUPATIONS	-	-	-	-	-	-	-	-	-	-	-	-
PRECISION PRODUCTION OCCUPATIONS	597	496	44	-	42	2	57	-	13	124	379	66
SUPERVISORS, PRODUCTION OCCUPATIONS	231	200	29	-	29	-	2	-	-	-	183	43
MANUFACTURING	128	128	-	-	-	-	-	-	-	-	91	37
PRECISION METALWORKING OCCUPATIONS	5	5	-	-	-	-	-	-	-	-	5	-
TOOL AND DIE MAKERS	5	5	-	-	-	-	-	-	-	-	5	-
MACHINISTS	-	-	-	-	-	-	-	-	-	-	-	-
SHEET METAL WORKERS	-	-	-	-	-	-	-	-	-	-	-	-
OTHER PRECISION METAL WORKERS	-	-	-	-	-	-	-	-	-	-	-	-
PRECISION TEXTILE, APPAREL, AND FURNISHINGS MACHINE WORKERS	93	70	5	-	5	-	18	-	11	45	29	-
PLANT AND SYSTEM OPERATORS	18	16	2	-	-	2	-	-	-	11	7	-
OTHER PRECISION PRODUCTION OCCUPATIONS	250	205	8	-	8	-	37	-	2	68	155	23

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

ANN ARBOR, MI SMSA	EMPLOYED PERSONS								PERSONS AT WORK			
	TOTAL	PRIV. WAGE AND SALARY WORKERS	GOVERNMENT WORKERS				SELF-EMPLOYED WORKERS	UNPAID FAMILY WORKERS	1 TO 14 HOURS	15 TO 34 HOURS	35 TO 40 HOURS	41+ HOURS
			TOTAL	FEDERAL	STATE	LOCAL						
TOTAL												
OPERATORS, FABRICATORS, AND LABORERS	4 978	4 440	446	31	173	242	87	5	227	802	2 757	796
MACHINE OPERATORS, ASSEMBLERS, AND INSPECTORS	4 007	3 805	139	16	102	21	58	5	123	490	2 373	668
MACHINE OPERATORS AND TENDERS, EXCEPT PRECISION	1 427	1 292	113	9	91	13	22	-	78	219	820	252
METALWORKING AND PLASTIC WORKING MACHINE OPERATORS	180	176	4	4	-	-	-	-	2	25	113	36
PRINTING MACHINE OPERATORS	305	282	23	5	18	-	-	-	31	51	141	70
TEXTILE, APPAREL, AND FURNISHINGS MACHINE OPERATORS	182	134	40	-	32	8	8	-	5	30	115	32
TEXTILE MACHINE OPERATORS	8	3	-	-	-	-	5	-	5	3	-	-
TEXTILE SEWING MACHINE OPERATORS	20	17	-	-	-	-	3	-	-	3	10	7
LAUNDERING AND DRYCLEANING MACHINE OPERATORS	94	62	32	-	32	-	-	-	-	9	79	6
OTHER SPECIFIED MACHINE OPERATORS	359	322	33	-	28	5	4	-	29	45	228	38
MISCELLANEOUS AND NOT SPECIFIED MACHINE OPERATORS	401	378	13	-	13	-	10	-	11	68	223	76
OCCUPATION:												
MISCELLANEOUS MACHINE OPERATORS, N.E.C.	217	194	13	-	13	-	10	-	-	54	113	34
MACHINE OPERATORS, NOT SPECIFIED	184	184	-	-	-	-	-	-	11	14	110	42
INDUSTRY:												
MANUFACTURING	355	355	-	-	-	-	-	-	11	36	210	75
NONDURABLE GOODS	100	100	-	-	-	-	-	-	3	16	41	29
FOOD AND KINDRED PRODUCTS	2	2	-	-	-	-	-	-	-	-	2	-
TEXTILE MILL AND FINISHED TEXTILE PRODUCTS	5	5	-	-	-	-	-	-	-	-	5	-
PAPER AND ALLIED PRODUCTS	12	12	-	-	-	-	-	-	3	-	-	-
OTHER NONDURABLE GOODS	81	81	-	-	-	-	-	-	-	16	34	29
DURABLE GOODS, INCLUDING NOT SPECIFIED MFG	255	255	-	-	-	-	-	-	8	20	169	46
METAL INDUSTRIES	39	39	-	-	-	-	-	-	8	6	15	10
MACHINERY, INCLUDING ELECTRICAL	48	48	-	-	-	-	-	-	-	8	21	12
TRANSPORTATION EQUIPMENT	159	159	-	-	-	-	-	-	-	6	124	24
OTHER DURABLE GOODS	9	9	-	-	-	-	-	-	-	-	9	-
NONMANUFACTURING INDUSTRIES	46	23	13	-	13	-	10	-	-	32	13	1
TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES	6	6	-	-	-	-	-	-	-	-	6	-
WHOLESALE AND RETAIL TRADE	11	1	-	-	-	-	10	-	-	10	-	1
ALL OTHER INDUSTRIES	29	16	13	-	13	-	-	-	-	22	7	-
FABRICATORS, ASSEMBLERS, AND HAND WORKING OCCUPATIONS	2 055	2 014	8	-	-	8	28	5	27	227	1 182	345
WELDERS AND CUTTERS	68	68	-	-	-	-	-	-	-	6	42	10
ASSEMBLERS	1 950	1 931	8	-	-	8	6	5	20	205	1 138	328
OTHER FABRICATORS AND HAND WORKING OCCUPATIONS	37	15	-	-	-	-	22	-	7	16	2	7
PRODUCTION INSPECTORS, TESTERS, SAMPLERS, AND WEIGHERS	525	499	18	7	11	-	8	-	18	44	371	71
TRANSPORTATION AND MATERIAL MOVING OCCUPATIONS	500	189	282	15	54	213	29	-	53	158	174	83
MOTOR VEHICLE OPERATORS	450	139	282	15	54	213	29	-	53	158	137	70
TRUCK DRIVERS AND DRIVER-SALES WORKERS	94	62	10	-	7	3	22	-	7	1	63	23
BUS DRIVERS	275	52	223	9	16	198	-	-	28	124	61	37
RAIL AND WATER TRANSPORTATION OCCUPATIONS	6	6	-	-	-	-	-	-	-	-	6	-
MATERIAL MOVING EQUIPMENT OPERATORS	44	44	-	-	-	-	-	-	-	-	31	13
EXCAVATING, GRADING, AND DOZER MACHINE OPERATORS	-	-	-	-	-	-	-	-	-	-	-	-
HANDLERS, EQUIPMENT CLEANERS, HELPERS, AND LABORERS	471	446	25	-	17	8	-	-	51	154	210	45
CONSTRUCTION LABORERS	-	-	-	-	-	-	-	-	-	-	-	-
FREIGHT, STOCK, AND MATERIAL HANDLERS	172	158	14	-	6	8	-	-	18	78	53	23
GARAGE AND SERVICE STATION RELATED OCCUPATIONS	17	17	-	-	-	-	-	-	2	6	9	-
HAND PACKERS AND PACKAGERS	157	157	-	-	-	-	-	-	5	39	91	11
OTHER SPECIFIED HANDLERS, EQUIPMENT CLEANERS, AND HELPERS	25	20	5	-	5	-	-	-	5	12	8	-
LABORERS, EXCEPT CONSTRUCTION	100	94	6	-	6	-	-	-	21	19	49	11
MANUFACTURING	61	61	-	-	-	-	-	-	14	6	30	11
NONDURABLE GOODS	19	19	-	-	-	-	-	-	8	-	5	6
DURABLE GOODS, INCLUDING NOT SPECIFIED MFG	42	42	-	-	-	-	-	-	6	6	25	5
METAL INDUSTRIES	1	1	-	-	-	-	-	-	-	-	1	-
NONMANUFACTURING INDUSTRIES	39	33	6	-	6	-	-	-	7	13	19	-
TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES	-	-	-	-	-	-	-	-	-	-	-	-
WHOLESALE AND RETAIL TRADE	20	20	-	-	-	-	-	-	-	13	7	-
ALL OTHER INDUSTRIES	19	13	6	-	6	-	-	-	7	-	12	-

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

ANN ARBOR, MI SMSA

	EMPLOYED PERSONS								PERSONS AT WORK			
	TOTAL	PRIV. WAGE AND SALARY WORKERS	GOVERNMENT WORKERS TOTAL	FEDERAL	STATE	LOCAL	SELF-EMPLOYED WORKERS	UNPAID FAMILY WORKERS	1 TO 14 HOURS	15 TO 34 HOURS	35 TO 40 HOURS	41+ HOURS
WHITE												
MALES 16 YEARS AND OVER.	63 119	44 754	14 284	1 576	9 086	3 622	3 966	115	4 269	8 233	27 170	21 932
MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS	21 930	12 417	7 851	623	5 227	2 001	1 639	23	1 107	1 947	8 832	9 737
EXECUTIVE, ADMINISTRATIVE, AND MANAGERIAL OCCUPATIONS.	7 610	5 610	1 393	175	822	396	589	18	177	365	3 034	3 918
OFFICIALS AND ADMINISTRATORS, PUBLIC ADMINISTRATION.	179	-	179	51	30	98	-	-	18	7	107	41
MANAGEMENT RELATED OCCUPATIONS . . .	1 714	1 368	214	34	117	63	128	4	39	133	859	667
PROFESSIONAL SPECIALTY OCCUPATIONS . .	14 320	6 807	6 458	448	4 405	1 605	1 050	5	930	1 582	5 798	5 819
ENGINEERS AND NATURAL SCIENTISTS . .	4 430	3 505	812	216	545	51	113	-	136	215	2 428	1 616
ENGINEERS	2 885	2 550	310	127	163	20	25	-	65	106	1 636	1 048
HEALTH DIAGNOSING OCCUPATIONS. . . .	1 471	636	498	70	393	35	337	-	35	103	304	1 009
HEALTH ASSESSMENT AND TREATING OCCUPATIONS	483	290	173	31	142	-	20	-	29	65	219	170
TEACHERS, LIBRARIANS, AND COUNSELORS	4 887	694	4 159	12	2 859	1 288	34	-	436	762	1 726	1 867
TEACHERS, ELEMENTARY AND SECONDARY SCHOOLS.	1 340	152	1 188	-	67	1 121	-	-	49	100	721	450
TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS	13 179	9 661	2 901	746	1 901	254	609	8	1 331	2 182	5 198	4 255
HEALTH TECHNOLOGISTS AND TECHNICIANS .	419	193	226	71	148	7	-	-	45	76	176	116
TECHNOLOGISTS AND TECHNICIANS, EXCEPT HEALTH.	3 284	2 144	1 063	163	844	56	69	8	382	644	1 339	898
SALES OCCUPATIONS.	5 166	4 535	106	-	85	21	525	-	342	698	1 808	2 214
SUPERVISORS AND PROPRIETORS, SALES OCCUPATIONS	1 212	1 029	19	-	19	-	164	-	17	86	331	759
SALES REPRESENTATIVES, COMMODITIES AND FINANCE	1 953	1 682	8	-	-	8	263	-	56	89	913	859
OTHER SALES OCCUPATIONS.	2 001	1 824	79	-	66	13	98	-	269	523	564	596
CASHIERS.	449	396	47	-	47	-	6	-	111	152	134	28
ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL.	4 310	2 789	1 506	512	824	170	15	-	562	764	1 875	1 027
COMPUTER EQUIPMENT OPERATORS	231	152	79	7	57	15	-	-	8	50	124	42
SECRETARIES, STENOGRAPHERS, AND TYPISTS	93	47	46	9	23	14	-	-	12	36	19	26
FINANCIAL RECORDS PROCESSING OCCUPATIONS	225	161	63	22	24	17	1	-	26	53	91	36
MAIL AND MESSAGE DISTRIBUTING OCCUPATIONS	371	94	277	251	26	-	-	-	38	31	144	158
SERVICE OCCUPATIONS.	5 873	3 773	1 998	125	1 182	691	94	8	1 020	1 620	2 057	962
PRIVATE HOUSEHOLD OCCUPATIONS.	6	6	-	-	-	-	-	-	-	6	-	-
PROTECTIVE SERVICE OCCUPATIONS	1 059	467	592	31	154	407	-	-	86	150	476	299
POLICE AND FIREFIGHTERS.	334	2	332	6	29	297	-	-	1	13	146	157
SERVICE OCCUPATIONS, EXCEPT PROTECTIVE AND HOUSEHOLD	4 808	3 300	1 406	94	1 028	284	94	8	934	1 464	1 581	663
FOOD SERVICE OCCUPATIONS	2 181	1 697	466	13	433	20	15	3	621	837	429	229
CLEANING AND BUILDING SERVICE OCCUPATIONS, EXCEPT HOUSEHOLD	1 875	1 246	602	55	328	219	22	5	163	453	904	285
FARMING, FORESTRY, AND FISHING OCCUPATIONS	1 237	473	125	-	44	81	586	53	97	155	347	625
FARM OPERATORS AND MANAGERS.	637	72	-	-	-	-	565	-	29	69	104	431
FARM WORKERS AND RELATED OCCUPATIONS .	600	401	125	-	44	81	21	53	68	86	243	194
PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS	9 814	8 296	695	62	388	245	808	15	246	930	5 245	3 083
MECHANICS AND REPAIRERS.	3 390	2 928	277	41	123	113	170	15	58	294	1 793	1 169
CONSTRUCTION TRADES.	3 037	2 246	257	7	184	66	534	-	135	479	1 701	577
PRECISION PRODUCTION OCCUPATIONS . . .	3 347	3 095	161	14	81	66	91	-	53	144	1 730	1 331
OPERATORS, FABRICATORS, AND LABORERS . .	11 086	10 134	714	20	344	350	230	8	468	1 399	5 491	3 270
MACHINE OPERATORS AND TENDERS, EXCEPT PRECISION	3 708	3 516	117	7	87	23	75	-	96	314	1 961	1 227
FABRICATORS, ASSEMBLERS, INSPECTORS, AND SAMPLERS.	3 017	2 947	63	-	42	21	7	-	77	183	1 728	882
TRANSPORTATION OCCUPATIONS	1 745	1 300	329	12	96	221	116	-	113	227	670	638
MOTOR VEHICLE OPERATORS.	1 714	1 275	323	6	96	221	116	-	113	220	652	632
MATERIAL MOVING EQUIPMENT OPERATORS. .	637	576	52	-	19	33	9	-	-	51	390	162
HANDLERS, EQUIPMENT CLEANERS, HELPERS, AND LABORERS	1 979	1 795	153	1	100	52	23	8	182	624	742	361
CONSTRUCTION LABORERS.	270	246	24	-	11	13	-	-	20	70	127	52
FREIGHT, STOCK, AND MATERIAL HANDLERS.	831	763	60	-	43	17	8	-	91	325	293	95

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

ANN ARBOR, MI SMSA

	EMPLOYED PERSONS								PERSONS AT WORK			
	TOTAL	PRIV. WAGE AND SALARY WORKERS	GOVERNMENT WORKERS TOTAL	FEDERAL	STATE	LOCAL	SELF-EMPLOYED WORKERS	UNPAID FAMILY WORKERS	1 TO 14 HOURS	15 TO 34 HOURS	35 TO 40 HOURS	41+ HOURS
WHITE												
FEMALES 16 YEARS AND OVER.	51 489	32 966	16 644	1 155	9 980	5 509	1 638	241	6 339	13 300	23 026	7 182
MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS	15 659	7 277	7 716	338	4 042	3 336	610	56	1 211	3 370	7 320	3 287
EXECUTIVE, ADMINISTRATIVE, AND MANAGERIAL OCCUPATIONS.	4 137	2 788	1 158	110	763	285	154	37	150	567	2 183	1 156
OFFICIALS AND ADMINISTRATORS, PUBLIC ADMINISTRATION.	83	-	83	17	14	52	-	-	-	8	62	13
MANAGEMENT RELATED OCCUPATIONS . . .	1 218	857	288	35	194	59	59	14	49	172	671	300
PROFESSIONAL SPECIALTY OCCUPATIONS . .	11 522	4 489	6 558	228	3 279	3 051	456	19	1 061	2 803	5 137	2 131
ENGINEERS AND NATURAL SCIENTISTS . .	602	357	232	34	169	29	13	-	45	104	308	128
ENGINEERS	119	110	9	5	4	-	-	-	4	11	84	20
HEALTH DIAGNOSING OCCUPATIONS. . . .	245	147	73	2	65	6	25	-	2	12	75	149
HEALTH ASSESSMENT AND TREATING OCCUPATIONS	2 891	1 813	1 040	125	745	170	38	-	125	677	1 395	516
TEACHERS, LIBRARIANS, AND COUNSELORS	5 382	983	4 255	35	1 684	2 536	144	-	669	1 378	2 333	890
TEACHERS, ELEMENTARY AND SECONDARY SCHOOLS.	2 882	478	2 386	10	158	2 218	18	-	140	604	1 578	490
TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS	21 808	14 880	6 403	706	4 325	1 372	381	144	2 722	5 811	10 410	2 359
HEALTH TECHNOLOGISTS AND TECHNICIANS .	1 206	845	357	76	244	37	4	-	130	275	682	112
TECHNOLOGISTS AND TECHNICIANS, EXCEPT HEALTH.	1 385	630	737	72	594	71	13	5	239	339	638	128
SALES OCCUPATIONS.	4 851	4 465	124	-	93	31	231	31	878	1 804	1 347	683
SUPERVISORS AND PROPRIETORS, SALES OCCUPATIONS	455	387	-	-	-	-	66	2	25	63	154	200
SALES REPRESENTATIVES, COMMODITIES AND FINANCE	794	712	-	-	-	-	77	5	67	114	390	200
OTHER SALES OCCUPATIONS.	3 602	3 366	124	-	93	31	88	24	786	1 627	803	283
CASHIERS.	1 520	1 391	103	-	81	22	8	18	309	619	414	123
ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL.	14 366	8 940	5 185	558	3 394	1 233	133	108	1 475	3 393	7 743	1 436
COMPUTER EQUIPMENT OPERATORS	304	234	70	8	57	5	-	-	12	46	186	53
SECRETARIES, STENOGRAPHERS, AND TYPISTS	5 624	3 214	2 315	185	1 538	592	55	40	434	1 423	3 191	460
FINANCIAL RECORDS PROCESSING OCCUPATIONS	1 441	1 113	240	13	156	71	51	37	146	245	770	238
MAIL AND MESSAGE DISTRIBUTING OCCUPATIONS	245	58	187	122	57	8	-	-	44	37	108	56
SERVICE OCCUPATIONS.	8 825	6 340	2 047	79	1 388	580	432	6	2 160	3 176	2 411	719
PRIVATE HOUSEHOLD OCCUPATIONS.	411	411	-	-	-	-	-	-	201	118	62	27
PROTECTIVE SERVICE OCCUPATIONS	269	137	132	13	65	54	-	-	59	47	97	35
POLICE AND FIREFIGHTERS.	26	-	26	-	7	19	-	-	-	-	19	7
SERVICE OCCUPATIONS, EXCEPT PROTECTIVE AND HOUSEHOLD	8 145	5 792	1 915	66	1 323	526	432	6	1 900	3 011	2 252	657
FOOD SERVICE OCCUPATIONS	4 277	3 360	895	23	709	163	22	-	1 281	1 796	792	220
CLEANING AND BUILDING SERVICE OCCUPATIONS, EXCEPT HOUSEHOLD	879	623	230	5	180	45	26	-	94	206	485	51
FARMING, FORESTRY, AND FISHING OCCUPATIONS	288	161	31	-	22	9	66	30	30	127	53	73
FARM OPERATORS AND MANAGERS.	79	23	-	-	-	-	56	-	11	20	6	42
FARM WORKERS AND RELATED OCCUPATIONS .	209	138	31	-	22	9	10	30	19	107	47	31
PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS	738	612	64	11	51	2	62	-	25	121	482	95
MECHANICS AND REPAIRERS.	120	103	11	11	-	-	6	-	-	5	86	29
CONSTRUCTION TRADES.	62	46	9	-	9	-	7	-	12	6	44	-
PRECISION PRODUCTION OCCUPATIONS . . .	556	463	44	-	42	2	49	-	13	110	352	66
OPERATORS, FABRICATORS, AND LABORERS . .	4 171	3 696	383	21	152	210	87	5	191	695	2 350	649
MACHINE OPERATORS AND TENDERS, EXCEPT PRECISION	1 259	1 144	93	5	75	13	22	-	55	203	740	215
FABRICATORS, ASSEMBLERS, INSPECTORS, AND SAMPLERS.	2 030	1 971	18	7	11	-	36	5	45	202	1 258	328
TRANSPORTATION OCCUPATIONS	399	123	247	9	49	189	29	-	48	141	126	52
MOTOR VEHICLE OPERATORS.	393	117	247	9	49	189	29	-	48	141	120	52
MATERIAL MOVING EQUIPMENT OPERATORS. .	33	33	-	-	-	-	-	-	-	-	24	9
HANDLERS, EQUIPMENT CLEANERS, HELPERS, AND LABORERS	450	425	25	-	17	8	-	-	43	149	202	45
CONSTRUCTION LABORERS.	-	-	-	-	-	-	-	-	-	-	-	-
FREIGHT, STOCK, AND MATERIAL HANDLERS.	167	153	14	-	6	8	-	-	18	73	53	23

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

ANN ARBOR, MI SMSA

	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY	1 TO 14	15 TO 34	35 TO 40	41+
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	HOURS	HOURS	HOURS	HOURS
BLACK												
MALES 16 YEARS AND OVER	5 133	3 600	1 423	211	608	604	90	20	244	643	2 920	1 109
MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS	1 216	588	549	16	290	243	65	14	90	107	602	403
EXECUTIVE, ADMINISTRATIVE, AND MANAGERIAL OCCUPATIONS	454	295	118	-	72	46	41	-	36	5	237	176
OFFICIALS AND ADMINISTRATORS, PUBLIC ADMINISTRATION	26	-	26	-	14	12	-	-	-	-	-	26
MANAGEMENT RELATED OCCUPATIONS	117	98	5	-	5	-	14	-	14	-	59	44
PROFESSIONAL SPECIALTY OCCUPATIONS	762	293	431	16	218	197	24	14	54	102	365	227
ENGINEERS AND NATURAL SCIENTISTS	152	135	17	7	-	10	-	-	5	14	77	47
ENGINEERS	102	102	-	-	-	-	-	-	5	7	44	37
HEALTH DIAGNOSING OCCUPATIONS	56	39	4	-	4	-	13	-	11	-	5	40
HEALTH ASSESSMENT AND TREATING OCCUPATIONS	34	6	23	9	14	-	5	-	-	-	27	7
TEACHERS, LIBRARIANS, AND COUNSELORS	320	37	283	-	141	142	-	-	30	47	168	75
TEACHERS, ELEMENTARY AND SECONDARY SCHOOLS	114	12	102	-	18	84	-	-	11	5	79	19
TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS	723	480	233	95	99	39	4	6	47	139	346	161
HEALTH TECHNOLOGISTS AND TECHNICIANS	55	7	48	38	10	-	-	-	-	-	39	16
TECHNOLOGISTS AND TECHNICIANS, EXCEPT HEALTH	130	100	30	14	-	16	-	-	11	13	52	47
SALES OCCUPATIONS	154	144	-	-	-	-	4	6	-	29	72	45
SUPERVISORS AND PROPRIETORS, SALES OCCUPATIONS	11	11	-	-	-	-	-	-	-	1	10	-
SALES REPRESENTATIVES, COMMODITIES AND FINANCE	59	55	-	-	-	-	4	-	-	1	20	30
OTHER SALES OCCUPATIONS	84	78	-	-	-	-	-	6	-	27	42	15
CASHIERS	27	27	-	-	-	-	-	-	-	21	6	-
ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL	384	229	155	43	89	23	-	-	36	97	183	53
COMPUTER EQUIPMENT OPERATORS	-	-	-	-	-	-	-	-	-	-	-	-
SECRETARIES, STENOGRAPHERS, AND TYPISTS	-	-	-	-	-	-	-	-	-	-	-	-
FINANCIAL RECORDS PROCESSING OCCUPATIONS	18	18	-	-	-	-	-	-	-	4	14	-
MAIL AND MESSAGE DISTRIBUTING OCCUPATIONS	30	-	30	30	-	-	-	-	-	16	8	-
SERVICE OCCUPATIONS	996	624	372	57	177	138	-	-	84	207	535	135
PRIVATE HOUSEHOLD OCCUPATIONS	14	14	-	-	-	-	-	-	-	-	14	-
PROTECTIVE SERVICE OCCUPATIONS	124	37	87	11	28	48	-	-	8	15	46	47
POLICE AND FIREFIGHTERS	34	-	34	5	-	29	-	-	-	6	-	28
SERVICE OCCUPATIONS, EXCEPT PROTECTIVE AND HOUSEHOLD	858	573	285	46	149	90	-	-	76	192	475	88
FOOD SERVICE OCCUPATIONS	264	240	24	5	8	11	-	-	49	122	60	27
CLEANING AND BUILDING SERVICE OCCUPATIONS, EXCEPT HOUSEHOLD	463	279	184	27	78	79	-	-	8	54	339	48
FARMING, FORESTRY, AND FISHING OCCUPATIONS	47	20	25	-	3	22	2	-	8	5	31	-
FARM OPERATORS AND MANAGERS	-	-	-	-	-	-	-	-	-	-	-	-
FARM WORKERS AND RELATED OCCUPATIONS	39	20	17	-	3	14	2	-	8	5	23	-
PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS	557	460	91	24	-	67	6	-	-	29	359	121
MECHANICS AND REPAIRERS	202	172	30	16	-	14	-	-	-	7	135	53
CONSTRUCTION TRADES	143	102	41	8	-	33	-	-	-	22	82	17
PRECISION PRODUCTION OCCUPATIONS	212	186	20	-	-	20	6	-	-	-	142	51
OPERATORS, FABRICATORS, AND LABORERS	1 594	1 428	153	19	39	95	13	-	15	156	1 047	289
MACHINE OPERATORS AND TENDERS, EXCEPT PRECISION	477	459	12	5	7	-	6	-	7	62	309	93
FABRICATORS, ASSEMBLERS, INSPECTORS, AND SAMPLERS	657	657	-	-	-	-	-	-	-	58	445	90
TRANSPORTATION OCCUPATIONS	187	78	109	14	29	66	-	-	-	9	123	55
MOTOR VEHICLE OPERATORS	187	78	109	14	29	66	-	-	-	9	123	55
MATERIAL MOVING EQUIPMENT OPERATORS	88	73	15	-	3	12	-	-	-	-	55	26
HANDLERS, EQUIPMENT CLEANERS, HELPERS, AND LABORERS	185	161	17	-	-	17	7	-	8	27	115	25
CONSTRUCTION LABORERS	31	31	-	-	-	-	-	-	-	16	15	-
FREIGHT, STOCK, AND MATERIAL HANDLERS	71	65	6	-	-	6	-	-	8	6	49	5

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

ANN ARBOR, MI SMSA

	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY				
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	1 TO 14 HOURS	15 TO 34 HOURS	35 TO 40 HOURS	41+ HOURS
BLACK												
FEMALES 16 YEARS AND OVER	5 404	3 332	1 979	265	1 016	698	67	26	538	1 096	2 917	589
MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS	1 125	383	724	32	314	378	12	6	57	168	649	216
EXECUTIVE, ADMINISTRATIVE, AND MANAGERIAL OCCUPATIONS	257	120	132	5	69	58	5	-	5	18	149	80
OFFICIALS AND ADMINISTRATORS, PUBLIC ADMINISTRATION	10	-	10	-	-	10	-	-	-	-	5	5
MANAGEMENT RELATED OCCUPATIONS	103	55	48	5	32	11	-	-	-	8	72	18
PROFESSIONAL SPECIALTY OCCUPATIONS	868	263	592	27	245	320	7	6	52	150	500	136
ENGINEERS AND NATURAL SCIENTISTS	32	26	6	-	6	-	-	-	-	-	28	4
ENGINEERS	11	11	-	-	-	-	-	-	-	-	7	4
HEALTH DIAGNOSING OCCUPATIONS	15	7	8	-	8	-	-	-	-	-	8	7
HEALTH ASSESSMENT AND TREATING OCCUPATIONS	166	87	73	13	43	17	-	6	6	36	97	21
TEACHERS, LIBRARIANS, AND COUNSELORS	509	96	413	6	140	267	-	-	31	102	268	92
TEACHERS, ELEMENTARY AND SECONDARY SCHOOLS	267	35	232	-	11	221	-	-	11	41	151	55
TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS	2 179	1 339	815	180	490	145	5	20	236	502	1 226	147
HEALTH TECHNOLOGISTS AND TECHNICIANS	127	71	56	28	17	11	-	-	-	44	75	8
TECHNOLOGISTS AND TECHNICIANS, EXCEPT HEALTH	99	67	32	13	19	-	-	-	17	11	62	-
SALES OCCUPATIONS	362	321	23	-	23	-	5	13	57	139	129	31
SUPERVISORS AND PROPRIETORS, SALES OCCUPATIONS	32	8	6	-	6	-	5	13	-	3	11	18
SALES REPRESENTATIVES, COMMODITIES AND FINANCE	29	29	-	-	-	-	-	-	5	-	15	9
OTHER SALES OCCUPATIONS	301	284	17	-	17	-	-	-	52	136	103	4
CASHIERS	150	143	7	-	7	-	-	-	29	84	31	-
ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL	1 591	880	704	139	431	134	-	7	162	308	960	108
COMPUTER EQUIPMENT OPERATORS	27	27	-	-	-	-	-	-	-	-	21	6
SECRETARIES, STENOGRAPHERS, AND TYPISTS	496	267	229	35	140	54	-	-	35	118	301	23
FINANCIAL RECORDS PROCESSING OCCUPATIONS	117	64	46	6	38	2	-	7	-	26	77	14
MAIL AND MESSAGE DISTRIBUTING OCCUPATIONS	50	7	43	24	8	11	-	-	4	-	33	5
SERVICE OCCUPATIONS	1 309	886	386	43	200	143	37	-	218	296	639	108
PRIVATE HOUSEHOLD OCCUPATIONS	106	106	-	-	-	-	-	-	37	23	39	-
PROTECTIVE SERVICE OCCUPATIONS	38	10	28	-	21	7	-	-	-	4	34	-
POLICE AND FIREFIGHTERS	7	-	7	-	-	7	-	-	-	-	7	-
SERVICE OCCUPATIONS, EXCEPT PROTECTIVE AND HOUSEHOLD	1 165	770	358	43	179	136	37	-	181	269	566	108
FOOD SERVICE OCCUPATIONS	272	163	109	21	68	20	-	-	66	91	79	30
CLEANING AND BUILDING SERVICE OCCUPATIONS, EXCEPT HOUSEHOLD	397	286	100	10	47	43	11	-	38	59	242	39
FARMING, FORESTRY, AND FISHING OCCUPATIONS	11	6	-	-	-	-	5	-	-	11	-	-
FARM OPERATORS AND MANAGERS	-	-	-	-	-	-	-	-	-	-	-	-
FARM WORKERS AND RELATED OCCUPATIONS	11	6	-	-	-	-	5	-	-	11	-	-
PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS	70	59	3	-	3	-	8	-	-	17	50	-
MECHANICS AND REPAIRERS	22	19	3	-	3	-	-	-	-	9	10	-
CONSTRUCTION TRADES	18	18	-	-	-	-	-	-	-	-	18	-
PRECISION PRODUCTION OCCUPATIONS	30	22	-	-	-	-	8	-	-	8	22	-
OPERATORS, FABRICATORS, AND LABORERS	710	659	51	10	9	32	-	-	27	102	353	118
MACHINE OPERATORS AND TENDERS, EXCEPT PRECISION	129	121	8	4	4	-	-	-	14	16	62	25
FABRICATORS, ASSEMBLERS, INSPECTORS, AND SAMPLERS	502	494	8	-	-	8	-	-	-	64	259	81
TRANSPORTATION OCCUPATIONS	47	12	35	6	5	24	-	-	5	17	17	8
MOTOR VEHICLE OPERATORS	47	12	35	6	5	24	-	-	5	17	17	8
MATERIAL MOVING EQUIPMENT OPERATORS	11	11	-	-	-	-	-	-	-	-	7	4
HANDLERS, EQUIPMENT CLEANERS, HELPERS, AND LABORERS	21	21	-	-	-	-	-	-	8	5	8	-
CONSTRUCTION LABORERS	-	-	-	-	-	-	-	-	-	-	-	-
FREIGHT, STOCK, AND MATERIAL HANDLERS	5	5	-	-	-	-	-	-	-	5	-	-

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

DETROIT, MI SMSA

	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY	1 TO 14	15 TO 34	35 TO 40	41+
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	HOURS	HOURS	HOURS	HOURS
TOTAL												
MALES 16 YEARS AND OVER	1 032 327	868 795	109 636	20 520	15 888	73 228	52 308	1 588	27 780	95 005	538 277	336 039
MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS	246 344	185 635	41 737	5 542	7 945	28 250	18 657	315	3 560	11 703	118 314	108 036
EXECUTIVE, ADMINISTRATIVE, AND MANAGERIAL OCCUPATIONS	125 932	103 441	14 330	3 430	2 502	8 398	7 917	244	1 180	3 616	56 752	62 042
OFFICIALS AND ADMINISTRATORS, PUBLIC ADMINISTRATION	3 161	6	3 155	802	537	1 816	-	-	58	82	1 937	1 010
ADMINISTRATORS, EDUCATION AND RELATED FIELDS	3 518	564	2 939	8	398	2 533	15	-	22	60	1 627	1 729
MANAGERS, MEDICINE AND HEALTH	1 031	867	148	38	46	64	16	-	-	28	544	453
OTHER SPECIFIED MANAGERS	23 878	22 402	681	266	99	316	779	16	137	482	10 179	12 679
MANAGERS AND ADMINISTRATORS, N.E.C., SALARIED	55 575	53 323	2 252	487	413	1 352	-	-	472	1 447	21 924	30 651
MANUFACTURING	20 428	20 416	12	-	-	12	-	-	135	406	8 326	11 232
TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES	3 606	3 356	250	99	5	146	-	-	20	40	1 717	1 715
WHOLESALE AND RETAIL TRADE	15 145	15 120	25	7	12	6	-	-	124	445	4 742	9 535
ALL OTHER INDUSTRIES	16 396	14 431	1 965	381	396	1 188	-	-	193	556	7 139	8 169
MANAGERS AND ADMINISTRATORS, N.E.C., SELF-EMPLOYED	5 611	-	-	-	-	-	5 420	191	99	510	1 624	3 217
CONSTRUCTION	692	-	-	-	-	-	692	-	6	127	248	246
MANUFACTURING	666	-	-	-	-	-	641	25	-	72	234	357
WHOLESALE AND RETAIL TRADE	2 556	-	-	-	-	-	2 440	116	40	131	643	1 680
ALL OTHER INDUSTRIES	1 697	-	-	-	-	-	1 647	50	53	180	499	934
MANAGEMENT RELATED OCCUPATIONS	33 158	26 279	5 155	1 829	1 009	2 317	1 687	37	392	1 007	18 917	12 303
ACCOUNTANTS AND AUDITORS	14 282	11 737	1 473	554	365	554	1 072	-	105	535	7 744	5 669
BUYERS AND PURCHASING AGENTS	4 440	4 188	125	71	-	54	127	-	23	78	2 494	1 786
PROFESSIONAL SPECIALTY OCCUPATIONS	120 412	82 194	27 407	2 112	5 443	19 852	10 740	71	2 380	8 087	61 562	45 994
ENGINEERS, ARCHITECTS, AND SURVEYORS	39 007	36 448	1 832	745	200	887	727	-	194	875	23 343	13 853
ARCHITECTS	1 623	1 209	83	7	8	68	331	-	-	108	780	675
ENGINEERS	37 149	35 038	1 722	736	185	801	389	-	186	733	22 429	13 119
ELECTRICAL AND ELECTRONIC ENGINEERS	3 827	3 679	79	30	17	32	69	-	42	79	2 239	1 398
MECHANICAL ENGINEERS	18 318	17 921	313	216	12	85	84	-	51	320	10 628	6 962
OTHER ENGINEERS	15 004	13 438	1 330	490	156	684	236	-	93	334	9 562	4 759
SURVEYORS AND MAPPING SCIENTISTS	235	201	27	2	7	18	7	-	8	34	134	59
MATHEMATICAL AND COMPUTER SCIENTISTS	5 681	5 202	467	290	103	74	12	-	10	105	3 870	1 611
COMPUTER SYSTEMS ANALYSTS AND SCIENTISTS	3 563	3 346	215	124	54	37	2	-	4	74	2 289	1 163
NATURAL SCIENTISTS	2 383	1 894	471	80	166	225	18	-	26	58	1 617	655
HEALTH DIAGNOSING OCCUPATIONS	11 905	7 905	651	150	322	179	3 349	-	155	1 075	3 530	6 885
PHYSICIANS	8 083	5 911	584	121	311	152	1 588	-	119	340	1 679	5 764
DENTISTS	2 598	1 309	39	6	6	27	1 250	-	30	587	1 313	602
OTHER HEALTH DIAGNOSING PRACTITIONERS	1 224	685	28	23	5	-	511	-	6	148	538	519
HEALTH ASSESSMENT AND TREATING OCCUPATIONS	4 561	3 666	643	58	229	356	252	-	116	389	1 988	1 988
REGISTERED NURSES	847	592	233	23	124	86	22	-	12	50	517	262
PHARMACISTS	2 284	1 997	78	11	27	40	209	-	75	243	688	1 218
THERAPISTS	1 028	766	250	14	78	158	12	-	29	70	594	329
TEACHERS, LIBRARIANS, AND COUNSELORS	23 940	4 896	18 722	129	2 724	15 869	309	13	847	2 827	13 314	6 395
TEACHERS, POSTSECONDARY	3 203	877	2 326	19	1 658	649	-	-	239	507	1 245	1 138
TEACHERS, ELEMENTARY AND PRE-KINDERGARTEN	11 270	1 540	9 721	14	511	9 196	9	-	261	1 146	6 882	2 693
TEACHERS, SECONDARY	5 961	1 015	4 946	19	186	4 741	-	-	128	583	3 402	1 733
SOCIAL SCIENTISTS AND URBAN PLANNERS	2 329	1 576	587	70	173	344	166	-	26	122	1 180	963
SOCIAL AND RECREATION WORKERS	3 190	880	2 262	146	1 108	1 008	35	13	54	253	2 030	772
RELIGIOUS WORKERS	3 363	2 820	-	-	-	-	543	-	58	163	659	2 465
LAWYERS AND JUDGES	8 745	4 573	1 169	299	241	629	3 003	-	165	539	3 028	4 904
WRITERS, ARTISTS, ENTERTAINERS, AND ATHLETES	15 308	12 334	603	145	177	281	2 326	45	729	1 681	7 003	5 503
TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS	191 379	162 584	17 127	9 502	2 327	5 298	11 306	362	5 035	16 590	99 186	66 228
TECHNICIANS AND RELATED SUPPORT OCCUPATIONS	32 499	29 437	2 721	872	539	1 310	339	2	424	1 866	18 263	11 269
HEALTH TECHNOLOGISTS AND TECHNICIANS	2 879	2 322	543	53	169	321	12	2	55	273	1 673	850
LICENSED PRACTICAL NURSES	293	185	102	-	91	11	6	-	7	33	190	63
ENGINEERING AND SCIENCE TECHNICIANS	21 483	20 277	999	399	146	454	207	-	242	1 142	11 654	7 931
ELECTRICAL AND ELECTRONIC TECHNICIANS	3 060	2 812	237	156	33	48	11	-	24	117	1 844	868
DRAFTING AND SURVEYING TECHNICIANS	11 049	10 593	316	78	19	219	140	-	125	793	4 981	4 932
TECHNICIANS, EXCEPT HEALTH, ENGINEERING, AND SCIENCE	8 137	6 838	1 179	420	224	535	120	-	127	451	4 936	2 488
AIRPLANE PILOTS AND NAVIGATORS	471	448	23	11	-	12	-	-	34	119	212	97
COMPUTER PROGRAMMERS	3 818	3 427	336	83	90	163	55	-	46	176	2 334	1 214
SALES OCCUPATIONS	85 815	74 511	539	153	141	245	10 465	300	3 081	8 289	35 674	37 018
SUPERVISORS AND PROPRIETORS, SALES OCCUPATIONS	16 706	12 650	120	52	44	24	3 854	82	251	735	4 889	10 435
SELF-EMPLOYED	3 936	-	-	-	-	-	3 854	82	74	206	850	2 743
SALES REPRESENTATIVES, FINANCE AND BUSINESS SERVICES	19 280	16 315	192	47	25	120	2 719	54	408	1 267	9 140	8 088
SALES REPRESENTATIVES, COMMODITIES, EXCEPT RETAIL	21 717	19 918	7	-	7	-	1 773	19	263	827	11 640	8 700
SALES WORKERS, RETAIL AND PERSONAL SERVICES	27 901	25 458	207	47	59	101	2 091	145	2 134	5 435	9 917	9 732
CASHIERS	4 132	3 884	65	23	6	36	150	33	410	1 266	1 515	854
SALES RELATED OCCUPATIONS	211	170	13	7	6	-	28	-	25	25	88	63

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

DETROIT, MI SMSA

	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY	1 TO 14	15 TO 34	35 TO 40	41+
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	HOURS	HOURS	HOURS	HOURS
TOTAL												
ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL	73 065	58 636	13 867	8 477	1 647	3 743	502	60	1 530	6 435	45 249	17 941
SUPERVISORS, ADMINISTRATIVE SUPPORT OCCUPATIONS	11 164	9 017	2 074	946	351	777	73	-	28	289	6 689	3 960
COMPUTER EQUIPMENT OPERATORS	3 136	2 762	374	148	73	153	-	-	77	235	1 951	828
SECRETARIES, STENOGRAPHERS, AND TYPISTS	1 247	909	283	79	50	154	55	-	60	187	661	308
SECRETARIES	755	623	105	24	-	81	27	-	48	114	368	213
RECEPTIONISTS	335	240	95	18	34	43	-	-	49	103	110	52
FILE CLERKS	1 340	1 084	256	83	76	97	-	-	44	198	856	199
FINANCIAL RECORDS PROCESSING OCCUPATIONS	3 870	3 270	507	164	115	228	93	-	76	378	2 386	937
BOOKKEEPERS, ACCOUNTING, AND AUDITING CLERKS	2 493	2 062	344	106	81	157	87	-	64	273	1 513	580
TELEPHONE OPERATORS	405	381	24	9	-	15	-	-	17	64	300	18
MAIL AND MESSAGE DISTRIBUTING OCCUPATIONS	8 205	2 203	5 931	5 719	84	128	37	34	175	706	4 909	2 104
TRAFFIC, SHIPPING, STOCK AND INVENTORY CLERKS	15 925	15 230	665	170	125	370	24	6	383	1 866	9 570	3 623
INSURANCE ADJUSTERS, EXAMINERS, AND INVESTIGATORS	1 260	1 194	15	8	7	-	51	-	6	46	919	270
BANK TELLERS	569	542	20	15	-	5	7	-	11	179	327	46
DATA-ENTRY KEYERS	381	317	64	33	19	12	-	-	-	28	208	123
OTHER ADMINISTRATIVE SUPPORT OCCUPATIONS	25 228	21 487	3 559	1 085	713	1 761	162	20	604	2 156	16 363	5 473
SERVICE OCCUPATIONS	98 882	66 747	28 885	1 778	3 624	23 483	3 065	185	8 287	21 202	45 645	20 071
PRIVATE HOUSEHOLD OCCUPATIONS	292	292	-	-	-	-	-	-	71	91	80	44
PROTECTIVE SERVICE OCCUPATIONS	26 592	10 048	16 516	820	968	14 728	28	-	497	1 691	14 813	8 769
FIREFIGHTING OCCUPATIONS	3 504	41	3 463	87	12	3 364	-	-	-	60	367	2 957
POLICE AND DETECTIVES, PUBLIC SERVICE	8 930	-	8 930	318	490	8 122	-	-	26	148	6 475	2 086
GUARDS	10 979	9 358	1 593	332	217	1 044	28	-	462	1 398	5 773	2 924
OTHER PROTECTIVE SERVICE OCCUPATIONS	3 179	649	2 530	83	249	2 198	-	-	9	85	2 198	802
SERVICE OCCUPATIONS, EXCEPT PROTECTIVE AND HOUSEHOLD	71 998	56 407	12 369	958	2 656	8 755	3 037	185	7 719	19 420	30 752	11 258
FOOD PREPARATION AND SERVICE OCCUPATIONS	26 947	25 526	605	56	177	372	734	82	4 254	11 314	6 860	3 635
WAITERS AND FOOD COUNTER WORKERS	2 409	2 348	21	-	8	13	40	-	333	1 018	725	159
COOKS	11 717	11 187	204	29	51	124	303	23	1 760	4 972	2 959	1 727
HEALTH SERVICE OCCUPATIONS	3 979	2 526	1 436	100	1 016	320	17	-	110	722	2 391	630
NURSING AIDES, ORDERLIES, AND ATTENDANTS	3 085	1 813	1 255	58	972	225	17	-	68	479	1 986	454
CLEANING AND BUILDING SERVICE OCCUPATIONS EXC. HOUSEHOLD	34 958	24 677	9 451	741	1 243	7 467	735	95	2 803	5 897	19 462	5 199
PERSONAL SERVICE OCCUPATIONS	6 114	3 678	877	61	220	596	1 551	8	552	1 487	2 039	1 794
BARBERS, HAIRDRESSERS AND COSMETOLOGISTS	2 677	1 203	26	-	5	21	1 440	8	52	356	864	1 280
FARMING, FORESTRY, AND FISHING OCCUPATIONS	7 824	4 042	1 287	76	242	969	2 310	185	681	1 213	2 915	2 572
FARM OPERATORS AND MANAGERS	2 530	432	11	9	-	2	2 087	-	122	280	546	1 514
FARM OCCUPATIONS, EXCEPT MANAGERIAL	1 434	1 153	76	16	-	60	32	173	183	400	311	488
RELATED AGRICULTURAL OCCUPATIONS	3 621	2 313	1 124	51	240	833	172	12	362	507	1 920	537
FORESTRY AND FISHING OCCUPATIONS	239	144	76	-	2	74	19	-	14	26	138	33
PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS	216 032	193 102	9 703	1 548	937	7 218	12 935	292	3 214	14 894	118 794	71 148
MECHANICS AND REPAIRERS	72 394	64 782	4 127	920	357	2 850	3 420	65	960	4 326	40 986	23 533
AUTOMOBILE MECHANICS, INCLUDING BODY	21 758	18 975	1 098	204	58	836	1 649	36	341	1 541	11 538	7 587
AIRCRAFT MECHANICS	796	630	154	141	6	7	12	-	9	68	513	206
HEATING, AIR CONDITIONING, AND REFRIGERATION MECHANICS	2 336	1 933	123	57	10	56	280	-	114	287	1 234	610
OTHER MECHANICS AND REPAIRERS	47 504	43 244	2 752	518	283	1 951	1 479	29	496	2 430	27 701	15 130
CONSTRUCTION TRADES	55 790	45 456	2 983	289	334	2 360	7 220	131	1 646	7 444	32 274	11 750
CARPENTERS	10 218	7 353	569	70	71	428	2 228	68	523	2 068	5 615	1 475
ELECTRICIANS	11 106	10 232	438	56	66	316	433	3	93	613	7 072	3 025
PAINTERS, CONSTRUCTION AND MAINTENANCE	3 973	2 583	323	56	28	239	1 053	14	168	802	2 108	563
PLUMBERS, PIPEFITTERS, AND STEAMFITTERS	9 148	8 107	476	45	34	397	536	29	146	694	5 872	2 066
OTHER CONSTRUCTION TRADES	21 345	17 181	1 177	62	135	980	2 970	17	716	3 267	11 607	4 621
EXTRACTIVE OCCUPATIONS	277	205	18	-	-	18	39	15	12	15	163	78
PRECISION PRODUCTION OCCUPATIONS	87 571	82 659	2 575	339	246	1 990	2 256	81	596	3 109	45 371	35 787
SUPERVISORS, PRODUCTION OCCUPATIONS	37 092	35 922	710	122	77	511	400	60	187	743	19 797	15 353
MANUFACTURING	30 417	30 137	70	42	7	21	189	21	128	588	16 351	12 521
PRECISION METALWORKING OCCUPATIONS	32 244	31 519	279	109	43	127	438	8	242	1 333	15 935	13 736
TOOL AND DIE MAKERS	17 536	17 296	51	14	16	21	181	8	109	548	8 646	7 707
MACHINISTS	6 869	6 661	128	66	14	48	80	-	41	353	3 239	3 012
SHEET METAL WORKERS	2 469	2 340	54	15	7	32	75	-	44	193	1 517	613
OTHER PRECISION METAL WORKERS	5 370	5 222	46	14	6	26	102	-	48	239	2 533	2 404
PRECISION TEXTILE, APPAREL, AND FURNISHINGS MACHINE WORKERS	1 203	745	9	9	-	-	449	-	30	103	514	483
PLANT AND SYSTEM OPERATORS	4 146	2 683	1 428	29	108	1 291	35	-	12	116	2 529	1 368
OTHER PRECISION PRODUCTION OCCUPATIONS	12 886	11 790	149	70	18	61	934	13	125	814	6 596	4 847

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

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DETROIT, MI SMSA

	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY	1 TO 14	15 TO 34	35 TO 40	41+
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	HOURS	HOURS	HOURS	HOURS
TOTAL												
OPERATORS, FABRICATORS, AND LABORERS	271 866	256 685	10 897	2 074	813	8 010	4 035	249	7 003	29 403	153 423	67 984
MACHINE OPERATORS, ASSEMBLERS, AND INSPECTORS	153 975	150 030	2 565	711	222	1 632	1 310	70	2 173	10 873	93 804	38 939
MACHINE OPERATORS AND TENDERS, EXCEPT PRECISION	88 170	85 738	1 465	310	121	1 034	924	43	1 259	6 270	51 077	25 359
METALWORKING AND PLASTIC WORKING MACHINE OPERATORS	34 381	34 003	209	76	10	123	163	6	401	2 226	18 999	11 053
PRINTING MACHINE OPERATORS	4 728	4 424	140	63	7	70	159	5	99	330	3 125	1 069
TEXTILE, APPAREL, AND FURNISHINGS MACHINE OPERATORS	1 845	1 573	47	4	10	33	213	12	54	387	978	342
TEXTILE MACHINE OPERATORS	265	265	-	-	-	-	-	-	-	41	141	83
TEXTILE SEWING MACHINE OPERATORS	391	367	-	-	-	-	24	-	10	65	236	61
LAUNDERING AND DRYCLEANING MACHINE OPERATORS	1 002	758	47	4	10	33	185	12	41	226	523	163
OTHER SPECIFIED MACHINE OPERATORS	21 227	20 259	755	98	59	598	199	14	304	1 660	12 560	5 687
MISCELLANEOUS AND NOT SPECIFIED MACHINE OPERATORS	25 989	25 479	314	69	35	210	190	6	401	1 667	15 415	7 208
OCCUPATION:												
MISCELLANEOUS MACHINE OPERATORS, N.E.C.	7 243	7 081	53	5	21	27	103	6	65	459	4 066	2 255
MACHINE OPERATORS, NOT SPECIFIED	18 746	18 398	261	64	14	183	87	-	336	1 208	11 349	4 953
INDUSTRY:												
MANUFACTURING	23 814	23 607	99	28	18	53	102	6	332	1 452	14 171	6 634
NONDURABLE GOODS	3 316	3 306	6	-	6	-	4	-	48	152	2 035	944
FOOD AND KINDRED PRODUCTS	817	807	6	-	6	-	4	-	5	34	488	248
TEXTILE MILL AND FINISHED TEXTILE PRODUCTS	130	130	-	-	-	-	-	-	-	5	98	27
PAPER AND ALLIED PRODUCTS	611	611	-	-	-	-	-	-	-	25	267	293
OTHER NONDURABLE GOODS	1 758	1 758	-	-	-	-	-	-	43	88	1 182	376
DURABLE GOODS, INCLUDING NOT SPECIFIED MFG	20 498	20 301	93	28	12	53	98	6	284	1 300	12 136	5 690
METAL INDUSTRIES	4 591	4 584	7	7	-	-	-	-	49	345	2 799	1 239
MACHINERY, INCLUDING ELECTRICAL	5 492	5 405	21	6	-	15	60	6	104	344	2 378	2 384
TRANSPORTATION EQUIPMENT	9 057	8 988	54	10	6	38	15	-	112	514	6 124	1 696
OTHER DURABLE GOODS	1 358	1 324	11	5	6	-	23	-	19	97	835	371
NONMANUFACTURING INDUSTRIES	2 175	1 872	215	41	17	157	88	-	69	215	1 244	574
TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES	406	350	56	17	-	39	-	-	13	22	274	97
WHOLESALE AND RETAIL TRADE	814	765	9	-	-	9	40	-	18	102	430	219
ALL OTHER INDUSTRIES	955	757	150	24	17	109	48	-	38	91	540	258
FABRICATORS, ASSEMBLERS, AND HAND WORKING OCCUPATIONS	50 137	49 018	721	246	83	392	376	22	820	3 793	32 176	10 047
WELDERS AND CUTTERS	16 210	15 797	272	138	13	121	129	12	212	993	10 257	3 807
ASSEMBLERS	32 640	32 060	421	108	70	243	149	10	573	2 567	21 213	5 969
OTHER FABRICATORS AND HAND WORKING OCCUPATIONS	1 287	1 161	28	-	-	28	98	-	35	233	706	271
PRODUCTION INSPECTORS, TESTERS, SAMPLERS, AND WEIGHERS	15 668	15 274	379	155	18	206	10	5	94	810	10 551	3 533
TRANSPORTATION AND MATERIAL MOVING OCCUPATIONS	66 625	59 225	5 136	705	370	4 061	2 227	37	1 403	6 055	34 773	20 815
MOTOR VEHICLE OPERATORS	42 736	37 028	3 697	227	288	3 182	1 977	34	1 151	4 450	19 513	15 426
TRUCK DRIVERS AND DRIVER-SALES WORKERS	36 077	32 789	1 659	166	74	1 419	1 595	34	920	3 413	16 498	13 402
BUS DRIVERS	2 349	620	1 720	13	156	1 551	9	-	62	417	1 088	660
RAIL AND WATER TRANSPORTATION OCCUPATIONS	3 065	2 639	426	359	22	45	-	-	15	163	1 627	1 045
MATERIAL MOVING EQUIPMENT OPERATORS	20 824	19 558	1 013	119	60	834	250	3	237	1 442	13 633	4 344
EXCAVATING, GRADING, AND DOZER MACHINE OPERATORS	844	545	175	-	-	175	124	-	30	146	470	167
HANDLERS, EQUIPMENT CLEANERS, HELPERS, AND LABORERS	51 266	47 430	3 196	658	221	2 317	498	142	3 427	12 475	24 846	8 230
CONSTRUCTION LABORERS	5 188	4 596	592	17	40	535	-	-	331	1 029	2 864	626
FREIGHT, STOCK, AND MATERIAL HANDLERS	19 488	18 179	1 130	361	30	739	106	73	1 692	6 045	8 351	2 671
GARAGE AND SERVICE STATION RELATED OCCUPATIONS	4 836	4 670	41	9	-	32	100	25	451	1 882	1 579	754
HAND PACKERS AND PACKAGERS	2 601	2 537	47	13	-	34	11	6	111	572	1 297	475
OTHER SPECIFIED HANDLERS, EQUIPMENT CLEANERS, AND HELPERS	5 460	5 083	241	66	25	150	105	31	363	1 255	2 530	1 078
LABORERS, EXCEPT CONSTRUCTION	13 693	12 365	1 145	192	126	827	176	7	479	1 692	8 225	2 626
MANUFACTURING	7 191	7 102	89	19	27	43	-	-	142	702	4 789	1 213
NONDURABLE GOODS	1 103	1 096	7	-	-	7	-	-	20	96	764	189
DURABLE GOODS, INCLUDING NOT SPECIFIED MFG	6 088	6 006	82	19	27	36	-	-	122	606	4 025	1 024
METAL INDUSTRIES	2 223	2 185	38	5	22	11	-	-	30	228	1 499	319
NONMANUFACTURING INDUSTRIES	6 502	5 263	1 056	173	99	784	176	7	337	990	3 436	1 413
TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES	1 394	968	421	76	-	345	5	-	12	116	943	248
WHOLESALE AND RETAIL TRADE	3 516	3 469	4	4	-	-	43	-	184	531	1 737	930
ALL OTHER INDUSTRIES	1 592	826	631	93	99	439	128	7	141	343	756	235

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

DETROIT, MI SMSA

	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY				
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	1 TO 14 HOURS	15 TO 34 HOURS	35 TO 40 HOURS	41+ HOURS
TOTAL												
FEMALES 16 YEARS AND OVER	740 233	582 135	137 535	19 519	26 538	91 478	16 757	3 806	53 669	177 581	396 421	81 821
MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS	151 918	88 714	57 440	3 691	10 088	43 661	5 064	700	9 467	27 613	85 536	24 485
EXECUTIVE, ADMINISTRATIVE, AND MANAGERIAL OCCUPATIONS	51 229	40 122	8 560	2 236	2 209	4 115	1 978	569	1 384	5 653	30 918	11 892
OFFICIALS AND ADMINISTRATORS, PUBLIC ADMINISTRATION	1 757	-	1 757	411	380	966	-	-	120	140	1 208	221
ADMINISTRATORS, EDUCATION AND RELATED FIELDS	2 041	823	1 183	26	235	922	35	-	139	309	1 103	450
MANAGERS, MEDICINE AND HEALTH	972	795	165	24	51	90	5	7	15	81	581	283
OTHER SPECIFIED MANAGERS	8 089	7 357	448	215	94	139	258	26	153	650	5 024	2 055
MANAGERS AND ADMINISTRATORS, N.E.C., SALARIED	19 078	17 529	1 549	236	375	938	-	-	469	2 217	10 562	5 398
MANUFACTURING	1 977	1 977	-	-	-	-	-	-	39	91	1 329	459
TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES	1 038	1 015	23	17	-	6	-	-	6	20	713	283
WHOLESALE AND RETAIL TRADE	6 811	6 801	10	-	-	10	-	-	107	858	3 108	2 596
ALL OTHER INDUSTRIES	9 252	7 736	1 516	219	375	922	-	-	317	1 248	5 412	2 060
MANAGERS AND ADMINISTRATORS, N.E.C., SELF-EMPLOYED	1 776	-	-	-	-	-	1 308	468	105	482	576	576
CONSTRUCTION	22	-	-	-	-	-	16	6	8	2	12	-
MANUFACTURING	68	-	-	-	-	-	61	7	2	28	29	9
WHOLESALE AND RETAIL TRADE	1 015	-	-	-	-	-	759	256	50	227	337	381
ALL OTHER INDUSTRIES	671	-	-	-	-	-	472	199	45	225	198	186
MANAGEMENT RELATED OCCUPATIONS	17 516	13 618	3 458	1 324	1 074	1 060	372	68	383	1 774	11 864	2 909
ACCOUNTANTS AND AUDITORS	7 387	6 114	1 111	549	219	343	127	35	136	689	4 936	1 334
BUYERS AND PURCHASING AGENTS	2 150	1 938	162	68	42	52	17	33	25	210	1 380	475
PROFESSIONAL SPECIALTY OCCUPATIONS	100 689	48 592	48 880	1 455	7 879	39 546	3 086	131	8 083	21 960	54 618	12 593
ENGINEERS, ARCHITECTS, AND SURVEYORS	1 610	1 498	101	69	11	21	11	-	8	101	1 095	352
ARCHITECTS	93	77	5	5	-	-	11	-	-	17	58	5
ENGINEERS	1 493	1 404	89	64	11	14	-	-	-	81	1 035	336
ELECTRICAL AND ELECTRONIC ENGINEERS	227	227	-	-	-	-	-	-	-	12	146	63
MECHANICAL ENGINEERS	504	500	4	-	-	4	-	-	-	31	352	102
OTHER ENGINEERS	762	677	85	64	11	10	-	-	-	38	537	171
SURVEYORS AND MAPPING SCIENTISTS	24	17	7	-	-	7	-	-	8	3	2	11
MATHEMATICAL AND COMPUTER SCIENTISTS	1 920	1 653	267	144	88	35	-	-	29	93	1 366	384
COMPUTER SYSTEMS ANALYSTS AND SCIENTISTS	1 014	903	111	54	46	11	-	-	11	39	720	215
NATURAL SCIENTISTS	816	620	166	53	42	71	30	-	4	129	523	126
HEALTH DIAGNOSING OCCUPATIONS	1 724	1 259	243	20	141	82	217	5	79	313	522	755
PHYSICIANS	1 452	1 040	222	20	135	67	185	5	56	223	413	711
DENTISTS	141	100	21	-	6	15	20	-	10	52	70	9
OTHER HEALTH DIAGNOSING PRACTITIONERS	131	119	-	-	-	-	12	-	13	38	39	35
HEALTH ASSESSMENT AND TREATING OCCUPATIONS	25 598	21 145	4 235	336	1 284	2 615	200	18	1 137	6 518	13 885	3 169
REGISTERED NURSES	21 064	17 781	3 122	286	996	1 840	143	18	911	5 553	11 179	2 611
PHARMACISTS	681	629	25	6	-	19	27	-	55	190	283	147
THERAPISTS	2 542	1 642	874	18	246	610	26	-	94	545	1 643	211
TEACHERS, LIBRARIANS, AND COUNSELORS	50 952	12 395	37 587	386	2 749	34 452	949	21	5 428	11 501	27 719	4 580
TEACHERS, POSTSECONDARY	2 520	943	1 577	30	968	579	-	-	562	668	891	291
TEACHERS, ELEMENTARY AND PRE-KINDERGARTEN	32 909	7 090	25 757	248	1 014	24 495	57	5	2 567	7 556	18 898	2 733
TEACHERS, SECONDARY	8 386	1 622	6 764	59	249	6 456	-	-	802	1 434	4 903	963
SOCIAL SCIENTISTS AND URBAN PLANNERS	1 294	725	458	16	145	297	111	-	73	164	783	255
SOCIAL AND RECREATION WORKERS	6 875	1 940	4 830	231	3 098	1 501	87	18	120	813	4 852	799
RELIGIOUS WORKERS	892	824	6	-	6	-	62	-	152	202	266	237
LAWYERS AND JUDGES	1 317	768	363	111	114	138	181	5	42	196	616	442
WRITERS, ARTISTS, ENTERTAINERS, AND ATHLETES	7 691	5 765	624	89	201	334	1 238	64	1 011	1 930	2 991	1 494
TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS	359 150	299 707	51 350	13 853	10 511	26 986	5 847	2 246	21 439	81 594	207 390	36 668
TECHNICIANS AND RELATED SUPPORT OCCUPATIONS	22 614	18 918	3 558	599	1 079	1 880	122	16	786	4 248	13 825	2 825
HEALTH TECHNOLOGISTS AND TECHNICIANS	16 138	13 815	2 220	254	734	1 232	87	16	575	3 528	9 702	1 586
LICENSED PRACTICAL NURSES	7 297	5 933	1 296	119	545	632	64	4	215	1 781	4 182	621
ENGINEERING AND SCIENCE TECHNICIANS	2 741	2 415	308	91	81	136	18	-	114	324	1 585	644
ELECTRICAL AND ELECTRONIC TECHNICIANS	326	258	68	42	-	26	-	-	14	27	247	38
DRAFTING AND SURVEYING TECHNICIANS	1 172	1 087	67	9	22	36	18	-	40	138	543	432
TECHNICIANS, EXCEPT HEALTH, ENGINEERING, AND SCIENCE	3 735	2 688	1 030	254	264	512	17	-	97	396	2 538	595
AIRPLANE PILOTS AND NAVIGATORS	-	-	-	-	-	-	-	-	-	-	-	-
COMPUTER PROGRAMMERS	1 671	1 438	225	102	41	82	8	-	20	103	1 158	338
SALES OCCUPATIONS	88 495	82 503	1 175	197	224	754	4 089	728	10 230	32 871	32 312	9 698
SUPERVISORS AND PROPRIETORS, SALES OCCUPATIONS	6 212	5 153	40	3	23	14	858	161	96	900	2 959	2 080
SELF-EMPLOYED	1 019	-	-	-	-	-	858	161	60	226	242	482
SALES REPRESENTATIVES, FINANCE AND BUSINESS SERVICES	10 472	9 368	114	57	13	44	934	56	687	2 262	5 151	2 029
SALES REPRESENTATIVES, COMMODITIES, EXCEPT RETAIL	3 281	2 963	11	11	-	-	277	30	190	555	1 808	645
SALES WORKERS, RETAIL AND PERSONAL SERVICES	68 234	64 747	1 006	126	188	692	2 006	475	9 173	29 037	22 337	4 918
CASHIERS	29 782	28 608	801	90	128	583	200	173	3 325	12 225	10 439	2 449
SALES RELATED OCCUPATIONS	296	272	4	-	-	4	14	6	84	117	57	26

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

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DETROIT, MI SMSA

	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY	1 TO 14	15 TO 34	35 TO 40	41+
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	HOURS	HOURS	HOURS	HOURS
TOTAL												
ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL	248 041	198 286	46 617	13 057	9 208	24 352	1 636	1 502	10 423	44 475	161 253	24 145
SUPERVISORS, ADMINISTRATIVE SUPPORT OCCUPATIONS	9 755	7 739	1 924	532	608	784	56	36	80	581	6 699	2 101
COMPUTER EQUIPMENT OPERATORS	4 620	4 010	608	284	103	221	-	2	124	473	3 183	684
SECRETARIES, STENOGRAPHERS, AND TYPISTS	86 478	67 426	17 859	2 832	3 800	11 227	703	490	3 125	13 532	60 297	7 116
SECRETARIES	69 735	57 015	11 903	1 548	2 427	7 928	357	460	2 209	10 350	49 488	5 852
RECEPTIONISTS	10 633	9 578	919	138	270	511	36	100	638	3 251	5 694	760
FILE CLERKS	4 487	3 626	861	184	213	464	-	-	337	1 246	2 443	232
FINANCIAL RECORDS PROCESSING OCCUPATIONS	33 423	29 425	2 936	566	656	1 714	534	528	1 720	5 928	21 117	3 831
BOOKKEEPERS, ACCOUNTING, AND AUDITING CLERKS	25 533	22 661	1 862	244	471	1 147	499	511	1 451	4 775	15 691	2 975
TELEPHONE OPERATORS	5 365	4 927	427	59	89	279	6	5	175	1 005	3 506	414
MAIL AND MESSAGE DISTRIBUTING OCCUPATIONS	6 387	1 581	4 776	4 670	39	67	30	-	190	663	4 137	1 062
TRAFFIC, SHIPPING, STOCK AND INVENTORY CLERKS	5 535	4 956	553	342	66	145	15	11	173	681	3 759	670
INSURANCE ADJUSTERS, EXAMINERS, AND INVESTIGATORS	2 588	2 564	24	19	-	5	-	-	36	161	2 017	280
BANK TELLERS	9 710	9 335	363	224	61	78	7	5	338	2 541	6 088	409
DATA-ENTRY KEYERS	6 978	6 293	667	199	251	217	18	-	192	966	4 867	727
OTHER ADMINISTRATIVE SUPPORT OCCUPATIONS	62 082	46 826	14 700	3 008	3 052	8 640	231	325	3 295	13 447	37 446	5 859
SERVICE OCCUPATIONS	143 149	115 562	23 012	1 233	5 098	16 681	4 147	428	19 076	52 397	55 044	10 056
PRIVATE HOUSEHOLD OCCUPATIONS	7 139	7 125	-	-	-	-	14	-	2 009	2 556	1 648	568
PROTECTIVE SERVICE OCCUPATIONS	3 617	1 575	2 042	78	180	1 784	-	-	540	780	1 632	466
FIREFIGHTING OCCUPATIONS	27	-	27	-	-	27	-	-	-	6	-	14
POLICE AND DETECTIVES, PUBLIC SERVICE	810	-	810	23	42	745	-	-	14	34	614	101
GUARDS	2 557	1 550	1 007	33	86	888	-	-	520	729	841	329
OTHER PROTECTIVE SERVICE OCCUPATIONS	223	25	198	22	52	124	-	-	6	11	177	22
SERVICE OCCUPATIONS, EXCEPT PROTECTIVE AND HOUSEHOLD	132 393	106 862	20 970	1 155	4 918	14 897	4 133	428	16 527	49 061	51 764	9 022
FOOD PREPARATION AND SERVICE OCCUPATIONS	57 870	52 243	4 929	202	800	3 927	445	253	8 610	27 030	16 119	3 547
WAITERS AND FOOD COUNTER WORKERS	31 532	31 086	218	15	48	155	137	91	4 459	16 499	7 540	1 673
COOKS	10 699	8 954	1 465	60	274	1 131	198	82	1 086	4 250	4 037	841
HEALTH SERVICE OCCUPATIONS	32 490	27 840	4 516	327	2 247	1 942	85	49	1 653	8 485	18 375	2 471
NURSING AIDES, ORDERLIES, AND ATTENDANTS	20 603	16 917	3 601	245	1 923	1 433	85	-	891	4 700	12 428	1 452
CLEANING AND BUILDING SERVICE OCCUPATIONS EXC. HOUSEHOLD	18 777	14 375	3 935	248	954	2 733	397	70	1 911	5 062	9 861	933
PERSONAL SERVICE OCCUPATIONS	23 256	12 404	7 590	378	917	6 295	3 206	56	4 353	8 484	7 409	2 071
BARBERS, HAIRDRESSERS AND COSMETOLOGISTS	8 410	6 522	61	13	14	34	1 780	47	485	3 274	3 305	1 001
FARMING, FORESTRY, AND FISHING OCCUPATIONS	2 069	1 286	181	4	58	119	395	207	235	694	631	429
FARM OPERATORS AND MANAGERS	349	71	-	-	-	-	278	-	23	102	65	140
FARM OCCUPATIONS, EXCEPT MANAGERIAL	735	535	23	4	19	-	-	177	90	235	265	145
RELATED AGRICULTURAL OCCUPATIONS	966	661	158	-	39	119	117	30	122	349	301	133
FORESTRY AND FISHING OCCUPATIONS	19	19	-	-	-	-	-	-	-	8	-	11
PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS	13 031	11 620	649	160	135	354	667	95	559	2 154	7 143	2 514
MECHANICS AND REPAIRERS	2 094	1 956	89	28	13	48	40	9	36	230	1 268	446
AUTOMOBILE MECHANICS, INCLUDING BODY	312	302	-	-	-	-	10	-	6	42	188	65
AIRCRAFT MECHANICS	-	-	-	-	-	-	-	-	-	-	-	-
HEATING, AIR CONDITIONING, AND REFRIGERATION MECHANICS	11	11	-	-	-	-	-	-	-	-	6	5
OTHER MECHANICS AND REPAIRERS	1 771	1 643	89	28	13	48	30	9	30	188	1 074	376
CONSTRUCTION TRADES	1 047	783	144	32	22	90	102	18	102	205	508	155
CARPENTERS	127	85	30	13	10	7	12	-	18	35	58	9
ELECTRICIANS	221	187	34	8	-	26	-	-	-	44	140	27
PAINTERS, CONSTRUCTION AND MAINTENANCE	210	95	45	11	12	22	59	11	47	38	73	12
PLUMBERS, PIPEFITTERS, AND STEAMFITTERS	50	30	14	-	-	14	6	-	-	7	30	13
OTHER CONSTRUCTION TRADES	439	386	21	-	-	21	25	7	37	81	207	94
EXTRACTIVE OCCUPATIONS	28	28	-	-	-	-	-	-	-	6	22	-
PRECISION PRODUCTION OCCUPATIONS	9 862	8 853	416	100	100	216	525	68	421	1 713	5 345	1 913
SUPERVISORS, PRODUCTION OCCUPATIONS	3 496	3 264	159	60	64	35	60	13	35	367	2 051	945
MANUFACTURING	1 865	1 817	12	6	6	-	36	-	18	93	1 159	557
PRECISION METALWORKING OCCUPATIONS	966	939	6	6	-	-	21	-	41	143	500	216
TOOL AND DIE MAKERS	253	253	-	-	-	-	-	-	-	24	132	85
MACHINISTS	318	312	6	6	-	-	-	-	6	32	192	58
SHEET METAL WORKERS	24	24	-	-	-	-	-	-	7	-	6	11
OTHER PRECISION METAL WORKERS	371	350	-	-	-	-	21	-	28	87	170	62
PRECISION TEXTILE, APPAREL, AND FURNISHINGS MACHINE WORKERS	1 949	1 531	71	22	30	19	322	25	215	594	903	143
PLANT AND SYSTEM OPERATORS	193	163	30	-	-	30	-	-	15	8	123	36
OTHER PRECISION PRODUCTION OCCUPATIONS	3 258	2 956	150	12	6	132	122	30	115	601	1 768	573

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

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DETROIT, MI SMSA	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY	1 TO 14	15 TO 34	35 TO 40	41+
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	HOURS	HOURS	HOURS	HOURS
TOTAL												
OPERATORS, FABRICATORS, AND LABORERS	70 916	65 246	4 903	578	648	3 677	637	130	2 893	13 129	40 677	7 669
MACHINE OPERATORS, ASSEMBLERS, AND INSPECTORS	51 967	50 594	878	221	203	454	417	78	1 615	7 304	31 936	5 857
MACHINE OPERATORS AND TENDERS, EXCEPT PRECISION	30 194	29 191	619	156	134	329	326	58	1 018	4 721	18 709	3 070
METALWORKING AND PLASTIC WORKING MACHINE OPERATORS	6 081	6 040	27	9	-	18	14	-	124	805	3 912	699
PRINTING MACHINE OPERATORS	1 587	1 432	98	26	17	55	46	11	68	329	904	227
TEXTILE, APPAREL, AND FURNISHINGS MACHINE OPERATORS	7 569	7 292	141	18	65	58	124	12	351	1 510	4 612	414
TEXTILE MACHINE OPERATORS	120	100	-	-	-	-	20	-	15	25	60	16
TEXTILE SEWING MACHINE OPERATORS	4 492	4 397	36	7	25	4	47	12	158	620	2 976	268
LAUNDERING AND DRYCLEANING MACHINE OPERATORS	2 109	1 981	87	5	40	42	41	-	139	505	1 187	91
OTHER SPECIFIED MACHINE OPERATORS	5 556	5 357	135	30	12	93	58	6	199	712	3 569	673
MISCELLANEOUS AND NOT SPECIFIED MACHINE OPERATORS	9 401	9 070	218	73	40	105	84	29	276	1 365	5 712	1 057
OCCUPATION:												
MISCELLANEOUS MACHINE OPERATORS, N.E.C.	2 439	2 286	85	41	17	27	57	11	79	284	1 501	290
MACHINE OPERATORS, NOT SPECIFIED	6 962	6 784	133	32	23	78	27	18	197	1 081	4 211	767
INDUSTRY:												
MANUFACTURING	8 245	8 154	63	12	17	34	21	7	215	1 113	5 067	905
NONDURABLE GOODS	2 779	2 728	35	12	17	6	16	-	112	505	1 498	326
FOOD AND KINDRED PRODUCTS	252	252	-	-	-	-	-	-	12	42	121	39
TEXTILE MILL AND FINISHED TEXTILE PRODUCTS	230	230	-	-	-	-	-	-	3	28	157	5
PAPER AND ALLIED PRODUCTS	240	236	-	-	-	-	4	-	21	48	95	54
OTHER NONDURABLE GOODS	2 057	2 010	35	12	17	6	12	-	76	387	1 125	228
DURABLE GOODS, INCLUDING NOT SPECIFIED MFG	5 466	5 426	28	-	-	28	5	7	103	608	3 569	579
METAL INDUSTRIES	1 095	1 089	6	-	-	6	-	-	13	111	706	144
MACHINERY, INCLUDING ELECTRICAL	1 110	1 087	16	-	-	16	-	7	19	122	729	119
TRANSPORTATION EQUIPMENT	2 373	2 373	-	-	-	-	-	-	53	260	1 556	211
OTHER DURABLE GOODS	888	877	6	-	-	6	5	-	18	115	578	105
NONMANUFACTURING INDUSTRIES	1 156	916	155	61	23	71	63	22	61	252	645	152
TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES	174	103	71	51	-	20	-	-	-	10	101	48
WHOLESALE AND RETAIL TRADE	339	278	-	-	-	-	51	10	38	76	169	44
ALL OTHER INDUSTRIES	643	535	84	10	23	51	12	12	23	166	375	60
FABRICATORS, ASSEMBLERS, AND HAND WORKING OCCUPATIONS	16 200	15 897	203	43	56	104	85	15	480	1 940	9 687	2 105
WELDERS AND CUTTERS	1 311	1 282	29	5	-	24	-	-	34	138	784	141
ASSEMBLERS	14 403	14 162	168	38	50	80	58	15	390	1 731	8 649	1 883
OTHER FABRICATORS AND HAND WORKING OCCUPATIONS	486	453	6	-	6	-	27	-	56	71	254	81
PRODUCTION INSPECTORS, TESTERS, SAMPLERS, AND WEIGHERS	5 573	5 506	56	22	13	21	6	5	117	643	3 540	682
TRANSPORTATION AND MATERIAL MOVING OCCUPATIONS	7 164	3 523	3 502	93	383	3 026	131	8	406	2 776	2 752	771
MOTOR VEHICLE OPERATORS	6 116	2 557	3 424	64	383	2 977	127	8	379	2 676	2 059	677
TRUCK DRIVERS AND DRIVER-SALES WORKERS	1 495	1 268	127	16	34	77	92	8	89	436	591	307
BUS DRIVERS	4 120	916	3 204	39	337	2 828	-	-	245	2 178	1 212	271
RAIL AND WATER TRANSPORTATION OCCUPATIONS	68	36	32	25	-	7	-	-	7	7	39	-
MATERIAL MOVING EQUIPMENT OPERATORS	980	930	46	4	-	42	4	-	20	93	654	94
EXCAVATING, GRADING, AND DOZER MACHINE OPERATORS	14	-	10	-	-	10	4	-	4	-	10	-
HANDLERS, EQUIPMENT CLEANERS, HELPERS, AND LABORERS	11 785	11 129	523	264	62	197	89	44	872	3 049	5 989	1 041
CONSTRUCTION LABORERS	171	110	61	22	9	30	-	-	18	44	89	17
FREIGHT, STOCK, AND MATERIAL HANDLERS	3 600	3 342	223	174	24	25	27	8	310	1 253	1 518	303
GARAGE AND SERVICE STATION RELATED OCCUPATIONS	320	310	-	-	-	-	2	8	30	126	93	48
HAND PACKERS AND PACKAGERS	4 431	4 359	47	7	4	36	14	11	282	918	2 582	366
OTHER SPECIFIED HANDLERS, EQUIPMENT CLEANERS, AND HELPERS	713	663	27	-	-	27	17	6	70	170	334	79
LABORERS, EXCEPT CONSTRUCTION	2 550	2 345	165	61	25	79	29	11	162	538	1 373	228
MANUFACTURING	1 301	1 254	22	15	-	7	25	-	47	176	862	70
NONDURABLE GOODS	318	293	-	-	-	-	25	-	13	59	195	28
DURABLE GOODS, INCLUDING NOT SPECIFIED MFG	983	961	22	15	-	7	-	-	34	117	667	42
METAL INDUSTRIES	378	371	7	7	-	-	-	-	-	49	243	15
NONMANUFACTURING INDUSTRIES	1 249	1 091	143	46	25	72	4	11	115	362	511	158
TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES	148	124	24	19	-	5	-	-	13	57	39	21
WHOLESALE AND RETAIL TRADE	626	621	-	-	-	-	-	5	42	159	275	108
ALL OTHER INDUSTRIES	475	346	119	27	25	67	4	6	60	146	197	29

TABLE 22D. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

DETROIT, MI SMSA

	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY	1 TO 14	15 TO 34	35 TO 40	41+
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	HOURS	HOURS	HOURS	HOURS
WHITE												
MALES 16 YEARS AND OVER	882 410	750 490	82 602	14 889	11 899	55 814	47 963	1 355	23 009	80 408	445 259	306 823
MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS	223 752	171 491	34 782	4 636	6 346	23 800	17 218	261	3 050	10 265	105 634	100 691
EXECUTIVE, ADMINISTRATIVE, AND MANAGERIAL OCCUPATIONS	116 090	97 025	11 646	2 920	1 933	6 793	7 229	190	1 022	3 302	51 064	58 715
OFFICIALS AND ADMINISTRATORS, PUBLIC ADMINISTRATION	2 564	6	2 558	675	410	1 473	-	-	47	77	1 559	849
MANAGEMENT RELATED OCCUPATIONS	30 105	24 475	4 014	1 520	735	1 759	1 579	37	373	918	16 823	11 530
PROFESSIONAL SPECIALTY OCCUPATIONS	107 662	74 466	23 136	1 716	4 413	17 007	9 989	71	2 028	6 963	54 570	41 976
ENGINEERS AND NATURAL SCIENTISTS	43 138	40 145	2 279	979	408	892	714	-	193	947	26 079	15 150
ENGINEERS	34 232	32 464	1 411	650	155	606	357	-	149	668	20 457	12 335
HEALTH DIAGNOSING OCCUPATIONS	9 821	6 390	401	72	196	133	3 030	-	141	1 002	2 970	5 484
HEALTH ASSESSMENT AND TREATING OCCUPATIONS	3 876	3 168	463	52	146	265	245	-	104	342	1 556	1 794
TEACHERS, LIBRARIANS, AND COUNSELORS	21 199	4 388	16 513	84	2 350	14 079	285	13	728	2 269	11 758	5 926
TEACHERS, ELEMENTARY AND SECONDARY SCHOOLS	15 418	2 350	13 059	21	622	12 416	9	-	314	1 352	9 242	4 124
TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS	169 562	147 010	11 712	6 487	1 579	3 646	10 546	294	4 434	14 294	85 689	61 411
HEALTH TECHNOLOGISTS AND TECHNICIANS	2 187	1 812	361	46	114	201	12	2	41	226	1 173	726
TECHNOLOGISTS AND TECHNICIANS, EXCEPT HEALTH	27 316	25 153	1 842	669	345	828	321	-	347	1 465	15 026	9 883
SALES OCCUPATIONS	79 241	68 818	430	131	104	195	9 761	232	2 799	7 398	32 449	34 976
SUPERVISORS AND PROPRIETORS, SALES OCCUPATIONS	15 337	11 670	100	52	24	24	3 524	43	199	638	4 329	9 811
SALES REPRESENTATIVES, COMMODITIES AND FINANCE	38 611	34 051	178	42	25	111	4 315	67	622	1 937	19 402	16 024
OTHER SALES OCCUPATIONS	25 293	23 097	152	37	55	60	1 922	122	1 978	4 823	8 718	9 141
CASHIERS	3 409	3 219	20	6	2	12	144	26	356	1 079	1 174	724
ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL	60 818	51 227	9 079	5 641	1 016	2 422	452	60	1 247	5 205	37 041	15 826
COMPUTER EQUIPMENT OPERATORS	2 652	2 366	286	102	52	132	-	-	64	209	1 622	718
SECRETARIES, STENOGRAPHERS, AND TYPISTS	980	763	162	41	32	89	55	-	32	160	493	264
FINANCIAL RECORDS PROCESSING OCCUPATIONS	3 403	2 961	349	143	67	139	93	-	70	340	2 057	848
MAIL AND MESSAGE DISTRIBUTING OCCUPATIONS	5 840	1 728	4 041	3 913	44	84	37	34	117	585	3 279	1 611
SERVICE OCCUPATIONS	76 136	51 691	21 655	1 191	2 512	17 952	2 635	155	6 898	17 565	32 377	16 722
PRIVATE HOUSEHOLD OCCUPATIONS	175	175	-	-	-	-	-	-	51	25	54	39
PROTECTIVE SERVICE OCCUPATIONS	21 157	7 707	13 422	652	780	11 990	28	-	420	1 334	11 123	7 687
POLICE AND FIREFIGHTERS	10 426	41	10 385	360	407	9 618	-	-	21	186	5 354	4 613
SERVICE OCCUPATIONS, EXCEPT PROTECTIVE AND HOUSEHOLD	54 804	43 809	8 233	539	1 732	5 962	2 607	155	6 427	16 206	21 200	8 996
FOOD SERVICE OCCUPATIONS	22 410	21 395	302	28	115	159	646	67	3 695	9 943	5 155	2 948
CLEANING AND BUILDING SERVICE OCCUPATIONS, EXCEPT HOUSEHOLD	25 467	17 963	6 779	462	913	5 404	645	80	2 226	4 579	13 500	4 113
FARMING, FORESTRY, AND FISHING OCCUPATIONS	7 093	3 675	958	39	155	764	2 281	179	604	1 117	2 535	2 495
FARM OPERATORS AND MANAGERS	2 460	400	2	-	-	2	2 058	-	110	270	501	1 513
FARM WORKERS AND RELATED OCCUPATIONS	4 413	3 140	890	39	153	698	204	179	480	830	1 906	949
PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS	194 097	174 847	7 101	1 114	767	5 220	11 857	292	2 750	13 305	104 636	66 628
MECHANICS AND REPAIRERS	63 748	57 697	2 934	622	318	1 994	3 052	65	790	3 792	35 213	21 819
CONSTRUCTION TRADES	50 220	41 222	2 222	212	264	1 746	6 645	131	1 434	6 767	28 912	10 799
PRECISION PRODUCTION OCCUPATIONS	79 870	75 741	1 927	280	185	1 462	2 121	81	514	2 731	40 355	33 938
OPERATORS, FABRICATORS, AND LABORERS	211 770	201 776	6 394	1 422	540	4 432	3 426	174	5 273	23 862	114 388	58 876
MACHINE OPERATORS AND TENDERS, EXCEPT PRECISION	71 056	69 288	958	233	85	640	779	31	873	4 840	39 444	23 010
FABRICATORS, ASSEMBLERS, INSPECTORS, AND SAMPLERS	46 587	45 475	745	284	81	380	353	14	477	3 263	29 466	11 153
TRANSPORTATION OCCUPATIONS	37 504	33 658	2 195	458	212	1 525	1 634	17	894	3 822	16 502	14 396
MOTOR VEHICLE OPERATORS	34 648	31 196	1 801	115	190	1 496	1 634	17	879	3 659	15 003	13 388
MATERIAL MOVING EQUIPMENT OPERATORS	15 768	14 779	756	79	26	651	230	3	178	1 114	10 243	3 500
HANDLERS, EQUIPMENT CLEANERS, HELPERS, AND LABORERS	40 855	38 576	1 740	368	136	1 236	430	109	2 851	10 823	18 733	6 817
CONSTRUCTION LABORERS	3 920	3 538	382	17	32	333	-	-	289	812	2 082	501
FREIGHT, STOCK, AND MATERIAL HANDLERS	16 510	15 825	524	171	-	353	106	55	1 412	5 450	6 766	2 348

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

DETROIT, MI SMSA	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY	1 TO 14	15 TO 34	35 TO 40	41+
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	HOURS	HOURS	HOURS	HOURS
WHITE												
FEMALES 16 YEARS AND OVER	593 531	482 057	93 113	10 415	16 635	66 063	14 849	3 512	45 934	149 544	307 114	68 686
MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS	124 187	76 823	42 113	2 206	6 446	33 461	4 629	622	8 489	23 126	67 324	21 446
EXECUTIVE, ADMINISTRATIVE, AND MANAGERIAL OCCUPATIONS	43 087	35 372	5 446	1 312	1 382	2 752	1 757	512	1 178	4 936	25 208	10 674
OFFICIALS AND ADMINISTRATORS, PUBLIC ADMINISTRATION	1 229	-	1 229	269	218	742	-	-	111	129	759	181
MANAGEMENT RELATED OCCUPATIONS	14 091	11 721	1 982	752	612	618	327	61	310	1 550	9 219	2 572
PROFESSIONAL SPECIALTY OCCUPATIONS	81 100	41 451	36 667	894	5 064	30 709	2 872	110	7 311	18 190	42 116	10 772
ENGINEERS AND NATURAL SCIENTISTS	3 649	3 213	399	195	108	96	37	-	37	279	2 459	779
ENGINEERS	1 217	1 146	71	64	7	-	-	-	-	64	844	285
HEALTH DIAGNOSING OCCUPATIONS	1 032	739	112	-	73	39	181	-	41	213	258	479
HEALTH ASSESSMENT AND TREATING OCCUPATIONS	20 866	17 722	2 940	195	883	1 862	186	18	1 066	6 091	10 423	2 589
TEACHERS, LIBRARIANS, AND COUNSELORS	41 664	10 940	29 819	269	2 195	27 355	900	5	4 928	8 774	22 442	4 071
TEACHERS, ELEMENTARY AND SECONDARY SCHOOLS	33 650	7 738	25 862	215	1 026	24 621	45	5	3 072	6 621	19 426	3 332
TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS	297 759	257 476	32 755	7 400	6 738	18 617	5 385	2 143	18 798	71 086	167 610	31 203
HEALTH TECHNOLOGISTS AND TECHNICIANS	11 709	10 448	1 178	119	339	720	67	16	492	2 873	6 711	1 167
TECHNOLOGISTS AND TECHNICIANS, EXCEPT HEALTH	5 368	4 343	990	175	256	559	35	-	138	601	3 360	1 139
SALES OCCUPATIONS	78 537	73 364	768	142	130	496	3 756	649	9 323	29 673	28 202	8 609
SUPERVISORS AND PROPRIETORS, SALES OCCUPATIONS	5 637	4 738	19	3	8	8	736	144	89	836	2 652	1 912
SALES REPRESENTATIVES, COMMODITIES AND FINANCE	12 509	11 187	85	54	7	24	1 151	86	832	2 641	6 176	2 482
OTHER SALES OCCUPATIONS	60 391	57 439	664	85	115	464	1 869	419	8 402	26 196	19 374	4 215
CASHIERS	25 574	24 748	515	63	75	377	169	142	2 936	10 666	8 876	2 056
ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL	202 145	169 321	29 819	6 964	6 013	16 842	1 527	1 478	8 845	37 939	129 337	20 288
COMPUTER EQUIPMENT OPERATORS	3 444	3 148	294	70	39	185	-	2	98	410	2 322	533
SECRETARIES, STENOGRAPHERS, AND TYPISTS	74 275	60 189	12 950	1 930	2 600	8 420	657	479	2 648	12 151	51 219	6 318
FINANCIAL RECORDS PROCESSING OCCUPATIONS	29 652	26 699	1 941	263	460	1 218	497	515	1 639	5 539	18 301	3 468
MAIL AND MESSAGE DISTRIBUTING OCCUPATIONS	3 570	1 126	2 414	2 369	27	18	30	-	142	410	2 192	656
SERVICE OCCUPATIONS	107 274	89 447	14 156	536	2 843	10 777	3 337	334	15 756	42 647	36 918	7 470
PRIVATE HOUSEHOLD OCCUPATIONS	4 055	4 041	-	-	-	-	14	-	1 305	1 232	913	441
PROTECTIVE SERVICE OCCUPATIONS	2 425	1 140	1 285	47	104	1 134	-	-	463	586	941	318
POLICE AND FIREFIGHTERS	412	-	412	11	30	371	-	-	-	21	288	77
SERVICE OCCUPATIONS, EXCEPT PROTECTIVE AND HOUSEHOLD	100 794	84 266	12 871	489	2 739	9 643	3 323	334	13 988	40 829	35 064	6 711
FOOD SERVICE OCCUPATIONS	50 175	45 916	3 690	104	536	3 050	401	168	7 743	24 361	12 965	2 946
CLEANING AND BUILDING SERVICE OCCUPATIONS, EXCEPT HOUSEHOLD	11 690	9 282	2 011	67	513	1 431	327	70	1 449	3 343	5 661	600
FARMING, FORESTRY, AND FISHING OCCUPATIONS	1 932	1 245	112	4	38	70	368	207	223	669	560	412
FARM OPERATORS AND MANAGERS	340	71	-	-	-	-	269	-	23	102	56	140
FARM WORKERS AND RELATED OCCUPATIONS	1 573	1 155	112	4	38	70	99	207	200	559	504	261
PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS	10 398	9 341	416	58	122	236	559	82	457	1 774	5 617	2 042
MECHANICS AND REPAIRERS	1 488	1 375	69	12	13	44	35	9	31	164	907	307
CONSTRUCTION TRADES	832	642	70	12	22	36	102	18	82	198	387	114
PRECISION PRODUCTION OCCUPATIONS	8 063	7 309	277	34	87	156	422	55	344	1 406	4 314	1 621
OPERATORS, FABRICATORS, AND LABORERS	51 981	47 725	3 561	211	448	2 902	571	124	2 211	10 242	29 085	6 113
MACHINE OPERATORS AND TENDERS, EXCEPT PRECISION	21 886	21 209	312	32	74	206	307	58	749	3 552	13 358	2 506
FABRICATORS, ASSEMBLERS, INSPECTORS, AND SAMPLERS	15 162	14 914	137	18	56	63	91	20	391	1 838	9 125	2 132
TRANSPORTATION OCCUPATIONS	5 052	2 050	2 888	61	300	2 527	106	8	340	2 284	1 612	563
MOTOR VEHICLE OPERATORS	5 006	2 024	2 868	48	300	2 520	106	8	333	2 284	1 578	563
MATERIAL MOVING EQUIPMENT OPERATORS	704	681	19	-	-	19	4	-	20	60	469	70
HANDLERS, EQUIPMENT CLEANERS, HELPERS, AND LABORERS	9 177	8 871	205	100	18	87	63	38	711	2 508	4 521	842
CONSTRUCTION LABORERS	129	86	43	22	9	12	-	-	15	24	78	9
FREIGHT, STOCK, AND MATERIAL HANDLERS	3 003	2 909	59	45	9	5	27	8	237	1 126	1 244	219

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

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DETROIT, MI SMSA

	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY	1 TO 14	15 TO 34	35 TO 40	41+
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	HOURS	HOURS	HOURS	HOURS
BLACK												
MALES 16 YEARS AND OVER.	133 299	104 062	25 419	5 312	3 558	16 549	3 645	173	4 263	13 476	84 199	23 635
MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS	16 876	9 685	6 109	739	1 303	4 067	1 050	32	415	1 295	9 871	4 769
EXECUTIVE, ADMINISTRATIVE, AND MANAGERIAL OCCUPATIONS.	8 309	5 245	2 489	452	512	1 525	543	32	147	288	4 943	2 646
OFFICIALS AND ADMINISTRATORS, PUBLIC ADMINISTRATION.	547	-	547	118	122	307	-	-	11	5	354	135
MANAGEMENT RELATED OCCUPATIONS . . .	2 671	1 549	1 034	266	238	530	88	-	14	79	1 853	667
PROFESSIONAL SPECIALTY OCCUPATIONS . .	8 567	4 440	3 620	287	791	2 542	507	-	268	1 007	4 928	2 123
ENGINEERS AND NATURAL SCIENTISTS . .	1 990	1 678	293	95	40	158	19	-	21	66	1 458	366
ENGINEERS	1 432	1 240	179	52	23	104	13	-	21	52	1 041	263
HEALTH DIAGNOSING OCCUPATIONS. . . .	606	392	80	24	35	21	134	-	-	51	150	369
HEALTH ASSESSMENT AND TREATING OCCUPATIONS	517	349	161	-	83	78	7	-	6	39	340	132
TEACHERS, LIBRARIANS, AND COUNSELORS	2 436	432	1 985	45	253	1 687	19	-	100	521	1 415	372
TEACHERS, ELEMENTARY AND SECONDARY SCHOOLS.	1 685	164	1 521	12	75	1 434	-	-	68	362	982	260
TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS	19 481	13 504	5 247	2 936	697	1 614	669	61	530	2 108	12 230	4 027
HEALTH TECHNOLOGISTS AND TECHNICIANS .	546	369	177	7	55	115	-	-	14	31	400	94
TECHNOLOGISTS AND TECHNICIANS, EXCEPT HEALTH.	1 738	1 444	288	129	11	148	6	-	15	98	1 253	318
SALES OCCUPATIONS.	5 797	5 014	109	22	37	50	613	61	243	836	2 903	1 687
SUPERVISORS AND PROPRIETORS, SALES OCCUPATIONS	1 143	802	20	-	20	-	282	39	45	86	483	499
SALES REPRESENTATIVES, COMMODITIES AND FINANCE	2 068	1 890	21	5	7	9	151	6	41	142	1 217	630
OTHER SALES OCCUPATIONS.	2 586	2 322	68	17	10	41	180	16	157	608	1 203	558
CASHIERS.	647	596	45	17	4	24	6	-	30	187	324	95
ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL.	11 400	6 677	4 673	2 778	594	1 301	50	-	258	1 143	7 674	1 928
COMPUTER EQUIPMENT OPERATORS	457	385	72	46	5	21	-	-	13	26	311	101
SECRETARIES, STENOGRAPHERS, AND TYPISTS	254	140	114	38	11	65	-	-	28	27	155	44
FINANCIAL RECORDS PROCESSING OCCUPATIONS	391	247	144	19	45	80	-	-	6	38	269	73
MAIL AND MESSAGE DISTRIBUTING OCCUPATIONS	2 295	442	1 853	1 769	40	44	-	-	45	117	1 583	487
SERVICE OCCUPATIONS.	20 859	13 510	6 970	571	1 065	5 334	364	15	1 189	3 422	12 432	2 771
PRIVATE HOUSEHOLD OCCUPATIONS.	109	109	-	-	-	-	-	-	17	66	21	5
PROTECTIVE SERVICE OCCUPATIONS	5 225	2 242	2 983	168	173	2 642	-	-	77	357	3 556	1 013
POLICE AND FIREFIGHTERS.	1 926	-	1 926	45	89	1 792	-	-	5	22	1 446	397
SERVICE OCCUPATIONS, EXCEPT PROTECTIVE AND HOUSEHOLD	15 525	11 159	3 987	403	892	2 692	364	15	1 095	2 999	8 855	1 753
FOOD SERVICE OCCUPATIONS	3 568	3 214	303	28	62	213	51	-	490	1 206	1 366	308
CLEANING AND BUILDING SERVICE OCCUPATIONS, EXCEPT HOUSEHOLD	9 043	6 364	2 588	270	330	1 988	76	15	485	1 287	5 739	1 003
FARMING, FORESTRY, AND FISHING OCCUPATIONS	593	253	316	37	74	205	24	-	68	63	312	51
FARM OPERATORS AND MANAGERS.	55	22	9	9	-	-	24	-	10	10	35	-
FARM WORKERS AND RELATED OCCUPATIONS .	519	222	297	28	74	195	-	-	58	44	267	51
PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS	19 628	16 206	2 442	422	156	1 864	980	-	436	1 412	12 858	3 860
MECHANICS AND REPAIRERS.	7 735	6 255	1 144	289	25	830	336	-	162	495	5 234	1 441
CONSTRUCTION TRADES.	5 041	3 811	694	77	70	547	536	-	192	590	3 069	858
PRECISION PRODUCTION OCCUPATIONS . . .	6 834	6 122	604	56	61	487	108	-	82	327	4 548	1 555
OPERATORS, FABRICATORS, AND LABORERS . .	55 862	50 904	4 335	607	263	3 465	558	65	1 625	5 176	36 496	8 157
MACHINE OPERATORS AND TENDERS, EXCEPT PRECISION	15 812	15 188	489	73	34	382	123	12	362	1 373	10 853	2 002
FABRICATORS, ASSEMBLERS, INSPECTORS, AND SAMPLERS.	17 985	17 620	331	117	20	194	21	13	412	1 262	12 466	2 192
TRANSPORTATION OCCUPATIONS	7 859	5 613	1 895	118	98	1 679	334	17	259	756	4 402	1 921
MOTOR VEHICLE OPERATORS.	7 694	5 470	1 873	112	98	1 663	334	17	259	756	4 296	1 906
MATERIAL MOVING EQUIPMENT OPERATORS. .	4 662	4 413	229	21	34	174	20	-	59	289	3 157	749
HANDLERS, EQUIPMENT CLEANERS, HELPERS, AND LABORERS	9 544	8 070	1 391	278	77	1 036	60	23	533	1 496	5 618	1 293
CONSTRUCTION LABORERS.	1 189	993	196	-	-	196	-	-	35	213	737	119
FREIGHT, STOCK, AND MATERIAL HANDLERS.	2 763	2 175	580	190	30	360	-	8	269	536	1 506	283

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

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DETROIT, MI SMSA

	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY	1 TO 14	15 TO 34	35 TO 40	41+
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	HOURS	HOURS	HOURS	HOURS
BLACK												
FEMALES 16 YEARS AND OVER	135 547	91 200	42 500	8 739	9 409	24 352	1 673	174	7 123	25 866	82 983	11 538
MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS	24 257	9 493	14 391	1 381	3 339	9 671	340	33	824	4 076	16 007	2 420
EXECUTIVE, ADMINISTRATIVE, AND MANAGERIAL OCCUPATIONS	7 573	4 355	3 012	886	799	1 327	194	12	171	676	5 376	1 086
OFFICIALS AND ADMINISTRATORS, PUBLIC ADMINISTRATION	520	-	520	142	154	224	-	-	9	11	441	40
MANAGEMENT RELATED OCCUPATIONS	3 187	1 715	1 420	549	450	421	45	7	62	212	2 486	298
PROFESSIONAL SPECIALTY OCCUPATIONS	16 684	5 138	11 379	495	2 540	8 344	146	21	653	3 400	10 631	1 334
ENGINEERS AND NATURAL SCIENTISTS	523	394	125	71	29	25	4	-	-	40	390	52
ENGINEERS	217	203	14	-	-	14	-	-	-	13	149	38
HEALTH DIAGNOSING OCCUPATIONS	207	163	39	8	18	13	-	5	16	21	76	84
HEALTH ASSESSMENT AND TREATING OCCUPATIONS	3 233	2 210	1 018	99	336	583	5	-	53	296	2 354	369
TEACHERS, LIBRARIANS, AND COUNSELORS	8 765	1 263	7 442	105	487	6 850	44	16	436	2 607	4 994	474
TEACHERS, ELEMENTARY AND SECONDARY SCHOOLS	7 274	853	6 409	86	213	6 110	12	-	264	2 279	4 172	335
TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS	57 499	39 104	17 937	6 234	3 636	8 067	376	82	2 464	9 748	37 434	5 004
HEALTH TECHNOLOGISTS AND TECHNICIANS	4 018	2 996	1 002	135	379	488	20	-	79	594	2 721	363
TECHNOLOGISTS AND TECHNICIANS, EXCEPT HEALTH	925	613	312	153	77	82	-	-	73	109	643	58
SALES OCCUPATIONS	9 153	8 448	382	55	88	239	260	63	805	2 956	3 851	926
SUPERVISORS AND PROPRIETORS, SALES OCCUPATIONS	505	363	21	-	15	6	110	11	7	64	275	130
SALES REPRESENTATIVES, COMMODITIES AND FINANCE	1 124	1 045	40	14	6	20	39	-	34	157	738	172
OTHER SALES OCCUPATIONS	7 524	7 040	321	41	67	213	111	52	764	2 735	2 838	624
CASHIERS	3 960	3 633	265	27	47	191	31	31	351	1 466	1 493	355
ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL	43 403	27 047	16 241	5 891	3 092	7 258	96	19	1 507	6 089	30 219	3 657
COMPUTER EQUIPMENT OPERATORS	1 103	798	305	205	64	36	-	-	26	60	791	151
SECRETARIES, STENOGRAPHERS, AND TYPISTS	11 488	6 703	4 738	854	1 153	2 731	41	6	460	1 299	8 557	718
FINANCIAL RECORDS PROCESSING OCCUPATIONS	3 557	2 549	966	289	190	487	29	13	72	353	2 673	344
MAIL AND MESSAGE DISTRIBUTING OCCUPATIONS	2 770	441	2 329	2 268	12	49	-	-	48	238	1 928	396
SERVICE OCCUPATIONS	33 518	24 106	8 594	673	2 212	5 709	772	46	3 108	8 976	17 135	2 291
PRIVATE HOUSEHOLD OCCUPATIONS	2 968	2 968	-	-	-	-	-	-	672	1 280	695	127
PROTECTIVE SERVICE OCCUPATIONS	1 162	413	749	31	76	642	-	-	77	177	678	148
POLICE AND FIREFIGHTERS	425	-	425	12	12	401	-	-	14	19	326	38
SERVICE OCCUPATIONS, EXCEPT PROTECTIVE AND HOUSEHOLD	29 388	20 725	7 845	642	2 136	5 067	772	46	2 359	7 519	15 762	2 016
FOOD SERVICE OCCUPATIONS	6 642	5 360	1 212	98	264	850	33	37	774	2 243	2 848	419
CLEANING AND BUILDING SERVICE OCCUPATIONS, EXCEPT HOUSEHOLD	6 842	4 904	1 868	175	423	1 270	70	-	441	1 658	4 062	310
FARMING, FORESTRY, AND FISHING OCCUPATIONS	112	18	67	-	18	49	27	-	12	14	61	13
FARM OPERATORS AND MANAGERS	9	-	-	-	-	-	9	-	-	-	9	-
FARM WORKERS AND RELATED OCCUPATIONS	103	18	67	-	18	49	18	-	12	14	52	13
PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS	2 410	2 073	224	97	13	114	100	13	85	368	1 424	402
MECHANICS AND REPAIRERS	545	520	20	16	-	4	5	-	5	58	325	131
CONSTRUCTION TRADES	203	134	69	15	-	54	-	-	15	7	121	34
PRECISION PRODUCTION OCCUPATIONS	1 649	1 406	135	66	13	56	95	13	65	303	965	237
OPERATORS, FABRICATORS, AND LABORERS	17 751	16 406	1 287	354	191	742	58	-	630	2 684	10 922	1 408
MACHINE OPERATORS AND TENDERS, EXCEPT PRECISION	7 745	7 434	292	115	60	117	19	-	259	1 062	5 035	490
FABRICATORS, ASSEMBLERS, INSPECTORS, AND SAMPLERS	6 199	6 090	109	43	4	62	-	-	189	688	3 853	616
TRANSPORTATION OCCUPATIONS	1 093	523	549	28	83	438	21	-	34	386	472	114
MOTOR VEHICLE OPERATORS	1 071	513	537	16	83	438	21	-	34	379	467	114
MATERIAL MOVING EQUIPMENT OPERATORS	265	238	27	4	-	23	-	-	-	33	180	18
HANDLERS, EQUIPMENT CLEANERS, HELPERS, AND LABORERS	2 449	2 121	310	164	44	102	18	-	148	515	1 382	170
CONSTRUCTION LABORERS	34	24	10	-	-	10	-	-	3	20	11	-
FREIGHT, STOCK, AND MATERIAL HANDLERS	557	393	164	129	15	20	-	-	66	111	264	77

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

DETROIT, MI SMSA

	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY	1 TO 14	15 TO 34	35 TO 40	41+
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	HOURS	HOURS	HOURS	HOURS
ASIAN AND PACIFIC ISLANDER												
MALES 16 YEARS AND OVER	8 894	7 518	842	158	319	365	498	36	246	427	4 566	3 491
MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS	4 776	3 798	615	114	255	246	349	14	65	97	2 367	2 183
EXECUTIVE, ADMINISTRATIVE, AND MANAGERIAL OCCUPATIONS	1 057	817	93	16	44	33	133	14	11	21	501	473
OFFICIALS AND ADMINISTRATORS, PUBLIC ADMINISTRATION	12	-	12	-	-	12	-	-	-	-	-	12
MANAGEMENT RELATED OCCUPATIONS	259	194	57	16	28	13	8	-	5	10	173	51
PROFESSIONAL SPECIALTY OCCUPATIONS	3 719	2 981	522	98	211	213	216	-	54	76	1 866	1 710
ENGINEERS AND NATURAL SCIENTISTS	1 807	1 594	189	36	17	136	24	-	16	25	1 218	542
ENGINEERS	1 378	1 232	127	29	7	91	19	-	16	13	867	478
HEALTH DIAGNOSING OCCUPATIONS	1 421	1 076	164	54	91	19	181	-	7	16	406	992
HEALTH ASSESSMENT AND TREATING OCCUPATIONS	153	140	13	-	-	13	-	-	6	8	77	62
TEACHERS, LIBRARIANS, AND COUNSELORS	186	37	144	-	103	41	5	-	13	27	90	49
TEACHERS, ELEMENTARY AND SECONDARY SCHOOLS	56	20	36	-	-	36	-	-	7	15	27	7
TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS	1 343	1 196	80	31	31	18	60	7	37	99	782	405
HEALTH TECHNOLOGISTS AND TECHNICIANS	122	117	5	-	-	5	-	-	-	2	90	30
TECHNOLOGISTS AND TECHNICIANS, EXCEPT HEALTH	419	390	29	16	7	6	-	-	7	26	264	122
SALES OCCUPATIONS	410	343	-	-	-	-	60	7	30	21	194	159
SUPERVISORS AND PROPRIETORS, SALES OCCUPATIONS	122	93	-	-	-	-	29	-	7	6	45	58
SALES REPRESENTATIVES, COMMODITIES AND FINANCE	164	150	-	-	-	-	14	-	4	8	102	50
OTHER SALES OCCUPATIONS	124	100	-	-	-	-	17	7	19	7	47	51
CASHIERS	49	42	-	-	-	-	-	7	19	-	10	20
ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL	392	346	46	15	24	7	-	-	-	50	234	94
COMPUTER EQUIPMENT OPERATORS	27	11	16	-	16	-	-	-	-	-	18	9
SECRETARIES, STENOGRAPHERS, AND TYPISTS	6	6	-	-	-	-	-	-	-	-	6	-
FINANCIAL RECORDS PROCESSING OCCUPATIONS	51	46	5	2	3	-	-	-	-	-	38	13
MAIL AND MESSAGE DISTRIBUTING OCCUPATIONS	17	9	8	8	-	-	-	-	-	4	13	-
SERVICE OCCUPATIONS	1 047	913	82	10	17	55	37	15	84	104	384	447
PRIVATE HOUSEHOLD OCCUPATIONS	5	5	-	-	-	-	-	-	-	-	5	-
PROTECTIVE SERVICE OCCUPATIONS	42	13	29	-	2	27	-	-	-	-	37	5
POLICE AND FIREFIGHTERS	27	-	27	-	-	27	-	-	-	-	24	3
SERVICE OCCUPATIONS, EXCEPT PROTECTIVE AND HOUSEHOLD	1 000	895	53	10	15	28	37	15	84	104	342	442
FOOD SERVICE OCCUPATIONS	692	640	-	-	-	-	37	15	26	79	205	365
CLEANING AND BUILDING SERVICE OCCUPATIONS, EXCEPT HOUSEHOLD	150	135	15	3	-	12	-	-	33	13	58	35
FARMING, FORESTRY, AND FISHING OCCUPATIONS	27	24	-	-	-	-	3	-	9	5	10	3
FARM OPERATORS AND MANAGERS	3	-	-	-	-	-	3	-	2	-	-	1
FARM WORKERS AND RELATED OCCUPATIONS	24	24	-	-	-	-	-	-	7	5	10	2
PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS	631	570	35	3	8	24	26	-	6	26	364	228
MECHANICS AND REPAIRERS	273	257	8	-	8	-	8	-	-	15	151	107
CONSTRUCTION TRADES	52	38	14	-	-	14	-	-	6	-	39	7
PRECISION PRODUCTION OCCUPATIONS	306	275	13	3	-	10	18	-	-	11	174	114
OPERATORS, FABRICATORS, AND LABORERS	1 070	1 017	30	-	8	22	23	-	45	96	659	225
MACHINE OPERATORS AND TENDERS, EXCEPT PRECISION	382	371	2	-	-	2	9	-	21	27	210	110
FABRICATORS, ASSEMBLERS, INSPECTORS, AND SAMPLERS	234	228	6	-	-	6	-	-	-	7	180	41
TRANSPORTATION OCCUPATIONS	92	78	8	-	-	8	6	-	6	-	70	16
MOTOR VEHICLE OPERATORS	77	63	8	-	-	8	6	-	6	-	55	16
MATERIAL MOVING EQUIPMENT OPERATORS	68	68	-	-	-	-	-	-	-	-	44	24
HANDLERS, EQUIPMENT CLEANERS, HELPERS, AND LABORERS	294	272	14	-	8	6	8	-	18	62	155	34
CONSTRUCTION LABORERS	24	10	14	-	8	6	-	-	-	4	14	6
FREIGHT, STOCK, AND MATERIAL HANDLERS	70	70	-	-	-	-	-	-	5	9	24	13

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

DETROIT, MI SMSA	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY				
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	1 TO 14 HOURS	15 TO 34 HOURS	35 TO 40 HOURS	41+ HOURS
ASIAN AND PACIFIC ISLANDER												
FEMALES 16 YEARS AND OVER	6 452	5 256	909	113	283	513	174	113	327	1 127	3 727	1 096
MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS	2 738	1 997	625	49	185	391	78	38	118	299	1 725	527
EXECUTIVE, ADMINISTRATIVE, AND MANAGERIAL OCCUPATIONS	311	223	35	5	9	21	15	38	29	26	180	59
OFFICIALS AND ADMINISTRATORS, PUBLIC ADMINISTRATION	-	-	-	-	-	-	-	-	-	-	-	-
MANAGEMENT RELATED OCCUPATIONS	131	115	16	5	5	6	-	-	5	7	84	18
PROFESSIONAL SPECIALTY OCCUPATIONS	2 427	1 774	590	44	176	370	63	-	89	273	1 545	468
ENGINEERS AND NATURAL SCIENTISTS	151	141	10	-	4	6	-	-	4	4	112	31
ENGINEERS	59	55	4	-	4	-	-	-	-	4	42	13
HEALTH DIAGNOSING OCCUPATIONS	473	345	92	12	50	30	36	-	22	72	183	192
HEALTH ASSESSMENT AND TREATING OCCUPATIONS	1 399	1 134	256	26	65	165	9	-	13	116	1 041	198
TEACHERS, LIBRARIANS, AND COUNSELORS	320	119	196	6	35	155	5	-	44	74	156	29
TEACHERS, ELEMENTARY AND SECONDARY SCHOOLS	213	78	135	-	-	135	-	-	21	52	105	23
TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS	1 950	1 645	214	53	81	80	70	21	95	349	1 172	285
HEALTH TECHNOLOGISTS AND TECHNICIANS	347	307	40	-	16	24	-	-	4	49	250	44
TECHNOLOGISTS AND TECHNICIANS, EXCEPT HEALTH	114	95	19	6	6	7	-	-	-	-	86	28
SALES OCCUPATIONS	406	321	12	-	6	6	57	16	70	98	125	104
SUPERVISORS AND PROPRIETORS, SALES OCCUPATIONS	44	26	-	-	-	-	12	6	-	-	19	25
SALES REPRESENTATIVES, COMMODITIES AND FINANCE	48	34	-	-	-	-	14	-	11	5	18	5
OTHER SALES OCCUPATIONS	314	261	12	-	6	6	31	10	59	93	88	74
CASHIERS	110	98	12	-	6	6	-	-	31	26	20	33
ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL	1 083	922	143	47	53	43	13	5	21	202	711	109
COMPUTER EQUIPMENT OPERATORS	42	42	-	-	-	-	-	-	-	3	39	-
SECRETARIES, STENOGRAPHERS, AND TYPISTS	303	224	69	21	33	15	5	5	7	31	204	51
FINANCIAL RECORDS PROCESSING OCCUPATIONS	121	107	6	-	6	-	8	-	-	8	98	8
MAIL AND MESSAGE DISTRIBUTING OCCUPATIONS	9	6	3	3	-	-	-	-	-	6	3	-
SERVICE OCCUPATIONS	1 303	1 182	61	6	17	38	12	48	87	409	579	206
PRIVATE HOUSEHOLD OCCUPATIONS	45	45	-	-	-	-	-	-	6	18	21	-
PROTECTIVE SERVICE OCCUPATIONS	7	7	-	-	-	-	-	-	-	-	7	-
POLICE AND FIREFIGHTERS	-	-	-	-	-	-	-	-	-	-	-	-
SERVICE OCCUPATIONS, EXCEPT PROTECTIVE AND HOUSEHOLD	1 251	1 130	61	6	17	38	12	48	81	391	551	206
FOOD SERVICE OCCUPATIONS	654	598	-	-	-	-	8	48	30	263	193	154
CLEANING AND BUILDING SERVICE OCCUPATIONS, EXCEPT HOUSEHOLD	66	37	29	6	13	10	-	-	9	11	36	10
FARMING, FORESTRY, AND FISHING OCCUPATIONS	7	7	-	-	-	-	-	-	-	7	-	-
FARM OPERATORS AND MANAGERS	-	-	-	-	-	-	-	-	-	-	-	-
FARM WORKERS AND RELATED OCCUPATIONS	7	7	-	-	-	-	-	-	-	7	-	-
PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS	93	78	9	5	-	4	6	-	17	4	38	25
MECHANICS AND REPAIRERS	21	21	-	-	-	-	-	-	-	-	12	-
CONSTRUCTION TRADES	5	-	5	5	-	-	-	-	5	-	-	-
PRECISION PRODUCTION OCCUPATIONS	67	57	4	-	-	4	6	-	12	4	26	25
OPERATORS, FABRICATORS, AND LABORERS	361	347	-	-	-	-	8	6	10	59	213	53
MACHINE OPERATORS AND TENDERS, EXCEPT PRECISION	164	164	-	-	-	-	-	-	4	20	106	8
FABRICATORS, ASSEMBLERS, INSPECTORS, AND SAMPLERS	142	142	-	-	-	-	-	-	-	34	74	34
TRANSPORTATION OCCUPATIONS	-	-	-	-	-	-	-	-	-	-	-	-
MOTOR VEHICLE OPERATORS	-	-	-	-	-	-	-	-	-	-	-	-
MATERIAL MOVING EQUIPMENT OPERATORS	-	-	-	-	-	-	-	-	-	-	-	-
HANDLERS, EQUIPMENT CLEANERS, HELPERS, AND LABORERS	55	41	-	-	-	-	8	6	6	5	33	11
CONSTRUCTION LABORERS	-	-	-	-	-	-	-	-	-	-	-	-
FREIGHT, STOCK, AND MATERIAL HANDLERS	6	6	-	-	-	-	-	-	-	-	6	-

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

DETROIT, MI SMSA

	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY	1 TO 14	15 TO 34	35 TO 40	41+
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	HOURS	HOURS	HOURS	HOURS
SPANISH ORIGIN												
MALES 16 YEARS AND OVER	14 041	12 093	1 390	259	227	904	526	32	486	1 460	7 780	3 766
MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS	2 180	1 616	367	35	94	238	197	-	29	134	998	980
EXECUTIVE, ADMINISTRATIVE, AND MANAGERIAL OCCUPATIONS	1 008	810	135	16	24	95	63	-	-	45	475	457
OFFICIALS AND ADMINISTRATORS, PUBLIC ADMINISTRATION	47	-	47	-	16	31	-	-	-	-	40	-
MANAGEMENT RELATED OCCUPATIONS	231	169	57	16	8	33	5	-	-	4	110	117
PROFESSIONAL SPECIALTY OCCUPATIONS	1 172	806	232	19	70	143	134	-	29	89	523	523
ENGINEERS AND NATURAL SCIENTISTS	370	337	33	5	9	19	-	-	-	14	227	129
ENGINEERS	270	247	23	5	9	9	-	-	-	9	161	100
HEALTH DIAGNOSING OCCUPATIONS	227	164	11	-	11	-	52	-	-	-	25	202
HEALTH ASSESSMENT AND TREATING OCCUPATIONS	92	79	8	8	-	-	5	-	-	5	55	24
TEACHERS, LIBRARIANS, AND COUNSELORS	188	66	122	-	44	78	-	-	12	11	96	69
TEACHERS, ELEMENTARY AND SECONDARY SCHOOLS	74	20	54	-	-	54	-	-	6	-	38	30
TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS	1 990	1 651	247	111	43	93	92	-	80	197	1 071	618
HEALTH TECHNOLOGISTS AND TECHNICIANS	58	50	8	-	8	-	-	-	-	14	30	14
TECHNOLOGISTS AND TECHNICIANS, EXCEPT HEALTH	243	203	33	7	13	13	7	-	6	17	118	96
SALES OCCUPATIONS	711	631	6	6	-	-	74	-	19	78	303	293
SUPERVISORS AND PROPRIETORS, SALES OCCUPATIONS	232	187	-	-	-	-	45	-	-	-	94	125
SALES REPRESENTATIVES, COMMODITIES AND FINANCE	196	186	-	-	-	-	10	-	-	9	84	103
OTHER SALES OCCUPATIONS	283	258	6	6	-	-	19	-	19	69	125	65
CASHIERS	80	74	6	6	-	-	-	-	7	24	24	25
ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL	978	767	200	98	22	80	11	-	55	88	620	215
COMPUTER EQUIPMENT OPERATORS	36	28	8	-	8	-	-	-	-	-	24	12
SECRETARIES, STENOGRAPHERS, AND TYPISTS	60	48	12	-	-	12	-	-	-	13	21	26
FINANCIAL RECORDS PROCESSING OCCUPATIONS	59	26	22	8	-	14	11	-	6	14	36	3
MAIL AND MESSAGE DISTRIBUTING OCCUPATIONS	94	27	67	67	-	-	-	-	22	-	57	15
SERVICE OCCUPATIONS	1 697	1 241	394	24	48	322	62	-	167	357	819	289
PRIVATE HOUSEHOLD OCCUPATIONS	-	-	-	-	-	-	-	-	-	-	-	-
PROTECTIVE SERVICE OCCUPATIONS	332	142	190	-	16	174	-	-	-	50	175	100
POLICE AND FIREFIGHTERS	165	-	165	-	7	158	-	-	-	8	91	59
SERVICE OCCUPATIONS, EXCEPT PROTECTIVE AND HOUSEHOLD	1 365	1 099	204	24	32	148	62	-	167	307	644	189
FOOD SERVICE OCCUPATIONS	560	549	5	-	-	5	6	-	73	191	194	87
CLEANING AND BUILDING SERVICE OCCUPATIONS, EXCEPT HOUSEHOLD	628	459	153	24	2	127	16	-	81	83	366	70
FARMING, FORESTRY, AND FISHING OCCUPATIONS	176	142	30	-	23	7	4	-	-	53	46	73
FARM OPERATORS AND MANAGERS	16	12	-	-	-	-	4	-	-	10	4	-
FARM WORKERS AND RELATED OCCUPATIONS	160	130	30	-	23	7	-	-	-	43	42	73
PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS	2 744	2 453	149	20	12	117	128	14	66	195	1 612	749
MECHANICS AND REPAIRERS	1 198	1 062	66	14	12	40	56	14	35	68	748	291
CONSTRUCTION TRADES	617	542	52	6	-	46	23	-	31	100	346	108
PRECISION PRODUCTION OCCUPATIONS	929	849	31	-	-	31	49	-	-	27	518	350
OPERATORS, FABRICATORS, AND LABORERS	5 254	4 990	203	69	7	127	43	18	144	524	3 234	1 057
MACHINE OPERATORS AND TENDERS, EXCEPT PRECISION	1 510	1 465	21	9	2	10	24	-	46	101	936	340
FABRICATORS, ASSEMBLERS, INSPECTORS, AND SAMPLERS	1 802	1 773	29	-	-	29	-	-	7	142	1 161	339
TRANSPORTATION OCCUPATIONS	504	442	43	7	-	36	19	-	12	41	304	141
MOTOR VEHICLE OPERATORS	495	433	43	7	-	36	19	-	12	41	299	137
MATERIAL MOVING EQUIPMENT OPERATORS	413	374	39	25	5	9	-	-	-	28	277	95
HANDLERS, EQUIPMENT CLEANERS, HELPERS, AND LABORERS	1 025	936	71	28	-	43	-	18	79	212	556	142
CONSTRUCTION LABORERS	85	85	-	-	-	-	-	-	7	20	49	-
FREIGHT, STOCK, AND MATERIAL HANDLERS	313	253	50	16	-	34	-	10	37	116	120	27

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

DETROIT, MI SMSA	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY	1 TO 14	15 TO 34	35 TO 40	41+
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	HOURS	HOURS	HOURS	HOURS
SPANISH ORIGIN												
FEMALES 16 YEARS AND OVER	9 338	7 279	1 911	425	350	1 136	128	20	707	2 198	5 082	923
MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS	1 485	743	718	101	172	445	24	-	82	300	857	185
EXECUTIVE, ADMINISTRATIVE, AND MANAGERIAL OCCUPATIONS	372	208	153	59	36	58	11	-	8	53	230	54
OFFICIALS AND ADMINISTRATORS, PUBLIC ADMINISTRATION	10	-	10	-	5	5	-	-	-	-	10	-
MANAGEMENT RELATED OCCUPATIONS	174	87	87	32	27	28	-	-	-	29	118	17
PROFESSIONAL SPECIALTY OCCUPATIONS	1 113	535	565	42	136	387	13	-	74	247	627	131
ENGINEERS AND NATURAL SCIENTISTS	67	67	-	-	-	-	-	-	-	10	45	12
ENGINEERS	10	10	-	-	-	-	-	-	-	10	-	-
HEALTH DIAGNOSING OCCUPATIONS	24	11	13	7	6	-	-	-	-	-	11	13
HEALTH ASSESSMENT AND TREATING OCCUPATIONS	310	233	77	21	26	30	-	-	-	42	216	43
TEACHERS, LIBRARIANS, AND COUNSELORS	476	125	345	14	41	290	6	-	74	135	224	34
TEACHERS, ELEMENTARY AND SECONDARY SCHOOLS	356	73	283	14	14	255	-	-	51	94	186	21
TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS	4 255	3 423	789	280	100	409	29	14	268	924	2 523	400
HEALTH TECHNOLOGISTS AND TECHNICIANS	188	174	8	-	-	8	6	-	4	16	132	21
TECHNOLOGISTS AND TECHNICIANS, EXCEPT HEALTH	98	69	29	23	-	6	-	-	7	2	44	34
SALES OCCUPATIONS	1 057	1 013	21	11	-	10	23	-	159	379	373	127
SUPERVISORS AND PROPRIETORS, SALES OCCUPATIONS	82	68	-	-	-	-	14	-	-	-	28	54
SALES REPRESENTATIVES, COMMODITIES AND FINANCE	113	102	11	11	-	-	-	-	4	26	55	28
OTHER SALES OCCUPATIONS	862	843	10	-	-	10	9	-	155	353	290	45
CASHIERS	386	380	6	-	-	6	-	-	101	139	123	19
ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL	2 912	2 167	731	246	100	385	-	14	98	527	1 974	218
COMPUTER EQUIPMENT OPERATORS	49	40	9	9	-	-	-	-	-	-	42	-
SECRETARIES, STENOGRAPHERS, AND TYPISTS	1 010	777	225	49	33	143	-	8	29	153	720	77
FINANCIAL RECORDS PROCESSING OCCUPATIONS	350	301	49	21	6	22	-	-	12	58	233	40
MAIL AND MESSAGE DISTRIBUTING OCCUPATIONS	65	26	39	39	-	-	-	-	-	14	28	9
SERVICE OCCUPATIONS	1 966	1 602	321	29	63	229	43	-	266	709	773	105
PRIVATE HOUSEHOLD OCCUPATIONS	65	65	-	-	-	-	-	-	26	33	6	-
PROTECTIVE SERVICE OCCUPATIONS	75	39	36	11	-	25	-	-	5	16	49	5
POLICE AND FIREFIGHTERS	13	-	13	-	-	13	-	-	-	-	13	-
SERVICE OCCUPATIONS, EXCEPT PROTECTIVE AND HOUSEHOLD	1 826	1 498	285	18	63	204	43	-	235	660	718	100
FOOD SERVICE OCCUPATIONS	749	677	57	-	4	53	15	-	136	321	196	42
CLEANING AND BUILDING SERVICE OCCUPATIONS, EXCEPT HOUSEHOLD	367	334	33	-	-	33	-	-	32	117	167	26
FARMING, FORESTRY, AND FISHING OCCUPATIONS	28	22	2	-	2	-	4	-	-	10	12	6
FARM OPERATORS AND MANAGERS	4	-	-	-	-	-	4	-	-	-	2	2
FARM WORKERS AND RELATED OCCUPATIONS	24	22	2	-	2	-	-	-	-	10	10	4
PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS	135	122	-	-	-	-	13	-	-	2	89	44
MECHANICS AND REPAIRERS	29	25	-	-	-	-	4	-	-	-	25	4
CONSTRUCTION TRADES	-	-	-	-	-	-	-	-	-	-	-	-
PRECISION PRODUCTION OCCUPATIONS	106	97	-	-	-	-	9	-	-	2	64	40
OPERATORS, FABRICATORS, AND LABORERS	1 469	1 367	81	15	13	53	15	6	91	253	828	183
MACHINE OPERATORS AND TENDERS, EXCEPT PRECISION	771	725	25	11	-	14	15	6	45	156	449	94
FABRICATORS, ASSEMBLERS, INSPECTORS, AND SAMPLERS	410	389	21	4	13	4	-	-	21	59	231	41
TRANSPORTATION OCCUPATIONS	63	41	22	-	-	22	-	-	6	12	30	10
MOTOR VEHICLE OPERATORS	63	41	22	-	-	22	-	-	6	12	30	10
MATERIAL MOVING EQUIPMENT OPERATORS	40	40	-	-	-	-	-	-	-	-	21	9
HANDLERS, EQUIPMENT CLEANERS, HELPERS, AND LABORERS	185	172	13	-	-	13	-	-	19	26	97	29
CONSTRUCTION LABORERS	13	-	13	-	-	13	-	-	-	5	-	8
FREIGHT, STOCK, AND MATERIAL HANDLERS	35	35	-	-	-	-	-	-	5	8	15	7

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

FLINT, MI SMSA

	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY	1 TO 14	15 TO 34	35 TO 40	41+
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	HOURS	HOURS	HOURS	HOURS
TOTAL												
MALES 16 YEARS AND OVER	118 319	101 550	10 985	1 260	1 561	8 164	5 542	242	3 221	11 552	62 609	36 547
MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS	19 599	13 243	4 834	215	748	3 871	1 498	24	307	1 255	9 181	8 457
EXECUTIVE, ADMINISTRATIVE, AND MANAGERIAL OCCUPATIONS	9 419	7 252	1 476	141	268	1 067	667	24	67	369	4 132	4 657
OFFICIALS AND ADMINISTRATORS, PUBLIC ADMINISTRATION	263	-	263	22	66	175	-	-	7	9	153	90
ADMINISTRATORS, EDUCATION AND RELATED FIELDS	553	66	487	6	55	426	-	-	2	5	234	312
MANAGERS, MEDICINE AND HEALTH	68	62	6	-	-	6	-	-	-	-	18	42
OTHER SPECIFIED MANAGERS	1 621	1 484	84	21	13	50	53	-	6	17	670	897
MANAGERS AND ADMINISTRATORS, N.E.C., SALARIED	4 132	3 951	181	27	36	118	-	-	27	165	1 569	2 282
MANUFACTURING	951	951	-	-	-	-	-	-	-	36	417	465
TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES	325	289	36	19	-	17	-	-	-	-	122	200
WHOLESALE AND RETAIL TRADE	1 508	1 500	8	8	-	-	-	-	10	65	450	949
ALL OTHER INDUSTRIES	1 348	1 211	137	-	36	101	-	-	17	64	580	668
MANAGERS AND ADMINISTRATORS, N.E.C., SELF-EMPLOYED	517	-	-	-	-	-	500	17	2	65	133	301
CONSTRUCTION	87	-	-	-	-	-	87	-	2	31	33	14
MANUFACTURING	39	-	-	-	-	-	39	-	-	13	2	24
WHOLESALE AND RETAIL TRADE	233	-	-	-	-	-	223	10	-	12	39	173
ALL OTHER INDUSTRIES	158	-	-	-	-	-	151	7	-	9	59	90
MANAGEMENT RELATED OCCUPATIONS	2 265	1 689	455	65	98	292	114	7	23	108	1 355	733
ACCOUNTANTS AND AUDITORS	842	620	130	31	48	51	92	-	7	51	481	295
BUYERS AND PURCHASING AGENTS	321	292	22	5	7	10	-	7	9	-	197	109
PROFESSIONAL SPECIALTY OCCUPATIONS	10 180	5 991	3 358	74	480	2 804	831	-	240	886	5 049	3 800
ENGINEERS, ARCHITECTS, AND SURVEYORS	2 599	2 471	97	2	28	67	31	-	6	67	1 525	917
ARCHITECTS	81	62	-	-	-	-	19	-	6	8	36	26
ENGINEERS	2 465	2 375	85	2	22	61	5	-	-	59	1 448	879
ELECTRICAL AND ELECTRONIC ENGINEERS	271	266	5	-	-	5	-	-	-	8	160	90
MECHANICAL ENGINEERS	1 318	1 308	10	-	-	10	-	-	-	35	708	519
OTHER ENGINEERS	876	801	70	2	22	46	5	-	-	16	580	270
SURVEYORS AND MAPPING SCIENTISTS	53	34	12	-	6	6	7	-	-	-	41	12
MATHEMATICAL AND COMPUTER SCIENTISTS	288	258	30	8	4	18	-	-	-	-	193	95
COMPUTER SYSTEMS ANALYSTS AND SCIENTISTS	153	142	11	2	4	5	-	-	-	-	96	57
NATURAL SCIENTISTS	179	110	69	37	18	14	-	-	-	5	137	29
HEALTH DIAGNOSING OCCUPATIONS	1 081	765	20	-	-	20	296	-	8	133	336	592
PHYSICIANS	610	454	20	-	-	20	136	-	8	26	141	435
DENTISTS	242	182	-	-	-	-	60	-	-	58	116	61
OTHER HEALTH DIAGNOSING PRACTITIONERS	229	129	-	-	-	-	100	-	-	49	79	96
HEALTH ASSESSMENT AND TREATING OCCUPATIONS	423	324	82	-	13	69	17	-	12	8	223	180
REGISTERED NURSES	93	67	19	-	7	12	7	-	-	6	64	23
PHARMACISTS	206	187	9	-	-	9	10	-	12	2	78	114
THERAPISTS	97	61	36	-	6	30	-	-	-	-	60	37
TEACHERS, LIBRARIANS, AND COUNSELORS	3 103	513	2 572	4	210	2 358	18	-	95	413	1 671	863
TEACHERS, POSTSECONDARY	350	132	218	-	131	87	-	-	35	67	148	93
TEACHERS, ELEMENTARY AND PRE-KINDERGARTEN	1 490	151	1 339	-	22	1 317	-	-	19	184	862	404
TEACHERS, SECONDARY	935	103	832	-	15	817	-	-	27	109	523	258
SOCIAL SCIENTISTS AND URBAN PLANNERS	119	51	55	3	9	43	13	-	-	5	62	52
SOCIAL AND RECREATION WORKERS	302	27	275	-	140	135	-	-	-	14	233	55
RELIGIOUS WORKERS	537	468	-	-	-	-	69	-	14	45	71	394
LAWYERS AND JUDGES	521	195	102	20	44	38	224	-	13	49	195	257
WRITERS, ARTISTS, ENTERTAINERS, AND ATHLETES	1 028	809	56	-	14	42	163	-	92	147	403	366
TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS	16 825	14 092	1 496	720	285	491	1 198	39	629	1 543	8 058	6 281
TECHNICIANS AND RELATED SUPPORT OCCUPATIONS	1 990	1 746	221	50	66	105	23	-	51	164	1 158	567
HEALTH TECHNOLOGISTS AND TECHNICIANS	309	230	74	-	13	61	5	-	16	28	197	62
LICENSED PRACTICAL NURSES	25	20	5	-	5	-	-	-	-	-	25	-
ENGINEERING AND SCIENCE TECHNICIANS	1 229	1 145	68	17	25	26	16	-	24	99	683	396
ELECTRICAL AND ELECTRONIC TECHNICIANS	155	138	17	17	-	-	-	-	2	4	85	54
DRAFTING AND SURVEYING TECHNICIANS	580	538	28	-	5	23	14	-	10	60	291	207
TECHNICIANS, EXCEPT HEALTH, ENGINEERING, AND SCIENCE	452	371	79	33	28	18	2	-	11	37	278	109
AIRPLANE PILOTS AND NAVIGATORS	34	34	-	-	-	-	-	-	-	8	14	12
COMPUTER PROGRAMMERS	236	224	12	7	-	5	-	-	5	20	161	45
SALES OCCUPATIONS	8 621	7 420	59	5	12	42	1 106	36	412	932	3 062	4 117
SUPERVISORS AND PROPRIETORS, SALES OCCUPATIONS	2 030	1 586	16	-	-	16	423	5	16	73	550	1 363
SELF-EMPLOYED	428	-	-	-	-	-	423	5	3	8	94	323
SALES REPRESENTATIVES, FINANCE AND BUSINESS SERVICES	1 724	1 383	24	-	5	19	310	7	68	166	658	824
SALES REPRESENTATIVES, COMMODITIES, EXCEPT RETAIL	1 374	1 255	-	-	-	-	108	11	24	60	700	583
SALES WORKERS, RETAIL AND PERSONAL SERVICES	3 455	3 158	19	5	7	7	265	13	304	625	1 149	1 322
CASHIERS	655	638	7	-	-	7	8	2	43	201	289	122
SALES RELATED OCCUPATIONS	38	38	-	-	-	-	-	-	-	8	5	25

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

FLINT, MI SMSA	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY	1 TO 14	15 TO 34	35 TO 40	41+
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	HOURS	HOURS	HOURS	HOURS
TOTAL												
ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL	6 214	4 926	1 216	665	207	344	69	3	166	447	3 838	1 597
SUPERVISORS, ADMINISTRATIVE SUPPORT OCCUPATIONS	990	793	197	66	62	69	-	-	-	38	636	313
COMPUTER EQUIPMENT OPERATORS	127	121	6	-	6	-	-	-	-	13	92	20
SECRETARIES, STENOGRAPHERS, AND TYPISTS	68	44	21	-	6	15	-	3	-	8	51	9
SECRETARIES	31	20	8	-	-	8	-	3	-	8	21	2
RECEPTIONISTS	30	29	1	-	1	-	-	-	-	5	19	5
FILE CLERKS	81	74	7	-	2	5	-	-	-	11	42	22
FINANCIAL RECORDS PROCESSING OCCUPATIONS	328	278	26	2	14	10	24	-	21	27	193	68
BOOKKEEPERS, ACCOUNTING, AND AUDITING CLERKS	217	174	19	2	7	10	24	-	21	22	114	41
TELEPHONE OPERATORS	22	22	-	-	-	-	-	-	-	-	9	13
MAIL AND MESSAGE DISTRIBUTING OCCUPATIONS	597	55	540	531	2	7	2	-	6	37	294	253
TRAFFIC, SHIPPING, STOCK AND INVENTORY CLERKS	1 615	1 542	73	-	21	52	-	-	59	115	916	434
INSURANCE ADJUSTERS, EXAMINERS, AND INVESTIGATORS	85	72	-	-	-	-	13	-	-	-	59	20
BANK TELLERS	51	51	-	-	-	-	-	-	-	-	34	17
DATA-ENTRY KEYERS	32	19	13	8	-	5	-	-	-	-	32	-
OTHER ADMINISTRATIVE SUPPORT OCCUPATIONS	2 188	1 826	332	58	93	181	30	-	80	193	1 461	423
SERVICE OCCUPATIONS	9 917	6 931	2 614	103	364	2 147	364	8	834	2 390	4 369	2 010
PRIVATE HOUSEHOLD OCCUPATIONS	17	17	-	-	-	-	-	-	2	6	4	5
PROTECTIVE SERVICE OCCUPATIONS	2 395	874	1 508	17	144	1 347	13	-	107	180	1 117	902
FIREFIGHTING OCCUPATIONS	321	26	295	8	-	287	-	-	-	-	41	260
POLICE AND DETECTIVES, PUBLIC SERVICE	709	-	709	7	102	600	-	-	10	4	495	177
GUARDS	1 001	794	194	2	7	185	13	-	97	165	330	368
OTHER PROTECTIVE SERVICE OCCUPATIONS	364	54	310	-	35	275	-	-	-	11	251	97
SERVICE OCCUPATIONS, EXCEPT PROTECTIVE AND HOUSEHOLD	7 505	6 040	1 106	86	220	800	351	8	725	2 204	3 248	1 103
FOOD PREPARATION AND SERVICE OCCUPATIONS	2 511	2 431	63	-	14	49	17	-	377	1 305	425	354
WAITERS AND FOOD COUNTER WORKERS	266	266	-	-	-	-	-	-	41	166	25	27
COOKS	1 174	1 122	46	-	7	39	6	-	156	549	247	208
HEALTH SERVICE OCCUPATIONS	396	260	136	6	64	66	-	-	9	54	289	40
NURSING AIDES, ORDERLIES, AND ATTENDANTS	300	195	105	-	64	41	-	-	7	36	213	40
CLEANING AND BUILDING SERVICE OCCUPATIONS EXC. HOUSEHOLD	4 019	3 108	833	80	118	635	70	8	312	716	2 259	568
PERSONAL SERVICE OCCUPATIONS	579	241	74	-	24	50	264	-	27	129	275	141
BARBERS, HAIRDRESSERS AND COSMETOLOGISTS	330	66	-	-	-	-	264	-	-	47	165	118
FARMING, FORESTRY, AND FISHING OCCUPATIONS	1 548	595	150	25	13	112	687	116	113	233	418	725
FARM OPERATORS AND MANAGERS	732	66	2	-	-	2	664	-	38	62	129	472
FARM OCCUPATIONS, EXCEPT MANAGERIAL	384	255	13	7	-	6	-	116	54	112	79	130
RELATED AGRICULTURAL OCCUPATIONS	413	270	126	18	13	95	17	-	21	51	199	123
FORESTRY AND FISHING OCCUPATIONS	19	4	9	-	-	9	6	-	-	8	11	-
PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS	28 264	26 060	778	94	63	621	1 394	32	452	2 029	14 772	9 920
MECHANICS AND REPAIRERS	9 664	9 058	267	59	21	187	333	6	160	600	5 248	3 378
AUTOMOBILE MECHANICS, INCLUDING BODY	2 966	2 744	53	10	3	40	163	6	43	241	1 676	929
AIRCRAFT MECHANICS	28	22	6	6	-	-	-	-	-	8	20	-
HEATING, AIR CONDITIONING, AND REFRIGERATION MECHANICS	244	205	14	-	2	12	25	-	7	35	145	57
OTHER MECHANICS AND REPAIRERS	6 426	6 087	194	43	16	135	145	-	110	316	3 407	2 392
CONSTRUCTION TRADES	7 182	5 980	355	14	26	315	830	17	257	1 010	3 683	1 888
CARPENTERS	1 260	851	45	-	11	34	364	-	61	345	596	181
ELECTRICIANS	1 741	1 679	34	-	1	33	22	6	28	96	870	689
PAINTERS, CONSTRUCTION AND MAINTENANCE	570	436	40	-	-	40	94	-	49	95	326	83
PLUMBERS, PIPEFITTERS, AND STEAMFITTERS	1 264	1 171	61	-	5	56	26	6	21	78	670	428
OTHER CONSTRUCTION TRADES	2 347	1 843	175	14	9	152	324	5	98	396	1 221	507
EXTRACTIVE OCCUPATIONS	27	13	-	-	-	-	14	-	-	3	16	8
PRECISION PRODUCTION OCCUPATIONS	11 391	11 009	156	21	16	119	217	9	35	416	5 825	4 646
SUPERVISORS, PRODUCTION OCCUPATIONS	5 416	5 307	46	7	8	31	63	-	8	82	3 014	2 081
MANUFACTURING	4 797	4 776	-	-	-	-	21	-	8	70	2 740	1 771
PRECISION METALWORKING OCCUPATIONS	4 685	4 647	18	-	-	18	20	-	13	210	2 126	2 131
TOOL AND DIE MAKERS	2 992	2 972	18	-	-	18	2	-	13	125	1 407	1 326
MACHINISTS	902	897	-	-	-	-	5	-	-	55	337	458
SHEET METAL WORKERS	512	500	-	-	-	-	12	-	-	9	268	217
OTHER PRECISION METAL WORKERS	279	278	-	-	-	-	1	-	-	21	114	130
PRECISION TEXTILE, APPAREL, AND FURNISHINGS MACHINE WORKERS	83	28	7	-	1	6	43	5	-	6	47	30
PLANT AND SYSTEM OPERATORS	299	235	64	-	7	57	-	-	2	8	200	83
OTHER PRECISION PRODUCTION OCCUPATIONS	908	792	21	14	-	7	91	4	12	110	438	321

TABLE 22D. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

FLINT, MI SMSA

	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY	1 TO 14	15 TO 34	35 TO 40	41+
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	HOURS	HOURS	HOURS	HOURS
TOTAL												
OPERATORS, FABRICATORS, AND LABORERS	42 166	40 629	1 113	103	88	922	401	23	886	4 102	25 811	9 154
MACHINE OPERATORS, ASSEMBLERS, AND INSPECTORS	27 531	27 041	335	34	37	264	149	6	255	2 199	17 972	5 565
MACHINE OPERATORS AND TENDERS, EXCEPT PRECISION	10 745	10 537	123	9	11	103	79	6	109	764	6 812	2 521
METALWORKING AND PLASTIC WORKING MACHINE OPERATORS	5 106	5 065	36	7	6	23	5	-	35	274	3 373	1 170
PRINTING MACHINE OPERATORS	232	221	9	2	2	5	2	-	10	14	131	66
TEXTILE, APPAREL, AND FURNISHINGS MACHINE OPERATORS	131	113	3	-	-	3	15	-	15	18	50	44
TEXTILE MACHINE OPERATORS	7	7	-	-	-	-	-	-	-	-	5	2
TEXTILE SEWING MACHINE OPERATORS	9	9	-	-	-	-	-	-	-	-	9	-
LAUNDERING AND DRYCLEANING MACHINE OPERATORS	99	81	3	-	-	3	15	-	15	18	30	36
OTHER SPECIFIED MACHINE OPERATORS	1 917	1 843	48	-	3	45	20	6	20	173	1 216	438
MISCELLANEOUS AND NOT SPECIFIED MACHINE OPERATORS	3 359	3 295	27	-	-	27	37	-	29	285	2 042	803
OCCUPATION:												
MISCELLANEOUS MACHINE OPERATORS, N.E.C.	665	636	15	-	-	15	14	-	2	70	363	196
MACHINE OPERATORS, NOT SPECIFIED	2 694	2 659	12	-	-	12	23	-	27	215	1 679	607
INDUSTRY:												
MANUFACTURING	3 134	3 111	7	-	-	7	16	-	26	261	1 919	737
NONDURABLE GOODS	163	163	-	-	-	-	-	-	-	10	76	47
FOOD AND KINDRED PRODUCTS	60	60	-	-	-	-	-	-	-	6	21	26
TEXTILE MILL AND FINISHED TEXTILE PRODUCTS	6	6	-	-	-	-	-	-	-	-	6	-
PAPER AND ALLIED PRODUCTS	57	57	-	-	-	-	-	-	-	4	27	8
OTHER NONDURABLE GOODS	40	40	-	-	-	-	-	-	-	-	22	13
DURABLE GOODS, INCLUDING NOT SPECIFIED MFG	2 971	2 948	7	-	-	7	16	-	26	251	1 843	690
METAL INDUSTRIES	266	266	-	-	-	-	-	-	-	13	182	65
MACHINERY, INCLUDING ELECTRICAL	218	203	7	-	-	7	8	-	4	25	129	55
TRANSPORTATION EQUIPMENT	2 384	2 384	-	-	-	-	-	-	22	211	1 466	535
OTHER DURABLE GOODS	103	95	-	-	-	-	8	-	-	2	66	35
NONMANUFACTURING INDUSTRIES	225	184	20	-	-	20	21	-	3	24	123	66
TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES	36	23	13	-	-	13	-	-	-	-	31	2
WHOLESALE AND RETAIL TRADE	86	80	-	-	-	-	6	-	3	8	42	33
ALL OTHER INDUSTRIES	103	81	7	-	-	7	15	-	-	16	50	31
FABRICATORS, ASSEMBLERS, AND HAND WORKING OCCUPATIONS	13 524	13 303	151	17	8	126	70	-	125	1 245	8 947	2 349
WELDERS AND CUTTERS	2 912	2 841	36	4	-	32	35	-	13	202	1 732	871
ASSEMBLERS	10 517	10 372	115	13	8	94	30	-	107	1 033	7 153	1 460
OTHER FABRICATORS AND HAND WORKING OCCUPATIONS	95	90	-	-	-	-	5	-	5	10	62	18
PRODUCTION INSPECTORS, TESTERS, SAMPLERS, AND WEIGHERS	3 262	3 201	61	8	18	35	-	-	21	190	2 213	695
TRANSPORTATION AND MATERIAL MOVING OCCUPATIONS	8 578	7 903	476	44	41	391	199	-	225	646	4 707	2 579
MOTOR VEHICLE OPERATORS	5 202	4 703	317	21	21	275	182	-	197	437	2 544	1 764
TRUCK DRIVERS AND DRIVER-SALES WORKERS	4 624	4 275	167	13	16	138	182	-	112	306	2 361	1 619
BUS DRIVERS	229	84	145	8	-	137	-	-	30	63	52	73
RAIL AND WATER TRANSPORTATION OCCUPATIONS	456	435	21	17	4	-	-	-	-	47	263	134
MATERIAL MOVING EQUIPMENT OPERATORS	2 920	2 765	138	6	16	116	17	-	28	162	1 900	681
EXCAVATING, GRADING, AND DOZER MACHINE OPERATORS	106	60	39	-	12	27	7	-	-	24	62	12
HANDLERS, EQUIPMENT CLEANERS, HELPERS, AND LABORERS	6 057	5 685	302	25	10	267	53	17	406	1 257	3 132	1 010
CONSTRUCTION LABORERS	636	556	80	-	-	80	-	-	28	106	414	64
FREIGHT, STOCK, AND MATERIAL HANDLERS	2 529	2 403	105	18	-	87	6	15	248	637	1 255	300
GARAGE AND SERVICE STATION RELATED OCCUPATIONS	636	611	13	-	-	13	10	2	17	178	263	165
HAND PACKERS AND PACKAGERS	257	257	-	-	-	-	-	-	-	50	149	44
OTHER SPECIFIED HANDLERS, EQUIPMENT CLEANERS, AND HELPERS	631	620	-	-	-	-	11	-	46	152	292	134
LABORERS, EXCEPT CONSTRUCTION	1 368	1 238	104	7	10	87	26	-	67	134	759	303
MANUFACTURING	757	733	24	-	-	24	-	-	16	60	438	156
NONDURABLE GOODS	71	71	-	-	-	-	-	-	4	6	16	28
DURABLE GOODS, INCLUDING NOT SPECIFIED MFG	686	662	24	-	-	24	-	-	12	54	422	128
METAL INDUSTRIES	92	92	-	-	-	-	-	-	12	13	52	-
NONMANUFACTURING INDUSTRIES	611	505	80	7	10	63	26	-	51	74	321	147
TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES	161	139	22	6	-	16	-	-	-	15	116	24
WHOLESALE AND RETAIL TRADE	322	320	-	-	-	-	2	-	18	34	162	99
ALL OTHER INDUSTRIES	128	46	58	1	10	47	24	-	33	25	43	24

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

FLINT, MI SMSA	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY	1 TO 14	15 TO 34	35 TO 40	41+
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	HOURS	HOURS	HOURS	HOURS
TOTAL												
FEMALES 16 YEARS AND OVER	81 263	62 755	15 957	1 272	2 388	12 297	2 145	406	5 935	20 767	42 207	8 495
MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS	15 302	8 098	6 660	172	735	5 753	507	37	1 200	2 899	8 630	2 102
EXECUTIVE, ADMINISTRATIVE, AND MANAGERIAL OCCUPATIONS	4 037	3 071	701	88	162	451	248	17	154	507	2 273	964
OFFICIALS AND ADMINISTRATORS, PUBLIC ADMINISTRATION	175	-	175	8	49	118	-	-	6	31	88	48
ADMINISTRATORS, EDUCATION AND RELATED FIELDS	262	81	181	-	12	169	-	-	30	42	122	58
MANAGERS, MEDICINE AND HEALTH	55	49	6	-	-	6	-	-	-	8	16	15
OTHER SPECIFIED MANAGERS	630	567	24	10	1	13	37	2	36	64	355	147
MANAGERS AND ADMINISTRATORS, N.E.C., SALARIED	1 472	1 333	139	22	19	98	-	-	45	206	803	379
MANUFACTURING	62	62	-	-	-	-	-	-	-	6	41	15
TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES	65	58	7	7	-	-	-	-	-	-	39	26
WHOLESALE AND RETAIL TRADE	573	573	-	-	-	-	-	-	9	58	312	183
ALL OTHER INDUSTRIES	772	640	132	15	19	98	-	-	36	142	411	155
MANAGERS AND ADMINISTRATORS, N.E.C., SELF-EMPLOYED	172	-	-	-	-	-	157	15	-	40	47	81
CONSTRUCTION	-	-	-	-	-	-	-	-	-	-	-	-
MANUFACTURING	4	-	-	-	-	-	2	2	-	-	-	4
WHOLESALE AND RETAIL TRADE	91	-	-	-	-	-	84	7	-	26	21	40
ALL OTHER INDUSTRIES	77	-	-	-	-	-	71	6	-	14	26	37
MANAGEMENT RELATED OCCUPATIONS	1 271	1 041	176	48	81	47	54	-	37	116	842	236
ACCOUNTANTS AND AUDITORS	463	419	22	-	7	15	22	-	-	24	311	110
BUYERS AND PURCHASING AGENTS	110	95	15	-	8	7	-	-	5	14	64	20
PROFESSIONAL SPECIALTY OCCUPATIONS	11 265	5 027	5 959	84	573	5 302	259	20	1 046	2 392	6 357	1 138
ENGINEERS, ARCHITECTS, AND SURVEYORS	165	165	-	-	-	-	-	-	-	10	128	27
ARCHITECTS	-	-	-	-	-	-	-	-	-	-	-	-
ENGINEERS	165	165	-	-	-	-	-	-	-	10	128	27
ELECTRICAL AND ELECTRONIC ENGINEERS	33	33	-	-	-	-	-	-	-	-	18	15
MECHANICAL ENGINEERS	58	58	-	-	-	-	-	-	-	6	47	5
OTHER ENGINEERS	74	74	-	-	-	-	-	-	-	4	63	7
SURVEYORS AND MAPPING SCIENTISTS	-	-	-	-	-	-	-	-	-	-	-	-
MATHEMATICAL AND COMPUTER SCIENTISTS	51	36	15	-	10	5	-	-	-	10	31	10
COMPUTER SYSTEMS ANALYSTS AND SCIENTISTS	30	20	10	-	10	-	-	-	-	10	20	-
NATURAL SCIENTISTS	28	28	-	-	-	-	-	-	-	6	16	6
HEALTH DIAGNOSING OCCUPATIONS	142	97	13	-	-	13	32	-	-	15	59	68
PHYSICIANS	127	88	13	-	-	13	26	-	-	4	55	68
DENTISTS	5	5	-	-	-	-	-	-	-	5	-	-
OTHER HEALTH DIAGNOSING PRACTITIONERS	10	4	-	-	-	-	6	-	-	6	4	-
HEALTH ASSESSMENT AND TREATING OCCUPATIONS	3 306	2 666	632	-	33	599	6	2	122	914	1 808	318
REGISTERED NURSES	2 767	2 247	518	-	19	499	-	2	111	787	1 479	255
PHARMACISTS	134	122	12	-	-	12	-	-	-	35	78	21
THERAPISTS	239	153	86	-	14	72	-	-	11	53	140	26
TEACHERS, LIBRARIANS, AND COUNSELORS	6 056	1 158	4 777	42	256	4 479	121	-	767	1 105	3 565	479
TEACHERS, POSTSECONDARY	303	71	232	-	123	109	-	-	77	61	122	31
TEACHERS, ELEMENTARY AND PRE-KINDERGARTEN	3 853	620	3 233	36	81	3 116	-	-	349	721	2 392	314
TEACHERS, SECONDARY	999	114	885	-	32	853	-	-	131	116	648	90
SOCIAL SCIENTISTS AND URBAN PLANNERS	86	50	30	4	-	26	6	-	9	6	49	22
SOCIAL AND RECREATION WORKERS	551	141	403	7	264	132	7	-	19	59	382	74
RELIGIOUS WORKERS	96	90	-	-	-	-	6	-	8	41	8	39
LAWYERS AND JUDGES	82	39	26	14	-	12	17	-	7	7	45	16
WRITERS, ARTISTS, ENTERTAINERS, AND ATHLETES	702	557	63	17	10	36	64	18	114	219	266	79
TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS	33 976	27 364	5 571	928	1 161	3 482	756	285	2 355	8 955	18 007	3 319
TECHNICIANS AND RELATED SUPPORT OCCUPATIONS	2 696	2 115	567	26	76	465	14	-	89	651	1 527	307
HEALTH TECHNOLOGISTS AND TECHNICIANS	2 229	1 821	394	21	54	319	14	-	59	590	1 226	241
LICENSED PRACTICAL NURSES	1 264	974	279	21	39	219	11	-	32	354	665	123
ENGINEERING AND SCIENCE TECHNICIANS	138	110	28	-	9	19	-	-	16	13	91	15
ELECTRICAL AND ELECTRONIC TECHNICIANS	14	14	-	-	-	-	-	-	-	-	14	-
DRAFTING AND SURVEYING TECHNICIANS	45	33	12	-	-	12	-	-	9	9	26	-
TECHNICIANS, EXCEPT HEALTH, ENGINEERING, AND SCIENCE	329	184	145	5	13	127	-	-	14	48	210	51
AIRPLANE PILOTS AND NAVIGATORS	-	-	-	-	-	-	-	-	-	-	-	-
COMPUTER PROGRAMMERS	127	111	16	5	-	11	-	-	-	7	83	31
SALES OCCUPATIONS	9 797	8 935	181	25	48	108	569	112	1 196	3 683	3 382	1 094
SUPERVISORS AND PROPRIETORS, SALES OCCUPATIONS	863	608	7	-	7	-	183	65	13	119	373	297
SELF-EMPLOYED	248	-	-	-	-	-	183	65	7	51	86	84
SALES REPRESENTATIVES, FINANCE AND BUSINESS SERVICES	831	726	14	14	-	-	91	-	54	233	330	177
SALES REPRESENTATIVES, COMMODITIES, EXCEPT RETAIL	143	125	-	-	-	-	18	-	29	18	64	26
SALES WORKERS, RETAIL AND PERSONAL SERVICES	7 932	7 448	160	11	41	108	277	47	1 092	3 306	2 609	587
CASHIERS	3 382	3 226	98	6	19	73	38	20	301	1 479	1 209	246
SALES RELATED OCCUPATIONS	28	28	-	-	-	-	-	-	8	7	6	7

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

FLINT, MI SMSA

	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY	1 TO 14	15 TO 34	35 TO 40	41+
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	HOURS	HOURS	HOURS	HOURS
TOTAL												
ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL	21 483	16 314	4 823	877	1 037	2 909	173	173	1 070	4 621	13 098	1 918
SUPERVISORS, ADMINISTRATIVE SUPPORT OCCUPATIONS	807	589	212	38	90	84	6	-	15	90	532	123
COMPUTER EQUIPMENT OPERATORS	460	401	59	-	2	57	-	-	15	30	337	59
SECRETARIES, STENOGRAPHERS, AND TYPISTS	7 552	5 592	1 852	92	405	1 355	36	72	370	1 588	4 713	597
SECRETARIES	6 364	4 844	1 417	53	235	1 129	31	72	330	1 292	4 007	523
RECEPTIONISTS	986	889	74	10	12	52	-	23	86	266	552	42
FILE CLERKS	354	242	112	29	25	58	-	-	42	150	146	5
FINANCIAL RECORDS PROCESSING OCCUPATIONS	3 045	2 576	339	33	83	223	78	52	156	627	1 839	355
BOOKKEEPERS, ACCOUNTING, AND AUDITING CLERKS	2 384	2 038	230	21	72	137	64	52	121	544	1 403	275
TELEPHONE OPERATORS	373	301	72	18	16	38	-	-	12	93	209	45
MAIL AND MESSAGE DISTRIBUTING OCCUPATIONS	606	86	507	483	17	7	13	-	29	136	315	110
TRAFFIC, SHIPPING, STOCK AND INVENTORY CLERKS	536	504	25	-	9	16	7	-	30	54	394	33
INSURANCE ADJUSTERS, EXAMINERS, AND INVESTIGATORS	57	57	-	-	-	-	-	-	-	-	50	7
BANK TELLERS	1 102	1 055	47	34	11	2	-	-	32	269	656	111
DATA-ENTRY KEYERS	427	368	59	-	40	19	-	-	12	74	295	33
OTHER ADMINISTRATIVE SUPPORT OCCUPATIONS	5 178	3 654	1 465	140	327	998	33	26	271	1 244	3 060	398
SERVICE OCCUPATIONS	16 176	12 765	2 680	116	372	2 192	701	30	1 887	6 352	5 927	1 279
PRIVATE HOUSEHOLD OCCUPATIONS	908	908	-	-	-	-	-	-	278	297	192	80
PROTECTIVE SERVICE OCCUPATIONS	405	209	196	7	4	185	-	-	16	107	183	77
FIREFIGHTING OCCUPATIONS	-	-	-	-	-	-	-	-	-	-	-	-
POLICE AND DETECTIVES, PUBLIC SERVICE	91	-	91	-	-	91	-	-	-	-	70	6
GUARDS	272	209	63	7	4	52	-	-	16	95	83	71
OTHER PROTECTIVE SERVICE OCCUPATIONS	42	-	42	-	-	42	-	-	-	12	30	-
SERVICE OCCUPATIONS, EXCEPT PROTECTIVE AND HOUSEHOLD	14 863	11 648	2 484	109	368	2 007	701	30	1 593	5 948	5 552	1 122
FOOD PREPARATION AND SERVICE OCCUPATIONS	6 587	5 821	704	37	83	584	62	-	792	3 265	1 768	484
WAITERS AND FOOD COUNTER WORKERS	3 591	3 543	38	-	5	33	10	-	448	1 989	806	221
COOKS	1 389	1 029	331	25	44	262	29	-	89	590	515	106
HEALTH SERVICE OCCUPATIONS	3 756	3 108	602	23	157	422	30	16	113	1 112	2 070	250
NURSING AIDES, ORDERLIES, AND ATTENDANTS	2 405	1 870	496	23	143	330	30	9	63	673	1 356	150
CLEANING AND BUILDING SERVICE OCCUPATIONS EXC. HOUSEHOLD	2 035	1 541	461	18	62	381	33	-	230	579	1 002	139
PERSONAL SERVICE OCCUPATIONS	2 485	1 178	717	31	66	620	576	14	458	992	712	249
BARBERS, HAIRDRESSERS AND COSMETOLOGISTS	1 029	647	2	-	-	2	366	14	75	468	324	124
FARMING, FORESTRY, AND FISHING OCCUPATIONS	329	190	40	-	17	23	63	36	40	111	123	55
FARM OPERATORS AND MANAGERS	73	15	-	-	-	-	58	-	19	23	10	21
FARM OCCUPATIONS, EXCEPT MANAGERIAL	106	70	-	-	-	-	-	36	5	36	37	28
RELATED AGRICULTURAL OCCUPATIONS	145	100	40	-	17	23	5	-	16	52	71	6
FORESTRY AND FISHING OCCUPATIONS	5	5	-	-	-	-	-	-	-	-	5	-
PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS	1 684	1 564	10	-	6	4	110	-	57	264	877	408
MECHANICS AND REPAIRERS	231	207	-	-	-	-	24	-	-	29	120	63
AUTOMOBILE MECHANICS, INCLUDING BODY	69	58	-	-	-	-	11	-	-	8	27	22
AIRCRAFT MECHANICS	-	-	-	-	-	-	-	-	-	-	-	-
HEATING, AIR CONDITIONING, AND REFRIGERATION MECHANICS	-	-	-	-	-	-	-	-	-	-	-	-
OTHER MECHANICS AND REPAIRERS	162	149	-	-	-	-	13	-	-	21	93	41
CONSTRUCTION TRADES	170	159	-	-	-	-	11	-	1	42	79	37
CARPENTERS	10	10	-	-	-	-	-	-	-	-	10	-
ELECTRICIANS	46	46	-	-	-	-	-	-	-	13	6	27
PAINTERS, CONSTRUCTION AND MAINTENANCE	61	51	-	-	-	-	10	-	-	24	28	-
PLUMBERS, PIPEFITTERS, AND STEAMFITTERS	17	17	-	-	-	-	-	-	-	-	17	-
OTHER CONSTRUCTION TRADES	36	35	-	-	-	-	1	-	1	5	18	10
EXTRACTIVE OCCUPATIONS	10	10	-	-	-	-	-	-	8	-	2	-
PRECISION PRODUCTION OCCUPATIONS	1 273	1 188	10	-	6	4	75	-	48	193	676	308
SUPERVISORS, PRODUCTION OCCUPATIONS	555	541	-	-	-	-	14	-	5	24	334	158
MANUFACTURING	421	414	-	-	-	-	7	-	5	12	241	133
PRECISION METALWORKING OCCUPATIONS	129	124	-	-	-	-	5	-	-	8	66	41
TOOL AND DIE MAKERS	67	67	-	-	-	-	-	-	-	-	24	35
MACHINISTS	26	26	-	-	-	-	-	-	-	-	14	6
SHEET METAL WORKERS	-	-	-	-	-	-	-	-	-	-	-	-
OTHER PRECISION METAL WORKERS	36	31	-	-	-	-	5	-	-	8	28	-
PRECISION TEXTILE, APPAREL, AND FURNISHINGS MACHINE WORKERS	246	198	-	-	-	-	48	-	10	65	138	33
PLANT AND SYSTEM OPERATORS	-	-	-	-	-	-	-	-	-	-	-	-
OTHER PRECISION PRODUCTION OCCUPATIONS	343	325	10	-	6	4	8	-	33	96	138	76

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

FLINT, MI SMSA	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY	1 TO 14	15 TO 34	35 TO 40	41+
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	HOURS	HOURS	HOURS	HOURS
TOTAL												
OPERATORS, FABRICATORS, AND LABORERS	13 796	12 774	996	56	97	843	8	18	396	2 186	8 643	1 332
MACHINE OPERATORS, ASSEMBLERS, AND INSPECTORS	11 234	10 994	216	33	23	160	8	16	221	1 310	7 569	1 087
MACHINE OPERATORS AND TENDERS, EXCEPT PRECISION	3 386	3 262	109	-	23	86	8	7	88	450	2 257	289
METALWORKING AND PLASTIC WORKING MACHINE OPERATORS	883	879	4	-	-	4	-	-	9	76	586	120
PRINTING MACHINE OPERATORS	145	119	26	-	14	12	-	-	6	38	72	20
TEXTILE, APPAREL, AND FURNISHINGS MACHINE OPERATORS	485	426	44	-	9	35	8	7	11	107	304	31
TEXTILE MACHINE OPERATORS	21	21	-	-	-	-	-	-	-	-	16	5
TEXTILE SEWING MACHINE OPERATORS	128	115	7	-	7	-	6	-	5	23	73	9
LAUNDERING AND DRYCLEANING MACHINE OPERATORS	280	241	37	-	2	35	2	-	6	68	184	13
OTHER SPECIFIED MACHINE OPERATORS	497	480	17	-	-	17	-	-	17	76	305	34
MISCELLANEOUS AND NOT SPECIFIED MACHINE OPERATORS	1 376	1 358	18	-	-	18	-	-	45	153	990	84
OCCUPATION:												
MISCELLANEOUS MACHINE OPERATORS, N.E.C.	218	206	12	-	-	12	-	-	18	20	167	7
MACHINE OPERATORS, NOT SPECIFIED	1 158	1 152	6	-	-	6	-	-	27	133	823	77
INDUSTRY:												
MANUFACTURING	1 311	1 311	-	-	-	-	-	-	40	140	962	71
NONDURABLE GOODS	143	143	-	-	-	-	-	-	12	19	107	5
FOOD AND KINDRED PRODUCTS	25	25	-	-	-	-	-	-	-	-	20	5
TEXTILE MILL AND FINISHED TEXTILE PRODUCTS	5	5	-	-	-	-	-	-	-	-	5	-
PAPER AND ALLIED PRODUCTS	34	34	-	-	-	-	-	-	-	-	34	-
OTHER NONDURABLE GOODS	79	79	-	-	-	-	-	-	12	19	48	-
DURABLE GOODS, INCLUDING NOT SPECIFIED MFG	1 168	1 168	-	-	-	-	-	-	28	121	855	66
METAL INDUSTRIES	116	116	-	-	-	-	-	-	4	6	72	7
MACHINERY, INCLUDING ELECTRICAL	158	158	-	-	-	-	-	-	-	11	142	-
TRANSPORTATION EQUIPMENT	840	840	-	-	-	-	-	-	24	95	603	59
OTHER DURABLE GOODS	54	54	-	-	-	-	-	-	-	9	38	-
NONMANUFACTURING INDUSTRIES	65	47	18	-	-	18	-	-	5	13	28	13
TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES	-	-	-	-	-	-	-	-	-	-	-	-
WHOLESALE AND RETAIL TRADE	25	25	-	-	-	-	-	-	5	-	12	8
ALL OTHER INDUSTRIES	40	22	18	-	-	18	-	-	-	13	16	5
FABRICATORS, ASSEMBLERS, AND HAND WORKING OCCUPATIONS	6 263	6 180	81	25	-	56	-	2	103	712	4 183	616
WELDERS AND CUTTERS	339	320	19	-	-	19	-	-	-	29	231	41
ASSEMBLERS	5 879	5 817	62	25	-	37	-	-	103	671	3 925	575
OTHER FABRICATORS AND HAND WORKING OCCUPATIONS	45	43	-	-	-	-	-	2	-	12	27	-
PRODUCTION INSPECTORS, TESTERS, SAMPLERS, AND WEIGHERS	1 585	1 552	26	8	-	18	-	7	30	148	1 129	182
TRANSPORTATION AND MATERIAL MOVING OCCUPATIONS	1 200	455	745	5	74	666	-	-	81	534	378	103
MOTOR VEHICLE OPERATORS	1 087	347	740	5	74	661	-	-	73	529	301	90
TRUCK DRIVERS AND DRIVER-SALES WORKERS	185	172	13	-	13	-	-	-	2	25	94	28
BUS DRIVERS	865	140	725	5	59	661	-	-	71	491	192	55
RAIL AND WATER TRANSPORTATION OCCUPATIONS	-	-	-	-	-	-	-	-	-	-	-	-
MATERIAL MOVING EQUIPMENT OPERATORS	113	108	5	-	-	5	-	-	8	5	77	13
EXCAVATING, GRADING, AND DOZER MACHINE OPERATORS	5	-	5	-	-	5	-	-	-	-	5	-
HANDLERS, EQUIPMENT CLEANERS, HELPERS, AND LABORERS	1 362	1 325	35	18	-	17	-	2	94	342	696	142
CONSTRUCTION LABORERS	8	4	4	-	-	4	-	-	-	-	4	4
FREIGHT, STOCK, AND MATERIAL HANDLERS	480	471	9	9	-	-	-	-	46	148	209	55
GARAGE AND SERVICE STATION RELATED OCCUPATIONS	74	72	-	-	-	-	-	2	2	32	27	13
HAND PACKERS AND PACKAGERS	467	459	8	-	-	8	-	-	31	86	263	42
OTHER SPECIFIED HANDLERS, EQUIPMENT CLEANERS, AND HELPERS	103	103	-	-	-	-	-	-	-	32	47	15
LABORERS, EXCEPT CONSTRUCTION	230	216	14	9	-	5	-	-	15	44	146	13
MANUFACTURING	116	111	5	-	-	5	-	-	-	19	79	6
NONDURABLE GOODS	17	17	-	-	-	-	-	-	-	5	6	6
DURABLE GOODS, INCLUDING NOT SPECIFIED MFG	99	94	5	-	-	5	-	-	-	14	73	-
METAL INDUSTRIES	7	7	-	-	-	-	-	-	-	-	7	-
NONMANUFACTURING INDUSTRIES	114	105	9	9	-	-	-	-	15	25	67	7
TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES	26	17	9	9	-	-	-	-	2	-	24	-
WHOLESALE AND RETAIL TRADE	68	68	-	-	-	-	-	-	11	16	34	7
ALL OTHER INDUSTRIES	20	20	-	-	-	-	-	-	2	9	9	-

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

FLINT, MI SMSA	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY	1 TO 14	15 TO 34	35 TO 40	41+
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	HOURS	HOURS	HOURS	HOURS
WHITE												
MALES 16 YEARS AND OVER	104 273	89 311	9 415	1 111	1 406	6 898	5 305	242	2 813	10 006	53 680	34 218
MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS	18 108	12 328	4 337	177	672	3 488	1 419	24	302	1 106	8 361	7 956
EXECUTIVE, ADMINISTRATIVE, AND MANAGERIAL OCCUPATIONS	8 823	6 860	1 288	127	224	937	651	24	67	324	3 779	4 459
OFFICIALS AND ADMINISTRATORS, PUBLIC ADMINISTRATION	233	-	233	22	51	160	-	-	7	9	143	70
MANAGEMENT RELATED OCCUPATIONS	2 081	1 573	387	51	87	249	114	7	23	90	1 233	689
PROFESSIONAL SPECIALTY OCCUPATIONS	9 285	5 468	3 049	50	448	2 551	768	-	235	782	4 582	3 497
ENGINEERS AND NATURAL SCIENTISTS	2 840	2 647	162	27	50	85	31	-	6	72	1 708	978
ENGINEERS	2 300	2 217	78	2	22	54	5	-	-	59	1 341	837
HEALTH DIAGNOSING OCCUPATIONS	868	602	14	-	-	14	252	-	8	124	279	445
HEALTH ASSESSMENT AND TREATING OCCUPATIONS	366	284	65	-	13	52	17	-	12	8	189	157
TEACHERS, LIBRARIANS, AND COUNSELORS	2 872	498	2 356	-	191	2 165	18	-	90	348	1 522	851
TEACHERS, ELEMENTARY AND SECONDARY SCHOOLS	2 235	239	1 996	-	37	1 959	-	-	41	237	1 268	650
TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS	15 639	13 142	1 298	669	250	379	1 160	39	564	1 354	7 364	6 049
HEALTH TECHNOLOGISTS AND TECHNICIANS	275	201	74	-	13	61	-	-	9	22	186	52
TECHNOLOGISTS AND TECHNICIANS, EXCEPT HEALTH	1 623	1 473	132	50	53	29	18	-	35	136	919	489
SALES OCCUPATIONS	8 136	6 974	53	5	12	36	1 073	36	374	864	2 813	3 987
SUPERVISORS AND PROPRIETORS, SALES OCCUPATIONS	1 913	1 494	10	-	-	10	404	5	16	56	483	1 330
SALES REPRESENTATIVES, COMMODITIES AND FINANCE	2 969	2 523	24	-	5	19	404	18	85	216	1 280	1 373
OTHER SALES OCCUPATIONS	3 254	2 957	19	5	7	7	265	13	273	592	1 050	1 284
CASHIERS	539	522	7	-	-	7	8	2	43	160	241	95
ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL	5 605	4 494	1 039	614	172	253	69	3	146	332	3 446	1 521
COMPUTER EQUIPMENT OPERATORS	121	115	6	-	6	-	-	-	-	13	92	14
SECRETARIES, STENOGRAPHERS, AND TYPISTS	68	44	21	-	6	15	-	3	-	8	51	9
FINANCIAL RECORDS PROCESSING OCCUPATIONS	274	230	20	2	14	4	24	-	21	17	155	62
MAIL AND MESSAGE DISTRIBUTING OCCUPATIONS	550	41	507	498	2	7	2	-	6	33	269	235
SERVICE OCCUPATIONS	8 341	5 829	2 169	69	336	1 764	335	8	701	2 094	3 444	1 857
PRIVATE HOUSEHOLD OCCUPATIONS	17	17	-	-	-	-	-	-	2	6	4	5
PROTECTIVE SERVICE OCCUPATIONS	2 071	735	1 323	9	144	1 170	13	-	97	154	907	844
POLICE AND FIREFIGHTERS	918	12	906	7	102	797	-	-	-	4	482	403
SERVICE OCCUPATIONS, EXCEPT PROTECTIVE AND HOUSEHOLD	6 253	5 077	846	60	192	594	322	8	602	1 934	2 533	1 008
FOOD SERVICE OCCUPATIONS	2 203	2 156	30	-	7	23	17	-	311	1 176	356	337
CLEANING AND BUILDING SERVICE OCCUPATIONS, EXCEPT HOUSEHOLD	3 319	2 558	688	60	111	517	65	8	270	598	1 815	490
FARMING, FORESTRY, AND FISHING OCCUPATIONS	1 473	542	129	25	13	91	686	116	110	227	387	697
FARM OPERATORS AND MANAGERS	731	66	2	-	-	2	663	-	38	62	129	471
FARM WORKERS AND RELATED OCCUPATIONS	723	472	118	25	13	80	17	116	72	157	247	226
PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS	25 965	23 961	649	94	47	508	1 323	32	376	1 832	13 429	9 315
MECHANICS AND REPAIRERS	8 838	8 294	222	59	12	151	316	6	143	520	4 768	3 157
CONSTRUCTION TRADES	6 712	5 614	300	14	25	261	781	17	213	938	3 453	1 801
PRECISION PRODUCTION OCCUPATIONS	10 388	10 040	127	21	10	96	212	9	20	371	5 192	4 349
OPERATORS, FABRICATORS, AND LABORERS	34 747	33 509	833	77	88	668	382	23	760	3 393	20 695	8 344
MACHINE OPERATORS AND TENDERS, EXCEPT PRECISION	8 776	8 596	95	9	11	75	79	6	92	562	5 396	2 307
FABRICATORS, ASSEMBLERS, INSPECTORS, AND SAMPLERS	13 318	13 125	123	7	26	90	70	-	120	1 101	8 772	2 710
TRANSPORTATION OCCUPATIONS	4 856	4 442	251	30	25	196	163	-	166	430	2 271	1 781
MOTOR VEHICLE OPERATORS	4 412	4 019	230	13	21	196	163	-	166	389	2 014	1 647
MATERIAL MOVING EQUIPMENT OPERATORS	2 523	2 376	130	6	16	108	17	-	28	139	1 599	621
HANDLERS, EQUIPMENT CLEANERS, HELPERS, AND LABORERS	5 274	4 970	234	25	10	199	53	17	354	1 161	2 657	925
CONSTRUCTION LABORERS	547	489	58	-	-	58	-	-	28	100	346	49
FREIGHT, STOCK, AND MATERIAL HANDLERS	2 214	2 095	98	18	-	80	6	15	222	598	1 052	283

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

FLINT, MI SMSA	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY	1 TO 14	15 TO 34	35 TO 40	41+
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	HOURS	HOURS	HOURS	HOURS
WHITE												
FEMALES 16 YEARS AND OVER	68 932	53 567	12 946	830	2 007	10 109	2 029	390	5 333	18 221	35 004	7 349
MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS	13 514	7 417	5 590	94	602	4 894	477	30	1 117	2 665	7 447	1 889
EXECUTIVE, ADMINISTRATIVE, AND MANAGERIAL OCCUPATIONS	3 586	2 815	530	39	140	351	231	10	128	467	2 004	888
OFFICIALS AND ADMINISTRATORS, PUBLIC ADMINISTRATION	160	-	160	1	49	110	-	-	6	23	88	41
MANAGEMENT RELATED OCCUPATIONS	1 078	915	116	13	67	36	47	-	29	104	701	210
PROFESSIONAL SPECIALTY OCCUPATIONS	9 928	4 602	5 060	55	462	4 543	246	20	989	2 198	5 443	1 001
ENGINEERS AND NATURAL SCIENTISTS	201	186	15	-	10	5	-	-	-	26	141	34
ENGINEERS	128	128	-	-	-	-	-	-	-	10	100	18
HEALTH DIAGNOSING OCCUPATIONS	100	81	-	-	-	-	19	-	-	15	32	53
HEALTH ASSESSMENT AND TREATING OCCUPATIONS	2 966	2 463	495	-	24	471	6	2	110	881	1 587	259
TEACHERS, LIBRARIANS, AND COUNSELORS	5 336	1 063	4 152	30	206	3 916	121	-	727	974	3 071	437
TEACHERS, ELEMENTARY AND SECONDARY SCHOOLS	4 292	666	3 626	30	99	3 497	-	-	454	723	2 650	380
TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS	30 427	24 887	4 513	643	992	2 878	751	276	2 133	7 990	16 111	3 028
HEALTH TECHNOLOGISTS AND TECHNICIANS	1 914	1 607	293	21	38	234	14	-	59	547	1 039	179
TECHNOLOGISTS AND TECHNICIANS, EXCEPT HEALTH	409	283	126	5	15	106	-	-	23	57	259	61
SALES OCCUPATIONS	8 922	8 115	131	19	31	81	564	112	1 054	3 311	3 145	1 030
SUPERVISORS AND PROPRIETORS, SALES OCCUPATIONS	818	570	-	-	-	-	183	65	13	119	347	284
SALES REPRESENTATIVES, COMMODITIES AND FINANCE	942	819	14	14	-	-	109	-	78	246	384	198
OTHER SALES OCCUPATIONS	7 162	6 726	117	5	31	81	272	47	963	2 946	2 414	548
CASHIERS	2 929	2 787	84	-	11	73	38	20	253	1 246	1 091	220
ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL	19 182	14 882	3 963	598	908	2 457	173	164	997	4 075	11 668	1 758
COMPUTER EQUIPMENT OPERATORS	367	322	45	-	2	43	-	-	15	26	281	45
SECRETARIES, STENOGRAPHERS, AND TYPISTS	6 957	5 188	1 665	62	390	1 213	36	68	330	1 450	4 341	576
FINANCIAL RECORDS PROCESSING OCCUPATIONS	2 816	2 412	279	9	75	195	78	47	156	594	1 676	328
MAIL AND MESSAGE DISTRIBUTING OCCUPATIONS	449	64	372	355	17	-	13	-	29	94	226	84
SERVICE OCCUPATIONS	13 084	10 527	1 901	61	304	1 536	626	30	1 685	5 506	4 341	1 011
PRIVATE HOUSEHOLD OCCUPATIONS	731	731	-	-	-	-	-	-	231	220	167	72
PROTECTIVE SERVICE OCCUPATIONS	298	161	137	7	4	126	-	-	16	100	121	54
POLICE AND FIREFIGHTERS	39	-	39	-	-	39	-	-	-	-	39	-
SERVICE OCCUPATIONS, EXCEPT PROTECTIVE AND HOUSEHOLD	12 055	9 635	1 764	54	300	1 410	626	30	1 438	5 186	4 053	885
FOOD SERVICE OCCUPATIONS	5 885	5 280	548	25	73	450	57	-	719	3 023	1 488	425
CLEANING AND BUILDING SERVICE OCCUPATIONS, EXCEPT HOUSEHOLD	1 389	1 024	332	8	54	270	33	-	206	417	636	62
FARMING, FORESTRY, AND FISHING OCCUPATIONS	324	185	40	-	17	23	63	36	40	111	118	55
FARM OPERATORS AND MANAGERS	73	15	-	-	-	-	58	-	19	23	10	21
FARM WORKERS AND RELATED OCCUPATIONS	251	170	40	-	17	23	5	36	21	88	108	34
PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS	1 367	1 253	10	-	6	4	104	-	57	216	681	363
MECHANICS AND REPAIRERS	200	182	-	-	-	-	18	-	-	21	108	58
CONSTRUCTION TRADES	121	110	-	-	-	-	11	-	1	37	47	27
PRECISION PRODUCTION OCCUPATIONS	1 036	951	10	-	6	4	75	-	48	158	524	278
OPERATORS, FABRICATORS, AND LABORERS	10 216	9 298	892	32	86	774	8	18	301	1 733	6 306	1 003
MACHINE OPERATORS AND TENDERS, EXCEPT PRECISION	2 586	2 488	83	-	12	71	8	7	71	354	1 730	213
FABRICATORS, ASSEMBLERS, INSPECTORS, AND SAMPLERS	5 313	5 243	61	13	-	48	-	9	63	538	3 666	555
TRANSPORTATION OCCUPATIONS	1 042	325	717	5	74	638	-	-	73	524	276	90
MOTOR VEHICLE OPERATORS	1 042	325	717	5	74	638	-	-	73	524	276	90
MATERIAL MOVING EQUIPMENT OPERATORS	101	96	5	-	-	5	-	-	8	5	65	13
HANDLERS, EQUIPMENT CLEANERS, HELPERS, AND LABORERS	1 174	1 146	26	14	-	12	-	2	86	312	569	132
CONSTRUCTION LABORERS	8	4	4	-	-	4	-	-	-	-	4	4
FREIGHT, STOCK, AND MATERIAL HANDLERS	411	406	5	5	-	-	-	-	38	122	182	55

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

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FLINT, MI SMSA

	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY	1 TO 14	15 TO 34	35 TO 40	41+
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	HOURS	HOURS	HOURS	HOURS
BLACK												
MALES 16 YEARS AND OVER	12 317	10 760	1 392	128	122	1 142	165	-	333	1 405	7 972	1 831
MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS	1 073	623	413	30	54	329	37	-	5	133	604	315
EXECUTIVE, ADMINISTRATIVE, AND MANAGERIAL OCCUPATIONS	515	338	166	14	28	124	11	-	-	45	292	178
OFFICIALS AND ADMINISTRATORS, PUBLIC ADMINISTRATION	20	-	20	-	5	15	-	-	-	-	5	15
MANAGEMENT RELATED OCCUPATIONS	173	105	68	14	11	43	-	-	-	18	111	44
PROFESSIONAL SPECIALTY OCCUPATIONS	558	285	247	16	26	205	26	-	5	88	312	137
ENGINEERS AND NATURAL SCIENTISTS	120	101	19	12	-	7	-	-	-	-	76	28
ENGINEERS	89	89	-	-	-	-	-	-	-	-	57	16
HEALTH DIAGNOSING OCCUPATIONS	55	48	-	-	-	-	7	-	-	9	13	33
HEALTH ASSESSMENT AND TREATING OCCUPATIONS	51	40	11	-	-	11	-	-	-	-	34	17
TEACHERS, LIBRARIANS, AND COUNSELORS	208	15	193	4	13	176	-	-	5	57	134	12
TEACHERS, ELEMENTARY AND SECONDARY SCHOOLS	173	15	158	-	-	158	-	-	5	48	108	12
TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS	1 033	833	174	38	24	112	26	-	36	189	601	201
HEALTH TECHNOLOGISTS AND TECHNICIANS	17	12	-	-	-	-	5	-	-	6	6	5
TECHNOLOGISTS AND TECHNICIANS, EXCEPT HEALTH	58	43	15	-	-	15	-	-	-	-	42	16
SALES OCCUPATIONS	443	416	6	-	-	6	21	-	31	68	229	115
SUPERVISORS AND PROPRIETORS, SALES OCCUPATIONS	105	85	6	-	-	6	14	-	-	17	60	28
SALES REPRESENTATIVES, COMMODITIES AND FINANCE	115	108	-	-	-	-	7	-	-	10	71	34
OTHER SALES OCCUPATIONS	223	223	-	-	-	-	-	-	31	41	98	53
CASHIERS	116	116	-	-	-	-	-	-	-	41	48	27
ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL	515	362	153	38	24	91	-	-	5	115	324	65
COMPUTER EQUIPMENT OPERATORS	6	6	-	-	-	-	-	-	-	-	-	6
SECRETARIES, STENOGRAPHERS, AND TYPISTS	-	-	-	-	-	-	-	-	-	-	-	-
FINANCIAL RECORDS PROCESSING OCCUPATIONS	50	44	6	-	-	6	-	-	-	10	34	6
MAIL AND MESSAGE DISTRIBUTING OCCUPATIONS	34	14	20	20	-	-	-	-	-	4	23	7
SERVICE OCCUPATIONS	1 400	978	393	34	28	331	29	-	125	255	829	122
PRIVATE HOUSEHOLD OCCUPATIONS	-	-	-	-	-	-	-	-	-	-	-	-
PROTECTIVE SERVICE OCCUPATIONS	296	129	167	8	-	159	-	-	10	26	192	48
POLICE AND FIREFIGHTERS	102	14	88	8	-	80	-	-	10	-	54	24
SERVICE OCCUPATIONS, EXCEPT PROTECTIVE AND HOUSEHOLD	1 104	849	226	26	28	172	29	-	115	229	637	74
FOOD SERVICE OCCUPATIONS	228	209	19	-	7	12	-	-	58	110	27	6
CLEANING AND BUILDING SERVICE OCCUPATIONS, EXCEPT HOUSEHOLD	642	512	125	20	7	98	5	-	42	96	418	68
FARMING, FORESTRY, AND FISHING OCCUPATIONS	60	38	21	-	-	21	1	-	3	6	31	20
FARM OPERATORS AND MANAGERS	1	-	-	-	-	-	1	-	-	-	-	1
FARM WORKERS AND RELATED OCCUPATIONS	59	38	21	-	-	21	-	-	3	6	31	19
PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS	2 008	1 826	129	-	16	113	53	-	53	174	1 226	499
MECHANICS AND REPAIRERS	716	660	45	-	9	36	11	-	10	73	448	167
CONSTRUCTION TRADES	381	289	55	-	1	54	37	-	28	63	186	72
PRECISION PRODUCTION OCCUPATIONS	911	877	29	-	6	23	5	-	15	38	592	260
OPERATORS, FABRICATORS, AND LABORERS	6 743	6 462	262	26	-	236	19	-	111	648	4 681	674
MACHINE OPERATORS AND TENDERS, EXCEPT PRECISION	1 804	1 776	28	-	-	28	-	-	12	202	1 291	179
FABRICATORS, ASSEMBLERS, INSPECTORS, AND SAMPLERS	3 171	3 088	83	18	-	65	-	-	26	301	2 189	286
TRANSPORTATION OCCUPATIONS	750	644	87	8	-	79	19	-	31	54	512	94
MOTOR VEHICLE OPERATORS	744	638	87	8	-	79	19	-	31	48	512	94
MATERIAL MOVING EQUIPMENT OPERATORS	342	334	8	-	-	8	-	-	-	23	268	38
HANDLERS, EQUIPMENT CLEANERS, HELPERS, AND LABORERS	676	620	56	-	-	56	-	-	42	68	421	77
CONSTRUCTION LABORERS	84	62	22	-	-	22	-	-	-	6	63	15
FREIGHT, STOCK, AND MATERIAL HANDLERS	269	269	-	-	-	-	-	-	21	23	185	17

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[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

FLINT, MI SMSA	EMPLOYED PERSONS								PERSONS AT WORK			
	TOTAL	PRIV. WAGE AND SALARY WORKERS	GOVERNMENT WORKERS TOTAL	FEDERAL	STATE	LOCAL	SELF-EMPLOYED WORKERS	UNPAID FAMILY WORKERS	1 TO 14 HOURS	15 TO 34 HOURS	35 TO 40 HOURS	41+ HOURS
BLACK												
FEMALES 16 YEARS AND OVER	11 325	8 417	2 817	393	352	2 072	87	4	519	2 250	6 791	1 013
MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS	1 643	619	1 017	78	133	806	7	-	68	214	1 119	167
EXECUTIVE, ADMINISTRATIVE, AND MANAGERIAL OCCUPATIONS	399	235	157	49	22	86	7	-	17	33	256	53
OFFICIALS AND ADMINISTRATORS, PUBLIC ADMINISTRATION	15	-	15	7	-	8	-	-	-	8	-	7
MANAGEMENT RELATED OCCUPATIONS	182	115	60	35	14	11	7	-	8	12	138	18
PROFESSIONAL SPECIALTY OCCUPATIONS	1 244	384	860	29	111	720	-	-	51	181	863	114
ENGINEERS AND NATURAL SCIENTISTS	37	37	-	-	-	-	-	-	-	-	28	9
ENGINEERS	37	37	-	-	-	-	-	-	-	-	28	9
HEALTH DIAGNOSING OCCUPATIONS	14	5	9	-	-	9	-	-	-	-	14	-
HEALTH ASSESSMENT AND TREATING OCCUPATIONS	324	193	131	-	9	122	-	-	12	33	213	51
TEACHERS, LIBRARIANS, AND COUNSELORS	694	94	600	12	50	538	-	-	34	126	479	42
TEACHERS, ELEMENTARY AND SECONDARY SCHOOLS	551	68	483	6	14	463	-	-	20	114	387	24
TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS	3 211	2 217	985	244	148	593	5	4	201	844	1 760	256
HEALTH TECHNOLOGISTS AND TECHNICIANS	277	182	95	-	10	85	-	-	-	27	182	51
TECHNOLOGISTS AND TECHNICIANS, EXCEPT HEALTH	43	11	32	-	-	32	-	-	-	4	34	5
SALES OCCUPATIONS	785	730	50	6	17	27	5	-	128	333	218	59
SUPERVISORS AND PROPRIETORS, SALES OCCUPATIONS	39	32	7	-	7	-	-	-	-	-	26	13
SALES REPRESENTATIVES, COMMODITIES AND FINANCE	32	32	-	-	-	-	-	-	5	5	10	5
OTHER SALES OCCUPATIONS	714	666	43	6	10	27	5	-	123	328	182	41
CASHIERS	420	406	14	6	8	-	-	-	48	205	118	21
ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL	2 106	1 294	808	238	121	449	-	4	73	480	1 326	141
COMPUTER EQUIPMENT OPERATORS	93	79	14	-	-	14	-	-	-	4	56	14
SECRETARIES, STENOGRAPHERS, AND TYPISTS	569	378	187	30	15	142	-	4	40	117	367	21
FINANCIAL RECORDS PROCESSING OCCUPATIONS	173	131	42	14	-	28	-	-	-	33	126	8
MAIL AND MESSAGE DISTRIBUTING OCCUPATIONS	130	14	116	109	-	7	-	-	-	29	75	26
SERVICE OCCUPATIONS	2 770	1 988	713	49	60	604	69	-	157	722	1 479	230
PRIVATE HOUSEHOLD OCCUPATIONS	164	164	-	-	-	-	-	-	39	72	25	8
PROTECTIVE SERVICE OCCUPATIONS	92	40	52	-	-	52	-	-	-	7	47	23
POLICE AND FIREFIGHTERS	45	-	45	-	-	45	-	-	-	-	24	6
SERVICE OCCUPATIONS, EXCEPT PROTECTIVE AND HOUSEHOLD	2 514	1 784	661	49	60	552	69	-	118	643	1 407	199
FOOD SERVICE OCCUPATIONS	553	404	144	6	10	128	5	-	49	160	251	45
CLEANING AND BUILDING SERVICE OCCUPATIONS, EXCEPT HOUSEHOLD	607	498	109	10	8	91	-	-	24	154	342	70
FARMING, FORESTRY, AND FISHING OCCUPATIONS	5	5	-	-	-	-	-	-	-	-	5	-
FARM OPERATORS AND MANAGERS	-	-	-	-	-	-	-	-	-	-	-	-
FARM WORKERS AND RELATED OCCUPATIONS	-	-	-	-	-	-	-	-	-	-	-	-
PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS	291	285	-	-	-	-	6	-	-	34	186	45
MECHANICS AND REPAIRERS	25	19	-	-	-	-	6	-	-	8	6	5
CONSTRUCTION TRADES	47	47	-	-	-	-	-	-	-	5	32	10
PRECISION PRODUCTION OCCUPATIONS	219	219	-	-	-	-	-	-	-	21	148	30
OPERATORS, FABRICATORS, AND LABORERS	3 405	3 303	102	22	11	69	-	-	93	436	2 242	315
MACHINE OPERATORS AND TENDERS, EXCEPT PRECISION	746	720	26	-	11	15	-	-	17	96	484	76
FABRICATORS, ASSEMBLERS, INSPECTORS, AND SAMPLERS	2 422	2 378	44	18	-	26	-	-	68	305	1 594	229
TRANSPORTATION OCCUPATIONS	37	14	23	-	-	23	-	-	-	5	25	-
MOTOR VEHICLE OPERATORS	37	14	23	-	-	23	-	-	-	5	25	-
MATERIAL MOVING EQUIPMENT OPERATORS	12	12	-	-	-	-	-	-	-	-	12	-
HANDLERS, EQUIPMENT CLEANERS, HELPERS, AND LABORERS	188	179	9	4	-	5	-	-	8	30	127	10
CONSTRUCTION LABORERS	-	-	-	-	-	-	-	-	-	-	-	-
FREIGHT, STOCK, AND MATERIAL HANDLERS	69	65	4	4	-	-	-	-	8	26	27	-

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

GRAND RAPIDS, MI SMSA

	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY				
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	1 TO 14 HOURS	15 TO 34 HOURS	35 TO 40 HOURS	41+ HOURS
TOTAL												
MALES 16 YEARS AND OVER	158 062	131 399	14 527	2 313	2 312	9 902	11 852	284	6 007	16 072	70 631	61 299
MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS	35 490	25 225	6 869	506	1 366	4 997	3 373	23	636	1 681	15 306	17 264
EXECUTIVE, ADMINISTRATIVE, AND MANAGERIAL OCCUPATIONS	19 324	15 725	2 135	301	498	1 336	1 452	12	194	593	7 571	10 614
OFFICIALS AND ADMINISTRATORS, PUBLIC ADMINISTRATION	469	-	469	63	81	325	-	-	2	8	299	160
ADMINISTRATORS, EDUCATION AND RELATED FIELDS	799	305	494	2	75	417	-	-	15	42	333	409
MANAGERS, MEDICINE AND HEALTH	120	103	10	-	-	10	7	-	-	5	54	54
OTHER SPECIFIED MANAGERS	4 067	3 836	81	25	18	38	150	-	4	107	1 628	2 232
MANAGERS AND ADMINISTRATORS, N.E.C., SALARIED	8 621	8 217	404	31	92	281	-	-	73	231	2 961	5 207
MANUFACTURING	3 350	3 345	5	-	5	-	-	-	44	74	1 269	1 916
TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES	626	594	32	11	-	21	-	-	-	15	225	382
WHOLESALE AND RETAIL TRADE	2 423	2 418	5	-	-	5	-	-	7	54	611	1 715
ALL OTHER INDUSTRIES	2 222	1 860	362	20	87	255	-	-	22	88	856	1 194
MANAGERS AND ADMINISTRATORS, N.E.C., SELF-EMPLOYED	967	-	-	-	-	-	955	12	22	88	245	604
CONSTRUCTION	142	-	-	-	-	-	142	-	-	32	51	57
MANUFACTURING	219	-	-	-	-	-	211	8	17	7	43	152
WHOLESALE AND RETAIL TRADE	256	-	-	-	-	-	252	4	-	11	48	197
ALL OTHER INDUSTRIES	350	-	-	-	-	-	350	-	5	38	103	198
MANAGEMENT RELATED OCCUPATIONS	4 281	3 264	677	180	232	265	340	-	78	112	2 051	1 948
ACCOUNTANTS AND AUDITORS	1 742	1 310	226	71	85	70	206	-	19	50	707	942
BUYERS AND PURCHASING AGENTS	941	893	15	6	-	9	33	-	7	17	440	465
PROFESSIONAL SPECIALTY OCCUPATIONS	16 166	9 500	4 734	205	868	3 661	1 921	11	442	1 088	7 735	6 650
ENGINEERS, ARCHITECTS, AND SURVEYORS	3 526	3 165	234	38	75	121	127	-	31	72	2 099	1 298
ARCHITECTS	243	187	11	5	-	6	45	-	8	6	134	95
ENGINEERS	3 256	2 957	223	33	75	115	76	-	23	66	1 953	1 188
ELECTRICAL AND ELECTRONIC ENGINEERS	497	459	32	-	-	32	6	-	-	12	296	189
MECHANICAL ENGINEERS	716	678	13	-	1	12	25	-	14	7	399	294
OTHER ENGINEERS	2 043	1 820	178	33	74	71	45	-	9	47	1 258	705
SURVEYORS AND MAPPING SCIENTISTS	27	21	-	-	-	-	6	-	-	-	12	15
MATHEMATICAL AND COMPUTER SCIENTISTS	347	277	52	17	19	16	18	-	-	6	223	112
COMPUTER SYSTEMS ANALYSTS AND SCIENTISTS	251	213	28	5	7	16	10	-	-	4	158	89
NATURAL SCIENTISTS	330	226	92	12	44	36	12	-	7	11	197	110
HEALTH DIAGNOSING OCCUPATIONS	1 474	804	55	12	18	25	615	-	14	103	455	844
PHYSICIANS	957	657	51	12	14	25	249	-	7	29	165	710
DENTISTS	292	54	4	-	4	-	234	-	-	30	184	66
OTHER HEALTH DIAGNOSING PRACTITIONERS	225	93	-	-	-	-	132	-	7	44	106	68
HEALTH ASSESSMENT AND TREATING OCCUPATIONS	549	428	84	17	14	53	32	5	12	55	251	229
REGISTERED NURSES	81	70	11	-	7	4	-	-	-	6	66	9
PHARMACISTS	289	248	6	-	-	6	30	5	7	24	104	152
THERAPISTS	110	55	55	17	7	31	-	-	5	25	44	36
TEACHERS, LIBRARIANS, AND COUNSELORS	4 920	1 405	3 483	32	415	3 036	32	-	175	373	2 558	1 735
TEACHERS, POSTSECONDARY	744	371	373	8	268	97	-	-	65	82	225	365
TEACHERS, ELEMENTARY AND PRE-KINDERGARTEN	2 323	493	1 830	24	68	1 738	-	-	18	140	1 386	743
TEACHERS, SECONDARY	1 238	236	1 002	-	24	978	-	-	31	38	678	473
SOCIAL SCIENTISTS AND URBAN PLANNERS	298	166	116	-	10	106	16	-	-	-	169	122
SOCIAL AND RECREATION WORKERS	580	210	351	11	178	162	19	-	14	44	359	155
RELIGIOUS WORKERS	1 120	887	19	-	13	6	214	-	51	86	198	768
LAWYERS AND JUDGES	999	433	152	56	42	54	414	-	15	52	318	585
WRITERS, ARTISTS, ENTERTAINERS, AND ATHLETES	2 023	1 499	96	10	40	46	422	6	123	286	908	692
TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS	29 181	24 601	2 170	1 296	303	571	2 344	66	1 012	2 913	12 803	11 860
TECHNICIANS AND RELATED SUPPORT OCCUPATIONS	3 047	2 686	325	81	85	159	36	-	85	276	1 719	902
HEALTH TECHNOLOGISTS AND TECHNICIANS	263	235	21	-	5	16	7	-	15	42	145	51
LICENSED PRACTICAL NURSES	7	7	-	-	-	-	-	-	-	-	7	-
ENGINEERING AND SCIENCE TECHNICIANS	2 055	1 906	136	32	29	75	13	-	61	152	1 159	647
ELECTRICAL AND ELECTRONIC TECHNICIANS	402	384	18	18	-	-	-	-	8	-	224	163
DRAFTING AND SURVEYING TECHNICIANS	946	865	68	8	7	53	13	-	22	115	530	268
TECHNICIANS, EXCEPT HEALTH, ENGINEERING, AND SCIENCE	729	545	168	49	51	68	16	-	9	82	415	204
AIRPLANE PILOTS AND NAVIGATORS	58	58	-	-	-	-	-	-	-	2	26	30
COMPUTER PROGRAMMERS	358	326	27	-	8	19	5	-	9	49	206	87
SALES OCCUPATIONS	15 922	13 648	51	-	31	20	2 191	32	606	1 624	5 758	7 656
SUPERVISORS AND PROPRIETORS, SALES OCCUPATIONS	2 616	2 037	18	-	18	-	556	5	5	121	744	1 689
SELF-EMPLOYED	561	-	-	-	-	-	556	5	-	69	111	368
SALES REPRESENTATIVES, FINANCE AND BUSINESS SERVICES	3 627	2 840	12	-	6	6	773	2	92	240	1 542	1 669
SALES REPRESENTATIVES, COMMODITIES, EXCEPT RETAIL	4 425	3 997	-	-	-	-	428	-	74	182	2 007	2 116
SALES WORKERS, RETAIL AND PERSONAL SERVICES	5 227	4 755	21	-	7	14	426	25	433	1 071	1 461	2 171
CASHIERS	705	674	14	-	-	14	17	-	112	249	207	124
SALES RELATED OCCUPATIONS	27	19	-	-	-	-	8	-	2	10	4	11

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

GRAND RAPIDS, MI SMSA

	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY	1 TO 14	15 TO 34	35 TO 40	41+
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	HOURS	HOURS	HOURS	HOURS
TOTAL												
ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL	10 212	8 267	1 794	1 215	187	392	117	34	321	1 013	5 326	3 302
SUPERVISORS, ADMINISTRATIVE SUPPORT OCCUPATIONS	1 538	1 192	341	198	63	80	5	-	-	33	805	677
COMPUTER EQUIPMENT OPERATORS	358	337	21	-	10	11	-	-	11	45	219	77
SECRETARIES, STENOGRAPHERS, AND TYPISTS	93	70	23	5	5	13	-	-	7	27	30	29
SECRETARIES	66	59	7	-	-	7	-	-	7	17	30	12
RECEPTIONISTS	26	16	10	-	10	-	-	-	-	19	7	-
FILE CLERKS	146	114	25	5	5	15	7	-	12	10	91	20
FINANCIAL RECORDS PROCESSING OCCUPATIONS	762	656	45	11	7	27	29	32	19	98	339	300
BOOKKEEPERS, ACCOUNTING, AND AUDITING CLERKS	509	442	12	5	-	7	23	32	17	68	192	226
TELEPHONE OPERATORS	33	33	-	-	-	-	-	-	6	-	22	5
MAIL AND MESSAGE DISTRIBUTING OCCUPATIONS	1 158	227	920	883	16	21	11	-	27	89	671	349
TRAFFIC, SHIPPING, STOCK AND INVENTORY CLERKS	2 661	2 602	46	-	14	32	13	-	31	318	1 401	822
INSURANCE ADJUSTERS, EXAMINERS, AND INVESTIGATORS	222	222	-	-	-	-	-	-	6	5	169	42
BANK TELLERS	69	69	-	-	-	-	-	-	14	17	22	9
DATA-ENTRY KEYERS	51	44	-	-	-	-	7	-	-	7	10	34
OTHER ADMINISTRATIVE SUPPORT OCCUPATIONS	3 095	2 685	363	113	57	193	45	2	188	345	1 540	938
SERVICE OCCUPATIONS	13 370	9 708	3 152	233	455	2 464	471	39	1 724	3 629	4 771	2 778
PRIVATE HOUSEHOLD OCCUPATIONS	30	30	-	-	-	-	-	-	9	6	7	8
PROTECTIVE SERVICE OCCUPATIONS	2 354	810	1 532	91	225	1 216	12	-	98	257	1 059	825
FIREFIGHTING OCCUPATIONS	368	-	368	-	16	352	-	-	-	-	61	289
POLICE AND DETECTIVES, PUBLIC SERVICE	646	-	646	38	72	536	-	-	-	19	435	181
GUARDS	913	770	131	46	12	73	12	-	98	219	356	179
OTHER PROTECTIVE SERVICE OCCUPATIONS	427	40	387	7	125	255	-	-	-	19	207	176
SERVICE OCCUPATIONS, EXCEPT PROTECTIVE AND HOUSEHOLD	10 986	8 868	1 620	142	230	1 248	459	39	1 617	3 366	3 705	1 945
FOOD PREPARATION AND SERVICE OCCUPATIONS	4 012	3 816	44	-	36	8	123	29	758	1 827	780	532
WAITERS AND FOOD COUNTER WORKERS	324	319	-	-	-	-	5	-	40	185	51	48
COOKS	1 702	1 641	16	-	16	-	40	5	273	838	377	166
HEALTH SERVICE OCCUPATIONS	449	365	77	-	24	53	7	-	8	127	231	73
NURSING AIDES, ORDERLIES, AND ATTENDANTS	359	282	70	-	24	46	7	-	8	107	188	46
CLEANING AND BUILDING SERVICE OCCUPATIONS EXC. HOUSEHOLD	5 705	4 236	1 381	127	133	1 121	78	10	731	1 248	2 484	1 047
PERSONAL SERVICE OCCUPATIONS	820	451	118	15	37	66	251	-	120	164	210	293
BARBERS, HAIRDRESSERS AND COSMETOLOGISTS	345	121	-	-	-	-	224	-	14	20	70	227
FARMING, FORESTRY, AND FISHING OCCUPATIONS	3 702	1 773	245	-	25	220	1 589	95	301	604	850	1 856
FARM OPERATORS AND MANAGERS	1 688	243	2	-	-	2	1 443	-	54	111	268	1 215
FARM OCCUPATIONS, EXCEPT MANAGERIAL	1 301	1 186	7	-	-	7	19	89	184	373	232	485
RELATED AGRICULTURAL OCCUPATIONS	632	309	224	-	25	199	93	6	61	105	326	134
FORESTRY AND FISHING OCCUPATIONS	81	35	12	-	-	12	34	-	2	15	24	22
PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS	34 068	29 646	1 064	80	92	892	3 331	27	765	2 480	15 934	13 952
MECHANICS AND REPAIRERS	9 898	8 695	421	45	35	341	775	7	246	612	4 564	4 275
AUTOMOBILE MECHANICS, INCLUDING BODY	2 604	2 047	127	17	-	110	430	-	76	192	1 009	1 273
AIRCRAFT MECHANICS	24	22	-	-	-	-	2	-	-	-	13	11
HEATING, AIR CONDITIONING, AND REFRIGERATION MECHANICS	378	332	2	-	-	2	44	-	15	10	188	154
OTHER MECHANICS AND REPAIRERS	6 892	6 294	292	28	35	229	299	7	155	410	3 354	2 837
CONSTRUCTION TRADES	9 998	7 420	347	29	42	276	2 227	4	389	1 255	5 115	2 794
CARPENTERS	2 347	1 576	62	14	15	33	709	-	74	342	1 287	518
ELECTRICIANS	1 550	1 397	34	7	4	23	119	-	33	98	827	548
PAINTERS, CONSTRUCTION AND MAINTENANCE	912	584	35	-	13	22	291	2	42	127	472	214
PLUMBERS, PIPEFITTERS, AND STEAMFITTERS	916	787	36	-	1	35	93	-	47	27	463	330
OTHER CONSTRUCTION TRADES	4 273	3 076	180	8	9	163	1 015	2	193	661	2 066	1 184
EXTRACTIVE OCCUPATIONS	36	29	-	-	-	-	7	-	-	14	2	15
PRECISION PRODUCTION OCCUPATIONS	14 136	13 502	296	6	15	275	322	16	130	599	6 253	6 868
SUPERVISORS, PRODUCTION OCCUPATIONS	6 164	5 991	109	-	13	96	64	-	40	75	2 653	3 301
MANUFACTURING	4 835	4 798	12	-	2	10	25	-	16	58	2 094	2 585
PRECISION METALWORKING OCCUPATIONS	5 107	5 010	11	-	-	11	86	-	25	262	2 213	2 477
TOOL AND DIE MAKERS	2 766	2 727	9	-	-	9	30	-	13	78	1 059	1 587
MACHINISTS	1 401	1 396	-	-	-	-	5	-	12	90	613	632
SHEET METAL WORKERS	443	428	-	-	-	-	15	-	-	51	311	46
OTHER PRECISION METAL WORKERS	497	459	2	-	-	2	36	-	-	43	230	212
PRECISION TEXTILE, APPAREL, AND FURNISHINGS MACHINE WORKERS	416	354	-	-	-	-	54	8	8	48	208	138
PLANT AND SYSTEM OPERATORS	346	213	133	-	-	133	-	-	-	14	204	122
OTHER PRECISION PRODUCTION OCCUPATIONS	2 103	1 934	43	6	2	35	118	8	57	200	975	830

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

GRAND RAPIDS, MI SMSA

	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY	1 TO 14	15 TO 34	35 TO 40	41+
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	HOURS	HOURS	HOURS	HOURS
TOTAL												
OPERATORS, FABRICATORS, AND LABORERS	42 251	40 446	1 027	198	71	758	744	34	1 569	4 765	20 967	13 589
MACHINE OPERATORS, ASSEMBLERS, AND INSPECTORS	22 404	21 899	226	56	40	130	268	11	405	1 780	12 460	7 052
MACHINE OPERATORS AND TENDERS, EXCEPT PRECISION	14 235	13 944	129	22	16	91	154	8	284	1 149	8 042	4 330
METALWORKING AND PLASTIC WORKING MACHINE OPERATORS	4 352	4 304	15	8	2	5	33	-	71	360	2 512	1 272
PRINTING MACHINE OPERATORS	1 069	1 050	7	-	-	7	12	-	28	139	556	323
TEXTILE, APPAREL, AND FURNISHINGS MACHINE OPERATORS	407	358	-	-	-	-	49	-	24	51	204	115
TEXTILE MACHINE OPERATORS	149	143	-	-	-	-	6	-	6	-	84	57
TEXTILE SEWING MACHINE OPERATORS	47	45	-	-	-	-	2	-	-	-	38	9
LAUNDERING AND DRYCLEANING MACHINE OPERATORS	177	136	-	-	-	-	41	-	18	40	69	39
OTHER SPECIFIED MACHINE OPERATORS	4 599	4 495	56	7	14	35	48	-	83	306	2 632	1 478
MISCELLANEOUS AND NOT SPECIFIED MACHINE OPERATORS	3 808	3 737	51	7	-	44	12	8	78	293	2 138	1 142
OCCUPATION:												
MISCELLANEOUS MACHINE OPERATORS, N.E.C.	907	905	2	2	-	-	-	-	19	55	489	304
MACHINE OPERATORS, NOT SPECIFIED	2 901	2 832	49	5	-	44	12	8	59	238	1 649	838
INDUSTRY:												
MANUFACTURING	3 510	3 484	14	-	-	14	12	-	64	237	2 006	1 070
NONDURABLE GOODS	739	732	7	-	-	7	-	-	23	54	392	242
FOOD AND KINDRED PRODUCTS	213	213	-	-	-	-	-	-	13	29	118	53
TEXTILE MILL AND FINISHED TEXTILE PRODUCTS	67	60	7	-	-	7	-	-	-	6	41	20
PAPER AND ALLIED PRODUCTS	102	102	-	-	-	-	-	-	-	2	69	26
OTHER NONDURABLE GOODS	357	357	-	-	-	-	-	-	10	17	164	143
DURABLE GOODS, INCLUDING NOT SPECIFIED MFG	2 771	2 752	7	-	-	7	12	-	41	183	1 614	828
METAL INDUSTRIES	730	715	7	-	-	7	8	-	-	63	458	181
MACHINERY, INCLUDING ELECTRICAL	543	539	-	-	-	-	4	-	24	45	314	149
TRANSPORTATION EQUIPMENT	426	426	-	-	-	-	-	-	4	25	326	46
OTHER DURABLE GOODS	1 072	1 072	-	-	-	-	-	-	13	50	516	452
NONMANUFACTURING INDUSTRIES	298	253	37	7	-	30	-	8	14	56	132	72
TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES	38	36	2	-	-	2	-	-	8	-	30	-
WHOLESALE AND RETAIL TRADE	114	114	-	-	-	-	-	-	6	13	51	44
ALL OTHER INDUSTRIES	146	103	35	7	-	28	-	8	-	43	51	28
FABRICATORS, ASSEMBLERS, AND HAND WORKING OCCUPATIONS	6 313	6 119	83	27	22	34	110	1	74	476	3 376	2 186
WELDERS AND CUTTERS	2 126	2 040	39	22	-	17	46	1	28	141	1 095	833
ASSEMBLERS	3 942	3 866	34	5	12	17	42	-	39	326	2 123	1 286
OTHER FABRICATORS AND HAND WORKING OCCUPATIONS	245	213	10	-	10	-	22	-	7	9	158	67
PRODUCTION INSPECTORS, TESTERS, SAMPLERS, AND WEIGHERS	1 856	1 836	14	7	2	5	4	2	47	155	1 042	536
TRANSPORTATION AND MATERIAL MOVING OCCUPATIONS	11 060	10 201	504	63	16	425	353	2	398	817	4 855	4 624
MOTOR VEHICLE OPERATORS	6 976	6 315	374	17	11	346	285	2	314	589	2 440	3 397
TRUCK DRIVERS AND DRIVER-SALES WORKERS	6 405	5 904	226	17	-	209	273	2	256	474	2 227	3 225
BUS DRIVERS	272	166	106	-	11	95	-	-	53	74	60	77
RAIL AND WATER TRANSPORTATION OCCUPATIONS	633	582	51	46	5	-	-	-	7	46	340	228
MATERIAL MOVING EQUIPMENT OPERATORS	3 451	3 304	79	-	-	79	68	-	77	182	2 075	999
EXCAVATING, GRADING, AND DOZER MACHINE OPERATORS	255	171	30	-	-	30	54	-	22	41	120	51
HANDLERS, EQUIPMENT CLEANERS, HELPERS, AND LABORERS	8 787	8 346	297	79	15	203	123	21	766	2 168	3 652	1 913
CONSTRUCTION LABORERS	1 042	941	101	7	6	88	-	-	76	148	589	171
FREIGHT, STOCK, AND MATERIAL HANDLERS	3 307	3 181	83	60	-	23	43	-	344	1 032	1 223	621
GARAGE AND SERVICE STATION RELATED OCCUPATIONS	644	617	8	-	-	8	19	-	61	262	156	147
HAND PACKERS AND PACKAGERS	803	803	-	-	-	-	-	-	36	108	418	206
OTHER SPECIFIED HANDLERS, EQUIPMENT CLEANERS, AND HELPERS	1 005	947	17	-	5	12	41	-	115	280	400	183
LABORERS, EXCEPT CONSTRUCTION	1 986	1 857	88	12	4	72	20	21	134	338	866	585
MANUFACTURING	936	911	8	-	-	8	-	17	26	114	511	255
NONDURABLE GOODS	277	277	-	-	-	-	-	-	7	30	161	79
DURABLE GOODS, INCLUDING NOT SPECIFIED MFG	659	634	8	-	-	8	-	17	19	84	350	176
METAL INDUSTRIES	160	160	-	-	-	-	-	-	-	19	109	18
NONMANUFACTURING INDUSTRIES	1 050	946	80	12	4	64	20	4	108	224	355	330
TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES	159	140	19	-	-	19	-	-	7	20	94	22
WHOLESALE AND RETAIL TRADE	654	641	9	-	4	5	-	4	50	135	200	252
ALL OTHER INDUSTRIES	237	165	52	12	-	40	20	-	51	69	61	56

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

GRAND RAPIDS, MI SMSA

	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY	1 TO 14	15 TO 34	35 TO 40	41+
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	HOURS	HOURS	HOURS	HOURS
TOTAL												
FEMALES 16 YEARS AND OVER	116 376	95 718	16 780	1 363	2 774	12 643	3 099	779	12 279	32 078	53 272	13 767
MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS	20 791	12 719	7 143	247	916	5 980	838	91	1 963	4 223	10 342	3 638
EXECUTIVE, ADMINISTRATIVE, AND MANAGERIAL OCCUPATIONS	6 484	5 310	828	129	226	473	286	60	213	878	3 457	1 787
OFFICIALS AND ADMINISTRATORS, PUBLIC ADMINISTRATION	195	-	195	28	37	130	-	-	25	40	98	25
ADMINISTRATORS, EDUCATION AND RELATED FIELDS	330	139	191	5	45	141	-	-	23	42	149	116
MANAGERS, MEDICINE AND HEALTH	115	98	17	6	6	5	-	-	2	15	65	33
OTHER SPECIFIED MANAGERS	1 071	1 004	21	8	6	7	41	5	33	138	629	265
MANAGERS AND ADMINISTRATORS, N.E.C., SALARIED	2 411	2 290	121	11	5	105	-	-	95	297	1 177	768
MANUFACTURING	333	333	-	-	-	-	-	-	6	6	198	110
TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES	126	126	-	-	-	-	-	-	-	10	79	31
WHOLESALE AND RETAIL TRADE	888	883	5	-	-	5	-	-	28	105	419	323
ALL OTHER INDUSTRIES	1 064	948	116	11	5	100	-	-	61	176	481	304
MANAGERS AND ADMINISTRATORS, N.E.C., SELF-EMPLOYED	216	-	-	-	-	-	171	45	-	33	75	101
CONSTRUCTION	-	-	-	-	-	-	-	-	-	-	-	-
MANUFACTURING	6	-	-	-	-	-	6	-	-	-	-	6
WHOLESALE AND RETAIL TRADE	99	-	-	-	-	-	84	15	-	9	46	44
ALL OTHER INDUSTRIES	111	-	-	-	-	-	81	30	-	24	29	51
MANAGEMENT RELATED OCCUPATIONS	2 146	1 779	283	71	127	85	74	10	35	313	1 264	479
ACCOUNTANTS AND AUDITORS	768	645	88	31	17	40	29	6	11	124	411	206
BUYERS AND PURCHASING AGENTS	484	478	6	6	-	-	-	-	-	49	286	130
PROFESSIONAL SPECIALTY OCCUPATIONS	14 307	7 409	6 315	118	690	5 507	552	31	1 750	3 345	6 885	1 851
ENGINEERS, ARCHITECTS, AND SURVEYORS	123	118	-	-	-	-	5	-	-	-	64	53
ARCHITECTS	12	12	-	-	-	-	-	-	-	-	7	5
ENGINEERS	111	106	-	-	-	-	5	-	-	-	57	48
ELECTRICAL AND ELECTRONIC ENGINEERS	26	21	-	-	-	-	5	-	-	-	-	26
MECHANICAL ENGINEERS	6	6	-	-	-	-	-	-	-	-	6	-
OTHER ENGINEERS	79	79	-	-	-	-	-	-	-	-	51	22
SURVEYORS AND MAPPING SCIENTISTS	-	-	-	-	-	-	-	-	-	-	-	-
MATHEMATICAL AND COMPUTER SCIENTISTS	65	59	6	-	-	6	-	-	-	5	47	13
COMPUTER SYSTEMS ANALYSTS AND SCIENTISTS	37	31	6	-	-	6	-	-	-	5	32	-
NATURAL SCIENTISTS	64	36	28	-	11	17	-	-	6	6	36	8
HEALTH DIAGNOSING OCCUPATIONS	95	58	7	-	7	-	30	-	12	21	26	30
PHYSICIANS	44	30	7	-	7	-	7	-	-	-	8	30
DENTISTS	34	23	-	-	-	-	11	-	7	16	11	-
OTHER HEALTH DIAGNOSING PRACTITIONERS	17	5	-	-	-	-	12	-	5	5	7	-
HEALTH ASSESSMENT AND TREATING OCCUPATIONS	3 946	3 270	613	6	92	515	46	17	279	1 199	1 778	496
REGISTERED NURSES	3 292	2 783	463	6	83	374	29	17	234	1 086	1 423	406
PHARMACISTS	82	76	6	-	-	6	-	-	8	18	31	25
THERAPISTS	416	287	117	-	2	115	12	-	32	63	243	53
TEACHERS, LIBRARIANS, AND COUNSELORS	7 582	2 301	5 096	42	335	4 719	185	-	1 124	1 603	3 761	906
TEACHERS, POSTSECONDARY	401	208	193	4	112	77	-	-	83	104	157	57
TEACHERS, ELEMENTARY AND PRE-KINDERGARTEN	4 853	1 355	3 492	28	83	3 381	6	-	524	933	2 654	620
TEACHERS, SECONDARY	1 131	252	879	5	23	851	-	-	165	272	535	139
SOCIAL SCIENTISTS AND URBAN PLANNERS	153	102	45	2	11	32	6	-	12	26	96	19
SOCIAL AND RECREATION WORKERS	759	327	425	55	210	160	-	7	31	109	506	102
RELIGIOUS WORKERS	134	122	6	-	6	-	6	-	16	32	39	42
LAWYERS AND JUDGES	112	69	29	8	-	21	14	-	-	10	74	28
WRITERS, ARTISTS, ENTERTAINERS, AND ATHLETES	1 274	947	60	5	18	37	260	7	270	334	458	154
TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS	51 553	44 144	5 996	931	1 241	3 824	985	428	4 798	14 523	24 753	5 533
TECHNICIANS AND RELATED SUPPORT OCCUPATIONS	3 735	3 304	393	15	136	242	29	9	242	1 173	1 712	391
HEALTH TECHNOLOGISTS AND TECHNICIANS	2 953	2 633	297	6	103	188	14	9	197	1 087	1 290	187
LICENSED PRACTICAL NURSES	1 714	1 467	227	6	67	154	14	6	166	665	690	77
ENGINEERING AND SCIENCE TECHNICIANS	407	372	27	-	12	15	8	-	22	36	201	123
ELECTRICAL AND ELECTRONIC TECHNICIANS	19	19	-	-	-	-	-	-	-	-	13	-
DRAFTING AND SURVEYING TECHNICIANS	97	82	7	-	-	7	8	-	6	17	35	32
TECHNICIANS, EXCEPT HEALTH, ENGINEERING, AND SCIENCE	375	299	69	9	21	39	7	-	23	50	221	81
AIRPLANE PILOTS AND NAVIGATORS	4	4	-	-	-	-	-	-	-	4	-	-
COMPUTER PROGRAMMERS	167	134	33	7	5	21	-	-	-	25	101	41
SALES OCCUPATIONS	12 512	11 648	175	36	65	74	607	82	2 034	5 327	3 620	1 022
SUPERVISORS AND PROPRIETORS, SALES OCCUPATIONS	817	624	-	-	-	-	181	12	14	132	378	241
SELF-EMPLOYED	193	-	-	-	-	-	181	12	7	51	39	86
SALES REPRESENTATIVES, FINANCE AND BUSINESS SERVICES	1 391	1 264	-	-	-	-	112	15	81	417	655	223
SALES REPRESENTATIVES, COMMODITIES, EXCEPT RETAIL	496	436	-	-	-	-	53	7	31	102	266	81
SALES WORKERS, RETAIL AND PERSONAL SERVICES	9 747	9 265	175	36	65	74	261	46	1 896	4 649	2 303	473
CASHIERS	4 219	4 093	110	-	53	57	8	8	800	2 190	868	159
SALES RELATED OCCUPATIONS	61	59	-	-	-	-	-	2	12	27	18	4

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

GRAND RAPIDS, MI SMSA

	EMPLOYED PERSONS								PERSONS AT WORK			
	TOTAL	PRIV. WAGE AND SALARY WORKERS	GOVERNMENT WORKERS TOTAL	FEDERAL	STATE	LOCAL	SELF-EMPLOYED WORKERS	UNPAID FAMILY WORKERS	1 TO 14 HOURS	15 TO 34 HOURS	35 TO 40 HOURS	41+ HOURS
TOTAL												
ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL	35 306	29 192	5 428	880	1 040	3 508	349	337	2 522	8 023	19 421	4 120
SUPERVISORS, ADMINISTRATIVE SUPPORT OCCUPATIONS	1 209	1 060	128	18	39	71	21	-	2	129	796	237
COMPUTER EQUIPMENT OPERATORS	692	641	51	5	17	29	-	-	14	104	387	174
SECRETARIES, STENOGRAPHERS, AND TYPISTS	12 092	9 786	2 123	238	459	1 426	101	82	782	2 588	7 139	1 218
SECRETARIES	10 239	8 487	1 610	180	311	1 119	69	73	634	2 161	6 097	1 065
RECEPTIONISTS	1 690	1 544	123	13	22	88	8	15	201	524	749	147
FILE CLERKS	664	602	62	-	30	32	-	-	69	170	308	99
FINANCIAL RECORDS PROCESSING OCCUPATIONS	5 415	4 816	314	32	39	243	137	148	367	1 161	2 987	685
BOOKKEEPERS, ACCOUNTING, AND AUDITING CLERKS	4 043	3 546	226	24	24	178	131	140	283	902	2 151	535
TELEPHONE OPERATORS	845	807	38	7	6	25	-	-	73	222	466	28
MAIL AND MESSAGE DISTRIBUTING OCCUPATIONS	671	259	409	346	-	63	3	-	71	123	344	98
TRAFFIC, SHIPPING, STOCK AND INVENTORY CLERKS	1 009	926	77	16	14	47	-	6	63	111	586	217
INSURANCE ADJUSTERS, EXAMINERS, AND INVESTIGATORS	324	324	-	-	-	-	-	-	-	8	256	60
BANK TELLERS	1 546	1 501	45	31	14	-	-	-	100	378	917	98
DATA-ENTRY KEYERS	1 153	1 086	60	-	22	38	7	-	51	236	643	184
OTHER ADMINISTRATIVE SUPPORT OCCUPATIONS	7 996	5 840	1 998	174	378	1 446	72	86	729	2 269	3 843	875
SERVICE OCCUPATIONS	21 836	18 193	2 684	124	504	2 056	891	68	4 405	9 048	5 908	1 265
PRIVATE HOUSEHOLD OCCUPATIONS	1 022	1 022	-	-	-	-	-	-	404	322	155	53
PROTECTIVE SERVICE OCCUPATIONS	502	242	260	8	48	204	-	-	114	108	187	72
FIREFIGHTING OCCUPATIONS	-	-	-	-	-	-	-	-	-	-	-	-
POLICE AND DETECTIVES, PUBLIC SERVICE	42	-	42	-	8	34	-	-	-	7	21	14
GUARDS	425	242	183	6	30	147	-	-	114	101	135	56
OTHER PROTECTIVE SERVICE OCCUPATIONS	35	-	35	2	10	23	-	-	-	-	31	2
SERVICE OCCUPATIONS, EXCEPT PROTECTIVE AND HOUSEHOLD	20 312	16 929	2 424	116	456	1 852	891	68	3 887	8 618	5 566	1 140
FOOD PREPARATION AND SERVICE OCCUPATIONS	9 733	9 042	587	19	94	474	63	41	2 265	4 635	1 850	455
WAITERS AND FOOD COUNTER WORKERS	5 240	5 164	40	11	-	29	16	20	1 187	2 814	818	161
COOKS	1 624	1 382	205	6	29	170	18	19	334	679	437	100
HEALTH SERVICE OCCUPATIONS	4 515	3 899	575	26	210	339	31	10	410	1 749	1 843	243
NURSING AIDES, ORDERLIES, AND ATTENDANTS	3 373	2 828	504	26	198	280	31	10	314	1 385	1 250	172
CLEANING AND BUILDING SERVICE OCCUPATIONS EXC. HOUSEHOLD	2 663	2 233	356	35	79	242	70	4	640	921	893	106
PERSONAL SERVICE OCCUPATIONS	3 401	1 755	906	36	73	797	727	13	572	1 313	980	336
BARBERS, HAIRDRESSERS AND COSMETOLOGISTS	1 205	872	-	-	-	-	333	-	136	481	404	137
FARMING, FORESTRY, AND FISHING OCCUPATIONS	970	677	9	-	-	9	133	151	145	436	188	167
FARM OPERATORS AND MANAGERS	136	30	-	-	-	-	106	-	35	24	31	46
FARM OCCUPATIONS, EXCEPT MANAGERIAL	637	486	-	-	-	-	8	143	70	336	103	103
RELATED AGRICULTURAL OCCUPATIONS	183	147	9	-	-	9	19	8	40	74	49	11
FORESTRY AND FISHING OCCUPATIONS	14	14	-	-	-	-	-	-	-	2	5	7
PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS	2 740	2 491	85	13	6	66	131	33	155	420	1 433	613
MECHANICS AND REPAIRERS	358	316	12	-	-	12	16	14	10	64	221	63
AUTOMOBILE MECHANICS, INCLUDING BODY	17	17	-	-	-	-	-	-	-	5	4	8
AIRCRAFT MECHANICS	8	8	-	-	-	-	-	-	-	-	8	-
HEATING, AIR CONDITIONING, AND REFRIGERATION MECHANICS	10	10	-	-	-	-	-	-	-	-	8	2
OTHER MECHANICS AND REPAIRERS	323	281	12	-	-	12	16	14	10	59	201	53
CONSTRUCTION TRADES	229	177	28	6	-	22	18	6	34	7	147	29
CARPENTERS	36	21	15	-	-	15	-	-	-	-	31	-
ELECTRICIANS	47	35	6	6	-	-	6	-	11	-	31	5
PAINTERS, CONSTRUCTION AND MAINTENANCE	69	50	7	-	-	7	12	-	15	-	35	19
PLUMBERS, PIPEFITTERS, AND STEAMFITTERS	6	6	-	-	-	-	-	-	-	-	6	-
OTHER CONSTRUCTION TRADES	71	65	-	-	-	-	-	6	8	7	44	5
EXTRACTIVE OCCUPATIONS	-	-	-	-	-	-	-	-	-	-	-	-
PRECISION PRODUCTION OCCUPATIONS	2 153	1 998	45	7	6	32	97	13	111	349	1 065	521
SUPERVISORS, PRODUCTION OCCUPATIONS	688	669	6	-	6	-	13	-	6	50	299	301
MANUFACTURING	447	434	-	-	-	-	13	-	-	24	192	222
PRECISION METALWORKING OCCUPATIONS	123	116	7	7	-	-	-	-	6	-	81	22
TOOL AND DIE MAKERS	34	34	-	-	-	-	-	-	-	-	27	7
MACHINISTS	51	51	-	-	-	-	-	-	-	-	30	7
SHEET METAL WORKERS	-	-	-	-	-	-	-	-	-	-	-	-
OTHER PRECISION METAL WORKERS	38	31	7	7	-	-	-	-	6	-	24	8
PRECISION TEXTILE, APPAREL, AND FURNISHINGS MACHINE WORKERS	449	354	5	-	-	5	79	11	59	147	179	53
PLANT AND SYSTEM OPERATORS	7	7	-	-	-	-	-	-	-	-	7	-
OTHER PRECISION PRODUCTION OCCUPATIONS	886	852	27	-	-	27	5	2	40	152	499	145

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

GRAND RAPIDS, MI SMSA

	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY	1 TO 14	15 TO 34	35 TO 40	41+
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	HOURS	HOURS	HOURS	HOURS
TOTAL												
OPERATORS, FABRICATORS, AND LABORERS	18 486	17 494	863	48	107	708	121	8	813	3 428	10 648	2 551
MACHINE OPERATORS, ASSEMBLERS, AND INSPECTORS	13 532	13 293	140	38	25	77	99	-	451	1 908	8 352	1 999
MACHINE OPERATORS AND TENDERS, EXCEPT PRECISION	7 507	7 340	87	8	19	60	80	-	316	1 122	4 482	1 181
METALWORKING AND PLASTIC WORKING MACHINE OPERATORS	1 347	1 334	9	-	-	9	4	-	41	123	863	221
PRINTING MACHINE OPERATORS	437	418	11	-	-	11	8	-	25	88	253	60
TEXTILE, APPAREL, AND FURNISHINGS MACHINE OPERATORS	2 013	1 946	15	-	9	6	52	-	134	342	1 210	247
TEXTILE MACHINE OPERATORS	140	126	-	-	-	-	14	-	-	28	72	33
TEXTILE SEWING MACHINE OPERATORS	1 354	1 325	9	-	9	-	20	-	69	152	922	147
LAUNDERING AND DRYCLEANING MACHINE OPERATORS	340	316	6	-	-	6	18	-	43	125	145	21
OTHER SPECIFIED MACHINE OPERATORS	1 751	1 724	21	-	-	21	6	-	56	275	908	378
MISCELLANEOUS AND NOT SPECIFIED MACHINE OPERATORS	1 959	1 918	31	8	10	13	10	-	60	294	1 248	275
OCCUPATION: MISCELLANEOUS MACHINE OPERATORS, N.E.C.	612	595	12	-	5	7	5	-	36	101	399	49
MACHINE OPERATORS, NOT SPECIFIED	1 347	1 323	19	8	5	6	5	-	24	193	849	226
INDUSTRY: MANUFACTURING	1 770	1 749	11	-	5	6	10	-	47	235	1 150	256
NONDURABLE GOODS	725	725	-	-	-	-	-	-	27	127	462	73
FOOD AND KINDRED PRODUCTS	181	181	-	-	-	-	-	-	22	33	108	13
TEXTILE MILL AND FINISHED TEXTILE PRODUCTS	78	78	-	-	-	-	-	-	-	12	55	-
PAPER AND ALLIED PRODUCTS	99	99	-	-	-	-	-	-	-	15	77	7
OTHER NONDURABLE GOODS	367	367	-	-	-	-	-	-	5	67	222	53
DURABLE GOODS, INCLUDING NOT SPECIFIED MFG	1 045	1 024	11	-	5	6	10	-	20	108	688	183
METAL INDUSTRIES	186	181	-	-	-	-	5	-	6	4	145	24
MACHINERY, INCLUDING ELECTRICAL	190	174	11	-	5	6	5	-	-	11	135	33
TRANSPORTATION EQUIPMENT	269	269	-	-	-	-	-	-	6	34	169	44
OTHER DURABLE GOODS	400	400	-	-	-	-	-	-	8	59	239	82
NONMANUFACTURING INDUSTRIES	189	169	20	8	5	7	-	-	13	59	98	19
TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES	4	4	-	-	-	-	-	-	-	-	4	-
WHOLESALE AND RETAIL TRADE	88	88	-	-	-	-	-	-	13	32	43	-
ALL OTHER INDUSTRIES	97	77	20	8	5	7	-	-	-	27	51	19
FABRICATORS, ASSEMBLERS, AND HAND WORKING OCCUPATIONS	4 227	4 170	38	20	6	12	19	-	112	564	2 764	486
WELDERS AND CUTTERS	280	280	-	-	-	-	-	-	5	45	167	46
ASSEMBLERS	3 807	3 756	32	20	-	12	19	-	101	483	2 520	425
OTHER FABRICATORS AND HAND WORKING OCCUPATIONS	140	134	6	-	6	-	-	-	6	36	77	15
PRODUCTION INSPECTORS, TESTERS, SAMPLERS, AND WEIGHERS	1 798	1 783	15	10	-	5	-	-	23	222	1 106	332
TRANSPORTATION AND MATERIAL MOVING OCCUPATIONS	1 249	591	656	6	65	585	-	2	108	581	345	154
MOTOR VEHICLE OPERATORS	1 069	411	656	6	65	585	-	2	108	559	234	115
TRUCK DRIVERS AND DRIVER-SALES WORKERS	232	185	45	-	-	45	-	2	15	94	57	58
BUS DRIVERS	759	164	595	6	58	531	-	-	81	432	155	52
RAIL AND WATER TRANSPORTATION OCCUPATIONS	-	-	-	-	-	-	-	-	-	-	-	-
MATERIAL MOVING EQUIPMENT OPERATORS	180	180	-	-	-	-	-	-	-	22	111	39
EXCAVATING, GRADING, AND DOZER MACHINE OPERATORS	-	-	-	-	-	-	-	-	-	-	-	-
HANDLERS, EQUIPMENT CLEANERS, HELPERS, AND LABORERS	3 705	3 610	67	4	17	46	22	6	254	939	1 951	398
CONSTRUCTION LABORERS	20	20	-	-	-	-	-	-	-	-	12	4
FREIGHT, STOCK, AND MATERIAL HANDLERS	874	869	-	-	-	-	5	-	90	309	381	47
GARAGE AND SERVICE STATION RELATED OCCUPATIONS	65	65	-	-	-	-	-	-	-	39	11	13
HAND PACKERS AND PACKAGERS	1 873	1 833	23	-	-	23	17	-	101	449	1 074	172
OTHER SPECIFIED HANDLERS, EQUIPMENT CLEANERS, AND HELPERS	154	131	17	-	12	5	-	6	11	34	64	45
LABORERS, EXCEPT CONSTRUCTION	719	692	27	4	5	18	-	-	52	108	409	117
MANUFACTURING	446	441	5	-	-	5	-	-	14	52	264	92
NONDURABLE GOODS	215	215	-	-	-	-	-	-	7	26	123	59
DURABLE GOODS, INCLUDING NOT SPECIFIED MFG	231	226	5	-	-	5	-	-	7	26	141	33
METAL INDUSTRIES	74	69	5	-	-	5	-	-	5	-	50	5
NONMANUFACTURING INDUSTRIES	273	251	22	4	5	13	-	-	38	56	145	25
TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES	25	25	-	-	-	-	-	-	5	-	20	-
WHOLESALE AND RETAIL TRADE	174	174	-	-	-	-	-	-	27	30	99	18
ALL OTHER INDUSTRIES	74	52	22	4	5	13	-	-	6	26	26	7

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

GRAND RAPIDS, MI SMSA	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY	1 TO 14	15 TO 34	35 TO 40	41+
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	HOURS	HOURS	HOURS	HOURS
WHITE												
MALES 16 YEARS AND OVER	150 021	124 756	13 319	2 112	2 090	9 117	11 662	284	5 648	15 222	65 942	59 500
MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS	34 358	24 633	6 392	443	1 298	4 651	3 310	23	587	1 574	14 648	16 962
EXECUTIVE, ADMINISTRATIVE, AND MANAGERIAL OCCUPATIONS	18 818	15 430	1 959	263	480	1 216	1 417	12	188	549	7 301	10 437
OFFICIALS AND ADMINISTRATORS, PUBLIC ADMINISTRATION	433	-	433	45	75	313	-	-	2	8	268	155
MANAGEMENT RELATED OCCUPATIONS	4 131	3 152	647	169	232	246	332	-	78	104	1 958	1 899
PROFESSIONAL SPECIALTY OCCUPATIONS	15 540	9 203	4 433	180	818	3 435	1 893	11	399	1 025	7 347	6 525
ENGINEERS AND NATURAL SCIENTISTS	4 063	3 549	357	55	133	169	157	-	38	89	2 417	1 482
ENGINEERS	3 155	2 872	207	26	70	111	76	-	23	66	1 880	1 160
HEALTH DIAGNOSING OCCUPATIONS	1 416	762	44	12	7	25	610	-	11	97	418	839
HEALTH ASSESSMENT AND TREATING OCCUPATIONS	547	428	82	17	14	51	32	5	12	55	251	227
TEACHERS, LIBRARIANS, AND COUNSELORS	4 709	1 368	3 309	24	401	2 884	32	-	168	329	2 419	1 714
TEACHERS, ELEMENTARY AND SECONDARY SCHOOLS	3 418	725	2 693	16	92	2 585	-	-	49	163	1 954	1 198
TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS	28 506	24 081	2 051	1 228	266	557	2 308	66	949	2 832	12 426	11 716
HEALTH TECHNOLOGISTS AND TECHNICIANS	257	229	21	-	5	16	7	-	15	36	145	51
TECHNOLOGISTS AND TECHNICIANS, EXCEPT HEALTH	2 702	2 385	288	65	80	143	29	-	70	234	1 518	825
SALES OCCUPATIONS	15 666	13 428	51	-	31	20	2 155	32	569	1 599	5 657	7 564
SUPERVISORS AND PROPRIETORS, SALES OCCUPATIONS	2 581	2 010	18	-	18	-	548	5	5	121	731	1 667
SALES REPRESENTATIVES, COMMODITIES AND FINANCE	7 945	6 753	12	-	6	6	1 178	2	166	414	3 491	3 745
OTHER SALES OCCUPATIONS	5 140	4 665	21	-	7	14	429	25	398	1 064	1 435	2 152
CASHIERS	683	652	14	-	-	14	17	-	106	246	194	124
ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL	9 881	8 039	1 691	1 163	150	378	117	34	295	963	5 106	3 276
COMPUTER EQUIPMENT OPERATORS	336	315	21	-	10	11	-	-	11	38	204	77
SECRETARIES, STENOGRAPHERS, AND TYPISTS	93	70	23	5	5	13	-	-	7	27	30	29
FINANCIAL RECORDS PROCESSING OCCUPATIONS	735	636	38	11	7	20	29	32	19	98	312	300
MAIL AND MESSAGE DISTRIBUTING OCCUPATIONS	1 101	209	881	852	8	21	11	-	19	77	634	349
SERVICE OCCUPATIONS	12 142	8 889	2 761	194	358	2 209	453	39	1 631	3 370	4 135	2 620
PRIVATE HOUSEHOLD OCCUPATIONS	24	24	-	-	-	-	-	-	9	-	7	8
PROTECTIVE SERVICE OCCUPATIONS	2 131	730	1 389	78	176	1 135	12	-	98	246	910	780
POLICE AND FIREFIGHTERS	943	-	943	38	73	832	-	-	-	19	446	449
SERVICE OCCUPATIONS, EXCEPT PROTECTIVE AND HOUSEHOLD	9 987	8 135	1 372	116	182	1 074	441	39	1 524	3 124	3 218	1 832
FOOD SERVICE OCCUPATIONS	3 740	3 555	35	-	27	8	121	29	719	1 729	679	498
CLEANING AND BUILDING SERVICE OCCUPATIONS, EXCEPT HOUSEHOLD	5 084	3 829	1 171	116	100	955	74	10	677	1 115	2 138	1 008
FARMING, FORESTRY, AND FISHING OCCUPATIONS	3 560	1 660	216	-	25	191	1 589	95	296	589	790	1 794
FARM OPERATORS AND MANAGERS	1 688	243	2	-	-	2	1 443	-	54	111	268	1 215
FARM WORKERS AND RELATED OCCUPATIONS	1 799	1 382	210	-	25	185	112	95	240	471	498	557
PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS	32 847	28 561	983	72	92	819	3 276	27	729	2 399	15 243	13 609
MECHANICS AND REPAIRERS	9 529	8 377	392	37	35	320	753	7	246	578	4 331	4 195
CONSTRUCTION TRADES	9 772	7 242	321	29	42	250	2 205	4	360	1 230	5 000	2 757
PRECISION PRODUCTION OCCUPATIONS	13 517	12 920	270	6	15	249	311	16	123	584	5 910	6 642
OPERATORS, FABRICATORS, AND LABORERS	38 608	36 932	916	175	51	690	726	34	1 456	4 458	18 700	12 799
MACHINE OPERATORS AND TENDERS, EXCEPT PRECISION	12 841	12 571	108	17	7	84	154	8	242	1 054	7 132	4 042
FABRICATORS, ASSEMBLERS, INSPECTORS, AND SAMPLERS	7 274	7 077	80	23	24	33	114	3	96	551	3 897	2 491
TRANSPORTATION OCCUPATIONS	7 298	6 613	398	63	16	319	285	2	309	622	2 566	3 553
MOTOR VEHICLE OPERATORS	6 730	6 096	347	17	11	319	285	2	302	584	2 261	3 347
MATERIAL MOVING EQUIPMENT OPERATORS	3 126	2 987	71	-	-	71	68	-	77	182	1 848	914
HANDLERS, EQUIPMENT CLEANERS, HELPERS, AND LABORERS	8 069	7 684	259	72	4	183	105	21	732	2 049	3 257	1 799
CONSTRUCTION LABORERS	928	840	88	-	-	88	-	-	76	136	515	157
FREIGHT, STOCK, AND MATERIAL HANDLERS	3 110	3 008	70	60	-	10	32	-	317	987	1 136	592

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

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GRAND RAPIDS, MI SMSA

	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY	1 TO 14	15 TO 34	35 TO 40	41+
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	HOURS	HOURS	HOURS	HOURS
WHITE												
FEMALES 16 YEARS AND OVER	108 858	90 119	14 987	1 091	2 373	11 523	2 973	779	11 853	30 691	48 708	13 034
MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS	19 866	12 327	6 648	196	829	5 623	800	91	1 934	4 076	9 702	3 548
EXECUTIVE, ADMINISTRATIVE, AND MANAGERIAL OCCUPATIONS	6 194	5 106	756	116	214	426	272	60	213	868	3 234	1 736
OFFICIALS AND ADMINISTRATORS, PUBLIC ADMINISTRATION	162	-	162	21	37	104	-	-	25	40	73	17
MANAGEMENT RELATED OCCUPATIONS	2 063	1 714	265	65	115	85	74	10	35	313	1 181	479
PROFESSIONAL SPECIALTY OCCUPATIONS	13 672	7 221	5 892	80	615	5 197	528	31	1 721	3 208	6 468	1 812
ENGINEERS AND NATURAL SCIENTISTS	234	195	34	-	11	23	5	-	6	11	138	65
ENGINEERS	102	97	-	-	-	-	5	-	-	-	57	39
HEALTH DIAGNOSING OCCUPATIONS	95	58	7	-	7	-	30	-	12	21	26	30
HEALTH ASSESSMENT AND TREATING OCCUPATIONS	3 889	3 224	602	6	87	509	46	17	279	1 193	1 750	473
TEACHERS, LIBRARIANS, AND COUNSELORS	7 161	2 206	4 775	19	298	4 458	180	-	1 119	1 489	3 471	899
TEACHERS, ELEMENTARY AND SECONDARY SCHOOLS	5 672	1 533	4 133	15	101	4 017	6	-	689	1 134	2 960	752
TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS	49 213	42 531	5 278	762	1 029	3 487	976	428	4 627	14 085	23 342	5 323
HEALTH TECHNOLOGISTS AND TECHNICIANS	2 839	2 537	279	6	91	182	14	9	197	1 076	1 202	187
TECHNOLOGISTS AND TECHNICIANS, EXCEPT HEALTH	726	639	72	9	15	48	15	-	40	80	385	196
SALES OCCUPATIONS	12 087	11 246	161	36	65	60	598	82	1 981	5 173	3 451	984
SUPERVISORS AND PROPRIETORS, SALES OCCUPATIONS	799	615	-	-	-	-	172	12	14	114	378	241
SALES REPRESENTATIVES, COMMODITIES AND FINANCE	1 835	1 648	-	-	-	-	165	22	112	502	901	289
OTHER SALES OCCUPATIONS	9 453	8 983	161	36	65	60	261	48	1 855	4 557	2 172	454
CASHIERS	4 032	3 920	96	-	53	43	8	8	764	2 106	805	155
ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL	33 561	28 109	4 766	711	858	3 197	349	337	2 409	7 756	18 304	3 956
COMPUTER EQUIPMENT OPERATORS	646	612	34	5	-	29	-	-	14	104	352	169
SECRETARIES, STENOGRAPHERS, AND TYPISTS	11 557	9 498	1 876	191	396	1 289	101	82	741	2 509	6 782	1 174
FINANCIAL RECORDS PROCESSING OCCUPATIONS	5 293	4 710	298	16	39	243	137	148	353	1 149	2 897	679
MAIL AND MESSAGE DISTRIBUTING OCCUPATIONS	597	251	343	307	-	36	3	-	71	123	280	88
SERVICE OCCUPATIONS	20 139	16 995	2 243	91	411	1 741	833	68	4 286	8 579	5 045	1 164
PRIVATE HOUSEHOLD OCCUPATIONS	934	934	-	-	-	-	-	-	380	292	131	49
PROTECTIVE SERVICE OCCUPATIONS	461	229	232	8	39	185	-	-	109	108	151	72
POLICE AND FIREFIGHTERS	29	-	29	-	8	21	-	-	-	7	8	14
SERVICE OCCUPATIONS, EXCEPT PROTECTIVE AND HOUSEHOLD	18 744	15 832	2 011	83	372	1 556	833	68	3 797	8 179	4 763	1 043
FOOD SERVICE OCCUPATIONS	9 268	8 625	539	19	79	441	63	41	2 207	4 476	1 671	425
CLEANING AND BUILDING SERVICE OCCUPATIONS, EXCEPT HOUSEHOLD	2 288	1 920	294	21	64	209	70	4	633	835	664	91
FARMING, FORESTRY, AND FISHING OCCUPATIONS	928	635	9	-	-	9	133	151	145	406	176	167
FARM OPERATORS AND MANAGERS	136	30	-	-	-	-	106	-	35	24	31	46
FARM WORKERS AND RELATED OCCUPATIONS	778	591	9	-	-	9	27	151	110	380	140	114
PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS	2 494	2 276	70	13	6	51	115	33	146	364	1 298	580
MECHANICS AND REPAIRERS	328	286	12	-	-	12	16	14	10	57	203	58
CONSTRUCTION TRADES	185	148	13	6	-	7	18	6	29	7	113	29
PRECISION PRODUCTION OCCUPATIONS	1 981	1 842	45	7	6	32	81	13	107	300	982	493
OPERATORS, FABRICATORS, AND LABORERS	16 218	15 355	739	29	98	612	116	8	715	3 181	9 145	2 252
MACHINE OPERATORS AND TENDERS, EXCEPT PRECISION	6 557	6 434	48	8	19	21	75	-	261	991	3 907	1 060
FABRICATORS, ASSEMBLERS, INSPECTORS, AND SAMPLERS	5 078	5 025	34	17	6	11	19	-	103	707	3 177	718
TRANSPORTATION OCCUPATIONS	1 001	402	597	-	56	541	-	2	108	559	189	92
MOTOR VEHICLE OPERATORS	1 001	402	597	-	56	541	-	2	108	559	189	92
MATERIAL MOVING EQUIPMENT OPERATORS	160	160	-	-	-	-	-	-	-	22	99	31
HANDLERS, EQUIPMENT CLEANERS, HELPERS, AND LABORERS	3 422	3 334	60	4	17	39	22	6	243	902	1 773	351
CONSTRUCTION LABORERS	20	20	-	-	-	-	-	-	-	-	12	4
FREIGHT, STOCK, AND MATERIAL HANDLERS	818	813	-	-	-	-	5	-	84	304	346	42

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GRAND RAPIDS, MI SMSA

	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY	1 TO 14	15 TO 34	35 TO 40	41+
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	HOURS	HOURS	HOURS	HOURS
BLACK												
MALES 16 YEARS AND OVER	5 203	4 173	902	168	150	584	128	-	265	561	3 142	955
MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS	762	329	379	51	44	284	54	-	42	86	430	195
EXECUTIVE, ADMINISTRATIVE, AND MANAGERIAL OCCUPATIONS	390	199	160	33	14	113	31	-	6	44	225	106
OFFICIALS AND ADMINISTRATORS, PUBLIC ADMINISTRATION	31	-	31	13	6	12	-	-	-	-	31	-
MANAGEMENT RELATED OCCUPATIONS	123	92	23	11	-	12	8	-	-	8	85	30
PROFESSIONAL SPECIALTY OCCUPATIONS	372	130	219	18	30	171	23	-	36	42	205	89
ENGINEERS AND NATURAL SCIENTISTS	42	32	10	5	5	-	-	-	-	-	20	22
ENGINEERS	37	32	5	-	5	-	-	-	-	-	15	22
HEALTH DIAGNOSING OCCUPATIONS	21	17	4	-	4	-	-	-	3	6	12	-
HEALTH ASSESSMENT AND TREATING OCCUPATIONS	2	-	2	-	-	2	-	-	-	-	-	2
TEACHERS, LIBRARIANS, AND COUNSELORS	137	21	116	8	7	101	-	-	-	23	96	18
TEACHERS, ELEMENTARY AND SECONDARY SCHOOLS	106	4	102	8	-	94	-	-	-	10	78	18
TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS	475	364	90	47	29	14	21	-	35	69	265	96
HEALTH TECHNOLOGISTS AND TECHNICIANS	6	6	-	-	-	-	-	-	-	6	-	-
TECHNOLOGISTS AND TECHNICIANS, EXCEPT HEALTH	35	27	8	8	-	-	-	-	-	-	28	7
SALES OCCUPATIONS	192	171	-	-	-	-	21	-	17	25	80	69
SUPERVISORS AND PROPRIETORS, SALES OCCUPATIONS	25	17	-	-	-	-	8	-	-	-	13	12
SALES REPRESENTATIVES, COMMODITIES AND FINANCE	87	79	-	-	-	-	8	-	-	8	43	35
OTHER SALES OCCUPATIONS	80	75	-	-	-	-	5	-	17	17	24	22
CASHIERS	16	16	-	-	-	-	-	-	-	3	13	-
ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL	242	160	82	39	29	14	-	-	18	38	157	20
COMPUTER EQUIPMENT OPERATORS	9	9	-	-	-	-	-	-	-	-	9	-
SECRETARIES, STENOGRAPHERS, AND TYPISTS	-	-	-	-	-	-	-	-	-	-	-	-
FINANCIAL RECORDS PROCESSING OCCUPATIONS	23	16	7	-	-	7	-	-	-	-	23	-
MAIL AND MESSAGE DISTRIBUTING OCCUPATIONS	42	16	26	18	8	-	-	-	8	12	22	-
SERVICE OCCUPATIONS	879	601	267	39	65	163	11	-	65	203	456	73
PRIVATE HOUSEHOLD OCCUPATIONS	6	6	-	-	-	-	-	-	-	6	-	-
PROTECTIVE SERVICE OCCUPATIONS	142	58	84	13	32	39	-	-	-	6	96	22
POLICE AND FIREFIGHTERS	26	-	26	-	4	22	-	-	-	-	21	5
SERVICE OCCUPATIONS, EXCEPT PROTECTIVE AND HOUSEHOLD	731	537	183	26	33	124	11	-	65	191	360	51
FOOD SERVICE OCCUPATIONS	186	186	-	-	-	-	-	-	27	66	78	15
CLEANING AND BUILDING SERVICE OCCUPATIONS, EXCEPT HOUSEHOLD	467	303	160	11	33	116	4	-	38	114	246	20
FARMING, FORESTRY, AND FISHING OCCUPATIONS	40	18	22	-	-	22	-	-	-	13	25	2
FARM OPERATORS AND MANAGERS	-	-	-	-	-	-	-	-	-	-	-	-
FARM WORKERS AND RELATED OCCUPATIONS	32	18	14	-	-	14	-	-	-	5	25	2
PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS	768	682	51	8	-	43	35	-	21	40	453	201
MECHANICS AND REPAIRERS	250	207	21	8	-	13	22	-	-	15	176	43
CONSTRUCTION TRADES	151	121	23	-	-	23	7	-	14	12	81	24
PRECISION PRODUCTION OCCUPATIONS	360	347	7	-	-	7	6	-	7	6	196	134
OPERATORS, FABRICATORS, AND LABORERS	2 279	2 179	93	23	12	58	7	-	102	150	1 513	388
MACHINE OPERATORS AND TENDERS, EXCEPT PRECISION	868	849	19	5	7	7	-	-	42	59	613	114
FABRICATORS, ASSEMBLERS, INSPECTORS, AND SAMPLERS	591	574	17	11	-	6	-	-	25	56	344	133
TRANSPORTATION OCCUPATIONS	193	170	23	-	-	23	-	-	12	2	153	26
MOTOR VEHICLE OPERATORS	179	156	23	-	-	23	-	-	12	2	139	26
MATERIAL MOVING EQUIPMENT OPERATORS	225	217	8	-	-	8	-	-	-	-	156	56
HANDLERS, EQUIPMENT CLEANERS, HELPERS, AND LABORERS	402	369	26	7	5	14	7	-	23	33	247	59
CONSTRUCTION LABORERS	86	79	7	7	-	-	-	-	-	12	55	14
FREIGHT, STOCK, AND MATERIAL HANDLERS	80	73	7	-	-	7	-	-	16	7	43	5

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

GRAND RAPIDS, MI SMSA	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY	1 TO 14	15 TO 34	35 TO 40	41+
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	HOURS	HOURS	HOURS	HOURS
BLACK												
FEMALES 16 YEARS AND OVER	5 551	4 012	1 461	197	327	937	78	-	271	962	3 527	481
MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS	733	306	401	45	64	292	26	-	13	122	540	45
EXECUTIVE, ADMINISTRATIVE, AND MANAGERIAL OCCUPATIONS	215	148	59	13	12	34	8	-	-	10	187	18
OFFICIALS AND ADMINISTRATORS, PUBLIC ADMINISTRATION	33	-	33	7	-	26	-	-	-	-	25	8
MANAGEMENT RELATED OCCUPATIONS	76	58	18	6	12	-	-	-	-	-	76	-
PROFESSIONAL SPECIALTY OCCUPATIONS	518	158	342	32	52	258	18	-	13	112	353	27
ENGINEERS AND NATURAL SCIENTISTS	18	18	-	-	-	-	-	-	-	-	9	9
ENGINEERS	9	9	-	-	-	-	-	-	-	-	-	9
HEALTH DIAGNOSING OCCUPATIONS	-	-	-	-	-	-	-	-	-	-	-	-
HEALTH ASSESSMENT AND TREATING OCCUPATIONS	39	34	5	-	5	-	-	-	-	-	28	11
TEACHERS, LIBRARIANS, AND COUNSELORS	356	88	263	23	20	220	5	-	-	99	245	7
TEACHERS, ELEMENTARY AND SECONDARY SCHOOLS	271	74	197	18	5	174	-	-	-	63	196	7
TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS	1 721	1 154	567	108	182	277	-	-	97	309	1 067	156
HEALTH TECHNOLOGISTS AND TECHNICIANS	106	88	18	-	12	6	-	-	-	11	80	-
TECHNOLOGISTS AND TECHNICIANS, EXCEPT HEALTH	44	20	24	-	18	6	-	-	5	6	25	8
SALES OCCUPATIONS	309	295	14	-	-	14	-	-	32	86	156	24
SUPERVISORS AND PROPRIETORS, SALES OCCUPATIONS	9	9	-	-	-	-	-	-	-	9	-	-
SALES REPRESENTATIVES, COMMODITIES AND FINANCE	49	49	-	-	-	-	-	-	-	14	20	15
OTHER SALES OCCUPATIONS	251	237	14	-	-	14	-	-	32	63	136	9
CASHIERS	123	109	14	-	-	14	-	-	26	43	50	4
ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL	1 262	751	511	108	152	251	-	-	60	206	806	124
COMPUTER EQUIPMENT OPERATORS	38	21	17	-	17	-	-	-	-	-	27	5
SECRETARIES, STENOGRAPHERS, AND TYPISTS	383	191	192	28	44	120	-	-	28	56	266	30
FINANCIAL RECORDS PROCESSING OCCUPATIONS	75	69	6	6	-	-	-	-	4	6	59	6
MAIL AND MESSAGE DISTRIBUTING OCCUPATIONS	57	-	57	30	-	27	-	-	-	-	52	5
SERVICE OCCUPATIONS	1 283	882	354	25	72	257	47	-	85	310	719	71
PRIVATE HOUSEHOLD OCCUPATIONS	88	88	-	-	-	-	-	-	24	30	24	4
PROTECTIVE SERVICE OCCUPATIONS	41	13	28	-	9	19	-	-	5	-	36	-
POLICE AND FIREFIGHTERS	13	-	13	-	-	13	-	-	-	-	13	-
SERVICE OCCUPATIONS, EXCEPT PROTECTIVE AND HOUSEHOLD	1 154	781	326	25	63	238	47	-	56	280	659	67
FOOD SERVICE OCCUPATIONS	290	242	48	-	15	33	-	-	30	86	151	-
CLEANING AND BUILDING SERVICE OCCUPATIONS, EXCEPT HOUSEHOLD	320	262	58	14	11	33	-	-	7	66	217	15
FARMING, FORESTRY, AND FISHING OCCUPATIONS	-	-	-	-	-	-	-	-	-	-	-	-
FARM OPERATORS AND MANAGERS	-	-	-	-	-	-	-	-	-	-	-	-
FARM WORKERS AND RELATED OCCUPATIONS	-	-	-	-	-	-	-	-	-	-	-	-
PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS	192	177	15	-	-	15	-	-	5	45	106	23
MECHANICS AND REPAIRERS	30	30	-	-	-	-	-	-	-	7	18	5
CONSTRUCTION TRADES	36	21	15	-	-	15	-	-	5	-	26	-
PRECISION PRODUCTION OCCUPATIONS	126	126	-	-	-	-	-	-	-	38	62	18
OPERATORS, FABRICATORS, AND LABORERS	1 622	1 493	124	19	9	96	5	-	71	176	1 095	186
MACHINE OPERATORS AND TENDERS, EXCEPT PRECISION	701	657	39	-	-	39	5	-	55	104	415	75
FABRICATORS, ASSEMBLERS, INSPECTORS, AND SAMPLERS	687	668	19	13	-	6	-	-	16	48	518	68
TRANSPORTATION OCCUPATIONS	59	-	59	6	9	44	-	-	-	-	41	18
MOTOR VEHICLE OPERATORS	59	-	59	6	9	44	-	-	-	-	41	18
MATERIAL MOVING EQUIPMENT OPERATORS	20	20	-	-	-	-	-	-	-	-	12	8
HANDLERS, EQUIPMENT CLEANERS, HELPERS, AND LABORERS	155	148	7	-	-	7	-	-	-	24	109	17
CONSTRUCTION LABORERS	-	-	-	-	-	-	-	-	-	-	-	-
FREIGHT, STOCK, AND MATERIAL HANDLERS	35	35	-	-	-	-	-	-	-	5	20	5

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

KALAMAZOO-PORTAGE, MI SMSA

	EMPLOYED PERSONS								PERSONS AT WORK			
	TOTAL	PRIV. WAGE AND SALARY WORKERS	GOVERNMENT WORKERS TOTAL	FEDERAL	STATE	LOCAL	SELF-EMPLOYED WORKERS	UNPAID FAMILY WORKERS	1 TO 14 HOURS	15 TO 34 HOURS	35 TO 40 HOURS	41+ HOURS
TOTAL												
MALES 16 YEARS AND OVER	69 781	54 695	9 964	1 332	3 973	4 659	5 000	122	3 413	7 906	32 777	23 922
MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS	16 826	10 801	4 663	297	1 960	2 406	1 362	-	545	959	7 528	7 499
EXECUTIVE, ADMINISTRATIVE, AND MANAGERIAL OCCUPATIONS	8 656	6 828	1 227	144	402	681	601	-	123	365	3 650	4 346
OFFICIALS AND ADMINISTRATORS, PUBLIC ADMINISTRATION	252	5	247	40	30	177	-	-	2	14	167	62
ADMINISTRATORS, EDUCATION AND RELATED FIELDS	524	86	438	-	147	291	-	-	25	23	204	265
MANAGERS, MEDICINE AND HEALTH	99	89	4	-	-	4	6	-	-	6	62	31
OTHER SPECIFIED MANAGERS	1 654	1 472	85	37	32	16	97	-	14	24	673	915
MANAGERS AND ADMINISTRATORS, N.E.C., SALARIED	3 877	3 671	206	12	77	117	-	-	24	165	1 457	2 148
MANUFACTURING	1 586	1 586	-	-	-	-	-	-	-	22	646	894
TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES	140	132	8	6	-	2	-	-	-	5	70	64
WHOLESALE AND RETAIL TRADE	1 004	997	7	-	7	-	-	-	10	49	290	615
ALL OTHER INDUSTRIES	1 147	956	191	6	70	115	-	-	14	89	451	575
MANAGERS AND ADMINISTRATORS, N.E.C., SELF-EMPLOYED	386	-	-	-	-	-	386	-	8	18	85	257
CONSTRUCTION	44	-	-	-	-	-	44	-	5	9	15	13
MANUFACTURING	30	-	-	-	-	-	30	-	-	2	-	22
WHOLESALE AND RETAIL TRADE	188	-	-	-	-	-	188	-	-	4	41	135
ALL OTHER INDUSTRIES	124	-	-	-	-	-	124	-	3	3	29	87
MANAGEMENT RELATED OCCUPATIONS	1 864	1 505	247	55	116	76	112	-	50	115	1 002	668
ACCOUNTANTS AND AUDITORS	793	671	24	5	7	12	98	-	16	52	380	339
BUYERS AND PURCHASING AGENTS	243	209	32	-	11	21	2	-	-	6	162	75
PROFESSIONAL SPECIALTY OCCUPATIONS	8 170	3 973	3 436	153	1 558	1 725	761	-	422	594	3 878	3 153
ENGINEERS, ARCHITECTS, AND SURVEYORS	1 195	1 045	92	17	39	36	58	-	17	30	787	348
ARCHITECTS	85	61	-	-	-	-	24	-	-	-	51	27
ENGINEERS	1 094	975	92	17	39	36	27	-	17	30	723	318
ELECTRICAL AND ELECTRONIC ENGINEERS	154	137	10	2	8	-	7	-	-	5	120	29
MECHANICAL ENGINEERS	258	252	6	-	6	-	-	-	-	-	144	108
OTHER ENGINEERS	682	586	76	15	25	36	20	-	17	25	459	181
SURVEYORS AND MAPPING SCIENTISTS	16	9	-	-	-	-	7	-	-	-	13	3
MATHEMATICAL AND COMPUTER SCIENTISTS	185	155	24	4	6	14	6	-	9	6	98	68
COMPUTER SYSTEMS ANALYSTS AND SCIENTISTS	133	111	22	2	6	14	-	-	9	6	52	62
NATURAL SCIENTISTS	429	373	56	9	43	4	-	-	22	22	281	104
HEALTH DIAGNOSING OCCUPATIONS	732	438	44	12	26	6	250	-	27	32	208	444
PHYSICIANS	495	335	39	7	26	6	121	-	19	14	78	376
DENTISTS	160	63	-	-	-	-	97	-	6	5	94	48
OTHER HEALTH DIAGNOSING PRACTITIONERS	77	40	5	5	-	-	32	-	2	13	36	20
HEALTH ASSESSMENT AND TREATING OCCUPATIONS	371	250	90	7	64	19	31	-	-	24	189	151
REGISTERED NURSES	103	55	37	5	32	-	11	-	-	3	50	48
PHARMACISTS	174	150	8	-	8	-	16	-	-	7	70	92
THERAPISTS	68	39	25	2	11	12	4	-	-	6	56	6
TEACHERS, LIBRARIANS, AND COUNSELORS	3 103	421	2 630	32	1 127	1 471	52	-	231	342	1 499	977
TEACHERS, POSTSECONDARY	1 044	131	913	-	878	35	-	-	100	142	472	322
TEACHERS, ELEMENTARY AND PRE-KINDERGARTEN	999	131	860	10	45	805	8	-	42	73	531	322
TEACHERS, SECONDARY	648	79	569	-	33	536	-	-	24	63	320	231
SOCIAL SCIENTISTS AND URBAN PLANNERS	212	138	72	11	38	23	2	-	-	2	118	92
SOCIAL AND RECREATION WORKERS	317	64	252	46	111	95	1	-	2	36	202	77
RELIGIOUS WORKERS	439	353	7	-	-	7	79	-	10	5	66	358
LAWYERS AND JUDGES	501	213	100	6	54	40	188	-	6	10	163	315
WRITERS, ARTISTS, ENTERTAINERS, AND ATHLETES	686	523	69	9	50	10	94	-	98	85	267	219
TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS	12 558	9 962	1 644	732	647	265	945	7	770	1 448	5 453	4 666
TECHNICIANS AND RELATED SUPPORT OCCUPATIONS	2 220	1 858	343	99	206	38	19	-	111	213	1 213	655
HEALTH TECHNOLOGISTS AND TECHNICIANS	314	263	51	2	42	7	-	-	11	23	148	129
LICENSED PRACTICAL NURSES	50	23	27	-	27	-	-	-	6	9	27	8
ENGINEERING AND SCIENCE TECHNICIANS	1 254	1 141	112	7	84	21	1	-	73	69	779	321
ELECTRICAL AND ELECTRONIC TECHNICIANS	101	82	19	2	17	-	-	-	10	18	52	21
DRAFTING AND SURVEYING TECHNICIANS	393	370	23	-	16	7	-	-	19	25	301	41
TECHNICIANS, EXCEPT HEALTH, ENGINEERING, AND SCIENCE	652	454	180	90	80	10	18	-	27	121	286	205
AIRPLANE PILOTS AND NAVIGATORS	59	42	11	11	-	-	6	-	6	26	18	9
COMPUTER PROGRAMMERS	181	161	20	15	5	-	-	-	-	30	83	57
SALES OCCUPATIONS	6 361	5 413	59	5	46	8	882	7	311	825	2 239	2 905
SUPERVISORS AND PROPRIETORS, SALES OCCUPATIONS	1 253	931	11	5	6	-	306	5	15	70	320	819
SELF-EMPLOYED	311	-	-	-	-	-	306	5	3	29	53	213
SALES REPRESENTATIVES, FINANCE AND BUSINESS SERVICES	1 343	1 026	7	-	-	7	310	-	57	88	610	562
SALES REPRESENTATIVES, COMMODITIES, EXCEPT RETAIL	1 401	1 331	-	-	-	-	70	-	3	60	677	654
SALES WORKERS, RETAIL AND PERSONAL SERVICES	2 361	2 122	41	-	40	1	196	2	236	607	629	870
CASHIERS	319	273	28	-	28	-	18	-	39	197	59	24
SALES RELATED OCCUPATIONS	3	3	-	-	-	-	-	-	-	-	3	-

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

KALAMAZOO-PORTAGE, MI SMSA

	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY	1 TO 14	15 TO 34	35 TO 40	41+
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	HOURS	HOURS	HOURS	HOURS
TOTAL												
ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL	3 977	2 691	1 242	628	395	219	44	-	348	410	2 001	1 106
SUPERVISORS, ADMINISTRATIVE SUPPORT OCCUPATIONS	540	392	141	72	44	25	7	-	13	10	262	239
COMPUTER EQUIPMENT OPERATORS	195	153	39	2	9	28	3	-	6	12	114	58
SECRETARIES, STENOGRAPHERS, AND TYPISTS	71	29	37	8	17	12	5	-	18	-	21	24
SECRETARIES	31	29	2	2	-	-	-	-	9	-	9	5
RECEPTIONISTS	141	17	124	-	115	9	-	-	108	21	7	5
FILE CLERKS	65	60	5	5	-	-	-	-	7	13	39	6
FINANCIAL RECORDS PROCESSING OCCUPATIONS	233	191	28	-	12	16	14	-	37	38	123	35
BOOKKEEPERS, ACCOUNTING, AND AUDITING CLERKS	127	85	28	-	12	16	14	-	24	24	57	22
TELEPHONE OPERATORS	12	12	-	-	-	-	-	-	6	-	6	-
MAIL AND MESSAGE DISTRIBUTING OCCUPATIONS	595	125	470	445	20	5	-	-	30	61	350	134
TRAFFIC, SHIPPING, STOCK AND INVENTORY CLERKS	830	764	66	13	32	21	-	-	9	73	442	280
INSURANCE ADJUSTERS, EXAMINERS, AND INVESTIGATORS	74	66	8	8	-	-	-	-	-	8	44	22
BANK TELLERS	31	31	-	-	-	-	-	-	-	18	13	-
DATA-ENTRY KEYERS	8	8	-	-	-	-	-	-	-	8	-	-
OTHER ADMINISTRATIVE SUPPORT OCCUPATIONS	1 182	843	324	75	146	103	15	-	114	148	580	303
SERVICE OCCUPATIONS	6 777	4 505	2 086	92	865	1 129	186	-	967	1 884	2 512	1 239
PRIVATE HOUSEHOLD OCCUPATIONS	22	22	-	-	-	-	-	-	-	18	-	4
PROTECTIVE SERVICE OCCUPATIONS	1 186	438	742	13	140	589	6	-	36	184	485	433
FIREFIGHTING OCCUPATIONS	133	8	125	7	-	118	-	-	13	2	7	111
POLICE AND DETECTIVES, PUBLIC SERVICE	392	-	392	-	63	329	-	-	-	6	225	151
GUARDS	487	389	92	4	46	42	6	-	23	165	181	92
OTHER PROTECTIVE SERVICE OCCUPATIONS	174	41	133	2	31	100	-	-	-	11	72	79
SERVICE OCCUPATIONS, EXCEPT PROTECTIVE AND HOUSEHOLD	5 569	4 045	1 344	79	725	540	180	-	931	1 682	2 027	802
FOOD PREPARATION AND SERVICE OCCUPATIONS	2 077	1 820	225	5	186	34	32	-	506	984	319	207
WAITERS AND FOOD COUNTER WORKERS	152	152	-	-	-	-	-	-	44	99	9	-
COOKS	842	813	17	5	6	6	12	-	146	470	114	97
HEALTH SERVICE OCCUPATIONS	323	137	186	13	166	7	-	-	5	37	250	31
NURSING AIDES, ORDERLIES, AND ATTENDANTS	290	106	184	13	164	7	-	-	5	15	241	29
CLEANING AND BUILDING SERVICE OCCUPATIONS EXC. HOUSEHOLD	2 730	1 798	869	54	344	471	63	-	349	540	1 287	488
PERSONAL SERVICE OCCUPATIONS	439	290	64	7	29	28	85	-	71	121	171	76
BARBERS, HAIRDRESSERS AND COSMETOLOGISTS	158	81	-	-	-	-	77	-	8	19	87	44
FARMING, FORESTRY, AND FISHING OCCUPATIONS	2 331	1 295	100	16	29	55	905	31	195	475	689	907
FARM OPERATORS AND MANAGERS	1 021	157	6	6	-	-	858	-	62	149	206	587
FARM OCCUPATIONS, EXCEPT MANAGERIAL	823	780	3	-	-	3	9	31	96	195	249	247
RELATED AGRICULTURAL OCCUPATIONS	442	333	90	10	29	51	19	-	37	114	227	64
FORESTRY AND FISHING OCCUPATIONS	45	25	1	-	-	1	19	-	-	17	7	9
PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS	14 204	12 116	700	91	217	392	1 338	50	282	1 120	7 430	4 976
MECHANICS AND REPAIRERS	4 632	3 898	347	55	93	199	362	25	127	282	2 370	1 746
AUTOMOBILE MECHANICS, INCLUDING BODY	1 298	1 028	77	16	4	57	191	2	25	98	598	551
AIRCRAFT MECHANICS	98	67	27	9	18	-	4	-	-	10	71	17
HEATING, AIR CONDITIONING, AND REFRIGERATION MECHANICS	195	145	9	-	9	-	35	6	2	29	89	73
OTHER MECHANICS AND REPAIRERS	3 041	2 658	234	30	62	142	132	17	100	145	1 612	1 105
CONSTRUCTION TRADES	4 294	3 217	250	20	90	140	817	10	127	569	2 453	981
CARPENTERS	1 002	706	33	2	12	19	263	-	36	157	580	194
ELECTRICIANS	621	525	47	6	34	7	49	-	-	53	362	198
PAINTERS, CONSTRUCTION AND MAINTENANCE	371	196	41	2	28	11	127	7	17	87	223	36
PLUMBERS, PIPEFITTERS, AND STEAMFITTERS	573	520	25	-	2	23	28	-	9	32	356	150
OTHER CONSTRUCTION TRADES	1 727	1 270	104	10	14	80	350	3	65	240	932	403
EXTRACTIVE OCCUPATIONS	31	26	-	-	-	-	5	-	-	11	9	2
PRECISION PRODUCTION OCCUPATIONS	5 247	4 975	103	16	34	53	154	15	28	258	2 598	2 247
SUPERVISORS, PRODUCTION OCCUPATIONS	2 418	2 331	76	11	24	41	11	-	9	118	1 122	1 108
MANUFACTURING	1 945	1 945	-	-	-	-	-	-	9	55	880	951
PRECISION METALWORKING OCCUPATIONS	1 927	1 887	-	-	-	-	31	9	14	72	984	817
TOOL AND DIE MAKERS	982	970	-	-	-	-	3	9	-	22	466	473
MACHINISTS	621	612	-	-	-	-	9	-	9	24	312	262
SHEET METAL WORKERS	203	198	-	-	-	-	5	-	5	17	130	46
OTHER PRECISION METAL WORKERS	121	107	-	-	-	-	14	-	-	9	76	36
PRECISION TEXTILE, APPAREL, AND FURNISHINGS MACHINE WORKERS	75	20	2	-	2	-	47	6	-	-	35	34
PLANT AND SYSTEM OPERATORS	211	178	20	-	8	12	13	-	-	11	135	59
OTHER PRECISION PRODUCTION OCCUPATIONS	616	559	5	5	-	-	52	-	5	57	322	229

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

KALAMAZOO-PORTAGE, MI SMSA

	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY	1 TO 14	15 TO 34	35 TO 40	41+
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	HOURS	HOURS	HOURS	HOURS
TOTAL												
OPERATORS, FABRICATORS, AND LABORERS	17 085	16 016	771	104	255	412	264	34	654	2 020	9 165	4 635
MACHINE OPERATORS, ASSEMBLERS, AND INSPECTORS	9 556	9 227	201	38	93	70	94	34	131	749	5 884	2 499
MACHINE OPERATORS AND TENDERS, EXCEPT PRECISION	6 819	6 585	151	16	87	48	52	31	111	560	3 967	1 968
METALWORKING AND PLASTIC WORKING MACHINE OPERATORS	1 607	1 594	-	-	-	-	6	7	18	129	1 011	376
PRINTING MACHINE OPERATORS	723	683	36	-	14	22	4	-	11	84	409	214
TEXTILE, APPAREL, AND FURNISHINGS MACHINE OPERATORS	150	119	4	2	2	-	20	7	7	41	66	32
TEXTILE MACHINE OPERATORS	26	26	-	-	-	-	-	-	-	-	12	14
TEXTILE SEWING MACHINE OPERATORS	7	5	-	-	-	-	-	2	-	7	-	-
LAUNDERING AND DRYCLEANING MACHINE OPERATORS	107	78	4	2	2	-	20	5	7	34	44	18
OTHER SPECIFIED MACHINE OPERATORS	1 860	1 779	57	2	48	7	15	9	23	128	1 072	593
MISCELLANEOUS AND NOT SPECIFIED MACHINE OPERATORS	2 479	2 410	54	12	23	19	7	8	52	178	1 409	753
OCCUPATION:												
MISCELLANEOUS MACHINE OPERATORS, N.E.C.	1 095	1 088	7	-	5	2	-	-	7	53	570	415
MACHINE OPERATORS, NOT SPECIFIED	1 384	1 322	47	12	18	17	7	8	45	125	839	338
INDUSTRY:												
MANUFACTURING	2 323	2 303	13	6	5	2	7	-	45	171	1 301	727
NONDURABLE GOODS	1 444	1 433	11	6	5	-	-	-	21	113	761	499
FOOD AND KINDRED PRODUCTS	117	117	-	-	-	-	-	-	-	9	71	35
TEXTILE MILL AND FINISHED TEXTILE PRODUCTS	10	10	-	-	-	-	-	-	-	-	10	-
PAPER AND ALLIED PRODUCTS	965	954	11	6	5	-	-	-	14	77	470	361
OTHER NONDURABLE GOODS	352	352	-	-	-	-	-	-	7	27	210	103
DURABLE GOODS, INCLUDING NOT SPECIFIED MFG	879	870	2	-	-	2	7	-	24	58	540	228
METAL INDUSTRIES	188	188	-	-	-	-	-	-	-	30	97	54
MACHINERY, INCLUDING ELECTRICAL	279	272	-	-	-	-	7	-	2	17	157	97
TRANSPORTATION EQUIPMENT	261	259	2	-	-	2	-	-	8	5	194	46
OTHER DURABLE GOODS	151	151	-	-	-	-	-	-	14	6	92	31
NONMANUFACTURING INDUSTRIES	156	107	41	6	18	17	-	8	7	7	108	26
TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES	35	22	13	6	5	2	-	-	-	-	24	11
WHOLESALE AND RETAIL TRADE	62	52	2	-	-	2	-	8	-	-	60	-
ALL OTHER INDUSTRIES	59	33	26	-	13	13	-	-	7	7	24	15
FABRICATORS, ASSEMBLERS, AND HAND WORKING OCCUPATIONS	1 902	1 838	21	5	-	16	40	3	18	148	1 355	337
WELDERS AND CUTTERS	929	904	6	4	-	2	16	3	12	70	640	183
ASSEMBLERS	905	886	15	1	-	14	4	-	6	57	680	142
OTHER FABRICATORS AND HAND WORKING OCCUPATIONS	68	48	-	-	-	-	20	-	-	21	35	12
PRODUCTION INSPECTORS, TESTERS, SAMPLERS, AND WEIGHERS	835	804	29	17	6	6	2	-	2	41	562	194
TRANSPORTATION AND MATERIAL MOVING OCCUPATIONS	4 109	3 548	416	32	101	283	145	-	170	416	1 825	1 509
MOTOR VEHICLE OPERATORS	2 740	2 389	244	10	47	187	107	-	116	327	1 003	1 180
TRUCK DRIVERS AND DRIVER-SALES WORKERS	2 406	2 205	97	10	23	64	104	-	69	244	906	1 081
BUS DRIVERS	167	48	116	-	15	101	3	-	13	64	61	27
RAIL AND WATER TRANSPORTATION OCCUPATIONS	108	88	20	20	-	-	-	-	10	2	57	31
MATERIAL MOVING EQUIPMENT OPERATORS	1 261	1 071	152	2	54	96	38	-	44	87	765	298
EXCAVATING, GRADING, AND DOZER MACHINE OPERATORS	111	69	30	-	7	23	12	-	4	7	57	43
HANDLERS, EQUIPMENT CLEANERS, HELPERS, AND LABORERS	3 420	3 241	154	34	61	59	25	-	353	855	1 456	627
CONSTRUCTION LABORERS	585	524	61	7	15	39	-	-	56	61	366	86
FREIGHT, STOCK, AND MATERIAL HANDLERS	1 227	1 184	35	19	16	-	8	-	153	505	368	161
GARAGE AND SERVICE STATION RELATED OCCUPATIONS	303	289	14	-	9	5	-	-	29	125	66	77
HAND PACKERS AND PACKAGERS	234	234	-	-	-	-	-	-	10	31	105	84
OTHER SPECIFIED HANDLERS, EQUIPMENT CLEANERS, AND HELPERS	350	323	10	2	8	-	17	-	43	50	168	79
LABORERS, EXCEPT CONSTRUCTION	721	687	34	6	13	15	-	-	62	83	383	140
MANUFACTURING	378	378	-	-	-	-	-	-	22	26	216	91
NONDURABLE GOODS	211	211	-	-	-	-	-	-	15	20	94	65
DURABLE GOODS, INCLUDING NOT SPECIFIED MFG	167	167	-	-	-	-	-	-	7	6	122	26
METAL INDUSTRIES	47	47	-	-	-	-	-	-	7	-	33	7
NONMANUFACTURING INDUSTRIES	343	309	34	6	13	15	-	-	40	57	167	49
TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES	42	36	6	-	-	6	-	-	-	8	14	14
WHOLESALE AND RETAIL TRADE	165	158	7	-	7	-	-	-	12	9	104	22
ALL OTHER INDUSTRIES	136	115	21	6	6	9	-	-	28	40	49	13

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

KALAMAZOO-PORTAGE, MI SMSA

	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY				
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	1 TO 14 HOURS	15 TO 34 HOURS	35 TO 40 HOURS	41+ HOURS
TOTAL												
FEMALES 16 YEARS AND OVER	54 428	40 929	11 268	855	3 864	6 549	1 853	378	5 767	14 000	25 736	7 031
MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS	12 027	6 473	4 968	166	1 382	3 420	516	70	1 034	2 256	6 074	2 336
EXECUTIVE, ADMINISTRATIVE, AND MANAGERIAL OCCUPATIONS	3 379	2 467	667	45	283	339	197	48	121	473	1 782	924
OFFICIALS AND ADMINISTRATORS, PUBLIC ADMINISTRATION	101	-	101	5	16	80	-	-	7	40	32	22
ADMINISTRATORS, EDUCATION AND RELATED FIELDS	304	111	193	-	86	107	-	-	28	26	171	79
MANAGERS, MEDICINE AND HEALTH	42	37	2	2	-	-	3	-	1	4	26	11
OTHER SPECIFIED MANAGERS	464	410	25	10	3	12	29	-	-	45	255	139
MANAGERS AND ADMINISTRATORS, N.E.C., SALARIED	1 176	1 041	135	5	77	53	-	-	46	156	555	381
MANUFACTURING	89	89	-	-	-	-	-	-	-	-	53	36
TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES	13	13	-	-	-	-	-	-	-	-	2	11
WHOLESALE AND RETAIL TRADE	450	450	-	-	-	-	-	-	11	67	169	178
ALL OTHER INDUSTRIES	624	489	135	5	77	53	-	-	35	89	331	156
MANAGERS AND ADMINISTRATORS, N.E.C., SELF-EMPLOYED	175	-	-	-	-	-	134	41	2	68	46	59
CONSTRUCTION	1	-	-	-	-	-	-	1	-	1	-	-
MANUFACTURING	13	-	-	-	-	-	7	6	-	4	4	5
WHOLESALE AND RETAIL TRADE	107	-	-	-	-	-	80	27	-	32	29	46
ALL OTHER INDUSTRIES	54	-	-	-	-	-	47	7	2	31	13	8
MANAGEMENT RELATED OCCUPATIONS	1 117	868	211	23	101	87	31	7	37	134	697	233
ACCOUNTANTS AND AUDITORS	503	409	65	5	14	46	22	7	15	68	294	121
BUYERS AND PURCHASING AGENTS	159	143	16	-	16	-	-	-	-	23	107	29
PROFESSIONAL SPECIALTY OCCUPATIONS	8 648	4 006	4 301	121	1 099	3 081	319	22	913	1 783	4 292	1 412
ENGINEERS, ARCHITECTS, AND SURVEYORS	39	39	-	-	-	-	-	-	-	-	29	10
ARCHITECTS	4	4	-	-	-	-	-	-	-	-	4	-
ENGINEERS	35	35	-	-	-	-	-	-	-	-	25	10
ELECTRICAL AND ELECTRONIC ENGINEERS	5	5	-	-	-	-	-	-	-	-	5	-
MECHANICAL ENGINEERS	-	-	-	-	-	-	-	-	-	-	-	-
OTHER ENGINEERS	30	30	-	-	-	-	-	-	-	-	20	10
SURVEYORS AND MAPPING SCIENTISTS	-	-	-	-	-	-	-	-	-	-	-	-
MATHEMATICAL AND COMPUTER SCIENTISTS	16	12	4	4	-	-	-	-	-	-	16	-
COMPUTER SYSTEMS ANALYSTS AND SCIENTISTS	10	10	-	-	-	-	-	-	-	-	10	-
NATURAL SCIENTISTS	202	202	-	-	-	-	-	-	8	-	109	85
HEALTH DIAGNOSING OCCUPATIONS	68	39	12	7	5	-	15	2	5	7	23	28
PHYSICIANS	56	32	12	7	5	-	10	2	5	7	18	21
DENTISTS	-	-	-	-	-	-	-	-	-	-	-	-
OTHER HEALTH DIAGNOSING PRACTITIONERS	12	7	-	-	-	-	5	-	-	-	5	7
HEALTH ASSESSMENT AND TREATING OCCUPATIONS	2 287	1 903	354	55	134	165	30	-	109	628	1 104	343
REGISTERED NURSES	1 778	1 544	212	45	89	78	22	-	68	508	861	265
PHARMACISTS	85	83	-	-	-	-	2	-	-	21	36	28
THERAPISTS	341	203	132	6	45	81	6	-	41	85	172	23
TEACHERS, LIBRARIANS, AND COUNSELORS	4 619	1 018	3 457	20	739	2 698	144	-	608	878	2 357	687
TEACHERS, POSTSECONDARY	632	182	450	-	381	69	-	-	164	152	169	140
TEACHERS, ELEMENTARY AND PRE-KINDERGARTEN	2 538	433	2 104	13	110	1 981	1	-	208	409	1 469	415
TEACHERS, SECONDARY	524	89	435	2	42	391	-	-	32	63	355	72
SOCIAL SCIENTISTS AND URBAN PLANNERS	94	40	48	-	6	42	6	-	-	17	65	12
SOCIAL AND RECREATION WORKERS	556	165	376	21	192	163	15	-	17	81	346	110
RELIGIOUS WORKERS	50	45	5	-	-	5	-	-	9	7	11	23
LAWYERS AND JUDGES	35	21	8	8	-	-	6	-	-	10	12	13
WRITERS, ARTISTS, ENTERTAINERS, AND ATHLETES	682	522	37	6	23	8	103	20	157	155	220	101
TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS	23 612	19 014	3 904	616	1 551	1 737	493	201	2 365	6 014	11 962	2 554
TECHNICIANS AND RELATED SUPPORT OCCUPATIONS	2 131	1 875	242	25	130	87	7	7	124	595	1 121	224
HEALTH TECHNOLOGISTS AND TECHNICIANS	1 399	1 275	124	3	65	56	-	-	72	466	734	78
LICENSED PRACTICAL NURSES	660	582	78	3	46	29	-	-	30	243	320	40
ENGINEERING AND SCIENCE TECHNICIANS	413	381	25	2	17	6	-	7	19	35	248	101
ELECTRICAL AND ELECTRONIC TECHNICIANS	22	20	2	2	-	-	-	-	-	8	7	5
DRAFTING AND SURVEYING TECHNICIANS	50	43	-	-	-	-	-	7	-	16	28	6
TECHNICIANS, EXCEPT HEALTH, ENGINEERING, AND SCIENCE	319	219	93	20	48	25	7	-	33	94	139	45
AIRPLANE PILOTS AND NAVIGATORS	-	-	-	-	-	-	-	-	-	-	-	-
COMPUTER PROGRAMMERS	131	105	19	4	11	4	7	-	-	49	63	11
SALES OCCUPATIONS	6 134	5 586	156	12	68	76	329	63	896	2 358	2 035	617
SUPERVISORS AND PROPRIETORS, SALES OCCUPATIONS	519	409	6	-	6	-	79	25	-	95	278	140
SELF-EMPLOYED	104	-	-	-	-	-	79	25	-	30	30	38
SALES REPRESENTATIVES, FINANCE AND BUSINESS SERVICES	648	553	10	6	4	-	80	5	38	136	345	127
SALES REPRESENTATIVES, COMMODITIES, EXCEPT RETAIL	309	276	-	-	-	-	27	6	9	31	200	57
SALES WORKERS, RETAIL AND PERSONAL SERVICES	4 653	4 343	140	6	58	76	143	27	847	2 096	1 209	293
CASHIERS	1 926	1 768	134	6	58	70	17	7	265	938	498	138
SALES RELATED OCCUPATIONS	5	5	-	-	-	-	-	-	2	-	3	-

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

KALAMAZOO-PORTAGE, MI SMSA

	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY	1 TO 14	15 TO 34	35 TO 40	41+
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	HOURS	HOURS	HOURS	HOURS
TOTAL												
ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL	15 347	11 553	3 506	579	1 353	1 574	157	131	1 345	3 061	8 806	1 713
SUPERVISORS, ADMINISTRATIVE SUPPORT OCCUPATIONS	441	373	68	15	23	30	-	-	2	42	258	131
COMPUTER EQUIPMENT OPERATORS	228	183	45	11	21	13	-	-	-	34	130	64
SECRETARIES, STENOGRAPHERS, AND TYPISTS	5 765	4 265	1 440	73	621	746	31	29	405	1 127	3 622	531
SECRETARIES	5 058	3 820	1 185	37	514	634	24	29	272	1 004	3 259	451
RECEPTIONISTS	951	703	226	36	147	43	6	16	238	258	395	34
FILE CLERKS	244	182	62	8	43	11	-	-	60	41	107	36
FINANCIAL RECORDS PROCESSING OCCUPATIONS	2 259	1 870	272	20	82	170	56	61	128	383	1 354	325
BOOKKEEPERS, ACCOUNTING, AND AUDITING CLERKS	1 744	1 442	187	5	65	117	54	61	118	297	1 024	247
TELEPHONE OPERATORS	241	211	30	-	14	16	-	-	28	60	134	13
MAIL AND MESSAGE DISTRIBUTING OCCUPATIONS	444	129	298	276	22	-	6	11	40	131	209	33
TRAFFIC, SHIPPING, STOCK AND INVENTORY CLERKS	431	390	41	14	11	16	-	-	28	71	254	48
INSURANCE ADJUSTERS, EXAMINERS, AND INVESTIGATORS	88	88	-	-	-	-	-	-	-	7	67	-
BANK TELLERS	563	560	3	1	-	2	-	-	16	102	361	70
DATA-ENTRY KEYERS	315	287	28	-	28	-	-	-	15	51	193	32
OTHER ADMINISTRATIVE SUPPORT OCCUPATIONS	3 377	2 312	993	125	341	527	58	14	385	754	1 722	396
SERVICE OCCUPATIONS	10 622	8 235	1 863	38	839	986	503	21	1 904	4 061	3 280	958
PRIVATE HOUSEHOLD OCCUPATIONS	609	609	-	-	-	-	-	-	234	207	89	52
PROTECTIVE SERVICE OCCUPATIONS	259	103	156	-	20	136	-	-	41	40	119	59
FIREFIGHTING OCCUPATIONS	-	-	-	-	-	-	-	-	-	-	-	-
POLICE AND DETECTIVES, PUBLIC SERVICE	44	-	44	-	6	38	-	-	-	-	21	23
GUARDS	144	103	41	-	8	33	-	-	35	40	51	18
OTHER PROTECTIVE SERVICE OCCUPATIONS	71	-	71	-	6	65	-	-	6	-	47	18
SERVICE OCCUPATIONS, EXCEPT PROTECTIVE AND HOUSEHOLD	9 754	7 523	1 707	38	819	850	503	21	1 629	3 814	3 072	847
FOOD PREPARATION AND SERVICE OCCUPATIONS	4 629	3 955	628	9	300	319	34	12	999	2 164	995	307
WAITERS AND FOOD COUNTER WORKERS	2 237	2 213	-	-	-	-	14	10	448	1 295	318	113
COOKS	872	620	240	-	85	155	10	2	75	346	329	80
HEALTH SERVICE OCCUPATIONS	2 257	1 850	385	15	278	92	22	-	135	692	1 064	266
NURSING AIDES, ORDERLIES, AND ATTENDANTS	1 683	1 305	356	11	258	87	22	-	107	521	748	216
CLEANING AND BUILDING SERVICE OCCUPATIONS EXC. HOUSEHOLD	1 212	870	313	14	176	123	24	5	133	366	585	51
PERSONAL SERVICE OCCUPATIONS	1 656	848	381	-	65	316	423	4	362	592	428	223
BARBERS, HAIRDRESSERS AND COSMETOLOGISTS	509	330	-	-	-	-	179	-	44	258	135	60
FARMING, FORESTRY, AND FISHING OCCUPATIONS	1 020	734	40	-	31	9	194	52	107	329	390	174
FARM OPERATORS AND MANAGERS	206	37	6	-	6	-	163	-	14	64	63	59
FARM OCCUPATIONS, EXCEPT MANAGERIAL	637	583	-	-	-	-	2	52	63	217	246	99
RELATED AGRICULTURAL OCCUPATIONS	170	114	34	-	25	9	22	-	30	41	81	16
FORESTRY AND FISHING OCCUPATIONS	7	-	-	-	-	-	7	-	-	7	-	-
PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS	890	793	23	-	8	15	53	21	27	175	453	197
MECHANICS AND REPAIRERS	118	112	2	-	-	2	4	-	8	8	81	15
AUTOMOBILE MECHANICS, INCLUDING BODY	17	13	-	-	-	-	4	-	-	4	7	-
AIRCRAFT MECHANICS	-	-	-	-	-	-	-	-	-	-	-	-
HEATING, AIR CONDITIONING, AND REFRIGERATION MECHANICS	-	-	-	-	-	-	-	-	-	-	-	-
OTHER MECHANICS AND REPAIRERS	101	99	2	-	-	2	-	-	8	4	74	15
CONSTRUCTION TRADES	56	36	5	-	-	5	2	13	-	11	34	5
CARPENTERS	11	11	-	-	-	-	-	-	-	-	5	-
ELECTRICIANS	-	-	-	-	-	-	-	-	-	-	-	-
PAINTERS, CONSTRUCTION AND MAINTENANCE	20	9	-	-	-	-	2	9	-	9	11	-
PLUMBERS, PIPEFITTERS, AND STEAMFITTERS	13	8	5	-	-	5	-	-	-	-	8	5
OTHER CONSTRUCTION TRADES	12	8	-	-	-	-	-	4	-	2	10	-
EXTRACTIVE OCCUPATIONS	-	-	-	-	-	-	-	-	-	-	-	-
PRECISION PRODUCTION OCCUPATIONS	716	645	16	-	8	8	47	8	19	156	338	177
SUPERVISORS, PRODUCTION OCCUPATIONS	297	286	5	-	-	5	6	-	-	41	130	120
MANUFACTURING	186	186	-	-	-	-	-	-	-	20	80	80
PRECISION METALWORKING OCCUPATIONS	71	71	-	-	-	-	-	-	-	18	37	2
TOOL AND DIE MAKERS	2	2	-	-	-	-	-	-	-	-	2	-
MACHINISTS	37	37	-	-	-	-	-	-	-	-	21	2
SHEET METAL WORKERS	6	6	-	-	-	-	-	-	-	-	6	-
OTHER PRECISION METAL WORKERS	26	26	-	-	-	-	-	-	-	18	8	-
PRECISION TEXTILE, APPAREL, AND FURNISHINGS MACHINE WORKERS	137	87	2	-	2	-	40	8	19	43	55	18
PLANT AND SYSTEM OPERATORS	5	2	3	-	-	3	-	-	-	-	3	2
OTHER PRECISION PRODUCTION OCCUPATIONS	206	199	6	-	6	-	1	-	-	54	113	35

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

KALAMAZOO-PORTAGE, MI SMSA

	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY	1 TO 14	15 TO 34	35 TO 40	41+
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	HOURS	HOURS	HOURS	HOURS
TOTAL												
OPERATORS, FABRICATORS, AND LABORERS	6 257	5 680	470	35	53	382	94	13	330	1 165	3 577	812
MACHINE OPERATORS, ASSEMBLERS, AND INSPECTORS	4 254	4 092	81	-	9	72	70	11	175	641	2 663	535
MACHINE OPERATORS AND TENDERS, EXCEPT PRECISION	2 646	2 516	54	-	6	48	65	11	111	461	1 651	279
METALWORKING AND PLASTIC WORKING MACHINE OPERATORS	463	438	17	-	-	17	8	-	5	68	359	8
PRINTING MACHINE OPERATORS	145	129	6	-	-	6	10	-	2	39	75	23
TEXTILE, APPAREL, AND FURNISHINGS MACHINE OPERATORS	372	312	27	-	6	21	33	-	41	104	201	24
TEXTILE MACHINE OPERATORS	12	3	-	-	-	-	9	-	9	-	3	-
TEXTILE SEWING MACHINE OPERATORS	65	38	6	-	6	-	21	-	6	27	26	6
LAUNDERING AND DRYCLEANING MACHINE OPERATORS	238	214	21	-	-	21	3	-	26	72	125	13
OTHER SPECIFIED MACHINE OPERATORS	655	631	2	-	-	2	11	11	49	96	407	61
MISCELLANEOUS AND NOT SPECIFIED MACHINE OPERATORS	1 011	1 006	2	-	-	2	3	-	14	154	609	163
OCCUPATION:												
MISCELLANEOUS MACHINE OPERATORS, N.E.C.	184	181	-	-	-	-	3	-	-	41	97	39
MACHINE OPERATORS, NOT SPECIFIED	827	825	2	-	-	2	-	-	14	113	512	124
INDUSTRY:												
MANUFACTURING	957	957	-	-	-	-	-	-	7	118	603	158
NONDURABLE GOODS	674	674	-	-	-	-	-	-	-	98	413	125
FOOD AND KINDRED PRODUCTS	68	68	-	-	-	-	-	-	-	1	47	13
TEXTILE MILL AND FINISHED TEXTILE PRODUCTS	9	9	-	-	-	-	-	-	-	5	4	-
PAPER AND ALLIED PRODUCTS	148	148	-	-	-	-	-	-	-	12	75	60
OTHER NONDURABLE GOODS	449	449	-	-	-	-	-	-	-	80	287	52
DURABLE GOODS, INCLUDING NOT SPECIFIED MFG	283	283	-	-	-	-	-	-	7	20	190	33
METAL INDUSTRIES	68	68	-	-	-	-	-	-	2	11	45	10
MACHINERY, INCLUDING ELECTRICAL	62	62	-	-	-	-	-	-	-	2	46	9
TRANSPORTATION EQUIPMENT	102	102	-	-	-	-	-	-	5	5	50	14
OTHER DURABLE GOODS	51	51	-	-	-	-	-	-	-	2	49	-
NONMANUFACTURING INDUSTRIES	54	49	2	-	-	2	3	-	7	36	6	5
TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES	-	-	-	-	-	-	-	-	-	-	-	-
WHOLESALE AND RETAIL TRADE	10	7	-	-	-	-	3	-	-	7	-	3
ALL OTHER INDUSTRIES	44	42	2	-	-	2	-	-	7	29	6	2
FABRICATORS, ASSEMBLERS, AND HAND WORKING OCCUPATIONS	923	893	25	-	3	22	5	-	39	108	606	109
WELDERS AND CUTTERS	69	69	-	-	-	-	-	-	-	13	48	2
ASSEMBLERS	810	782	25	-	3	22	3	-	35	88	527	105
OTHER FABRICATORS AND HAND WORKING OCCUPATIONS	44	42	-	-	-	-	2	-	4	7	31	2
PRODUCTION INSPECTORS, TESTERS, SAMPLERS, AND WEIGHERS	685	683	2	-	-	2	-	-	25	72	406	147
TRANSPORTATION AND MATERIAL MOVING OCCUPATIONS	610	252	344	15	40	289	14	-	52	267	156	90
MOTOR VEHICLE OPERATORS	534	178	342	15	40	287	14	-	46	259	131	55
TRUCK DRIVERS AND DRIVER-SALES WORKERS	156	115	27	9	16	2	14	-	11	41	49	51
BUS DRIVERS	350	60	290	6	24	260	-	-	35	213	67	4
RAIL AND WATER TRANSPORTATION OCCUPATIONS	-	-	-	-	-	-	-	-	-	-	-	-
MATERIAL MOVING EQUIPMENT OPERATORS	76	74	2	-	-	2	-	-	6	8	25	35
EXCAVATING, GRADING, AND DOZER MACHINE OPERATORS	-	-	-	-	-	-	-	-	-	-	-	-
HANDLERS, EQUIPMENT CLEANERS, HELPERS, AND LABORERS	1 393	1 336	45	20	4	21	10	2	103	257	758	187
CONSTRUCTION LABORERS	11	9	2	-	2	-	-	-	-	-	2	-
FREIGHT, STOCK, AND MATERIAL HANDLERS	280	264	16	14	2	-	-	-	20	90	137	26
GARAGE AND SERVICE STATION RELATED OCCUPATIONS	32	30	-	-	-	-	2	-	-	13	17	2
HAND PACKERS AND PACKAGERS	625	612	13	-	-	13	-	-	21	93	367	101
OTHER SPECIFIED HANDLERS, EQUIPMENT CLEANERS, AND HELPERS	79	77	-	-	-	-	2	-	5	11	44	19
LABORERS, EXCEPT CONSTRUCTION	366	344	14	6	-	8	6	2	57	50	191	39
MANUFACTURING	243	235	8	-	-	8	-	-	20	20	144	30
NONDURABLE GOODS	174	172	2	-	-	2	-	-	14	20	99	25
DURABLE GOODS, INCLUDING NOT SPECIFIED MFG	69	63	6	-	-	6	-	-	6	-	45	5
METAL INDUSTRIES	19	13	6	-	-	6	-	-	6	-	2	5
NONMANUFACTURING INDUSTRIES	123	109	6	6	-	-	6	2	37	30	47	9
TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES	8	6	2	2	-	-	-	-	2	-	6	-
WHOLESALE AND RETAIL TRADE	36	34	-	-	-	-	-	2	7	8	21	-
ALL OTHER INDUSTRIES	79	69	4	4	-	-	6	-	28	22	20	9

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

LANSING-EAST LANSING, MI SMSA

	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY				
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	1 TO 14 HOURS	15 TO 34 HOURS	35 TO 40 HOURS	41+ HOURS
TOTAL												
MALES 16 YEARS AND OVER	117 383	80 631	28 331	2 242	17 550	8 539	8 151	270	5 787	14 264	55 915	37 774
MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS	28 462	13 410	12 993	673	8 559	3 761	2 019	40	954	2 115	13 616	11 202
EXECUTIVE, ADMINISTRATIVE, AND MANAGERIAL OCCUPATIONS	13 269	7 659	4 684	358	3 115	1 211	902	24	213	521	6 439	5 798
OFFICIALS AND ADMINISTRATORS, PUBLIC ADMINISTRATION	1 255	-	1 255	96	906	253	-	-	21	45	881	277
ADMINISTRATORS, EDUCATION AND RELATED FIELDS	1 042	174	868	5	413	450	-	-	37	45	472	481
MANAGERS, MEDICINE AND HEALTH	113	64	49	-	31	18	-	-	-	12	56	45
OTHER SPECIFIED MANAGERS	2 145	1 813	252	55	122	75	80	-	6	70	931	1 106
MANAGERS AND ADMINISTRATORS, N.E.C., SALARIED	4 766	3 990	776	39	536	201	-	-	74	168	1 923	2 449
MANUFACTURING	980	980	-	-	-	-	-	-	2	6	383	564
TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES	293	229	64	-	20	44	-	-	-	10	100	166
WHOLESALE AND RETAIL TRADE	1 353	1 346	7	-	7	-	-	-	15	64	369	871
ALL OTHER INDUSTRIES	2 140	1 435	705	39	509	157	-	-	57	88	1 071	848
MANAGERS AND ADMINISTRATORS, N.E.C., SELF-EMPLOYED	678	-	-	-	-	-	658	20	24	38	235	360
CONSTRUCTION	126	-	-	-	-	-	126	-	7	13	70	28
MANUFACTURING	65	-	-	-	-	-	65	-	-	5	21	33
WHOLESALE AND RETAIL TRADE	278	-	-	-	-	-	265	13	10	16	55	190
ALL OTHER INDUSTRIES	209	-	-	-	-	-	202	7	7	4	89	109
MANAGEMENT RELATED OCCUPATIONS	3 270	1 618	1 484	163	1 107	214	164	4	51	143	1 941	1 080
ACCOUNTANTS AND AUDITORS	1 341	669	599	40	493	66	73	-	6	42	849	422
BUYERS AND PURCHASING AGENTS	357	258	72	24	34	14	23	4	7	14	213	104
PROFESSIONAL SPECIALTY OCCUPATIONS	15 193	5 751	8 309	315	5 444	2 550	1 117	16	741	1 594	7 177	5 404
ENGINEERS, ARCHITECTS, AND SURVEYORS	2 488	1 657	791	41	654	96	40	-	19	94	1 606	718
ARCHITECTS	159	91	33	-	26	7	35	-	-	13	97	42
ENGINEERS	2 269	1 537	730	41	606	83	2	-	19	81	1 470	655
ELECTRICAL AND ELECTRONIC ENGINEERS	184	134	50	5	35	10	-	-	-	5	115	64
MECHANICAL ENGINEERS	694	668	26	-	20	6	-	-	7	12	349	310
OTHER ENGINEERS	1 391	735	654	36	551	67	2	-	12	64	1 006	281
SURVEYORS AND MAPPING SCIENTISTS	60	29	28	-	22	6	3	-	-	-	39	21
MATHEMATICAL AND COMPUTER SCIENTISTS	591	195	396	24	343	29	-	-	-	31	438	118
COMPUTER SYSTEMS ANALYSTS AND SCIENTISTS	407	132	275	11	247	17	-	-	-	19	314	72
NATURAL SCIENTISTS	589	185	393	75	308	10	11	-	14	47	351	170
HEALTH DIAGNOSING OCCUPATIONS	1 201	705	147	6	135	6	349	-	10	70	384	671
PHYSICIANS	674	470	93	-	87	6	111	-	10	32	83	501
DENTISTS	308	144	14	-	14	-	150	-	-	38	184	73
OTHER HEALTH DIAGNOSING PRACTITIONERS	219	91	40	6	34	-	88	-	-	-	117	97
HEALTH ASSESSMENT AND TREATING OCCUPATIONS	445	307	119	6	61	52	19	-	2	50	161	226
REGISTERED NURSES	85	60	25	-	16	9	-	-	-	9	33	37
PHARMACISTS	165	134	16	-	14	2	15	-	2	12	50	101
THERAPISTS	126	91	31	-	11	20	4	-	-	24	56	46
TEACHERS, LIBRARIANS, AND COUNSELORS	5 735	788	4 904	91	2 725	2 088	43	-	463	832	2 383	1 972
TEACHERS, POSTSECONDARY	2 847	350	2 497	49	2 304	144	-	-	285	529	887	1 098
TEACHERS, ELEMENTARY AND PRE-KINDERGARTEN	1 361	198	1 163	4	76	1 083	-	-	32	105	767	441
TEACHERS, SECONDARY	791	50	741	-	21	720	-	-	37	34	430	273
SOCIAL SCIENTISTS AND URBAN PLANNERS	406	144	249	12	161	76	13	-	25	63	175	141
SOCIAL AND RECREATION WORKERS	490	77	408	5	307	96	5	-	14	35	319	119
RELIGIOUS WORKERS	489	419	-	-	-	-	70	-	7	29	89	364
LAWYERS AND JUDGES	1 094	375	481	29	402	50	238	-	21	108	539	408
WRITERS, ARTISTS, ENTERTAINERS, AND ATHLETES	1 665	899	421	26	348	47	329	16	166	235	732	497
TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS	21 924	14 351	6 226	1 084	4 475	667	1 320	27	1 275	2 859	9 657	7 554
TECHNICIANS AND RELATED SUPPORT OCCUPATIONS	4 105	1 852	2 232	112	1 899	221	21	-	364	668	2 095	902
HEALTH TECHNOLOGISTS AND TECHNICIANS	336	188	148	9	81	58	-	-	28	44	168	96
LICENSED PRACTICAL NURSES	16	6	10	2	7	1	-	-	-	1	9	6
ENGINEERING AND SCIENCE TECHNICIANS	1 772	1 012	759	30	632	97	1	-	121	187	1 000	439
ELECTRICAL AND ELECTRONIC TECHNICIANS	194	114	80	8	48	24	-	-	-	17	128	49
DRAFTING AND SURVEYING TECHNICIANS	698	423	274	2	236	36	1	-	-	55	463	162
TECHNICIANS, EXCEPT HEALTH, ENGINEERING, AND SCIENCE	1 997	652	1 325	73	1 186	66	20	-	215	437	927	367
AIRPLANE PILOTS AND NAVIGATORS	56	24	30	-	25	5	2	-	-	4	40	10
COMPUTER PROGRAMMERS	668	353	303	-	294	9	12	-	67	68	401	125
SALES OCCUPATIONS	9 723	8 296	178	5	155	18	1 236	13	466	1 196	3 029	4 776
SUPERVISORS AND PROPRIETORS, SALES OCCUPATIONS	1 969	1 620	9	-	9	-	340	-	36	48	421	1 436
SELF-EMPLOYED	340	-	-	-	-	-	340	-	11	16	33	271
SALES REPRESENTATIVES, FINANCE AND BUSINESS SERVICES	2 284	1 816	62	5	51	6	406	-	74	162	951	1 060
SALES REPRESENTATIVES, COMMODITIES, EXCEPT RETAIL	1 721	1 531	-	-	-	-	190	-	12	75	649	946
SALES WORKERS, RETAIL AND PERSONAL SERVICES	3 717	3 314	97	-	85	12	293	13	344	905	997	1 319
CASHIERS	845	770	59	-	52	7	16	-	87	441	160	133
SALES RELATED OCCUPATIONS	32	15	10	-	10	-	7	-	-	6	11	15

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

LANSING-EAST LANSING, MI SMSA

	EMPLOYED PERSONS								PERSONS AT WORK			
	TOTAL	PRIV. WAGE AND SALARY WORKERS	GOVERNMENT WORKERS TOTAL	FEDERAL	STATE	LOCAL	SELF-EMPLOYED WORKERS	UNPAID FAMILY WORKERS	1 TO 14 HOURS	15 TO 34 HOURS	35 TO 40 HOURS	41+ HOURS
TOTAL												
ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL	8 096	4 203	3 816	967	2 421	428	63	14	445	995	4 533	1 876
SUPERVISORS, ADMINISTRATIVE SUPPORT OCCUPATIONS	1 825	741	1 078	143	827	108	6	-	6	72	1 267	439
COMPUTER EQUIPMENT OPERATORS	468	272	183	5	172	6	6	7	7	61	274	115
SECRETARIES, STENOGRAPHERS, AND TYPISTS	156	69	81	2	65	14	6	-	5	32	99	20
SECRETARIES	99	47	52	-	38	14	-	-	-	21	68	10
RECEPTIONISTS	222	53	168	-	166	2	1	-	79	110	33	-
FILE CLERKS	88	55	33	8	25	-	-	-	17	14	48	6
FINANCIAL RECORDS PROCESSING OCCUPATIONS	538	312	220	41	164	15	6	-	50	38	280	158
BOOKKEEPERS, ACCOUNTING, AND AUDITING CLERKS	344	186	158	16	134	8	-	-	25	31	191	90
TELEPHONE OPERATORS	27	27	-	-	-	-	-	-	-	-	13	14
MAIL AND MESSAGE DISTRIBUTING OCCUPATIONS	943	162	780	631	134	15	-	1	59	123	401	318
TRAFFIC, SHIPPING, STOCK AND INVENTORY CLERKS	1 099	928	171	27	115	29	-	-	17	127	612	285
INSURANCE ADJUSTERS, EXAMINERS, AND INVESTIGATORS	145	145	-	-	-	-	-	-	-	5	107	31
BANK TELLERS	61	61	-	-	-	-	-	-	-	28	31	2
DATA-ENTRY KEYERS	55	27	28	-	28	-	-	-	-	12	38	5
OTHER ADMINISTRATIVE SUPPORT OCCUPATIONS	2 469	1 351	1 074	110	725	239	38	6	205	373	1 330	483
SERVICE OCCUPATIONS	12 628	7 267	5 045	125	2 732	2 188	298	18	1 841	3 512	4 534	2 288
PRIVATE HOUSEHOLD OCCUPATIONS	51	51	-	-	-	-	-	-	17	13	15	6
PROTECTIVE SERVICE OCCUPATIONS	2 702	629	2 073	15	917	1 141	-	-	70	293	1 283	954
FIREFIGHTING OCCUPATIONS	281	-	281	8	2	271	-	-	-	12	13	252
POLICE AND DETECTIVES, PUBLIC SERVICE	753	-	753	7	254	492	-	-	-	21	448	275
GUARDS	943	606	337	-	185	152	-	-	68	213	340	255
OTHER PROTECTIVE SERVICE OCCUPATIONS	725	23	702	-	476	226	-	-	2	47	482	172
SERVICE OCCUPATIONS, EXCEPT PROTECTIVE AND HOUSEHOLD	9 875	6 587	2 972	110	1 815	1 047	298	18	1 754	3 206	3 236	1 328
FOOD PREPARATION AND SERVICE OCCUPATIONS	4 172	3 360	763	7	703	53	49	-	1 004	1 942	696	387
WAITERS AND FOOD COUNTER WORKERS	465	413	45	7	38	-	7	-	57	245	102	35
COOKS	1 522	1 336	165	-	151	14	21	-	300	752	321	119
HEALTH SERVICE OCCUPATIONS	334	236	88	8	61	19	10	-	11	93	145	64
NURSING AIDES, ORDERLIES, AND ATTENDANTS	273	200	63	8	40	15	10	-	9	79	121	51
CLEANING AND BUILDING SERVICE OCCUPATIONS EXC. HOUSEHOLD	4 773	2 693	1 942	89	958	895	120	18	621	1 054	2 211	736
PERSONAL SERVICE OCCUPATIONS	596	298	179	6	93	80	119	-	118	117	184	141
BARBERS, HAIRDRESSERS AND COSMETOLOGISTS	192	82	-	-	-	-	110	-	22	5	59	97
FARMING, FORESTRY, AND FISHING OCCUPATIONS	4 106	1 382	332	25	156	151	2 252	140	302	744	948	1 962
FARM OPERATORS AND MANAGERS	2 343	149	14	-	5	9	2 180	-	96	237	396	1 525
FARM OCCUPATIONS, EXCEPT MANAGERIAL	1 101	895	44	15	29	-	26	136	145	368	186	368
RELATED AGRICULTURAL OCCUPATIONS	602	306	253	10	120	123	43	-	60	131	323	63
FORESTRY AND FISHING OCCUPATIONS	60	32	21	-	2	19	3	4	1	8	43	6
PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS	21 341	17 706	1 907	174	893	840	1 696	32	454	1 868	11 200	7 128
MECHANICS AND REPAIRERS	7 583	6 452	750	135	336	279	378	3	129	439	4 037	2 795
AUTOMOBILE MECHANICS, INCLUDING BODY	2 327	2 028	117	16	53	48	182	-	26	127	1 109	995
AIRCRAFT MECHANICS	113	75	31	25	6	-	7	-	6	-	74	31
HEATING, AIR CONDITIONING, AND REFRIGERATION MECHANICS	247	200	23	-	21	2	24	-	7	21	158	53
OTHER MECHANICS AND REPAIRERS	4 896	4 149	579	94	256	229	165	3	90	291	2 696	1 716
CONSTRUCTION TRADES	6 876	5 113	622	17	343	262	1 122	19	271	1 076	3 630	1 580
CARPENTERS	1 619	1 067	92	6	56	30	444	16	87	352	820	274
ELECTRICIANS	1 213	1 030	134	7	93	34	49	-	15	106	701	337
PAINTERS, CONSTRUCTION AND MAINTENANCE	561	317	102	4	54	44	139	3	39	124	266	112
PLUMBERS, PIPEFITTERS, AND STEAMFITTERS	880	765	65	-	39	26	50	-	17	38	610	212
OTHER CONSTRUCTION TRADES	2 603	1 934	229	-	101	128	440	-	113	456	1 233	645
EXTRACTIVE OCCUPATIONS	57	55	-	-	-	-	2	-	-	4	22	31
PRECISION PRODUCTION OCCUPATIONS	6 825	6 086	535	22	214	299	194	10	54	349	3 511	2 722
SUPERVISORS, PRODUCTION OCCUPATIONS	3 183	2 937	215	4	73	138	31	-	14	62	1 653	1 379
MANUFACTURING	2 414	2 377	21	-	21	-	16	-	14	34	1 313	990
PRECISION METALWORKING OCCUPATIONS	2 261	2 176	61	8	48	5	21	3	9	139	1 216	831
TOOL AND DIE MAKERS	1 111	1 101	1	-	1	-	6	3	9	38	610	426
MACHINISTS	657	609	33	-	30	3	15	-	-	65	294	262
SHEET METAL WORKERS	265	246	19	8	11	-	-	-	-	26	183	56
OTHER PRECISION METAL WORKERS	228	220	8	-	6	2	-	-	-	10	129	87
PRECISION TEXTILE, APPAREL, AND FURNISHINGS MACHINE WORKERS	103	54	-	-	-	-	49	-	12	18	28	45
PLANT AND SYSTEM OPERATORS	346	147	199	-	57	142	-	-	4	26	232	80
OTHER PRECISION PRODUCTION OCCUPATIONS	932	772	60	10	36	14	93	7	15	104	382	387

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

LANSING-EAST LANSING, MI SMSA

	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY	1 TO 14	15 TO 34	35 TO 40	41+
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	HOURS	HOURS	HOURS	HOURS
TOTAL												
OPERATORS, FABRICATORS, AND LABORERS	28 922	26 515	1 828	161	735	932	566	13	961	3 166	15 960	7 640
MACHINE OPERATORS, ASSEMBLERS, AND INSPECTORS	16 238	15 627	410	13	256	141	201	-	266	1 068	10 086	4 058
MACHINE OPERATORS AND TENDERS, EXCEPT PRECISION	7 750	7 355	281	7	185	89	114	-	184	591	4 690	1 921
METALWORKING AND PLASTIC WORKING MACHINE OPERATORS	2 958	2 938	5	-	-	5	15	-	20	214	1 826	749
PRINTING MACHINE OPERATORS	498	409	78	2	71	5	11	-	18	34	317	99
TEXTILE, APPAREL, AND FURNISHINGS MACHINE OPERATORS	157	78	36	-	33	3	43	-	10	23	55	53
TEXTILE MACHINE OPERATORS	20	20	-	-	-	-	-	-	-	-	7	13
TEXTILE SEWING MACHINE OPERATORS	14	14	-	-	-	-	-	-	-	9	3	2
LAUNDERING AND DRYCLEANING MACHINE OPERATORS	119	40	36	-	33	3	43	-	10	12	45	38
OTHER SPECIFIED MACHINE OPERATORS	1 866	1 728	109	3	50	56	29	-	66	176	1 159	393
MISCELLANEOUS AND NOT SPECIFIED MACHINE OPERATORS	2 271	2 202	53	2	31	20	16	-	70	144	1 333	627
OCCUPATION:												
MISCELLANEOUS MACHINE OPERATORS, N.E.C.	619	582	31	-	22	9	6	-	53	46	304	186
MACHINE OPERATORS, NOT SPECIFIED	1 652	1 620	22	2	9	11	10	-	17	98	1 029	441
INDUSTRY:												
MANUFACTURING	2 022	2 008	4	-	-	4	10	-	35	114	1 217	573
NONDURABLE GOODS	290	290	-	-	-	-	-	-	9	37	135	99
FOOD AND KINDRED PRODUCTS	142	142	-	-	-	-	-	-	-	12	61	63
TEXTILE MILL AND FINISHED TEXTILE PRODUCTS	16	16	-	-	-	-	-	-	-	7	2	7
PAPER AND ALLIED PRODUCTS	15	15	-	-	-	-	-	-	-	-	-	15
OTHER NONDURABLE GOODS	117	117	-	-	-	-	-	-	9	18	72	14
DURABLE GOODS, INCLUDING NOT SPECIFIED MFG	1 732	1 718	4	-	-	4	10	-	26	77	1 082	474
METAL INDUSTRIES	274	274	-	-	-	-	-	-	16	18	164	59
MACHINERY, INCLUDING ELECTRICAL	356	354	-	-	-	-	2	-	-	9	251	91
TRANSPORTATION EQUIPMENT	965	963	2	-	-	2	-	-	8	45	597	273
OTHER DURABLE GOODS	137	127	2	-	-	2	8	-	2	5	70	51
NONMANUFACTURING INDUSTRIES	249	194	49	2	31	16	6	-	35	30	116	54
TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES	24	12	12	2	2	8	-	-	-	-	17	2
WHOLESALE AND RETAIL TRADE	77	71	-	-	-	-	6	-	6	10	32	27
ALL OTHER INDUSTRIES	148	111	37	-	29	8	-	-	29	20	67	25
FABRICATORS, ASSEMBLERS, AND HAND WORKING OCCUPATIONS	6 561	6 392	89	4	37	48	80	-	54	408	4 100	1 699
WELDERS AND CUTTERS	1 349	1 301	23	2	-	21	25	-	20	100	767	391
ASSEMBLERS	5 138	5 033	58	2	29	27	47	-	22	288	3 302	1 302
OTHER FABRICATORS AND HAND WORKING OCCUPATIONS	74	58	8	-	8	-	8	-	12	20	31	6
PRODUCTION INSPECTORS, TESTERS, SAMPLERS, AND WEIGHERS	1 927	1 880	40	2	34	4	7	-	28	69	1 296	438
TRANSPORTATION AND MATERIAL MOVING OCCUPATIONS	7 379	6 234	868	60	240	568	273	4	233	612	3 609	2 679
MOTOR VEHICLE OPERATORS	4 908	4 058	615	13	172	430	231	4	184	462	2 037	2 055
TRUCK DRIVERS AND DRIVER-SALES WORKERS	4 155	3 603	341	9	109	223	207	4	139	327	1 712	1 819
BUS DRIVERS	230	65	148	-	27	121	17	-	7	58	95	70
RAIL AND WATER TRANSPORTATION OCCUPATIONS	133	94	39	39	-	-	-	-	-	2	64	62
MATERIAL MOVING EQUIPMENT OPERATORS	2 338	2 082	214	8	68	138	42	-	49	148	1 508	562
EXCAVATING, GRADING, AND DOZER MACHINE OPERATORS	143	80	42	-	5	37	21	-	3	11	80	39
HANDLERS, EQUIPMENT CLEANERS, HELPERS, AND LABORERS	5 305	4 654	550	88	239	223	92	9	462	1 486	2 265	903
CONSTRUCTION LABORERS	784	629	155	-	58	97	-	-	43	189	399	115
FREIGHT, STOCK, AND MATERIAL HANDLERS	2 253	2 033	179	49	90	40	34	7	292	849	754	281
GARAGE AND SERVICE STATION RELATED OCCUPATIONS	515	482	-	-	-	-	33	-	28	216	156	108
HAND PACKERS AND PACKAGERS	202	192	10	8	2	-	-	-	14	41	110	29
OTHER SPECIFIED HANDLERS, EQUIPMENT CLEANERS, AND HELPERS	441	394	42	-	35	7	5	-	43	89	198	91
LABORERS, EXCEPT CONSTRUCTION	1 110	924	164	31	54	79	20	2	42	102	648	279
MANUFACTURING	472	472	-	-	-	-	-	-	5	18	308	118
NONDURABLE GOODS	97	97	-	-	-	-	-	-	2	2	52	33
DURABLE GOODS, INCLUDING NOT SPECIFIED MFG.	375	375	-	-	-	-	-	-	3	16	256	85
METAL INDUSTRIES	31	31	-	-	-	-	-	-	-	-	18	13
NONMANUFACTURING INDUSTRIES	638	452	164	31	54	79	20	2	37	84	340	161
TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES	120	79	36	6	-	30	5	-	-	8	73	29
WHOLESALE AND RETAIL TRADE	322	314	6	-	6	-	2	-	11	36	178	95
ALL OTHER INDUSTRIES	196	59	122	25	48	49	13	2	26	40	89	37

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

LANSING-EAST LANSING, MI SMSA

	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY	1 TO 14	15 TO 34	35 TO 40	41+
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	HOURS	HOURS	HOURS	HOURS
TOTAL												
FEMALES 16 YEARS AND OVER	92 407	57 234	31 615	1 484	17 922	12 209	3 082	476	9 382	22 582	45 829	11 019
MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS	20 134	8 694	10 688	228	4 599	5 861	654	98	1 427	3 698	10 599	3 726
EXECUTIVE, ADMINISTRATIVE, AND MANAGERIAL OCCUPATIONS	6 772	4 005	2 440	80	1 812	548	264	63	224	711	3 997	1 653
OFFICIALS AND ADMINISTRATORS, PUBLIC ADMINISTRATION	449	-	449	13	282	154	-	-	34	50	276	80
ADMINISTRATORS, EDUCATION AND RELATED FIELDS	556	140	410	-	204	206	6	-	48	40	278	153
MANAGERS, MEDICINE AND HEALTH	65	52	13	-	7	6	-	-	-	7	39	19
OTHER SPECIFIED MANAGERS	914	775	113	10	85	18	21	5	16	116	549	227
MANAGERS AND ADMINISTRATORS, N.E.C., SALARIED	2 365	1 882	483	24	350	109	-	-	91	233	1 275	712
MANUFACTURING	93	93	-	-	-	-	-	-	5	14	30	34
TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES	90	81	9	1	-	8	-	-	7	7	43	33
WHOLESALE AND RETAIL TRADE	647	643	4	-	4	-	-	-	11	70	281	267
ALL OTHER INDUSTRIES	1 535	1 065	470	23	346	101	-	-	68	142	921	378
MANAGERS AND ADMINISTRATORS, N.E.C., SELF-EMPLOYED	238	-	-	-	-	-	184	54	14	68	64	92
CONSTRUCTION	-	-	-	-	-	-	-	-	-	-	-	-
MANUFACTURING	22	-	-	-	-	-	22	-	-	-	15	7
WHOLESALE AND RETAIL TRADE	117	-	-	-	-	-	91	26	12	42	6	57
ALL OTHER INDUSTRIES	99	-	-	-	-	-	71	28	2	26	43	28
MANAGEMENT RELATED OCCUPATIONS	2 185	1 156	972	33	884	55	53	4	21	197	1 516	370
ACCOUNTANTS AND AUDITORS	872	492	358	11	329	18	20	2	8	53	579	186
BUYERS AND PURCHASING AGENTS	218	195	21	-	21	-	-	2	-	40	124	36
PROFESSIONAL SPECIALTY OCCUPATIONS	13 362	4 689	8 248	148	2 787	5 313	390	35	1 203	2 987	6 602	2 073
ENGINEERS, ARCHITECTS, AND SURVEYORS	155	107	48	-	29	19	-	-	6	13	101	30
ARCHITECTS	5	-	5	-	5	-	-	-	-	-	5	-
ENGINEERS	145	107	38	-	24	14	-	-	6	13	96	25
ELECTRICAL AND ELECTRONIC ENGINEERS	36	28	8	-	8	-	-	-	6	-	27	3
MECHANICAL ENGINEERS	39	32	7	-	-	7	-	-	-	-	28	11
OTHER ENGINEERS	70	47	23	-	16	7	-	-	-	13	41	11
SURVEYORS AND MAPPING SCIENTISTS	5	-	5	-	-	5	-	-	-	-	-	5
MATHEMATICAL AND COMPUTER SCIENTISTS	232	80	152	6	144	2	-	-	-	20	172	29
COMPUTER SYSTEMS ANALYSTS AND SCIENTISTS	123	39	84	6	78	-	-	-	-	5	85	22
NATURAL SCIENTISTS	185	41	143	12	115	16	1	-	31	6	109	39
HEALTH DIAGNOSING OCCUPATIONS	221	83	58	-	58	-	77	3	3	43	56	108
PHYSICIANS	177	65	50	-	50	-	59	3	3	41	37	85
DENTISTS	4	-	-	-	-	-	4	-	-	-	4	-
OTHER HEALTH DIAGNOSING PRACTITIONERS	40	18	8	-	8	-	14	-	-	2	15	23
HEALTH ASSESSMENT AND TREATING OCCUPATIONS	2 920	2 212	687	10	257	420	7	14	137	812	1 381	482
REGISTERED NURSES	2 432	1 955	462	-	190	272	7	8	121	674	1 142	396
PHARMACISTS	45	37	8	-	8	-	-	-	-	8	22	15
THERAPISTS	294	150	144	-	23	121	-	-	16	107	132	37
TEACHERS, LIBRARIANS, AND COUNSELORS	7 214	1 080	5 949	67	1 416	4 466	185	-	792	1 703	3 499	970
TEACHERS, POSTSECONDARY	978	148	830	48	653	129	-	-	173	355	210	152
TEACHERS, ELEMENTARY AND PRE-KINDERGARTEN	3 857	540	3 296	19	138	3 139	21	-	253	707	2 244	563
TEACHERS, SECONDARY	927	89	838	-	29	809	-	-	73	217	470	124
SOCIAL SCIENTISTS AND URBAN PLANNERS	138	33	105	2	26	77	-	-	8	15	81	34
SOCIAL AND RECREATION WORKERS	863	143	705	25	435	245	7	8	15	97	558	149
RELIGIOUS WORKERS	85	83	-	-	-	-	2	-	12	30	17	26
LAWYERS AND JUDGES	190	57	115	16	81	18	16	2	11	14	138	20
WRITERS, ARTISTS, ENTERTAINERS, AND ATHLETES	1 159	770	286	10	226	50	95	8	188	234	490	186
TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS	45 217	28 669	15 412	1 063	10 610	3 739	867	269	3 763	10 586	24 790	4 458
TECHNICIANS AND RELATED SUPPORT OCCUPATIONS	3 276	1 935	1 335	71	973	291	6	-	357	794	1 559	447
HEALTH TECHNOLOGISTS AND TECHNICIANS	1 815	1 471	344	-	157	187	-	-	124	485	900	252
LICENSED PRACTICAL NURSES	951	784	167	-	24	143	-	-	31	345	425	106
ENGINEERING AND SCIENCE TECHNICIANS	556	200	356	27	322	7	-	-	147	74	239	73
ELECTRICAL AND ELECTRONIC TECHNICIANS	25	19	6	-	5	1	-	-	9	2	10	4
DRAFTING AND SURVEYING TECHNICIANS	69	48	21	-	21	-	-	-	7	7	36	19
TECHNICIANS, EXCEPT HEALTH, ENGINEERING, AND SCIENCE	905	264	635	44	494	97	6	-	86	235	420	122
AIRPLANE PILOTS AND NAVIGATORS	-	-	-	-	-	-	-	-	-	-	-	-
COMPUTER PROGRAMMERS	192	103	83	-	77	6	6	-	-	36	124	32
SALES OCCUPATIONS	9 822	8 738	316	13	222	81	691	77	1 368	3 728	3 188	1 084
SUPERVISORS AND PROPRIETORS, SALES OCCUPATIONS	835	675	-	-	-	-	139	21	18	100	375	317
SELF-EMPLOYED	160	-	-	-	-	-	139	21	5	38	29	86
SALES REPRESENTATIVES, FINANCE AND BUSINESS SERVICES	1 159	960	29	-	21	8	159	11	92	270	552	219
SALES REPRESENTATIVES, COMMODITIES, EXCEPT RETAIL	319	266	32	-	32	-	19	2	23	77	127	68
SALES WORKERS, RETAIL AND PERSONAL SERVICES	7 479	6 809	255	13	169	73	372	43	1 233	3 268	2 119	480
CASHIERS	3 327	3 055	217	13	131	73	46	9	480	1 496	936	261
SALES RELATED OCCUPATIONS	30	28	-	-	-	-	2	-	2	13	15	-

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

LANSING-EAST LANSING, MI SMSA

	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY	1 TO 14	15 TO 34	35 TO 40	41+
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	HOURS	HOURS	HOURS	HOURS
TOTAL												
ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL	32 119	17 996	13 761	979	9 415	3 367	170	192	2 038	6 064	20 043	2 927
SUPERVISORS, ADMINISTRATIVE SUPPORT OCCUPATIONS	1 575	720	843	21	742	80	10	2	7	113	1 149	254
COMPUTER EQUIPMENT OPERATORS	743	430	313	16	255	42	-	-	14	99	479	129
SECRETARIES, STENOGRAPHERS, AND TYPISTS	12 843	6 462	6 265	196	4 640	1 429	53	63	708	2 113	8 799	855
SECRETARIES	10 475	5 417	4 968	142	3 619	1 207	27	63	491	1 689	7 300	710
RECEPTIONISTS	1 404	963	429	25	290	114	10	2	176	404	691	105
FILE CLERKS	732	350	370	41	284	45	-	12	100	179	408	33
FINANCIAL RECORDS PROCESSING OCCUPATIONS	3 813	2 622	1 027	59	736	232	82	82	272	689	2 314	416
BOOKKEEPERS, ACCOUNTING, AND AUDITING CLERKS	2 995	2 128	710	36	520	154	82	75	233	514	1 811	347
TELEPHONE OPERATORS	475	420	55	-	48	7	-	-	11	117	317	19
MAIL AND MESSAGE DISTRIBUTING OCCUPATIONS	746	182	562	394	162	6	2	-	42	131	385	155
TRAFFIC, SHIPPING, STOCK AND INVENTORY CLERKS	411	360	51	8	31	12	-	-	12	61	239	71
INSURANCE ADJUSTERS, EXAMINERS, AND INVESTIGATORS	210	204	6	-	6	-	-	-	6	9	153	30
BANK TELLERS	917	892	25	4	14	7	-	-	65	257	488	81
DATA-ENTRY KEYERS	1 069	533	536	8	462	66	-	-	35	121	803	98
OTHER ADMINISTRATIVE SUPPORT OCCUPATIONS	7 181	3 858	3 279	207	1 745	1 327	13	31	590	1 771	3 818	681
SERVICE OCCUPATIONS	17 167	11 727	4 380	148	2 270	1 962	1 038	22	3 598	6 313	5 173	1 395
PRIVATE HOUSEHOLD OCCUPATIONS	925	920	-	-	-	-	5	-	321	302	165	108
PROTECTIVE SERVICE OCCUPATIONS	454	144	310	9	110	191	-	-	94	137	156	40
FIREFIGHTING OCCUPATIONS	-	-	-	-	-	-	-	-	-	-	-	-
POLICE AND DETECTIVES, PUBLIC SERVICE	59	-	59	-	26	33	-	-	3	12	26	16
GUARDS	320	144	176	9	43	124	-	-	91	112	80	18
OTHER PROTECTIVE SERVICE OCCUPATIONS	75	-	75	-	41	34	-	-	-	13	50	6
SERVICE OCCUPATIONS, EXCEPT PROTECTIVE AND HOUSEHOLD	15 788	10 663	4 070	139	2 160	1 771	1 033	22	3 183	5 874	4 852	1 247
FOOD PREPARATION AND SERVICE OCCUPATIONS	8 210	6 129	2 006	37	1 411	558	65	10	2 167	3 555	1 713	415
WAITERS AND FOOD COUNTER WORKERS	3 400	3 293	103	-	88	15	2	2	500	1 921	683	130
COOKS	1 797	1 277	458	11	228	219	54	8	343	680	586	128
HEALTH SERVICE OCCUPATIONS	2 652	2 094	491	28	160	303	62	5	136	741	1 394	257
NURSING AIDES, ORDERLIES, AND ATTENDANTS	1 763	1 288	413	28	133	252	62	-	92	441	922	209
CLEANING AND BUILDING SERVICE OCCUPATIONS EXC. HOUSEHOLD	2 049	1 291	688	57	340	291	68	2	417	483	948	98
PERSONAL SERVICE OCCUPATIONS	2 877	1 149	885	17	249	619	838	5	463	1 095	797	477
BARBERS, HAIRDRESSERS AND COSMETOLOGISTS	932	613	6	6	-	-	313	-	66	343	339	163
FARMING, FORESTRY, AND FISHING OCCUPATIONS	688	226	78	6	55	17	305	79	190	169	147	171
FARM OPERATORS AND MANAGERS	303	23	-	-	-	-	280	-	77	81	59	81
FARM OCCUPATIONS, EXCEPT MANAGERIAL	195	116	-	-	-	-	2	77	42	64	17	72
RELATED AGRICULTURAL OCCUPATIONS	182	81	78	6	55	17	23	-	71	24	65	16
FORESTRY AND FISHING OCCUPATIONS	8	6	-	-	-	-	-	2	-	-	6	2
PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS	1 458	1 187	147	2	88	57	122	2	47	338	719	284
MECHANICS AND REPAIRERS	272	233	34	-	24	10	5	-	-	28	136	87
AUTOMOBILE MECHANICS, INCLUDING BODY	70	62	8	-	6	2	-	-	-	3	30	32
AIRCRAFT MECHANICS	2	-	-	-	-	-	2	-	-	-	-	-
HEATING, AIR CONDITIONING, AND REFRIGERATION MECHANICS	2	2	-	-	-	-	-	-	-	-	-	2
OTHER MECHANICS AND REPAIRERS	198	169	26	-	18	8	3	-	-	25	106	53
CONSTRUCTION TRADES	207	113	37	-	27	10	55	2	6	65	65	64
CARPENTERS	41	13	21	-	18	3	7	-	-	22	2	17
ELECTRICIANS	24	24	-	-	-	-	-	-	-	-	17	7
PAINTERS, CONSTRUCTION AND MAINTENANCE	41	16	-	-	-	-	23	2	-	20	21	-
PLUMBERS, PIPEFITTERS, AND STEAMFITTERS	-	-	-	-	-	-	-	-	-	-	-	-
OTHER CONSTRUCTION TRADES	101	60	16	-	9	7	25	-	6	23	25	40
EXTRACTIVE OCCUPATIONS	-	-	-	-	-	-	-	-	-	-	-	-
PRECISION PRODUCTION OCCUPATIONS	979	841	76	2	37	37	62	-	41	245	518	133
SUPERVISORS, PRODUCTION OCCUPATIONS	275	246	26	2	19	5	3	-	-	28	173	57
MANUFACTURING	152	142	10	-	10	-	-	-	-	2	111	24
PRECISION METALWORKING OCCUPATIONS	52	52	-	-	-	-	-	-	-	-	38	5
TOOL AND DIE MAKERS	24	24	-	-	-	-	-	-	-	-	19	3
MACHINISTS	21	21	-	-	-	-	-	-	-	-	19	2
SHEET METAL WORKERS	-	-	-	-	-	-	-	-	-	-	-	-
OTHER PRECISION METAL WORKERS	7	7	-	-	-	-	-	-	-	-	-	-
PRECISION TEXTILE, APPAREL, AND FURNISHINGS MACHINE WORKERS	222	164	6	-	6	-	52	-	39	79	75	24
PLANT AND SYSTEM OPERATORS	14	14	-	-	-	-	-	-	-	2	12	-
OTHER PRECISION PRODUCTION OCCUPATIONS	416	365	44	-	12	32	7	-	2	136	220	47

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

LANSING-EAST LANSING, MI SMSA

	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY	1 TO 14	15 TO 34	35 TO 40	41+
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	HOURS	HOURS	HOURS	HOURS
TOTAL												
OPERATORS, FABRICATORS, AND LABORERS	7 743	6 731	910	37	300	573	96	6	357	1 478	4 401	985
MACHINE OPERATORS, ASSEMBLERS, AND INSPECTORS	5 372	5 006	312	22	197	93	50	4	147	607	3 493	740
MACHINE OPERATORS AND TENDERS, EXCEPT PRECISION	2 574	2 303	241	19	161	61	26	4	106	336	1 631	327
METALWORKING AND PLASTIC WORKING MACHINE OPERATORS	518	518	-	-	-	-	-	-	7	28	389	57
PRINTING MACHINE OPERATORS	340	277	54	3	41	10	9	-	25	87	181	35
TEXTILE, APPAREL, AND FURNISHINGS MACHINE OPERATORS	399	361	33	2	9	22	1	4	11	90	216	44
TEXTILE MACHINE OPERATORS	13	13	-	-	-	-	-	-	-	-	13	-
TEXTILE SEWING MACHINE OPERATORS	150	147	-	-	-	-	1	2	-	27	88	19
LAUNDERING AND DRYCLEANING MACHINE OPERATORS	194	159	33	2	9	22	-	2	2	58	93	19
OTHER SPECIFIED MACHINE OPERATORS	551	487	60	2	58	-	4	-	53	58	379	54
MISCELLANEOUS AND NOT SPECIFIED MACHINE OPERATORS	766	660	94	12	53	29	12	-	10	73	466	137
OCCUPATION: MISCELLANEOUS MACHINE OPERATORS, N.E.C.	205	155	40	7	20	13	10	-	2	14	126	46
MACHINE OPERATORS, NOT SPECIFIED	561	505	54	5	33	16	2	-	8	59	340	91
INDUSTRY: MANUFACTURING	618	604	10	-	-	10	4	-	10	51	369	116
NONDURABLE GOODS	154	154	-	-	-	-	-	-	6	17	103	7
FOOD AND KINDRED PRODUCTS	22	22	-	-	-	-	-	-	-	4	13	5
TEXTILE MILL AND FINISHED TEXTILE PRODUCTS	16	16	-	-	-	-	-	-	-	-	13	-
PAPER AND ALLIED PRODUCTS	12	12	-	-	-	-	-	-	-	-	6	-
OTHER NONDURABLE GOODS	104	104	-	-	-	-	-	-	6	13	71	2
DURABLE GOODS, INCLUDING NOT SPECIFIED MFG	464	450	10	-	-	10	4	-	4	34	266	109
METAL INDUSTRIES	146	136	10	-	-	10	-	-	-	7	98	36
MACHINERY, INCLUDING ELECTRICAL	72	70	-	-	-	-	2	-	-	10	36	19
TRANSPORTATION EQUIPMENT	178	178	-	-	-	-	-	-	3	11	79	49
OTHER DURABLE GOODS	68	66	-	-	-	-	2	-	1	6	53	5
NONMANUFACTURING INDUSTRIES	148	56	84	12	53	19	8	-	-	22	97	21
TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES	9	2	7	7	-	-	-	-	-	-	2	7
WHOLESALE AND RETAIL TRADE	24	16	-	-	-	-	8	-	-	4	8	4
ALL OTHER INDUSTRIES	115	38	77	5	53	19	-	-	-	18	87	10
FABRICATORS, ASSEMBLERS, AND HAND WORKING OCCUPATIONS	1 987	1 924	45	-	23	22	18	-	39	196	1 323	269
WELDERS AND CUTTERS	105	97	8	-	-	8	-	-	2	21	51	24
ASSEMBLERS	1 856	1 801	37	-	23	14	18	-	36	173	1 249	245
OTHER FABRICATORS AND HAND WORKING OCCUPATIONS	26	26	-	-	-	-	-	-	1	2	23	-
PRODUCTION INSPECTORS, TESTERS, SAMPLERS, AND WEIGHERS	811	779	26	3	13	10	6	-	2	75	539	144
TRANSPORTATION AND MATERIAL MOVING OCCUPATIONS	1 176	603	554	12	68	474	19	-	123	542	339	104
MOTOR VEHICLE OPERATORS	1 048	487	542	12	66	464	19	-	123	532	259	86
TRUCK DRIVERS AND DRIVER-SALES WORKERS	241	208	14	2	5	7	19	-	32	97	72	33
BUS DRIVERS	725	215	510	10	61	439	-	-	89	406	158	40
RAIL AND WATER TRANSPORTATION OCCUPATIONS	2	-	2	-	2	-	-	-	-	-	2	-
MATERIAL MOVING EQUIPMENT OPERATORS	126	116	10	-	-	10	-	-	-	10	78	18
EXCAVATING, GRADING, AND DOZER MACHINE OPERATORS	-	-	-	-	-	-	-	-	-	-	-	-
HANDLERS, EQUIPMENT CLEANERS, HELPERS, AND LABORERS	1 195	1 122	44	3	35	6	27	2	87	329	569	141
CONSTRUCTION LABORERS	12	12	-	-	-	-	-	-	5	-	7	-
FREIGHT, STOCK, AND MATERIAL HANDLERS	357	349	4	1	3	-	2	2	43	120	139	41
GARAGE AND SERVICE STATION RELATED OCCUPATIONS	83	79	-	-	-	-	4	-	2	39	12	30
HAND PACKERS AND PACKAGERS	486	471	8	-	8	-	7	-	5	104	299	44
OTHER SPECIFIED HANDLERS, EQUIPMENT CLEANERS, AND HELPERS	81	50	19	-	17	2	12	-	15	32	21	7
LABORERS, EXCEPT CONSTRUCTION	176	161	13	2	7	4	2	-	17	34	91	19
MANUFACTURING	92	92	-	-	-	-	-	-	8	15	43	16
NONDURABLE GOODS	38	38	-	-	-	-	-	-	8	6	15	9
DURABLE GOODS, INCLUDING NOT SPECIFIED MFG.	54	54	-	-	-	-	-	-	-	9	28	7
METAL INDUSTRIES	2	2	-	-	-	-	-	-	-	-	2	-
NONMANUFACTURING INDUSTRIES	84	69	13	2	7	4	2	-	9	19	48	3
TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES	2	-	2	2	-	-	-	-	2	-	-	-
WHOLESALE AND RETAIL TRADE	58	56	-	-	-	-	2	-	2	16	32	3
ALL OTHER INDUSTRIES	24	13	11	-	7	4	-	-	5	3	16	-

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

LANSING-EAST LANSING, MI SMSA

	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY	1 TO 14	15 TO 34	35 TO 40	41+
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	HOURS	HOURS	HOURS	HOURS
WHITE												
MALES 16 YEARS AND OVER	110 171	75 872	26 037	2 037	16 057	7 943	8 014	248	5 379	13 189	51 879	36 355
MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS	27 034	12 965	12 059	636	7 808	3 615	1 970	40	922	1 934	12 817	10 812
EXECUTIVE, ADMINISTRATIVE, AND MANAGERIAL OCCUPATIONS	12 741	7 465	4 368	348	2 856	1 164	884	24	213	483	6 117	5 643
OFFICIALS AND ADMINISTRATORS, PUBLIC ADMINISTRATION	1 158	-	1 158	89	820	249	-	-	21	28	835	243
MANAGEMENT RELATED OCCUPATIONS	3 110	1 581	1 361	160	995	206	164	4	51	139	1 809	1 061
PROFESSIONAL SPECIALTY OCCUPATIONS	14 293	5 500	7 691	288	4 952	2 451	1 086	16	709	1 451	6 700	5 169
ENGINEERS AND NATURAL SCIENTISTS	3 457	1 958	1 448	140	1 179	129	51	-	33	160	2 230	984
ENGINEERS	2 189	1 486	701	41	577	83	2	-	19	69	1 418	644
HEALTH DIAGNOSING OCCUPATIONS	1 123	654	127	6	115	6	342	-	10	70	367	610
HEALTH ASSESSMENT AND TREATING OCCUPATIONS	424	286	119	6	61	52	19	-	2	43	154	219
TEACHERS, LIBRARIANS, AND COUNSELORS	5 290	713	4 534	74	2 448	2 012	43	-	431	727	2 173	1 874
TEACHERS, ELEMENTARY AND SECONDARY SCHOOLS	2 078	245	1 833	2	82	1 749	-	-	63	132	1 155	695
TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS	20 719	13 717	5 692	991	4 111	590	1 283	27	1 171	2 611	9 094	7 323
HEALTH TECHNOLOGISTS AND TECHNICIANS	317	188	129	9	76	44	-	-	28	44	156	89
TECHNOLOGISTS AND TECHNICIANS, EXCEPT HEALTH	3 537	1 564	1 952	98	1 706	148	21	-	307	573	1 818	763
SALES OCCUPATIONS	9 381	7 996	173	5	150	18	1 199	13	455	1 101	2 907	4 684
SUPERVISORS AND PROPRIETORS, SALES OCCUPATIONS	1 881	1 553	9	-	9	-	319	-	36	45	391	1 381
SALES REPRESENTATIVES, COMMODITIES AND FINANCE	3 950	3 303	62	5	51	6	585	-	86	228	1 571	1 989
OTHER SALES OCCUPATIONS	3 550	3 140	102	-	90	12	295	13	333	828	945	1 314
CASHIERS	775	700	59	-	52	7	16	-	87	398	138	128
ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL	7 484	3 969	3 438	879	2 179	380	63	14	381	893	4 213	1 787
COMPUTER EQUIPMENT OPERATORS	427	245	169	-	163	6	6	7	7	53	254	102
SECRETARIES, STENOGRAPHERS, AND TYPISTS	141	59	76	2	65	9	6	-	5	32	89	15
FINANCIAL RECORDS PROCESSING OCCUPATIONS	506	302	198	32	151	15	6	-	33	38	265	158
MAIL AND MESSAGE DISTRIBUTING OCCUPATIONS	877	149	727	594	118	15	-	1	59	100	368	311
SERVICE OCCUPATIONS	11 508	6 619	4 578	85	2 458	2 035	293	18	1 675	3 217	4 067	2 145
PRIVATE HOUSEHOLD OCCUPATIONS	45	45	-	-	-	-	-	-	17	13	9	6
PROTECTIVE SERVICE OCCUPATIONS	2 511	554	1 957	12	857	1 088	-	-	52	273	1 190	907
POLICE AND FIREFIGHTERS	989	-	989	12	235	742	-	-	-	33	444	499
SERVICE OCCUPATIONS, EXCEPT PROTECTIVE AND HOUSEHOLD	8 952	6 020	2 621	73	1 601	947	293	18	1 606	2 931	2 868	1 232
FOOD SERVICE OCCUPATIONS	3 816	3 061	706	7	650	49	49	-	932	1 824	606	338
CLEANING AND BUILDING SERVICE OCCUPATIONS, EXCEPT HOUSEHOLD	4 272	2 475	1 664	52	807	805	115	18	551	909	1 971	699
FARMING, FORESTRY, AND FISHING OCCUPATIONS	4 027	1 347	299	20	147	132	2 247	134	302	717	907	1 951
FARM OPERATORS AND MANAGERS	2 338	149	14	-	5	9	2 175	-	96	237	396	1 520
FARM WORKERS AND RELATED OCCUPATIONS	1 629	1 166	264	20	140	104	69	130	205	472	468	425
PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS	20 389	16 892	1 813	166	864	783	1 668	16	439	1 780	10 583	6 933
MECHANICS AND REPAIRERS	7 291	6 175	735	133	325	277	378	3	124	426	3 821	2 743
CONSTRUCTION TRADES	6 502	4 845	560	11	325	224	1 094	3	265	1 020	3 414	1 506
PRECISION PRODUCTION OCCUPATIONS	6 543	5 821	518	22	214	282	194	10	50	330	3 326	2 657
OPERATORS, FABRICATORS, AND LABORERS	26 494	24 332	1 596	139	669	788	553	13	870	2 930	14 411	7 191
MACHINE OPERATORS AND TENDERS, EXCEPT PRECISION	7 204	6 835	255	4	170	81	114	-	144	549	4 314	1 841
FABRICATORS, ASSEMBLERS, INSPECTORS, AND SAMPLERS	7 507	7 301	119	4	71	44	87	-	80	439	4 721	1 956
TRANSPORTATION OCCUPATIONS	4 696	3 939	535	47	146	342	218	4	161	424	1 892	2 044
MOTOR VEHICLE OPERATORS	4 568	3 845	501	13	146	342	218	4	161	422	1 831	1 984
MATERIAL MOVING EQUIPMENT OPERATORS	2 150	1 913	195	8	63	124	42	-	49	137	1 397	501
HANDLERS, EQUIPMENT CLEANERS, HELPERS, AND LABORERS	4 937	4 344	492	76	219	197	92	9	436	1 381	2 087	849
CONSTRUCTION LABORERS	730	591	139	-	52	87	-	-	43	164	376	109
FREIGHT, STOCK, AND MATERIAL HANDLERS	2 092	1 905	146	37	76	33	34	7	269	772	710	265

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

LANSING-EAST LANSING, MI SMSA

	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY	1 TO 14	15 TO 34	35 TO 40	41+
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	HOURS	HOURS	HOURS	HOURS
WHITE												
FEMALES 16 YEARS AND OVER	86 087	53 869	28 812	1 241	16 314	11 257	2 940	466	8 689	21 419	42 315	10 421
MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS	18 859	8 321	9 822	183	4 147	5 492	621	95	1 358	3 555	9 751	3 562
EXECUTIVE, ADMINISTRATIVE, AND MANAGERIAL OCCUPATIONS	6 265	3 797	2 158	66	1 586	506	247	63	217	694	3 589	1 586
OFFICIALS AND ADMINISTRATORS, PUBLIC ADMINISTRATION	410	-	410	9	247	154	-	-	27	50	250	74
MANAGEMENT RELATED OCCUPATIONS	2 001	1 093	851	27	769	55	53	4	21	191	1 351	359
PROFESSIONAL SPECIALTY OCCUPATIONS	12 594	4 524	7 664	117	2 561	4 986	374	32	1 141	2 861	6 162	1 976
ENGINEERS AND NATURAL SCIENTISTS	530	207	322	11	274	37	1	-	24	39	353	98
ENGINEERS	129	99	30	-	16	14	-	-	6	13	80	25
HEALTH DIAGNOSING OCCUPATIONS	184	78	40	-	40	-	66	-	3	31	47	97
HEALTH ASSESSMENT AND TREATING OCCUPATIONS	2 832	2 152	659	10	245	404	7	14	135	799	1 328	462
TEACHERS, LIBRARIANS, AND COUNSELORS	6 798	1 039	5 579	47	1 284	4 248	180	-	745	1 623	3 277	931
TEACHERS, ELEMENTARY AND SECONDARY SCHOOLS	4 559	623	3 915	19	145	3 751	21	-	309	884	2 582	664
TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS	42 370	27 195	14 069	911	9 745	3 413	844	262	3 344	10 097	23 227	4 214
HEALTH TECHNOLOGISTS AND TECHNICIANS	1 707	1 395	312	-	138	174	-	-	103	467	834	249
TECHNOLOGISTS AND TECHNICIANS, EXCEPT HEALTH	1 297	413	878	52	722	104	6	-	184	289	589	170
SALES OCCUPATIONS	9 387	8 381	268	13	194	61	668	70	1 267	3 593	3 037	1 053
SUPERVISORS AND PROPRIETORS, SALES OCCUPATIONS	797	652	-	-	-	-	124	21	18	94	356	304
SALES REPRESENTATIVES, COMMODITIES AND FINANCE	1 433	1 189	61	-	53	8	170	13	115	326	660	282
OTHER SALES OCCUPATIONS	7 157	6 540	207	13	141	53	374	36	1 134	3 173	2 021	467
CASHIERS	3 132	2 900	184	13	118	53	46	2	428	1 440	872	248
ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL	29 979	17 006	12 611	846	8 691	3 074	170	192	1 790	5 748	18 767	2 742
COMPUTER EQUIPMENT OPERATORS	705	414	291	16	233	42	-	-	14	99	447	129
SECRETARIES, STENOGRAPHERS, AND TYPISTS	12 174	6 127	5 931	161	4 407	1 363	53	63	666	2 076	8 277	815
FINANCIAL RECORDS PROCESSING OCCUPATIONS	3 622	2 522	936	53	678	205	82	82	249	669	2 198	404
MAIL AND MESSAGE DISTRIBUTING OCCUPATIONS	701	182	517	369	142	6	2	-	42	122	358	146
SERVICE OCCUPATIONS	15 853	11 007	3 872	120	2 031	1 721	952	22	3 407	5 879	4 622	1 344
PRIVATE HOUSEHOLD OCCUPATIONS	881	876	-	-	-	-	5	-	314	281	156	101
PROTECTIVE SERVICE OCCUPATIONS	408	134	274	6	93	175	-	-	94	131	120	36
POLICE AND FIREFIGHTERS	46	-	46	-	13	33	-	-	3	6	19	16
SERVICE OCCUPATIONS, EXCEPT PROTECTIVE AND HOUSEHOLD	14 564	9 997	3 598	114	1 938	1 546	947	22	2 999	5 467	4 346	1 207
FOOD SERVICE OCCUPATIONS	7 764	5 857	1 839	18	1 322	499	58	10	2 062	3 392	1 595	392
CLEANING AND BUILDING SERVICE OCCUPATIONS, EXCEPT HOUSEHOLD	1 713	1 102	552	51	272	229	57	2	392	391	761	98
FARMING, FORESTRY, AND FISHING OCCUPATIONS	670	226	60	-	49	11	305	79	184	169	135	171
FARM OPERATORS AND MANAGERS	303	23	-	-	-	-	280	-	77	81	59	81
FARM WORKERS AND RELATED OCCUPATIONS	359	197	60	-	49	11	25	77	107	88	70	88
PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS	1 370	1 108	138	2	79	57	122	2	43	324	671	269
MECHANICS AND REPAIRERS	244	211	28	-	18	10	5	-	-	28	121	74
CONSTRUCTION TRADES	196	105	34	-	24	10	55	2	2	65	65	64
PRECISION PRODUCTION OCCUPATIONS	930	792	76	2	37	37	62	-	41	231	485	131
OPERATORS, FABRICATORS, AND LABORERS	6 965	6 012	851	25	263	563	96	6	353	1 395	3 909	861
MACHINE OPERATORS AND TENDERS, EXCEPT PRECISION	2 342	2 094	218	7	150	61	26	4	102	297	1 486	307
FABRICATORS, ASSEMBLERS, INSPECTORS, AND SAMPLERS	2 374	2 303	47	3	20	24	24	-	41	237	1 574	333
TRANSPORTATION OCCUPATIONS	1 013	462	532	12	58	462	19	-	123	527	245	72
MOTOR VEHICLE OPERATORS	1 011	462	530	12	56	462	19	-	123	527	243	72
MATERIAL MOVING EQUIPMENT OPERATORS	95	85	10	-	-	10	-	-	-	10	59	18
HANDLERS, EQUIPMENT CLEANERS, HELPERS, AND LABORERS	1 141	1 068	44	3	35	6	27	2	87	324	545	131
CONSTRUCTION LABORERS	12	12	-	-	-	-	-	-	5	-	7	-
FREIGHT, STOCK, AND MATERIAL HANDLERS	347	339	4	1	3	-	2	2	43	115	139	36

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

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LANSING-EAST LANSING, MI SMSA

	EMPLOYED PERSONS								PERSONS AT WORK			
	TOTAL	PRIV. WAGE AND SALARY WORKERS	GOVERNMENT WORKERS TOTAL	FEDERAL	STATE	LOCAL	SELF-EMPLOYED WORKERS	UNPAID FAMILY WORKERS	1 TO 14 HOURS	15 TO 34 HOURS	35 TO 40 HOURS	41+ HOURS
BLACK												
MALES 16 YEARS AND OVER	4 568	3 005	1 514	156	883	475	49	-	282	632	2 626	838
MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS	852	259	571	23	435	113	22	-	28	61	507	231
EXECUTIVE, ADMINISTRATIVE, AND MANAGERIAL OCCUPATIONS	399	121	268	10	211	47	10	-	-	27	264	95
OFFICIALS AND ADMINISTRATORS, PUBLIC ADMINISTRATION	89	-	89	7	78	4	-	-	-	17	44	28
MANAGEMENT RELATED OCCUPATIONS	130	29	101	3	90	8	-	-	-	-	108	17
PROFESSIONAL SPECIALTY OCCUPATIONS	453	138	303	13	224	66	12	-	28	34	243	136
ENGINEERS AND NATURAL SCIENTISTS	84	35	49	-	43	6	-	-	-	-	72	-
ENGINEERS	40	28	12	-	12	-	-	-	-	-	35	-
HEALTH DIAGNOSING OCCUPATIONS	18	18	-	-	-	-	-	-	-	-	5	13
HEALTH ASSESSMENT AND TREATING OCCUPATIONS	14	14	-	-	-	-	-	-	-	-	7	7
TEACHERS, LIBRARIANS, AND COUNSELORS	221	46	175	7	125	43	-	-	28	32	92	69
TEACHERS, ELEMENTARY AND SECONDARY SCHOOLS	46	3	43	2	9	32	-	-	6	-	23	17
TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS	798	432	358	71	233	54	8	-	67	170	413	118
HEALTH TECHNOLOGISTS AND TECHNICIANS	-	-	-	-	-	-	-	-	-	-	-	-
TECHNOLOGISTS AND TECHNICIANS, EXCEPT HEALTH	128	62	66	-	56	10	-	-	20	21	74	13
SALES OCCUPATIONS	208	195	5	-	5	-	8	-	3	72	85	48
SUPERVISORS AND PROPRIETORS, SALES OCCUPATIONS	46	42	-	-	-	-	4	-	-	3	12	31
SALES REPRESENTATIVES, COMMODITIES AND FINANCE	48	44	-	-	-	-	4	-	-	9	22	17
OTHER SALES OCCUPATIONS	114	109	5	-	5	-	-	-	3	60	51	-
CASHIERS	52	52	-	-	-	-	-	-	-	34	18	-
ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL	462	175	287	71	172	44	-	-	44	77	254	57
COMPUTER EQUIPMENT OPERATORS	37	27	10	5	5	-	-	-	-	8	16	13
SECRETARIES, STENOGRAPHERS, AND TYPISTS	15	10	5	-	-	5	-	-	-	-	10	5
FINANCIAL RECORDS PROCESSING OCCUPATIONS	16	-	16	9	7	-	-	-	7	-	9	-
MAIL AND MESSAGE DISTRIBUTING OCCUPATIONS	52	13	39	35	4	-	-	-	-	17	25	7
SERVICE OCCUPATIONS	733	399	331	32	157	142	3	-	126	179	293	97
PRIVATE HOUSEHOLD OCCUPATIONS	6	6	-	-	-	-	-	-	-	-	6	-
PROTECTIVE SERVICE OCCUPATIONS	139	44	95	3	46	46	-	-	11	6	69	40
POLICE AND FIREFIGHTERS	38	-	38	3	21	14	-	-	-	-	17	21
SERVICE OCCUPATIONS, EXCEPT PROTECTIVE AND HOUSEHOLD	588	349	236	29	111	96	3	-	115	173	218	57
FOOD SERVICE OCCUPATIONS	234	205	29	-	25	4	-	-	55	70	58	35
CLEANING AND BUILDING SERVICE OCCUPATIONS, EXCEPT HOUSEHOLD	315	117	195	29	80	86	3	-	54	96	138	18
FARMING, FORESTRY, AND FISHING OCCUPATIONS	21	-	21	5	2	14	-	-	-	-	21	-
FARM OPERATORS AND MANAGERS	-	-	-	-	-	-	-	-	-	-	-	-
FARM WORKERS AND RELATED OCCUPATIONS	21	-	21	5	2	14	-	-	-	-	21	-
PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS	588	521	59	6	15	38	8	-	9	43	419	106
MECHANICS AND REPAIRERS	185	180	5	-	5	-	-	-	5	7	143	30
CONSTRUCTION TRADES	218	162	48	6	10	32	8	-	-	17	155	35
PRECISION PRODUCTION OCCUPATIONS	185	179	6	-	-	6	-	-	4	19	121	41
OPERATORS, FABRICATORS, AND LABORERS	1 576	1 394	174	19	41	114	8	-	52	179	973	286
MACHINE OPERATORS AND TENDERS, EXCEPT PRECISION	352	334	18	3	7	8	-	-	24	34	253	36
FABRICATORS, ASSEMBLERS, INSPECTORS, AND SAMPLERS	660	650	10	2	-	8	-	-	2	38	412	133
TRANSPORTATION OCCUPATIONS	219	125	86	2	20	64	8	-	-	29	135	55
MOTOR VEHICLE OPERATORS	217	125	84	-	20	64	8	-	-	29	135	53
MATERIAL MOVING EQUIPMENT OPERATORS	127	113	14	-	-	14	-	-	-	11	64	50
HANDLERS, EQUIPMENT CLEANERS, HELPERS, AND LABORERS	218	172	46	12	14	20	-	-	26	67	109	12
CONSTRUCTION LABORERS	32	28	4	-	-	4	-	-	-	15	17	-
FREIGHT, STOCK, AND MATERIAL HANDLERS	104	71	33	12	14	7	-	-	23	52	24	5

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

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LANSING-EAST LANSING, MI SMSA

	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY				
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	1 TO 14 HOURS	15 TO 34 HOURS	35 TO 40 HOURS	41+ HOURS
BLACK												
FEMALES 16 YEARS AND OVER	4 376	2 237	2 080	167	1 206	707	59	-	454	761	2 485	432
MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS	885	228	647	34	355	258	10	-	42	67	625	111
EXECUTIVE, ADMINISTRATIVE, AND MANAGERIAL OCCUPATIONS	379	146	223	10	188	25	10	-	7	11	308	45
OFFICIALS AND ADMINISTRATORS, PUBLIC ADMINISTRATION	39	-	39	4	35	-	-	-	7	-	26	6
MANAGEMENT RELATED OCCUPATIONS	148	41	107	6	101	-	-	-	-	6	140	-
PROFESSIONAL SPECIALTY OCCUPATIONS	506	82	424	24	167	233	-	-	35	56	317	66
ENGINEERS AND NATURAL SCIENTISTS	36	21	15	7	8	-	-	-	13	-	23	-
ENGINEERS	16	8	8	-	8	-	-	-	-	-	16	-
HEALTH DIAGNOSING OCCUPATIONS	9	5	4	-	4	-	-	-	-	-	9	-
HEALTH ASSESSMENT AND TREATING OCCUPATIONS	26	9	17	-	12	5	-	-	-	4	9	13
TEACHERS, LIBRARIANS, AND COUNSELORS	301	16	285	13	100	172	-	-	22	42	182	33
TEACHERS, ELEMENTARY AND SECONDARY SCHOOLS	179	6	173	-	17	156	-	-	10	29	116	17
TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS	2 003	971	1 024	99	629	296	8	-	288	360	1 094	185
HEALTH TECHNOLOGISTS AND TECHNICIANS	48	27	21	-	8	13	-	-	6	5	34	3
TECHNOLOGISTS AND TECHNICIANS, EXCEPT HEALTH	106	42	64	6	58	-	-	-	28	16	46	16
SALES OCCUPATIONS	254	211	35	-	15	20	8	-	62	87	79	16
SUPERVISORS AND PROPRIETORS, SALES OCCUPATIONS	11	11	-	-	-	-	-	-	-	6	5	-
SALES REPRESENTATIVES, COMMODITIES AND FINANCE	36	28	-	-	-	-	8	-	-	21	10	5
OTHER SALES OCCUPATIONS	207	172	35	-	15	20	-	-	62	60	64	11
CASHIERS	106	86	20	-	-	20	-	-	31	30	24	11
ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL	1 595	691	904	93	548	263	-	-	192	252	935	150
COMPUTER EQUIPMENT OPERATORS	27	11	16	-	16	-	-	-	-	-	27	-
SECRETARIES, STENOGRAPHERS, AND TYPISTS	453	232	221	20	147	54	-	-	32	20	357	32
FINANCIAL RECORDS PROCESSING OCCUPATIONS	130	54	76	-	51	25	-	-	8	12	94	5
MAIL AND MESSAGE DISTRIBUTING OCCUPATIONS	35	-	35	22	13	-	-	-	-	9	20	6
SERVICE OCCUPATIONS	831	445	345	28	174	143	41	-	110	290	338	27
PRIVATE HOUSEHOLD OCCUPATIONS	28	28	-	-	-	-	-	-	-	21	7	-
PROTECTIVE SERVICE OCCUPATIONS	42	10	32	3	13	16	-	-	-	6	32	4
POLICE AND FIREFIGHTERS	13	-	13	-	13	-	-	-	-	6	7	-
SERVICE OCCUPATIONS, EXCEPT PROTECTIVE AND HOUSEHOLD	761	407	313	25	161	127	41	-	110	263	299	23
FOOD SERVICE OCCUPATIONS	229	124	105	19	64	22	-	-	64	68	49	23
CLEANING AND BUILDING SERVICE OCCUPATIONS, EXCEPT HOUSEHOLD	215	127	80	6	32	42	8	-	4	63	116	-
FARMING, FORESTRY, AND FISHING OCCUPATIONS	11	-	11	6	5	-	-	-	6	-	5	-
FARM OPERATORS AND MANAGERS	-	-	-	-	-	-	-	-	-	-	-	-
FARM WORKERS AND RELATED OCCUPATIONS	11	-	11	6	5	-	-	-	6	-	5	-
PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS	45	39	6	-	6	-	-	-	4	9	18	10
MECHANICS AND REPAIRERS	21	15	6	-	6	-	-	-	-	-	13	8
CONSTRUCTION TRADES	8	8	-	-	-	-	-	-	4	-	-	-
PRECISION PRODUCTION OCCUPATIONS	16	16	-	-	-	-	-	-	-	9	5	2
OPERATORS, FABRICATORS, AND LABORERS	601	554	47	-	37	10	-	-	4	35	405	99
MACHINE OPERATORS AND TENDERS, EXCEPT PRECISION	126	115	11	-	11	-	-	-	4	4	100	9
FABRICATORS, ASSEMBLERS, INSPECTORS, AND SAMPLERS	374	350	24	-	16	8	-	-	-	26	262	66
TRANSPORTATION OCCUPATIONS	28	16	12	-	10	2	-	-	-	5	7	14
MOTOR VEHICLE OPERATORS	28	16	12	-	10	2	-	-	-	5	7	14
MATERIAL MOVING EQUIPMENT OPERATORS	31	31	-	-	-	-	-	-	-	-	19	-
HANDLERS, EQUIPMENT CLEANERS, HELPERS, AND LABORERS	42	42	-	-	-	-	-	-	-	-	17	10
CONSTRUCTION LABORERS	-	-	-	-	-	-	-	-	-	-	-	-
FREIGHT, STOCK, AND MATERIAL HANDLERS	5	5	-	-	-	-	-	-	-	-	-	5

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

TOLEDO, OH-MI SMSA

	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY	1 TO 14	15 TO 34	35 TO 40	41+
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	HOURS	HOURS	HOURS	HOURS
TOTAL												
MALES 16 YEARS AND OVER	187 945	153 481	21 724	3 655	5 866	12 203	12 371	369	5 932	18 381	93 557	63 669
MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS	41 263	28 780	8 841	626	3 153	5 062	3 610	32	809	2 295	17 910	19 364
EXECUTIVE, ADMINISTRATIVE, AND MANAGERIAL OCCUPATIONS	22 317	17 871	2 871	453	875	1 543	1 553	22	268	801	8 946	11 836
OFFICIALS AND ADMINISTRATORS, PUBLIC ADMINISTRATION	517	-	517	61	75	381	-	-	21	35	291	170
ADMINISTRATORS, EDUCATION AND RELATED FIELDS	816	116	693	3	225	465	-	7	13	7	250	530
MANAGERS, MEDICINE AND HEALTH	198	169	29	-	17	12	-	-	-	14	96	83
OTHER SPECIFIED MANAGERS	4 140	3 771	144	56	34	54	223	2	32	46	1 736	2 275
MANAGERS AND ADMINISTRATORS, N.E.C., SALARIED	11 178	10 477	701	143	238	320	-	-	88	388	3 987	6 447
MANUFACTURING	3 491	3 491	-	-	-	-	-	-	8	36	1 469	1 929
TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES	1 123	903	220	103	25	92	-	-	5	25	550	509
WHOLESALE AND RETAIL TRADE	3 301	3 294	7	-	7	-	-	-	23	154	766	2 268
ALL OTHER INDUSTRIES	3 263	2 789	474	40	206	228	-	-	52	173	1 202	1 741
MANAGERS AND ADMINISTRATORS, N.E.C., SELF-EMPLOYED	1 059	-	-	-	-	-	1 046	13	42	92	265	628
CONSTRUCTION	226	-	-	-	-	-	226	-	16	25	79	96
MANUFACTURING	117	-	-	-	-	-	112	5	2	14	28	66
WHOLESALE AND RETAIL TRADE	399	-	-	-	-	-	391	8	5	35	58	292
ALL OTHER INDUSTRIES	317	-	-	-	-	-	317	-	19	18	100	174
MANAGEMENT RELATED OCCUPATIONS	4 409	3 338	787	190	286	311	284	-	72	219	2 321	1 703
ACCOUNTANTS AND AUDITORS	1 789	1 474	134	10	62	62	181	-	25	79	963	697
BUYERS AND PURCHASING AGENTS	763	708	22	-	12	10	33	-	29	31	347	346
PROFESSIONAL SPECIALTY OCCUPATIONS	18 946	10 909	5 970	173	2 278	3 519	2 057	10	541	1 494	8 964	7 528
ENGINEERS, ARCHITECTS, AND SURVEYORS	4 733	4 388	224	26	83	115	121	-	40	129	2 934	1 549
ARCHITECTS	178	103	7	-	-	7	68	-	2	13	65	92
ENGINEERS	4 477	4 213	211	26	83	102	53	-	38	110	2 810	1 444
ELECTRICAL AND ELECTRONIC ENGINEERS	613	607	6	2	4	-	-	-	-	6	378	223
MECHANICAL ENGINEERS	1 176	1 154	12	-	12	-	10	-	19	46	728	365
OTHER ENGINEERS	2 688	2 452	193	24	67	102	43	-	19	58	1 704	856
SURVEYORS AND MAPPING SCIENTISTS	78	72	6	-	-	6	-	-	-	6	59	13
MATHEMATICAL AND COMPUTER SCIENTISTS	451	401	43	28	13	2	7	-	6	29	290	108
COMPUTER SYSTEMS ANALYSTS AND SCIENTISTS	328	298	23	10	13	-	7	-	6	21	217	81
NATURAL SCIENTISTS	581	394	154	24	55	75	33	-	13	21	326	212
HEALTH DIAGNOSING OCCUPATIONS	1 829	987	201	16	164	21	641	-	23	158	447	1 171
PHYSICIANS	1 187	776	179	16	146	17	232	-	17	10	184	958
DENTISTS	372	121	13	-	13	-	238	-	6	62	200	92
OTHER HEALTH DIAGNOSING PRACTITIONERS	270	90	9	-	5	4	171	-	-	86	63	121
HEALTH ASSESSMENT AND TREATING OCCUPATIONS	973	742	173	6	78	89	58	-	30	91	352	500
REGISTERED NURSES	108	82	26	-	20	6	-	-	-	2	59	47
PHARMACISTS	518	441	36	6	29	1	41	-	22	76	91	329
THERAPISTS	288	187	84	-	29	55	17	-	8	9	180	91
TEACHERS, LIBRARIANS, AND COUNSELORS	5 270	878	4 366	27	1 611	2 728	26	-	219	611	2 422	1 838
TEACHERS, POSTSECONDARY	1 508	134	1 374	2	1 316	56	-	-	80	243	484	567
TEACHERS, ELEMENTARY AND PRE-KINDERGARTEN	1 740	258	1 482	-	64	1 418	-	-	40	216	921	551
TEACHERS, SECONDARY	1 354	213	1 141	2	56	1 083	-	-	34	91	631	586
SOCIAL SCIENTISTS AND URBAN PLANNERS	430	259	131	4	24	103	40	-	5	7	262	146
SOCIAL AND RECREATION WORKERS	520	171	349	23	106	220	-	-	11	26	349	124
RELIGIOUS WORKERS	883	715	2	-	2	-	166	-	20	33	238	592
LAWYERS AND JUDGES	1 444	581	204	11	48	145	653	6	41	77	579	719
WRITERS, ARTISTS, ENTERTAINERS, AND ATHLETES	1 832	1 393	123	8	94	21	312	4	133	312	765	569
TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS	29 979	24 674	3 199	1 492	813	894	2 081	25	1 003	2 706	14 268	11 131
TECHNICIANS AND RELATED SUPPORT OCCUPATIONS	4 341	3 650	606	109	247	250	85	-	73	272	2 671	1 194
HEALTH TECHNOLOGISTS AND TECHNICIANS	549	433	116	14	38	64	-	-	12	42	296	180
LICENSED PRACTICAL NURSES	29	29	-	-	-	-	-	-	-	2	13	-
ENGINEERING AND SCIENCE TECHNICIANS	2 640	2 312	270	55	125	90	58	-	25	119	1 664	738
ELECTRICAL AND ELECTRONIC TECHNICIANS	333	272	50	26	18	6	11	-	6	19	211	95
DRAFTING AND SURVEYING TECHNICIANS	1 091	994	68	-	15	53	29	-	16	44	687	329
TECHNICIANS, EXCEPT HEALTH, ENGINEERING, AND SCIENCE	1 152	905	220	40	84	96	27	-	36	111	711	276
AIRPLANE PILOTS AND NAVIGATORS	67	65	-	-	-	-	2	-	-	12	9	44
COMPUTER PROGRAMMERS	402	348	54	-	34	20	-	-	7	26	286	83
SALES OCCUPATIONS	14 608	12 468	161	21	103	37	1 956	23	595	1 438	5 389	6 888
SUPERVISORS AND PROPRIETORS, SALES OCCUPATIONS	2 949	2 334	22	-	15	7	593	-	36	95	870	1 912
SELF-EMPLOYED	593	-	-	-	-	-	593	-	36	21	112	415
SALES REPRESENTATIVES, FINANCE AND BUSINESS SERVICES	3 429	2 698	59	16	15	28	672	-	88	232	1 452	1 537
SALES REPRESENTATIVES, COMMODITIES, EXCEPT RETAIL	3 459	3 198	7	-	7	-	252	2	35	128	1 621	1 631
SALES WORKERS, RETAIL AND PERSONAL SERVICES	4 714	4 212	73	5	66	2	408	21	431	976	1 416	1 793
CASHIERS	611	598	2	-	-	2	11	-	95	224	174	99
SALES RELATED OCCUPATIONS	57	26	-	-	-	-	31	-	5	7	30	15

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

TOLEDO, OH-MI SMSA	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY	1 TO 14	15 TO 34	35 TO 40	41+
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	HOURS	HOURS	HOURS	HOURS
TOTAL												
ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL	11 030	8 556	2 432	1 362	463	607	40	2	335	996	6 208	3 049
SUPERVISORS, ADMINISTRATIVE SUPPORT OCCUPATIONS	1 700	1 288	405	143	106	156	5	2	10	48	908	701
COMPUTER EQUIPMENT OPERATORS	450	369	81	12	33	36	-	-	4	36	257	128
SECRETARIES, STENOGRAPHERS, AND TYPISTS	143	113	30	6	5	19	-	-	28	7	74	23
SECRETARIES	97	90	7	-	-	7	-	-	13	7	48	23
RECEPTIONISTS	57	44	13	-	2	11	-	-	9	32	2	-
FILE CLERKS	115	109	6	-	-	6	-	-	7	6	83	19
FINANCIAL RECORDS PROCESSING OCCUPATIONS	697	638	55	18	23	14	4	-	15	54	384	205
BOOKKEEPERS, ACCOUNTING, AND AUDITING CLERKS	362	328	30	8	8	14	4	-	8	47	178	91
TELEPHONE OPERATORS	88	88	-	-	-	-	-	-	-	2	73	13
MAIL AND MESSAGE DISTRIBUTING OCCUPATIONS	1 269	286	983	964	13	6	-	-	32	148	651	382
TRAFFIC, SHIPPING, STOCK AND INVENTORY CLERKS	2 791	2 653	125	49	20	56	13	-	116	333	1 549	629
INSURANCE ADJUSTERS, EXAMINERS, AND INVESTIGATORS	155	143	-	-	-	-	12	-	-	5	100	43
BANK TELLERS	49	41	8	-	-	8	-	-	-	6	37	6
DATA-ENTRY KEYERS	56	48	8	8	-	-	-	-	-	-	47	9
OTHER ADMINISTRATIVE SUPPORT OCCUPATIONS	3 460	2 736	718	162	261	295	6	-	114	319	2 043	891
SERVICE OCCUPATIONS	16 148	11 074	4 564	220	1 040	3 304	487	23	1 489	3 879	6 591	3 644
PRIVATE HOUSEHOLD OCCUPATIONS	54	54	-	-	-	-	-	-	4	-	39	6
PROTECTIVE SERVICE OCCUPATIONS	4 228	1 720	2 508	60	313	2 135	-	-	119	409	1 937	1 667
FIREFIGHTING OCCUPATIONS	583	2	581	-	13	568	-	-	-	15	68	494
POLICE AND DETECTIVES, PUBLIC SERVICE	999	-	999	25	101	873	-	-	-	6	600	380
GUARDS	1 891	1 563	328	21	156	151	-	-	113	361	807	541
OTHER PROTECTIVE SERVICE OCCUPATIONS	755	155	600	14	43	543	-	-	6	27	462	252
SERVICE OCCUPATIONS, EXCEPT PROTECTIVE AND HOUSEHOLD	11 866	9 300	2 056	160	727	1 169	487	23	1 366	3 470	4 615	1 971
FOOD PREPARATION AND SERVICE OCCUPATIONS	4 425	4 098	219	28	170	21	107	1	802	2 068	903	510
WAITERS AND FOOD COUNTER WORKERS	388	381	1	-	1	-	6	-	84	178	81	38
COOKS	1 920	1 806	86	22	56	8	28	-	278	1 035	402	142
HEALTH SERVICE OCCUPATIONS	552	381	171	-	151	20	-	-	20	115	297	99
NURSING AIDES, ORDERLIES, AND ATTENDANTS	452	296	156	-	141	15	-	-	14	91	251	79
CLEANING AND BUILDING SERVICE OCCUPATIONS EXC. HOUSEHOLD	6 059	4 372	1 565	132	360	1 073	100	22	515	1 036	3 156	1 091
PERSONAL SERVICE OCCUPATIONS	830	449	101	-	46	55	280	-	29	251	259	271
BARBERS, HAIRDRESSERS AND COSMETOLOGISTS	450	186	-	-	-	-	264	-	12	97	137	197
FARMING, FORESTRY, AND FISHING OCCUPATIONS	4 192	1 540	355	19	76	260	2 189	108	375	759	1 325	1 597
FARM OPERATORS AND MANAGERS	2 278	192	-	-	-	-	2 086	-	208	305	572	1 136
FARM OCCUPATIONS, EXCEPT MANAGERIAL	885	750	20	-	3	17	17	98	64	287	238	268
RELATED AGRICULTURAL OCCUPATIONS	927	568	286	19	73	194	67	6	96	155	468	167
FORESTRY AND FISHING OCCUPATIONS	102	30	49	-	-	49	19	4	7	12	47	26
PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS	42 383	37 285	1 878	394	361	1 123	3 070	150	666	3 175	23 182	13 825
MECHANICS AND REPAIRERS	13 946	12 153	817	223	166	428	896	80	200	812	7 602	4 957
AUTOMOBILE MECHANICS, INCLUDING BODY	3 358	2 797	162	13	45	104	356	43	66	265	1 652	1 272
AIRCRAFT MECHANICS	132	105	27	27	-	-	-	-	-	4	75	53
HEATING, AIR CONDITIONING, AND REFRIGERATION MECHANICS	415	315	24	6	7	11	59	17	-	61	243	98
OTHER MECHANICS AND REPAIRERS	10 041	8 936	604	177	114	313	481	20	134	482	5 632	3 534
CONSTRUCTION TRADES	12 968	10 381	649	101	157	391	1 905	33	365	1 771	7 365	2 922
CARPENTERS	2 966	2 178	98	21	26	51	683	7	128	631	1 520	566
ELECTRICIANS	2 448	2 250	109	31	36	42	86	3	35	128	1 451	772
PAINTERS, CONSTRUCTION AND MAINTENANCE	716	443	47	2	3	42	209	17	48	125	392	113
PLUMBERS, PIPEFITTERS, AND STEAMFITTERS	1 959	1 720	103	15	22	66	136	-	9	118	1 315	430
OTHER CONSTRUCTION TRADES	4 879	3 790	292	32	70	190	791	6	145	769	2 687	1 041
EXTRACTIVE OCCUPATIONS	116	111	5	-	-	5	-	-	-	-	31	83
PRECISION PRODUCTION OCCUPATIONS	15 353	14 640	407	70	38	299	269	37	101	592	8 184	5 863
SUPERVISORS, PRODUCTION OCCUPATIONS	6 948	6 778	150	31	6	113	20	-	19	151	3 607	2 993
MANUFACTURING	5 262	5 232	19	6	6	7	11	-	18	72	2 830	2 210
PRECISION METALWORKING OCCUPATIONS	5 346	5 237	41	14	9	18	61	7	45	270	2 919	1 898
TOOL AND DIE MAKERS	2 720	2 696	-	-	-	-	24	-	21	99	1 462	1 041
MACHINISTS	1 548	1 500	25	14	5	6	23	-	7	107	773	564
SHEET METAL WORKERS	379	373	-	-	-	-	6	-	12	35	259	63
OTHER PRECISION METAL WORKERS	699	668	16	-	4	12	8	7	5	29	425	230
PRECISION TEXTILE, APPAREL, AND FURNISHINGS MACHINE WORKERS	211	127	-	-	-	-	58	26	-	47	78	68
PLANT AND SYSTEM OPERATORS	972	799	166	-	21	145	7	-	11	8	523	266
OTHER PRECISION PRODUCTION OCCUPATIONS	1 876	1 699	50	25	2	23	123	4	26	116	1 057	638

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

TOLEDO, OH-MI SMSA

	EMPLOYED PERSONS								PERSONS AT WORK			
	TOTAL	PRIV. WAGE AND SALARY WORKERS	GOVERNMENT WORKERS TOTAL	GOVERNMENT WORKERS FEDERAL	GOVERNMENT WORKERS STATE	GOVERNMENT WORKERS LOCAL	SELF-EMPLOYED WORKERS	UNPAID FAMILY WORKERS	1 TO 14 HOURS	15 TO 34 HOURS	35 TO 40 HOURS	41+ HOURS
TOTAL												
OPERATORS, FABRICATORS, AND LABORERS	53 980	50 128	2 887	904	423	1 560	934	31	1 590	5 567	30 281	14 108
MACHINE OPERATORS, ASSEMBLERS, AND INSPECTORS	26 056	25 252	533	146	104	283	269	2	295	1 786	16 934	5 788
MACHINE OPERATORS AND TENDERS, EXCEPT PRECISION	16 162	15 673	284	30	67	187	203	2	194	1 138	10 416	3 627
METALWORKING AND PLASTIC WORKING MACHINE OPERATORS	3 945	3 917	20	4	8	8	6	2	37	243	2 606	851
PRINTING MACHINE OPERATORS	873	811	-	-	-	-	62	-	14	71	568	201
TEXTILE, APPAREL, AND FURNISHINGS MACHINE OPERATORS	270	238	-	-	-	-	32	-	15	49	120	70
TEXTILE MACHINE OPERATORS	74	74	-	-	-	-	-	-	-	-	31	35
TEXTILE SEWING MACHINE OPERATORS	14	14	-	-	-	-	-	-	-	6	8	-
LAUNDERING AND DRYCLEANING MACHINE OPERATORS	175	150	-	-	-	-	25	-	15	43	81	28
OTHER SPECIFIED MACHINE OPERATORS	4 851	4 618	175	-	39	136	58	-	65	357	3 015	1 171
MISCELLANEOUS AND NOT SPECIFIED MACHINE OPERATORS	6 223	6 089	89	26	20	43	45	-	63	418	4 107	1 334
OCCUPATION:												
MISCELLANEOUS MACHINE OPERATORS, N.E.C.	1 642	1 606	20	11	-	9	16	-	3	114	1 057	417
MACHINE OPERATORS, NOT SPECIFIED	4 581	4 483	69	15	20	34	29	-	60	304	3 050	917
INDUSTRY:												
MANUFACTURING	5 719	5 631	45	7	20	18	43	-	54	334	3 813	1 235
NONDURABLE GOODS	1 261	1 231	24	4	14	6	6	-	20	113	807	234
FOOD AND KINDRED PRODUCTS	257	251	-	-	-	-	6	-	-	34	104	99
TEXTILE MILL AND FINISHED TEXTILE PRODUCTS	121	121	-	-	-	-	-	-	-	-	110	11
PAPER AND ALLIED PRODUCTS	331	325	6	-	-	6	-	-	6	39	192	71
OTHER NONDURABLE GOODS	552	534	18	4	14	-	-	-	14	40	401	53
DURABLE GOODS, INCLUDING NOT SPECIFIED MFG	4 458	4 400	21	3	6	12	37	-	34	221	3 006	1 001
METAL INDUSTRIES	961	943	11	-	6	5	7	-	5	39	582	235
MACHINERY, INCLUDING ELECTRICAL	899	883	-	-	-	-	16	-	13	51	557	241
TRANSPORTATION EQUIPMENT	1 676	1 666	10	3	-	7	-	-	5	65	1 278	295
OTHER DURABLE GOODS	922	908	-	-	-	-	14	-	11	66	589	230
NONMANUFACTURING INDUSTRIES	504	458	44	19	-	25	2	-	9	84	294	99
TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES	194	165	29	19	-	10	-	-	3	14	113	57
WHOLESALE AND RETAIL TRADE	120	118	-	-	-	-	2	-	6	18	82	11
ALL OTHER INDUSTRIES	190	175	15	-	-	15	-	-	-	52	99	31
FABRICATORS, ASSEMBLERS, AND HAND WORKING OCCUPATIONS	7 260	7 030	164	62	29	73	66	-	83	525	4 705	1 595
WELDERS AND CUTTERS	2 863	2 745	89	51	9	29	29	-	46	217	1 764	727
ASSEMBLERS	4 152	4 077	68	11	13	44	7	-	31	289	2 795	794
OTHER FABRICATORS AND HAND WORKING OCCUPATIONS	245	208	7	-	7	-	30	-	6	19	146	74
PRODUCTION INSPECTORS, TESTERS, SAMPLERS, AND WEIGHERS	2 634	2 549	85	54	8	23	-	-	18	123	1 813	566
TRANSPORTATION AND MATERIAL MOVING OCCUPATIONS	15 937	13 962	1 400	575	175	650	568	7	418	1 158	7 396	6 260
MOTOR VEHICLE OPERATORS	9 391	8 202	671	54	113	504	511	7	329	722	3 542	4 403
TRUCK DRIVERS AND DRIVER-SALES WORKERS	8 604	7 760	371	37	73	261	466	7	271	616	3 237	4 111
BUS DRIVERS	347	66	281	10	34	237	-	-	29	71	141	97
RAIL AND WATER TRANSPORTATION OCCUPATIONS	2 083	1 570	506	490	11	5	7	-	43	120	1 014	779
MATERIAL MOVING EQUIPMENT OPERATORS	4 463	4 190	223	31	51	141	50	-	46	316	2 840	1 078
EXCAVATING, GRADING, AND DOZER MACHINE OPERATORS	226	173	22	5	-	17	31	-	-	61	80	78
HANDLERS, EQUIPMENT CLEANERS, HELPERS, AND LABORERS	11 987	10 914	954	183	144	627	97	22	877	2 623	5 951	2 060
CONSTRUCTION LABORERS	1 579	1 221	344	26	28	290	-	14	71	224	1 045	176
FREIGHT, STOCK, AND MATERIAL HANDLERS	4 127	3 879	240	68	33	139	2	6	388	1 299	1 538	718
GARAGE AND SERVICE STATION RELATED OCCUPATIONS	1 204	1 162	5	-	-	5	37	-	147	431	378	203
HAND PACKERS AND PACKAGERS	728	683	45	6	14	25	-	-	11	99	430	153
OTHER SPECIFIED HANDLERS, EQUIPMENT CLEANERS, AND HELPERS	954	894	51	28	2	21	9	-	59	204	539	125
LABORERS, EXCEPT CONSTRUCTION	3 395	3 075	269	55	67	147	49	2	201	366	2 021	685
MANUFACTURING	1 781	1 754	13	-	6	7	14	-	64	151	1 189	323
NONDURABLE GOODS	399	388	-	-	-	-	11	-	23	47	246	60
DURABLE GOODS, INCLUDING NOT SPECIFIED MFG	1 382	1 366	13	-	6	7	3	-	41	104	943	263
METAL INDUSTRIES	492	488	4	-	4	-	-	-	19	45	311	116
NONMANUFACTURING INDUSTRIES	1 614	1 321	256	55	61	140	35	2	137	215	832	362
TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES	400	286	109	51	18	40	3	2	10	51	263	63
WHOLESALE AND RETAIL TRADE	807	794	7	-	-	7	6	-	66	89	384	236
ALL OTHER INDUSTRIES	407	241	140	4	43	93	26	-	61	75	185	63

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

TOLEDO, OH-MI SMSA

	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY	1 TO 14	15 TO 34	35 TO 40	41+
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	HOURS	HOURS	HOURS	HOURS
TOTAL												
FEMALES 16 YEARS AND OVER	136 000	105 413	25 800	2 058	7 802	15 940	3 811	976	11 214	35 887	67 212	15 279
MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS	28 567	16 207	11 107	393	2 613	8 101	1 076	177	1 907	5 839	14 666	5 077
EXECUTIVE, ADMINISTRATIVE, AND MANAGERIAL OCCUPATIONS	8 627	6 621	1 379	207	439	733	482	145	362	1 008	4 930	2 103
OFFICIALS AND ADMINISTRATORS, PUBLIC ADMINISTRATION	299	-	299	52	50	197	-	-	21	48	207	9
ADMINISTRATORS, EDUCATION AND RELATED FIELDS	573	236	328	10	100	218	9	-	46	93	305	115
MANAGERS, MEDICINE AND HEALTH	172	129	14	-	12	2	21	8	7	25	103	37
OTHER SPECIFIED MANAGERS	1 383	1 183	120	46	32	42	53	27	30	111	944	279
MANAGERS AND ADMINISTRATORS, N.E.C., SALARIED	3 568	3 247	321	35	118	168	-	-	120	349	1 919	1 072
MANUFACTURING	311	311	-	-	-	-	-	-	13	29	212	51
TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES	111	105	6	6	-	-	-	-	-	12	71	28
WHOLESALE AND RETAIL TRADE	1 591	1 576	15	-	13	2	-	-	43	148	718	609
ALL OTHER INDUSTRIES	1 555	1 255	300	29	105	166	-	-	64	160	918	384
MANAGERS AND ADMINISTRATORS, N.E.C., SELF-EMPLOYED	449	-	-	-	-	-	339	110	40	91	148	170
CONSTRUCTION	2	-	-	-	-	-	2	-	-	-	2	-
MANUFACTURING	33	-	-	-	-	-	33	-	5	6	-	22
WHOLESALE AND RETAIL TRADE	230	-	-	-	-	-	186	44	18	52	82	78
ALL OTHER INDUSTRIES	184	-	-	-	-	-	118	66	17	33	64	70
MANAGEMENT RELATED OCCUPATIONS	2 183	1 826	297	64	127	106	60	-	98	291	1 304	421
ACCOUNTANTS AND AUDITORS	904	785	102	25	23	54	17	-	22	110	610	150
BUYERS AND PURCHASING AGENTS	451	413	38	6	17	15	-	-	6	46	250	138
PROFESSIONAL SPECIALTY OCCUPATIONS	19 940	9 586	9 728	186	2 174	7 368	594	32	1 545	4 831	9 736	2 974
ENGINEERS, ARCHITECTS, AND SURVEYORS	166	151	9	-	2	7	6	-	-	8	96	56
ARCHITECTS	13	7	-	-	-	-	6	-	-	-	13	-
ENGINEERS	147	138	9	-	2	7	-	-	-	8	83	50
ELECTRICAL AND ELECTRONIC ENGINEERS	28	28	-	-	-	-	-	-	-	2	20	6
MECHANICAL ENGINEERS	8	8	-	-	-	-	-	-	-	-	8	-
OTHER ENGINEERS	111	102	9	-	2	7	-	-	-	6	55	44
SURVEYORS AND MAPPING SCIENTISTS	6	6	-	-	-	-	-	-	-	-	-	6
MATHEMATICAL AND COMPUTER SCIENTISTS	193	171	17	7	8	2	5	-	-	-	171	15
COMPUTER SYSTEMS ANALYSTS AND SCIENTISTS	114	101	13	5	8	-	-	-	-	-	103	11
NATURAL SCIENTISTS	113	59	47	-	25	22	7	-	2	10	54	47
HEALTH DIAGNOSING OCCUPATIONS	220	122	73	6	67	-	25	-	6	27	64	117
PHYSICIANS	175	87	73	6	67	-	15	-	-	17	52	106
DENTISTS	22	12	-	-	-	-	10	-	-	-	5	11
OTHER HEALTH DIAGNOSING PRACTITIONERS	23	23	-	-	-	-	-	-	6	10	7	-
HEALTH ASSESSMENT AND TREATING OCCUPATIONS	5 747	4 653	1 047	39	659	349	39	8	243	1 718	2 827	659
REGISTERED NURSES	4 667	3 908	738	12	515	211	19	2	184	1 474	2 262	520
PHARMACISTS	213	193	12	-	12	-	8	-	24	29	97	46
THERAPISTS	603	375	218	7	104	107	10	-	18	163	309	73
TEACHERS, LIBRARIANS, AND COUNSELORS	10 481	2 704	7 513	59	1 122	6 332	250	14	986	2 480	5 057	1 507
TEACHERS, POSTSECONDARY	771	220	551	-	526	25	-	-	92	191	262	91
TEACHERS, ELEMENTARY AND PRE-KINDERGARTEN	6 220	1 603	4 607	25	240	4 342	10	-	442	1 403	3 260	921
TEACHERS, SECONDARY	1 888	376	1 512	26	63	1 423	-	-	155	411	953	329
SOCIAL SCIENTISTS AND URBAN PLANNERS	227	128	99	16	13	70	-	-	5	34	135	43
SOCIAL AND RECREATION WORKERS	1 040	283	757	40	192	525	-	-	39	148	685	142
RELIGIOUS WORKERS	197	179	-	-	-	-	18	-	32	50	30	85
LAWYERS AND JUDGES	140	57	62	-	27	35	14	7	10	13	66	45
WRITERS, ARTISTS, ENTERTAINERS, AND ATHLETES	1 416	1 079	104	19	59	26	230	3	222	343	551	258
TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS	61 847	51 249	8 885	1 392	3 301	4 192	1 219	494	4 604	15 906	32 976	5 974
TECHNICIANS AND RELATED SUPPORT OCCUPATIONS	5 307	4 496	782	42	468	272	25	4	187	1 510	2 880	536
HEALTH TECHNOLOGISTS AND TECHNICIANS	4 272	3 805	453	10	310	133	12	2	128	1 319	2 289	392
LICENSED PRACTICAL NURSES	2 412	2 139	261	-	188	73	12	-	67	820	1 260	158
ENGINEERING AND SCIENCE TECHNICIANS	326	226	100	9	72	19	-	-	18	57	180	40
ELECTRICAL AND ELECTRONIC TECHNICIANS	14	14	-	-	-	-	-	-	-	2	5	7
DRAFTING AND SURVEYING TECHNICIANS	60	56	4	-	-	4	-	-	-	5	50	5
TECHNICIANS, EXCEPT HEALTH, ENGINEERING, AND SCIENCE	709	465	229	23	86	120	13	2	41	134	411	104
AIRPLANE PILOTS AND NAVIGATORS	-	-	-	-	-	-	-	-	-	-	-	-
COMPUTER PROGRAMMERS	266	217	41	-	26	15	8	-	7	35	165	47
SALES OCCUPATIONS	15 953	14 566	331	14	186	131	937	119	2 092	6 381	5 095	1 525
SUPERVISORS AND PROPRIETORS, SALES OCCUPATIONS	1 252	1 047	12	-	10	2	185	8	20	177	613	388
SELF-EMPLOYED	193	-	-	-	-	-	185	8	20	37	62	74
SALES REPRESENTATIVES, FINANCE AND BUSINESS SERVICES	1 552	1 307	5	5	-	-	229	11	109	439	651	220
SALES REPRESENTATIVES, COMMODITIES, EXCEPT RETAIL	425	386	-	-	-	-	34	5	21	62	234	97
SALES WORKERS, RETAIL AND PERSONAL SERVICES	12 652	11 754	314	9	176	129	489	95	1 928	5 660	3 595	812
CASHIERS	5 412	5 063	259	9	121	129	55	35	650	2 400	1 620	446
SALES RELATED OCCUPATIONS	72	72	-	-	-	-	-	-	14	43	2	8

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

TOLEDO, OH-MI SMSA

	EMPLOYED PERSONS								PERSONS AT WORK			
	TOTAL	PRIV. WAGE AND SALARY WORKERS	GOVERNMENT WORKERS				SELF-EMPLOYED WORKERS	UNPAID FAMILY WORKERS	1 TO 14 HOURS	15 TO 34 HOURS	35 TO 40 HOURS	41+ HOURS
			TOTAL	FEDERAL	STATE	LOCAL						
TOTAL												
ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL	40 587	32 187	7 772	1 336	2 647	3 789	257	371	2 325	8 015	25 001	3 913
SUPERVISORS, ADMINISTRATIVE SUPPORT OCCUPATIONS	1 338	1 048	286	23	99	164	-	4	44	110	891	247
COMPUTER EQUIPMENT OPERATORS	811	697	108	27	46	35	6	-	13	146	528	120
SECRETARIES, STENOGRAPHERS, AND TYPISTS	15 091	11 757	3 090	193	1 306	1 591	69	175	667	2 715	10 038	1 295
SECRETARIES	13 017	10 448	2 373	132	1 031	1 210	40	156	600	2 335	8 618	1 145
RECEPTIONISTS	1 599	1 415	168	12	72	84	6	10	148	519	762	107
FILE CLERKS	533	367	160	27	77	56	-	6	87	122	235	41
FINANCIAL RECORDS PROCESSING OCCUPATIONS	6 082	5 307	536	28	185	323	124	115	319	1 038	3 810	749
BOOKKEEPERS, ACCOUNTING, AND AUDITING CLERKS	4 909	4 274	396	28	138	230	124	115	267	866	3 080	565
TELEPHONE OPERATORS	810	715	89	6	51	32	6	-	12	175	551	51
MAIL AND MESSAGE DISTRIBUTING OCCUPATIONS	1 011	361	645	607	11	27	5	-	191	152	504	126
TRAFFIC, SHIPPING, STOCK AND INVENTORY CLERKS	945	895	50	-	23	27	-	-	30	182	606	91
INSURANCE ADJUSTERS, EXAMINERS, AND INVESTIGATORS	213	207	6	-	6	-	-	-	-	14	159	40
BANK TELLERS	1 531	1 478	53	36	5	12	-	-	52	352	996	96
DATA-ENTRY KEYERS	894	831	61	13	32	16	2	-	19	98	597	140
OTHER ADMINISTRATIVE SUPPORT OCCUPATIONS	9 729	7 109	2 520	364	734	1 422	39	61	743	2 392	5 324	810
SERVICE OCCUPATIONS	28 925	23 270	4 557	208	1 671	2 678	992	106	3 849	10 924	10 154	2 251
PRIVATE HOUSEHOLD OCCUPATIONS	1 374	1 354	-	-	-	-	20	-	376	540	264	119
PROTECTIVE SERVICE OCCUPATIONS	662	373	289	9	45	235	-	-	46	162	252	148
FIREFIGHTING OCCUPATIONS	7	-	7	-	-	7	-	-	-	-	-	7
POLICE AND DETECTIVES, PUBLIC SERVICE	53	-	53	-	-	53	-	-	-	25	20	8
GUARDS	508	365	143	3	38	102	-	-	46	137	158	122
OTHER PROTECTIVE SERVICE OCCUPATIONS	94	8	86	6	7	73	-	-	-	-	74	11
SERVICE OCCUPATIONS, EXCEPT PROTECTIVE AND HOUSEHOLD	26 889	21 543	4 268	199	1 626	2 443	972	106	3 427	10 222	9 638	1 984
FOOD PREPARATION AND SERVICE OCCUPATIONS	13 578	11 640	1 777	43	707	1 027	113	48	2 097	5 959	3 546	948
WAITERS AND FOOD COUNTER WORKERS	6 890	6 733	123	-	108	15	24	10	1 061	3 398	1 553	456
COOKS	2 787	2 160	567	28	167	372	38	22	293	1 006	1 042	247
HEALTH SERVICE OCCUPATIONS	5 722	4 931	754	50	426	278	13	24	305	1 703	3 050	395
NURSING AIDES, ORDERLIES, AND ATTENDANTS	3 951	3 280	646	43	361	242	13	12	212	1 107	2 143	279
CLEANING AND BUILDING SERVICE OCCUPATIONS EXC. HOUSEHOLD	3 811	2 846	874	70	311	493	61	30	466	1 134	1 814	200
PERSONAL SERVICE OCCUPATIONS	3 778	2 126	863	36	182	645	785	4	559	1 426	1 228	441
BARBERS, HAIRDRESSERS AND COSMETOLOGISTS	1 601	1 125	9	-	9	-	467	-	133	700	543	179
FARMING, FORESTRY, AND FISHING OCCUPATIONS	904	520	29	7	16	6	226	129	121	281	303	161
FARM OPERATORS AND MANAGERS	197	11	-	-	-	-	186	-	53	41	37	63
FARM OCCUPATIONS, EXCEPT MANAGERIAL	541	420	-	-	-	-	-	121	40	189	212	76
RELATED AGRICULTURAL OCCUPATIONS	166	89	29	7	16	6	40	8	28	51	54	22
FORESTRY AND FISHING OCCUPATIONS	-	-	-	-	-	-	-	-	-	-	-	-
PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS	2 453	2 114	141	2	58	81	187	11	152	376	1 406	423
MECHANICS AND REPAIRERS	360	306	45	-	21	24	2	7	35	9	237	49
AUTOMOBILE MECHANICS, INCLUDING BODY	44	44	-	-	-	-	-	-	-	-	29	15
AIRCRAFT MECHANICS	7	7	-	-	-	-	-	-	-	-	7	-
HEATING, AIR CONDITIONING, AND REFRIGERATION MECHANICS	-	-	-	-	-	-	-	-	-	-	-	-
OTHER MECHANICS AND REPAIRERS	309	255	45	-	21	24	2	7	35	9	201	34
CONSTRUCTION TRADES	214	170	8	-	2	6	36	-	25	40	94	38
CARPENTERS	20	13	2	-	2	-	5	-	-	7	11	-
ELECTRICIANS	44	44	-	-	-	-	-	-	-	8	29	7
PAINTERS, CONSTRUCTION AND MAINTENANCE	66	48	6	-	-	6	12	-	12	15	24	6
PLUMBERS, PIPEFITTERS, AND STEAMFITTERS	18	18	-	-	-	-	-	-	-	-	5	13
OTHER CONSTRUCTION TRADES	66	47	-	-	-	-	19	-	13	10	25	12
EXTRACTIVE OCCUPATIONS	8	8	-	-	-	-	-	-	-	-	2	6
PRECISION PRODUCTION OCCUPATIONS	1 871	1 630	88	2	35	51	149	4	92	327	1 073	330
SUPERVISORS, PRODUCTION OCCUPATIONS	603	558	41	-	19	22	4	-	7	53	378	153
MANUFACTURING	351	330	21	-	8	13	-	-	2	14	227	96
PRECISION METALWORKING OCCUPATIONS	109	109	-	-	-	-	-	-	10	13	58	24
TOOL AND DIE MAKERS	5	5	-	-	-	-	-	-	-	-	3	2
MACHINISTS	45	45	-	-	-	-	-	-	-	-	41	4
SHEET METAL WORKERS	4	4	-	-	-	-	-	-	-	-	-	-
OTHER PRECISION METAL WORKERS	55	55	-	-	-	-	-	-	10	13	14	18
PRECISION TEXTILE, APPAREL, AND FURNISHINGS MACHINE WORKERS	359	267	2	-	2	-	88	2	28	114	192	20
PLANT AND SYSTEM OPERATORS	75	54	21	-	-	21	-	-	7	-	62	-
OTHER PRECISION PRODUCTION OCCUPATIONS	725	642	24	2	14	8	57	2	40	147	383	133

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

TOLEDO, OH-MI SMSA

	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY				
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	1 TO 14 HOURS	15 TO 34 HOURS	35 TO 40 HOURS	41+ HOURS
TOTAL												
OPERATORS, FABRICATORS, AND LABORERS	13 304	12 053	1 081	56	143	882	111	59	581	2 561	7 707	1 393
MACHINE OPERATORS, ASSEMBLERS, AND INSPECTORS	8 733	8 504	157	19	44	94	53	19	238	1 072	5 791	876
MACHINE OPERATORS AND TENDERS, EXCEPT PRECISION	5 056	4 870	141	12	44	85	26	19	169	657	3 273	539
METALWORKING AND PLASTIC WORKING MACHINE OPERATORS	858	852	6	6	-	-	-	-	40	101	531	80
PRINTING MACHINE OPERATORS	310	245	44	6	13	25	7	14	13	55	154	70
TEXTILE, APPAREL, AND FURNISHINGS MACHINE OPERATORS	917	869	35	-	24	11	13	-	43	260	532	29
TEXTILE MACHINE OPERATORS	27	27	-	-	-	-	-	-	-	-	27	-
TEXTILE SEWING MACHINE OPERATORS	346	337	3	-	3	-	6	-	4	84	216	17
LAUNDERING AND DRYCLEANING MACHINE OPERATORS	423	387	29	-	18	11	7	-	39	118	243	12
OTHER SPECIFIED MACHINE OPERATORS	1 228	1 187	36	-	7	29	-	5	56	136	835	126
MISCELLANEOUS AND NOT SPECIFIED MACHINE OPERATORS	1 743	1 717	20	-	-	20	6	-	17	105	1 221	234
OCCUPATION:												
MISCELLANEOUS MACHINE OPERATORS, N.E.C.	424	422	-	-	-	-	2	-	7	39	314	27
MACHINE OPERATORS, NOT SPECIFIED	1 319	1 295	20	-	-	20	4	-	10	66	907	207
INDUSTRY:												
MANUFACTURING	1 591	1 578	9	-	-	9	4	-	10	92	1 136	204
NONDURABLE GOODS	677	668	9	-	-	9	-	-	10	45	497	79
FOOD AND KINDRED PRODUCTS	133	124	9	-	-	9	-	-	2	11	93	11
TEXTILE MILL AND FINISHED TEXTILE PRODUCTS	38	38	-	-	-	-	-	-	-	11	22	-
PAPER AND ALLIED PRODUCTS	129	129	-	-	-	-	-	-	-	14	87	20
OTHER NONDURABLE GOODS	377	377	-	-	-	-	-	-	8	9	295	48
DURABLE GOODS, INCLUDING NOT SPECIFIED MFG	914	910	-	-	-	-	4	-	-	47	639	125
METAL INDUSTRIES	219	219	-	-	-	-	-	-	-	17	130	58
MACHINERY, INCLUDING ELECTRICAL	270	270	-	-	-	-	-	-	-	19	194	19
TRANSPORTATION EQUIPMENT	179	179	-	-	-	-	-	-	-	-	117	25
OTHER DURABLE GOODS	246	242	-	-	-	-	4	-	-	11	198	23
NONMANUFACTURING INDUSTRIES	152	139	11	-	-	11	2	-	7	13	85	30
TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES	-	-	-	-	-	-	-	-	-	-	-	-
WHOLESALE AND RETAIL TRADE	58	58	-	-	-	-	-	-	-	2	39	10
ALL OTHER INDUSTRIES	94	81	11	-	-	11	2	-	7	11	46	20
FABRICATORS, ASSEMBLERS, AND HAND WORKING OCCUPATIONS	2 281	2 256	4	-	-	4	21	-	44	246	1 584	171
WELDERS AND CUTTERS	126	126	-	-	-	-	-	-	6	3	89	23
ASSEMBLERS	2 071	2 053	4	-	-	4	14	-	29	231	1 437	143
OTHER FABRICATORS AND HAND WORKING OCCUPATIONS	84	77	-	-	-	-	7	-	9	12	58	5
PRODUCTION INSPECTORS, TESTERS, SAMPLERS, AND WEIGHERS	1 396	1 378	12	7	-	5	6	-	25	169	934	166
TRANSPORTATION AND MATERIAL MOVING OCCUPATIONS	1 656	779	835	27	70	738	42	-	220	746	388	202
MOTOR VEHICLE OPERATORS	1 445	579	824	22	70	732	42	-	220	711	272	161
TRUCK DRIVERS AND DRIVER-SALES WORKERS	375	305	31	3	5	23	39	-	92	80	95	106
BUS DRIVERS	974	199	775	19	54	702	-	-	113	591	161	36
RAIL AND WATER TRANSPORTATION OCCUPATIONS	5	-	5	5	-	-	-	-	-	5	-	-
MATERIAL MOVING EQUIPMENT OPERATORS	206	200	6	-	-	6	-	-	-	30	116	41
EXCAVATING, GRADING, AND DOZER MACHINE OPERATORS	19	19	-	-	-	-	-	-	-	5	7	7
HANDLERS, EQUIPMENT CLEANERS, HELPERS, AND LABORERS	2 915	2 770	89	10	29	50	16	40	123	743	1 528	315
CONSTRUCTION LABORERS	20	15	5	-	-	5	-	-	6	-	14	-
FREIGHT, STOCK, AND MATERIAL HANDLERS	702	679	-	-	-	-	7	16	44	278	270	89
GARAGE AND SERVICE STATION RELATED OCCUPATIONS	84	83	-	-	-	-	-	1	16	26	18	8
HAND PACKERS AND PACKAGERS	1 152	1 102	38	10	7	21	3	9	30	210	704	120
OTHER SPECIFIED HANDLERS, EQUIPMENT CLEANERS, AND HELPERS	152	134	18	-	14	4	-	-	1	46	92	5
LABORERS, EXCEPT CONSTRUCTION	805	757	28	-	8	20	6	14	26	183	430	93
MANUFACTURING	446	444	-	-	-	-	-	2	8	41	289	61
NONDURABLE GOODS	203	201	-	-	-	-	-	2	4	24	143	11
DURABLE GOODS, INCLUDING NOT SPECIFIED MFG.	243	243	-	-	-	-	-	-	4	17	146	50
METAL INDUSTRIES	65	65	-	-	-	-	-	-	-	5	38	16
NONMANUFACTURING INDUSTRIES	359	313	28	-	8	20	6	12	18	142	141	32
TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES	38	38	-	-	-	-	-	-	-	7	12	4
WHOLESALE AND RETAIL TRADE	153	138	2	-	-	2	6	7	7	26	92	23
ALL OTHER INDUSTRIES	168	137	26	-	8	18	-	5	11	109	37	5

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

TOLEDO, OH-MI SMSA	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY	1 TO 14	15 TO 34	35 TO 40	41+
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	HOURS	HOURS	HOURS	HOURS
WHITE												
MALES 16 YEARS AND OVER	174 461	142 933	19 237	3 209	5 117	10 911	11 943	348	5 412	16 897	85 474	60 923
MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS	39 046	27 510	8 031	545	2 863	4 623	3 473	32	732	2 092	16 711	18 682
EXECUTIVE, ADMINISTRATIVE, AND MANAGERIAL OCCUPATIONS	21 428	17 273	2 623	406	819	1 398	1 510	22	239	745	8 463	11 540
OFFICIALS AND ADMINISTRATORS, PUBLIC ADMINISTRATION	470	-	470	61	69	340	-	-	21	35	244	170
MANAGEMENT RELATED OCCUPATIONS	4 150	3 151	720	173	257	290	279	-	72	207	2 129	1 658
PROFESSIONAL SPECIALTY OCCUPATIONS	17 618	10 237	5 408	139	2 044	3 225	1 963	10	493	1 347	8 248	7 142
ENGINEERS AND NATURAL SCIENTISTS	5 478	4 931	393	78	133	182	154	-	59	154	3 312	1 845
ENGINEERS	4 247	4 014	187	26	65	96	46	-	38	103	2 605	1 426
HEALTH DIAGNOSING OCCUPATIONS	1 599	849	174	11	142	21	576	-	23	153	399	1 000
HEALTH ASSESSMENT AND TREATING OCCUPATIONS	924	699	167	6	72	89	58	-	30	91	337	466
TEACHERS, LIBRARIANS, AND COUNSELORS	4 788	777	3 985	16	1 465	2 504	26	-	177	520	2 170	1 761
TEACHERS, ELEMENTARY AND SECONDARY SCHOOLS	2 842	445	2 397	2	97	2 298	-	-	66	260	1 409	1 093
TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS	28 391	23 513	2 796	1 323	663	810	2 057	25	954	2 486	13 374	10 779
HEALTH TECHNOLOGISTS AND TECHNICIANS	504	394	110	14	32	64	-	-	12	42	265	166
TECHNOLOGISTS AND TECHNICIANS, EXCEPT HEALTH	3 551	3 011	455	95	184	176	85	-	61	200	2 249	951
SALES OCCUPATIONS	14 157	12 049	153	21	95	37	1 932	23	573	1 331	5 194	6 771
SUPERVISORS AND PROPRIETORS, SALES OCCUPATIONS	2 850	2 262	14	-	7	7	574	-	36	82	835	1 871
SALES REPRESENTATIVES, COMMODITIES AND FINANCE	6 735	5 743	66	16	22	28	924	2	117	346	2 981	3 127
OTHER SALES OCCUPATIONS	4 572	4 044	73	5	66	2	434	21	420	903	1 378	1 773
CASHIERS	549	541	2	-	-	2	6	-	83	188	165	94
ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL	10 179	8 059	2 078	1 193	352	533	40	2	308	913	5 666	2 891
COMPUTER EQUIPMENT OPERATORS	421	346	75	12	33	30	-	-	4	36	240	120
SECRETARIES, STENOGRAPHERS, AND TYPISTS	121	98	23	4	-	19	-	-	28	7	57	23
FINANCIAL RECORDS PROCESSING OCCUPATIONS	684	631	49	18	23	8	4	-	15	54	371	205
MAIL AND MESSAGE DISTRIBUTING OCCUPATIONS	1 132	265	867	854	13	-	-	-	32	142	555	347
SERVICE OCCUPATIONS	13 950	9 570	3 942	171	848	2 923	415	23	1 282	3 506	5 464	3 232
PRIVATE HOUSEHOLD OCCUPATIONS	48	48	-	-	-	-	-	-	4	-	39	-
PROTECTIVE SERVICE OCCUPATIONS	3 836	1 569	2 267	54	267	1 946	-	-	105	395	1 689	1 553
POLICE AND FIREFIGHTERS	1 456	2	1 454	19	93	1 342	-	-	-	15	623	799
SERVICE OCCUPATIONS, EXCEPT PROTECTIVE AND HOUSEHOLD	10 066	7 953	1 675	117	581	977	415	23	1 173	3 111	3 736	1 679
FOOD SERVICE OCCUPATIONS	3 910	3 631	172	8	143	21	106	1	702	1 893	768	433
CLEANING AND BUILDING SERVICE OCCUPATIONS, EXCEPT HOUSEHOLD	4 992	3 580	1 310	109	298	903	80	22	427	872	2 542	926
FARMING, FORESTRY, AND FISHING OCCUPATIONS	4 046	1 443	315	11	70	234	2 182	106	374	736	1 245	1 562
FARM OPERATORS AND MANAGERS	2 269	190	-	-	-	-	2 079	-	208	300	572	1 132
FARM WORKERS AND RELATED OCCUPATIONS	1 681	1 223	272	11	70	191	84	102	159	424	632	404
PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS	40 172	35 390	1 686	350	323	1 013	2 965	131	587	2 965	21 888	13 319
MECHANICS AND REPAIRERS	13 186	11 524	753	199	149	405	843	66	181	759	7 120	4 773
CONSTRUCTION TRADES	12 305	9 852	567	95	140	332	1 858	28	318	1 676	7 005	2 829
PRECISION PRODUCTION OCCUPATIONS	14 567	13 905	361	56	34	271	264	37	88	530	7 734	5 634
OPERATORS, FABRICATORS, AND LABORERS	48 856	45 507	2 467	809	350	1 308	851	31	1 483	5 112	26 792	13 349
MACHINE OPERATORS AND TENDERS, EXCEPT PRECISION	14 398	13 989	222	23	39	160	185	2	161	1 015	9 242	3 354
FABRICATORS, ASSEMBLERS, INSPECTORS, AND SAMPLERS	8 946	8 655	225	99	37	89	66	-	76	588	5 755	2 097
TRANSPORTATION OCCUPATIONS	10 839	9 314	1 050	523	111	416	468	7	362	779	4 203	4 992
MOTOR VEHICLE OPERATORS	8 788	7 762	558	40	107	411	461	7	326	659	3 210	4 217
MATERIAL MOVING EQUIPMENT OPERATORS	3 938	3 679	209	26	49	134	50	-	46	294	2 437	989
HANDLERS, EQUIPMENT CLEANERS, HELPERS, AND LABORERS	10 735	9 870	761	138	114	509	82	22	838	2 436	5 155	1 917
CONSTRUCTION LABORERS	1 389	1 079	296	20	28	248	-	14	64	183	927	160
FREIGHT, STOCK, AND MATERIAL HANDLERS	3 858	3 673	179	64	21	94	-	6	375	1 242	1 393	693

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

[DATA ARE ESTIMATES BASED ON A SAMPLE; SEE INTRODUCTION. FOR MEANING OF SYMBOLS, SEE INTRODUCTION. FOR DEFINITIONS OF TERMS, SEE APPENDIXES A AND B]

TOLEDO, OH-MI SMSA

	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY	1 TO 14	15 TO 34	35 TO 40	41+
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	HOURS	HOURS	HOURS	HOURS
WHITE												
FEMALES 16 YEARS AND OVER	123 619	96 664	22 329	1 538	6 878	13 913	3 660	966	10 336	33 193	60 090	14 245
MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS	26 303	15 317	9 772	274	2 346	7 152	1 037	177	1 824	5 289	13 390	4 808
EXECUTIVE, ADMINISTRATIVE, AND MANAGERIAL OCCUPATIONS	8 025	6 280	1 139	150	375	614	461	145	362	935	4 472	2 045
OFFICIALS AND ADMINISTRATORS, PUBLIC ADMINISTRATION	237	-	237	38	33	166	-	-	21	40	159	9
MANAGEMENT RELATED OCCUPATIONS	1 986	1 711	220	34	104	82	55	-	98	275	1 143	408
PROFESSIONAL SPECIALTY OCCUPATIONS	18 278	9 037	8 633	124	1 971	6 538	576	32	1 462	4 354	8 918	2 763
ENGINEERS AND NATURAL SCIENTISTS	432	356	58	7	27	24	18	-	2	18	292	107
ENGINEERS	130	121	9	-	2	7	-	-	-	8	66	50
HEALTH DIAGNOSING OCCUPATIONS	165	93	61	6	55	-	11	-	6	27	37	89
HEALTH ASSESSMENT AND TREATING OCCUPATIONS	5 398	4 414	937	26	588	323	39	8	234	1 641	2 637	609
TEACHERS, LIBRARIANS, AND COUNSELORS	9 638	2 577	6 801	49	1 047	5 705	246	14	931	2 129	4 745	1 427
TEACHERS, ELEMENTARY AND SECONDARY SCHOOLS	7 434	1 917	5 507	41	261	5 205	10	-	576	1 528	3 961	1 180
TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS	57 585	48 206	7 711	1 073	2 973	3 665	1 180	488	4 276	15 124	30 290	5 676
HEALTH TECHNOLOGISTS AND TECHNICIANS	3 858	3 441	403	10	284	109	12	2	124	1 220	2 026	350
TECHNOLOGISTS AND TECHNICIANS, EXCEPT HEALTH	957	668	274	20	142	112	13	2	52	177	534	144
SALES OCCUPATIONS	15 094	13 771	301	14	170	117	903	119	1 967	6 077	4 750	1 469
SUPERVISORS AND PROPRIETORS, SALES OCCUPATIONS	1 200	995	12	-	10	2	185	8	20	165	582	379
SALES REPRESENTATIVES, COMMODITIES AND FINANCE	1 887	1 603	5	5	-	-	263	16	123	494	828	298
OTHER SALES OCCUPATIONS	12 007	11 173	284	9	160	115	455	95	1 824	5 418	3 340	792
CASHIERS	5 067	4 759	235	9	111	115	38	35	597	2 262	1 501	424
ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL	37 676	30 326	6 733	1 029	2 377	3 327	252	365	2 133	7 650	22 980	3 713
COMPUTER EQUIPMENT OPERATORS	720	624	90	18	37	35	6	-	7	140	463	106
SECRETARIES, STENOGRAPHERS, AND TYPISTS	14 312	11 292	2 776	151	1 224	1 401	69	175	617	2 598	9 470	1 267
FINANCIAL RECORDS PROCESSING OCCUPATIONS	5 870	5 138	498	28	176	294	119	115	300	1 014	3 670	729
MAIL AND MESSAGE DISTRIBUTING OCCUPATIONS	866	349	512	489	11	12	5	-	185	143	399	105
SERVICE OCCUPATIONS	25 156	20 354	3 768	144	1 388	2 236	928	106	3 455	9 928	8 297	1 962
PRIVATE HOUSEHOLD OCCUPATIONS	1 036	1 016	-	-	-	-	20	-	304	419	187	84
PROTECTIVE SERVICE OCCUPATIONS	547	297	250	-	40	210	-	-	46	159	156	132
POLICE AND FIREFIGHTERS	47	-	47	-	-	47	-	-	-	25	7	15
SERVICE OCCUPATIONS, EXCEPT PROTECTIVE AND HOUSEHOLD	23 573	19 041	3 518	144	1 348	2 026	908	106	3 105	9 350	7 954	1 746
FOOD SERVICE OCCUPATIONS	12 574	10 823	1 598	32	666	900	105	48	1 943	5 652	3 151	888
CLEANING AND BUILDING SERVICE OCCUPATIONS, EXCEPT HOUSEHOLD	2 972	2 193	688	63	239	386	61	30	397	928	1 330	165
FARMING, FORESTRY, AND FISHING OCCUPATIONS	848	474	29	7	16	6	220	125	119	265	269	157
FARM OPERATORS AND MANAGERS	191	11	-	-	-	-	180	-	53	35	37	63
FARM WORKERS AND RELATED OCCUPATIONS	657	463	29	7	16	6	40	125	66	230	232	94
PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS	2 271	1 940	133	2	50	81	187	11	144	353	1 304	399
MECHANICS AND REPAIRERS	324	270	45	-	21	24	2	7	27	9	224	41
CONSTRUCTION TRADES	207	165	6	-	-	6	36	-	25	40	87	38
PRECISION PRODUCTION OCCUPATIONS	1 732	1 497	82	2	29	51	149	4	92	304	991	314
OPERATORS, FABRICATORS, AND LABORERS	11 456	10 373	916	38	105	773	108	59	518	2 234	6 540	1 243
MACHINE OPERATORS AND TENDERS, EXCEPT PRECISION	4 313	4 143	125	6	36	83	26	19	147	507	2 844	464
FABRICATORS, ASSEMBLERS, INSPECTORS, AND SAMPLERS	3 116	3 073	16	7	-	9	27	-	51	364	2 085	307
TRANSPORTATION OCCUPATIONS	1 296	544	713	21	60	632	39	-	215	647	212	156
MOTOR VEHICLE OPERATORS	1 291	544	708	16	60	632	39	-	215	642	212	156
MATERIAL MOVING EQUIPMENT OPERATORS	159	153	6	-	-	6	-	-	-	30	84	26
HANDLERS, EQUIPMENT CLEANERS, HELPERS, AND LABORERS	2 572	2 460	56	4	9	43	16	40	105	686	1 315	290
CONSTRUCTION LABORERS	20	15	5	-	-	5	-	-	6	-	14	-
FREIGHT, STOCK, AND MATERIAL HANDLERS	658	635	-	-	-	-	7	16	44	264	250	89

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

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TOLEDO, OH-MI SMSA

	EMPLOYED PERSONS								PERSONS AT WORK			
	TOTAL	PRIV. WAGE AND SALARY WORKERS	GOVERNMENT WORKERS TOTAL	FEDERAL	STATE	LOCAL	SELF-EMPLOYED WORKERS	UNPAID FAMILY WORKERS	1 TO 14 HOURS	15 TO 34 HOURS	35 TO 40 HOURS	41+ HOURS
BLACK												
MALES 16 YEARS AND OVER	10 378	7 963	2 065	396	566	1 103	336	14	424	1 197	6 325	1 927
MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS	1 424	759	590	70	159	361	75	-	59	147	794	390
EXECUTIVE, ADMINISTRATIVE, AND MANAGERIAL OCCUPATIONS	705	448	214	39	42	133	43	-	21	44	406	219
OFFICIALS AND ADMINISTRATORS, PUBLIC ADMINISTRATION	47	-	47	-	6	41	-	-	-	-	47	-
MANAGEMENT RELATED OCCUPATIONS	190	126	59	17	21	21	5	-	-	12	141	37
PROFESSIONAL SPECIALTY OCCUPATIONS	719	311	376	31	117	228	32	-	38	103	388	171
ENGINEERS AND NATURAL SCIENTISTS	82	82	-	-	-	-	-	-	-	25	49	8
ENGINEERS	53	53	-	-	-	-	-	-	-	7	44	2
HEALTH DIAGNOSING OCCUPATIONS	57	13	27	5	22	-	17	-	-	5	5	47
HEALTH ASSESSMENT AND TREATING OCCUPATIONS	35	35	-	-	-	-	-	-	-	-	15	20
TEACHERS, LIBRARIANS, AND COUNSELORS	334	81	253	8	60	185	-	-	34	58	199	29
TEACHERS, ELEMENTARY AND SECONDARY SCHOOLS	186	11	175	-	8	167	-	-	-	37	128	11
TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS	1 277	882	376	163	129	84	19	-	49	189	742	239
HEALTH TECHNOLOGISTS AND TECHNICIANS	31	25	6	-	6	-	-	-	-	-	26	5
TECHNOLOGISTS AND TECHNICIANS, EXCEPT HEALTH	150	127	23	-	13	10	-	-	-	24	81	33
SALES OCCUPATIONS	403	376	8	-	8	-	19	-	22	100	172	99
SUPERVISORS AND PROPRIETORS, SALES OCCUPATIONS	85	63	8	-	8	-	14	-	-	6	35	34
SALES REPRESENTATIVES, COMMODITIES AND FINANCE	125	125	-	-	-	-	-	-	6	14	69	36
OTHER SALES OCCUPATIONS	193	188	-	-	-	-	5	-	16	80	68	29
CASHIERS	62	57	-	-	-	-	5	-	12	36	9	5
ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL	693	354	339	163	102	74	-	-	27	65	463	102
COMPUTER EQUIPMENT OPERATORS	29	23	6	-	-	6	-	-	-	-	17	8
SECRETARIES, STENOGRAPHERS, AND TYPISTS	22	15	7	2	5	-	-	-	-	-	17	-
FINANCIAL RECORDS PROCESSING OCCUPATIONS	6	-	6	-	-	6	-	-	-	-	6	-
MAIL AND MESSAGE DISTRIBUTING OCCUPATIONS	131	21	110	104	-	6	-	-	-	6	96	29
SERVICE OCCUPATIONS	1 839	1 222	556	49	182	325	61	-	171	318	930	341
PRIVATE HOUSEHOLD OCCUPATIONS	6	6	-	-	-	-	-	-	-	-	-	6
PROTECTIVE SERVICE OCCUPATIONS	350	143	207	6	46	155	-	-	14	14	217	103
POLICE AND FIREFIGHTERS	114	-	114	6	21	87	-	-	-	6	44	64
SERVICE OCCUPATIONS, EXCEPT PROTECTIVE AND HOUSEHOLD	1 483	1 073	349	43	136	170	61	-	157	304	713	232
FOOD SERVICE OCCUPATIONS	362	315	47	20	27	-	-	-	67	138	84	45
CLEANING AND BUILDING SERVICE OCCUPATIONS, EXCEPT HOUSEHOLD	924	688	226	23	52	151	10	-	85	151	515	137
FARMING, FORESTRY, AND FISHING OCCUPATIONS	68	37	26	8	-	18	5	-	-	21	27	13
FARM OPERATORS AND MANAGERS	5	-	-	-	-	-	5	-	-	5	-	-
FARM WORKERS AND RELATED OCCUPATIONS	63	37	26	8	-	18	-	-	-	16	27	13
PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS	1 700	1 425	166	33	33	100	95	14	57	154	1 017	368
MECHANICS AND REPAIRERS	568	451	54	19	17	18	49	14	12	43	370	121
CONSTRUCTION TRADES	539	423	75	6	12	57	41	-	38	60	313	73
PRECISION PRODUCTION OCCUPATIONS	593	551	37	8	4	25	5	-	7	51	334	174
OPERATORS, FABRICATORS, AND LABORERS	4 070	3 638	351	73	63	215	81	-	88	368	2 815	576
MACHINE OPERATORS AND TENDERS, EXCEPT PRECISION	1 399	1 326	55	7	26	22	18	-	17	119	938	199
FABRICATORS, ASSEMBLERS, INSPECTORS, AND SAMPLERS	742	727	15	8	-	7	-	-	25	35	621	42
TRANSPORTATION OCCUPATIONS	530	385	95	11	13	71	50	-	7	58	298	148
MOTOR VEHICLE OPERATORS	502	371	81	4	6	71	50	-	-	58	281	144
MATERIAL MOVING EQUIPMENT OPERATORS	402	388	14	5	2	7	-	-	-	14	314	71
HANDLERS, EQUIPMENT CLEANERS, HELPERS, AND LABORERS	997	812	172	42	22	108	13	-	39	142	644	116
CONSTRUCTION LABORERS	161	123	38	6	-	32	-	-	7	35	99	12
FREIGHT, STOCK, AND MATERIAL HANDLERS	194	139	55	4	6	45	-	-	13	35	111	20

TABLE 220. OCCUPATION OF EMPLOYED PERSONS BY CLASS OF WORKER, HOURS WORKED, SEX, RACE, AND SPANISH ORIGIN: 1980 - CON.

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TOLEDO, OH-MI SMSA

	EMPLOYED PERSONS								PERSONS AT WORK			
		PRIV. WAGE AND SALARY	GOVERNMENT WORKERS				SELF-EMPLOYED	UNPAID FAMILY	1 TO 14	15 TO 34	35 TO 40	41+
	TOTAL	WORKERS	TOTAL	FEDERAL	STATE	LOCAL	WORKERS	WORKERS	HOURS	HOURS	HOURS	HOURS
BLACK												
FEMALES 16 YEARS AND OVER	10 445	7 253	3 088	481	780	1 827	104	-	723	2 336	5 972	806
MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS	1 910	700	1 190	109	236	845	20	-	77	488	1 054	205
EXECUTIVE, ADMINISTRATIVE, AND MANAGERIAL OCCUPATIONS	478	234	228	57	64	107	16	-	-	59	360	46
OFFICIALS AND ADMINISTRATORS, PUBLIC ADMINISTRATION	50	-	50	14	17	19	-	-	-	4	40	-
MANAGEMENT RELATED OCCUPATIONS	178	96	77	30	23	24	5	-	-	16	142	13
PROFESSIONAL SPECIALTY OCCUPATIONS	1 432	466	962	52	172	738	4	-	77	429	694	159
ENGINEERS AND NATURAL SCIENTISTS	40	25	15	-	8	7	-	-	-	-	29	11
ENGINEERS	17	17	-	-	-	-	-	-	-	-	17	-
HEALTH DIAGNOSING OCCUPATIONS	7	-	7	-	7	-	-	-	-	-	-	7
HEALTH ASSESSMENT AND TREATING OCCUPATIONS	308	215	93	13	54	26	-	-	9	67	159	50
TEACHERS, LIBRARIANS, AND COUNSELORS	738	110	624	10	70	544	4	-	52	313	268	60
TEACHERS, ELEMENTARY AND SECONDARY SCHOOLS	607	62	545	10	42	493	-	-	21	265	226	50
TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS	3 616	2 571	1 019	299	249	471	26	-	262	657	2 329	236
HEALTH TECHNOLOGISTS AND TECHNICIANS	392	342	50	-	26	24	-	-	4	88	252	42
TECHNOLOGISTS AND TECHNICIANS, EXCEPT HEALTH	62	23	39	12	7	20	-	-	7	7	48	-
SALES OCCUPATIONS	722	676	25	-	11	14	21	-	107	246	294	46
SUPERVISORS AND PROPRIETORS, SALES OCCUPATIONS	37	37	-	-	-	-	-	-	-	6	25	6
SALES REPRESENTATIVES, COMMODITIES AND FINANCE	90	90	-	-	-	-	-	-	7	7	57	19
OTHER SALES OCCUPATIONS	595	549	25	-	11	14	21	-	100	233	212	21
CASHIERS	300	277	19	-	5	14	4	-	42	125	105	15
ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL	2 440	1 530	905	287	205	413	5	-	144	316	1 735	148
COMPUTER EQUIPMENT OPERATORS	68	57	11	5	6	-	-	-	-	6	58	4
SECRETARIES, STENOGRAPHERS, AND TYPISTS	655	386	269	34	67	168	-	-	41	97	482	19
FINANCIAL RECORDS PROCESSING OCCUPATIONS	170	132	33	-	4	29	5	-	19	24	105	13
MAIL AND MESSAGE DISTRIBUTING OCCUPATIONS	145	12	133	118	-	15	-	-	6	9	105	21
SERVICE OCCUPATIONS	3 334	2 548	728	55	264	409	58	-	322	894	1 632	262
PRIVATE HOUSEHOLD OCCUPATIONS	314	314	-	-	-	-	-	-	66	121	66	28
PROTECTIVE SERVICE OCCUPATIONS	110	71	39	9	5	25	-	-	-	3	91	16
POLICE AND FIREFIGHTERS	13	-	13	-	-	13	-	-	-	-	13	-
SERVICE OCCUPATIONS, EXCEPT PROTECTIVE AND HOUSEHOLD	2 910	2 163	689	46	259	384	58	-	256	770	1 475	218
FOOD SERVICE OCCUPATIONS	794	621	167	11	39	117	6	-	114	232	322	40
CLEANING AND BUILDING SERVICE OCCUPATIONS, EXCEPT HOUSEHOLD	741	578	163	7	58	98	-	-	64	194	410	35
FARMING, FORESTRY, AND FISHING OCCUPATIONS	-	-	-	-	-	-	-	-	-	-	-	-
FARM OPERATORS AND MANAGERS	-	-	-	-	-	-	-	-	-	-	-	-
FARM WORKERS AND RELATED OCCUPATIONS	-	-	-	-	-	-	-	-	-	-	-	-
PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS	138	132	6	-	6	-	-	-	8	16	75	14
MECHANICS AND REPAIRERS	36	36	-	-	-	-	-	-	8	-	13	8
CONSTRUCTION TRADES	5	5	-	-	-	-	-	-	-	-	5	-
PRECISION PRODUCTION OCCUPATIONS	97	91	6	-	6	-	-	-	-	16	57	6
OPERATORS, FABRICATORS, AND LABORERS	1 447	1 302	145	18	25	102	-	-	54	281	882	89
MACHINE OPERATORS AND TENDERS, EXCEPT PRECISION	590	576	14	6	8	-	-	-	13	124	334	52
FABRICATORS, ASSEMBLERS, INSPECTORS, AND SAMPLERS	483	483	-	-	-	-	-	-	18	46	367	23
TRANSPORTATION OCCUPATIONS	151	35	116	6	10	100	-	-	5	66	60	5
MOTOR VEHICLE OPERATORS	151	35	116	6	10	100	-	-	5	66	60	5
MATERIAL MOVING EQUIPMENT OPERATORS	4	4	-	-	-	-	-	-	-	-	4	-
HANDLERS, EQUIPMENT CLEANERS, HELPERS, AND LABORERS	219	204	15	6	7	2	-	-	18	45	117	9
CONSTRUCTION LABORERS	-	-	-	-	-	-	-	-	-	-	-	-
FREIGHT, STOCK, AND MATERIAL HANDLERS	30	30	-	-	-	-	-	-	-	14	6	-