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Classifications of Occupations and Industries
(United States, Germany, Sweden and Canada)**

ZINA ASSIMAKOPOULOU
GØSTA ESPING-ANDERSEN
KEES VAN KERSBERGEN

European University Institute, Florence

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BADIA FIESOLANA, SAN DOMENICO (FI)

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Gøsta Esping-Andersen, Kees Van Kersbergen
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**Post-Industrial Class Structures:
Classifications of Occupations and Industries
(United States, Germany, Sweden and Canada)**

This paper is a report on the technical and methodological aspects of the research project on **Post-Industrial Class structures** of capitalism, directed by G. Esping-Andersen at the European University Institute. It provides information on the sources of the data used, the management procedures followed, and the way occupations and industries are classified. In addition, some notes on the cross-national and cross-time comparability of the data are given.

USA

CLASSIFICATIONS OF OCCUPATIONS AND INDUSTRIES

There is a number of more or less important changes between the occupational classification systems followed in 1960 and 1980 census because the classification system has been revised twice in 1970 and 1980. We have got information about the relevant changes from the two following publications: U.S. Bureau of the Census, Technical Paper 26, 1970 Occupation and Industry Classification Systems in Terms of Their 1960 Occupation and Industry Elements, U.S. Government Printing Office, Washington, D.C. 1972 and U.S. Bureau of the Census, Technical Paper 59, The Relationship Between the 1970 and 1980 Industry and Occupation Classification Systems, U.S. Government Printing Office, Washington, D.C. 1989.

OCCUPATIONAL CLASSIFICATION USA 1960

1. MANAGERS AND PROPRIETORS

74 Managers and superintendents (building), 76 Officials and administrators, not elsewhere classified (public, administration), 80 Salaried managers, officials and proprietors, not elsewhere classified, 81 Self-employed managers, officials and proprietors, not, elsewhere classified

2. PROFESSIONALS

1 Accountants and auditors, 2 Actors and actresses, 3 Airplane pilots and navigators, 4 Architects, 5 Artists and art teachers, 6 Athletes, 7 Authors, 9 Clergymen, 10 College presidents, professors and instructors not elsewhere, classified, 11 Dancers and dancing teachers, 12 Dentists, 13 Designers, 16 Editors and reporters, 17 Engineers (aeronautical), 18 Engineers (chemical), 19 Engineers (civil), 20 Engineers (electrical), 21 Engineers (industrial), 22 Engineers (mechanical), 23 Engineers (metallurgical) and metallurgists, 24 Engineers (mining), 25 Engineers (sales), 26 Engineers not elsewhere classified, 27 Entertainers not elsewhere classified, 31 Lawyers and judges, 33 Musicians and music teachers, 34 Agricultural scientists, 35 Biological scientists, 36 Chemical scientists, 37 Geologists and geophysicists, 38 Mathematicians, 39 Physicists, 40 Miscellaneous natural scientists, 45 Personnel and labor relations workers, 46 Pharmacists, 48 Physicians and surgeons, 54 Social scientists, 56 Surveyors, 65 Veterinarians

and power, 145 Locomotive firemen, 146 Loom fixers, 149 Millers, grain, flour, feed and related occupations, 150 Millwrights, 162 Rollers and roll hands, metal, 166 Stone cutters and stone carvers, 167 Structural metal workers, 180 Building trades, not elsewhere classified, 181 Metalworking trades, not elsewhere classified, 184 Trade not specified, 185 Asbestos and insulation workers (**compare Sweden), 186 Assemblers, 189 Boatmen, canalmen and lock keepers, 190 Brakemen, railroad, 192 Chainmen, rodmen and axmen, surveying, 197 Dyers, 198 Filers, grinders and polishers, metal, 199 Fruit, nut and vegetable graders and packers, exc. factory, 200 Furnace, smeltermen and pourers, 201 Graders and sorters, manufacturing, 202 Heaters, metal, 203 Knitters, loopers and toppers, textile, 205 Meat cutters, exc. slaughter and packing house, 206 Milliners, 207 Mine operatives and laborers not elsewhere classified, 208 Motormen, mine, factory, logging, camp and related occupations, 209 Motormen, street, subway and elevated railway, 210 Oilers and greasers, exc. auto, 211 Packers and wrappers not elsewhere classified, 215 Sailors and deck hands, 216 Sawyers, 217 Sewers and stitchers, manufacturing, 218 Spinners, textile, 219 Stationary firemen, 220 Switchmen, railroad, 222 Truck and tractor drivers, 223 Weavers, textile, 224 Welders and flame-cutters, 225 Operatives and kindred workers not elsewhere classified, 250 Carpenters' helpers, exc. logging and mining, 254 Longshoremen and stevedores, 255 Lumbermen, raftsmen and woodchoppers, 256 Teamsters, 257 Truck drivers' helpers, 258 Warehousemen not elsewhere classified, 259 Laborers not elsewhere classified

11. OTHER OCCUPATIONS

29 Foresters and conservationists, 67 Farmers and farm managers, 249 Farm laborers and foremen, 251 Fishermen and oystermen, 260 Occupation not reported

Before presenting the detailed information about the problems regarding the 1960 occupational classification we should point out that the greatest criticism of the 1960 system was that the eight large 'not elsewhere classified' (n.e.c) categories contained one third of the labour force. (Technical Paper 59 p vii). This explains why a number of 1980 occupational categories do not exist in the 1960 classification. We should also mention that we make comments only on those differences that seemed to us crucial for the outcome of the research, in terms of comparability.

COMMENTS

1. CLASS 3 TECHNICIANS

66 (Professional, technical and kindred workers not elsewhere classified)

In 1960, there were no categories related to occupations in the computer science field. Thus, the three 1980 professional categories of computer programmers, system analysts and computer specialists are under this general category in 1960.

3. CLASS 5 SKILLED SERVANT OCCUPATIONS

262 (Mechanics and repairmen)

Only the mechanics and repairmen working in the consumer services are put under this category; all the rest are classified under the 'skilled manual workers' category.

4. CLASS 5 SKILLED SERVANT OCCUPATIONS

245 (Protective service workers)

Some unskilled service workers are also included here; we cannot take them out due to lack of detailed occupational breakdowns.

5. CLASS 6 UNSKILLED SERVANT OCCUPATIONS

226 (Attendants, hospital and other institutions)

This category went under guides in 1980 classification.

6. CLASS 6 UNSKILLED SERVANT OCCUPATIONS

232 (Chambermaids and maids exc. private household),

239 (Housekeepers and stewards exc. private household),

240 (Janitors and sextons), and

248 (Service workers exc. private household)

Some supervisors might be included in these four groups.

7. CLASS 7 CLERICAL OCCUPATIONS

83 (Attendants and assistants library) and

84 (Attendants, physicians' and dentists' office)

These two groups could be also classified under unskilled servant occupations; however, we followed the American classification in which they are classified under clerical.

8. CLASS 9 SKILLED MANUAL WORKERS

148 (Mechanics and repairmen)

In this group are included all mechanics and repairmen apart from those working in consumer services.

3. TECHNICIANS

15 Draftsmen, 60 Technicians, medical and dental, 61 Technicians, electrical and electronic, 62 Technicians, other engineering and physical sciences, 63 Technicians, not elsewhere classified, 66 Professional, technical and kindred workers not elsewhere, classified, 75 Officers, pilots, pursers and engineers, ship (**compare Sweden)

4. SEMI-PROFESSIONALS

8 Chiropractors, 14 Dietitians and nutritionists, 28 Farm and home management advisors, 32 Librarians, 41 Nurses, professional, 42 Nurses, student professional, 43 Optometrists, 44 Osteopaths, 49 Public relations and publicity writers, 51 Recreation and group workers, 52 Religious workers, 53 Social welfare workers, exc. group, 55 Sports instructors and officials, 57 Teachers, elementary schools, 58 Teachers, secondary schools, 59 Teachers, not elsewhere classified, 64 Therapists and Healers, n.e.c.
242 Midwives

5. SKILLED SERVANT OCCUPATIONS

30 Funeral directors and embalmers, 47 Photographers, 70 Conductors, railroad, 129 Decorators and window dressers, 262 Mechanics and repairmen, 152 Motion picture projectionists, 158 Piano and organ tuners and repairmen, 173 Auto mechanics, 191 Bus drivers, 194 Conductors, bus and street railway, 229 Barbers, 235 Cooks, exc. private household, 238 Hairdressers and cosmetologists, 245 Protective service workers (guards and watchmen; marshals and, constables; policemen and detectives; firemen)

6. UNSKILLED SERVANT OCCUPATIONS

85 Baggage men, transportation, 90 Dispatchers and starters vehicle, 94 Mail carriers (**compare Sweden), 115 Newsboys, 195 Deliverymen and routemen, 187 Attendants, auto service and parking, 204 Laundry and dry cleaning operatives, 221 Taxicab drivers and chauffeurs, 226 Attendants, hospital and other institutions, 227 Attendants, professional and personal service not elsewhere, classified, 228 Attendants, recreation and amusement, 230 Bartenders, 231 Boarding and lodging house keepers, 232 Bootblacks, 233 Chambermaids and maids, exc. private household, 234 Charwomen and cleaners, 236 Counter and fountain workers, 237 Elevator operators, 239 Housekeepers and stewards exc. private household, 240 Janitors and sextons, 241 Kitchen Workers not elsewhere classified exc. private, household, 243 Porters, 244 Practical nurses, 246 Ushers, recreation and amusement, 247 Waiters and waitresses, 248 Service workers, exc. private household not elsewhere, classified, 252 Garage laborers, car washers and greasers, 253 Gardeners, exc. farm and groundskeepers, 261 Private household workers

7. CLERICAL OCCUPATIONS

50 Radio operators, 71 Credit men, 73 Inspectors, public administration, 77 Officials, lodge,

society, union, 78 Postmasters, 83 Attendants and assistants, library, 84 Attendants, physician's and dentist's office, 86 Bank tellers, 87 Bookkeepers, 88 Cashiers, 89 Collectors, bill and account, 91 Express messengers and railway mail clerks, 92 File clerks, 93 Insurance adjusters, examiners and investigators, 95 Messengers and office boys, 96 Office machine operators, 97 Payroll and timekeeping clerks, 98 Postal clerks, 99 Receptionists, 100 Secretaries, 101 Shipping and receiving clerks, 102 Stenographers, 103 Stock clerks and storekeepers, 104 Telegraph messengers, 105 Telegraph operators, 106 Telephone operators, 107 Ticket, station and express agents, 108 Typists, 109 Clerical and kindred workers, not elsewhere classified

8. SALES OCCUPATIONS

68 Buyers and department heads, store, 69 Buyers and shippers, farm products, 72 Floor men and floor managers, store, 79 Purchasing agents and buyers, not elsewhere classified, 82 Agents, not elsewhere classified, 110 Advertising agents and salesmen, 111 Auctioneers, 112 Demonstrators, 113 Hucksters and peddlers, 114 Insurance agents, brokers, and underwriters, 116 Real estate agents and brokers, 117 Stock and bond salesmen, 118 Salesmen and sales clerks, not elsewhere classified

9. SKILLED MANUAL WORKERS, SUPERVISORS, FOREMEN

119 Bakers, 120 Blacksmiths, 121 Boilermakers, 122 Bookbinders, 123 Brickmasons, stonemasons and tile setters, 124 Cabinetmakers, 125 Carpenters, 127 Compositors and typesetters, 130 Electricians, 131 Electrotypers and stereotypers, 132 Engravers, exc. photoengravers, 134 Foremen, not elsewhere classified, 136 Furriers, 137 Glaziers, 139 Inspectors, scalers and graders, log and lumber, 140 Inspectors, not elsewhere classified, 141 Jewelers, watchmakers, goldsmiths and silversmiths, 144 Locomotive engineers, 148 Mechanics and repairmen, 151 Molders, metal, 153 Opticians, and lens grinders and polishers, 154 Painters, construction and maintenance, 155 Paperhangers, 156 Pattern and model makers, exc. paper, 157 Photoengravers and lithographers, 159 Plasterers, 160 Plumbers and pipefitters, 161 Pressmen and plate printers, printing, 163 Roofers and slaters, 164 Shoemakers and repairers, exc. factory, 168 Tailors and tailoresses, 169 Tinsmiths, coppersmiths and sheet metal workers, 170 Toolmakers, die makers and setters, 172 Craftsmen and kindred workers, not elsewhere classified, 175 Carpenters, 147 Machinists, 176 Electricians, 177 Machinists and toolmakers, 178 Mechanics, exc. auto, 179 Plumbers and pipe fitters, 188 Blasters and powdermen, 193 Checkers, examiners and inspectors, manufacturing, 196 Dressmakers, exc. factory, 212 Painters, exc. construction and maintenance, 213 Photographic process workers, 214 Power station operators, 165 Stationary engineers, 171 Upholsterers, 174 Bricklayers and masons, 182 Printing trades, 183 Other specified trades

10. UNSKILLED MANUAL WORKERS

126 Cement and concrete finishers, 128 Cranemen, derrickmen and hoistmen, 133 Excavating, grading and road machinery operators, 135 Forgemen and hammermen, 138 Heat Treaters, annealers and temperers, 142 Jobsetters, metal, 143 Linemen and servicemen, telegraph, telephone

9. CLASS 10 UNSKILLED MANUAL WORKERS

225 (Operatives and Kindred Workers not elsewhere classified)

This category includes 'pest control occupations' and 'animal caretakers exp. farm' which in 1980 are put under skilled service and unskilled service occupations respectively; we cannot take them out due to lack of detailed breakdowns.

INDUSTRIAL CLASSIFICATION USA 1960

1. EXTRACTIVE

126-156 Mining

2. MANUFACTURING

206-296 Durable goods (exc. 257, 267-276), 346-367 Textiles, 306-459 Non-durable (exc. 346-367), 267-276 Transportation equipment, 257 Office, computing and accounting machines, 196 Construction

3. DISTRIBUTIVE SERVICES

606-629 Wholesale

4. COMMUNICATIONS, UTILITIES, TRANSPORT

536-539 Communications, 567-579 Utilities and sanitary services, 506-526 Transportation

5. RETAIL

636-696 Retail

6. GOVERNMENT

906-936 Government

7. CONSUMER SERVICES

826 Hotel, restaurant, 846-849 Entertainment, 808,809 Repair, 828 Laundry, 816-839 Personal services (excl. 826,828), 816 Domestic services

8. SOCIAL SERVICES

876 Education, 867,868 Health, 879 Social welfare, religion, 888 Non-profit membership organizations

9. BUSINESS SERVICES

706,716 Finance and related services, 736 Real estate, 726 Insurance, 806 Advertising, 807 Other business services, 896-898 Professional services

10. OTHERS

016-018 Agriculture, 999 Unspecified

OCCUPATIONAL CLASSIFICATION USA 1980

1. MANAGERS

1 Legislators, chief executives, general administrators, public administration, 2 Administrators and officials, public administration (Federal/State/Local), 3 Administrators, protective service, 4 Financial managers, 5 Personnel, labor relations managers, 6 Purchasing managers, 7 Managers, marketing, advertising, public relations, 8 Administrators, education and related fields, 9 Managers, medicine and health, 10 Managers, properties and real estate, 13 Managers and administrators, not elsewhere classified, 16 Other financial officers.

2. PROFESSIONALS

25 Management related occupations, not elsewhere classified, 14 Accountants and auditors, 17 Managements analysts, 18 Personnel, training and labour relations specialists, 26 Architects, 27 Engineers, 28 Surveyors and mapping scientists, 29 Mathematical and computer scientists, 30 Natural scientists, 23 Construction inspectors, 31 Health diagnosing occupations, 33 Pharmacists, 37 Teachers, postsecondary, 41 Social scientists and urban planners, 44 Clergy, 46 Lawyers and judges, 47 Writer, artists, entertainers and athletes, 56 Airplane pilots and navigators, 57 Air traffic controllers, 59 Computer programmers.

3. TECHNICIANS

48 Clinical lab technologists and technicians, 50 Health record technologists and technicians, 51 Radiologic technicians, 53 Health technologists and technicians not elsewhere classified, 54 Engineering and related technologists and technicians, 55 Science technicians, 58 Broadcast equipment operators, 60 Tool programmers, numerical control, 62 Technicians not elsewhere classified, 198 Dental lab and medical appliance technicians, 259 Operating engineers.

4. SEMI-PROFESSIONALS

32 Registered nurses, 34 Dietitians, 35 Therapists, 36 Physicians' assistants, 38 Teachers, exc. postsecondary, 39 Counselors, educational and vocational, 40 Librarian, archivists and curators, 49 Dental hygienists, 105 Teachers aides, 42 Social workers, 43 Recreation workers, 45 Religious workers, 52 Licensed practical nurses.

5. SKILLED SERVANT OCCUPATIONS

12 Funeral directors, 107 Supervrs, protective service occupations, 108 Firefighting and fire prevention occupations, 109 Police and detectives, 110 Guards, 114 Cooks exc. short order, 123 Supervisors, cleaning and building service workers, 111 Supervisors, food preparation and service occupations, 127 Pest control occupations, 128 Supervisors, personal service occupations, 129 Barbers, 130 Hairdressers and cosmetologists, 137 Child care workers exc. private household, 148 Supervisors, mechanics and repairers, 149 Vehicle and mobile equipment mechanics and repairmen, 152 Electrical and electronic equipment repairers, 153 Heating, air conditioning and refrigeration mechanics, 154 Misc. mechanics and repairers, 231 Motion picture projectionists, 249 Bus drivers, 253 Railroad conductors.

6. UNSKILLED SERVANT OCCUPATIONS

84 Mail carriers, postal services, 112 Bartenders, 113 Waiters and waitresses, 115 Short order cooks, 116 Food counter, fountain and related occupations, 117 Kitchen workers, food preparation, 118 Waiters' and waitresses' assistants, 119 Misc food preparation occupations, 121 Health aides exc. nursing, 122 Nursing aides, orderlies and attendants, 124 Maids and housemen, 125 Janitors and cleaners, 126 Elevator operators, 131 Attendants, amusement and recreation facilities, 132 Guides, 133 Ushers, 134 Public transportation attendants, 135 Baggage porters and bellhops, 138 Personalservice occupations not elsewhere classified, 142 Groundskeepers and gardeners exc. farm, 143 Animal caretakers exc. farm, 216 Laundering and dry cleaning machine operators, 250 Taxicab drivers and chauffeurs, 251 Parking lot attendants, 273 Garage and service related occupations, 277 Private household workers, 248 Driver-sales workers, 215 Pressing machine operators.

7. CLERICAL OCCUPATIONS

11 Postmasters and mail superintendents, 15 Underwriters, 24 Inspectors and compliance officers, exc. construction, 61 Legal assistants, 71 Supervisors, administrative support occupations, 72 Computer equipment operators, 73 Secretaries, stenographers and typists, 74 Information clerks, 75 Records processing occupations exc. financial, 76 Bookkeepers, accounting and auditing clerks, 77 Payroll and timekeeping clerks, 78 Billing clerks, 79 Cost and rate clerks, 80 Billing, posting and calculating machine operators, 81 Duplicating, mail and other office machine operators, 82 Communications equipment operators, 83 Postal clerks exc. mail carriers, 85 Mail clerks exc. postal services, 86 Messengers, including telegraph and office helpers, 87 Dispatchers, 89 Traffic, shipping and receiving clerks, 90 Stock and inventory clerks, 91 Meter readers, 92

Weighers, measurers and checkers, 93 Samplers, 94 Expeditors, 95 Material recording, scheduling and distributing clerks, 96 Insurance adjusters, examiners and investigators, 97 Investigators and adjusters exc. insurance, 98 Eligibility clerks, social welfare, 99 Bill and account collectors, 100 General office clerks, 101 Bank tellers, 102 Proofreaders, 103 Data-entry keyers, 104 Statistical clerks, 106 Administrative support occupations not elsewhere classified, 120 Dental assistants, 136 Welfare service clerks.

8. SALES OCCUPATIONS

19 Purchasing agents and buyers, farm products, 20 Buyers, wholesale and retail trade exc. farm products, 21 Purchasing agents and buyers, not elsewhere classified, 22 Business and promotion agents, 63 Supervisors and proprietors, sales (salaried), 64 Supervisors and proprietors, sales (self-employed), 65 Sales representatives, finance and business services, 66 Sales representatives, commodities, exc. retail, 67 Sales workers, retail and personal services, 68 Demonstrators, promoters and models, sales, 69 Auctioneers, 70 Sales support occupations not elsewhere classified.

9. SKILLED MANUAL WORKERS, SUPERVISORS, FOREMEN

88 Production coordinators, 150 Industrial machinery repairers, 155 Supervisors, construction occupations, 156 Brickmasons and stonemasons, 157 Tile setters, hard and soft, 159 Carpenters, 161 Electricians, 162 Electrical power installers and repairers, 163 Painters, construction and maintenance, 164 Paperhangers, 165 Plasterers, 166 Plumbers, pipefitters and steamfitters, 168 Glaziers, 171 Roofers, 176 Supervisors, extractive occupations, 178 Explosives workers, 181 Supervisors, production occupations, 182 Tool and die makers, 184 Machinists, 187 Patternmakers and model makers, metal, 189 Precious stones and metals workers (jewelers), 195 Hand molders and shapers, exc. jewelers, 197 Optical goods workers, 199 Bookbinders, 200 Electrical and electronic equipment assemblers, 203 Precision inspectors, testers and related workers, 204 Plant and system operators, 238 Hand cutting and trimming occupations, 239 Hand molding, casting and forming occupations, 240 Hand painting, coating and decorating occupations, 241 Hand engraving and printing occupations, 242 Hand grinding and polishing occupations, 243 Misc hand working occupations, 244 Production inspectors, testers, samplers and weighers, 245 Supervisors, motor vehicle operators, 254 Locomotive operating occupations, 258 Supervisors, material moving equipment operators, 267 Supervisors, handlers, equipment cleaners, laborers not elsewhere classified, 191 Sheet metal workers, 158 Carpet installers, 185 Boilermakers, 192 Misc precision metal workers, 193 Precision woodworking occupations, 194 Precision textile, apparel and furnishings machine operators, 209 Printing machine operators, 224 Painting and paint spraying machine operators, 232 Photographic process machine operators.

10. UNSKILLED MANUAL WORKERS

151 Machinery maintenance occupations, 160 Drywall installers, 167 Concrete and terrazzo finishers, 169 Insulation workers (***compare Sweden), 170 Paving, surfacing and tamping equipment operators, 172 Sheetmetal duct installers, 173 Structural metal workers, 174 Drillers

earth, 175 Construction trades, not elsewhere classified, 177 Drillers, oil wells, 179 Mining machine operators, 180 Mining occupations, not elsewhere classified, 183 Precision assemblers, metal, 186 Precision grinders, filers and tool sharpeners, 188 Lay-out workers, 190 Engravers, metal, 196 Patternmakers, lay-out workers and cutters, 201 Misc precision workers, not elsewhere classified, 202 Precision food production occupations, 205 Metalworking and plastic working machine operators, 206 Fabricating machine operators, not elsewhere classified, 207 Metal and plastic processing machine operators, 208 Woodworking machine operators, 210 Winding and twisting machine operators, 211 Knitting, looping, taping and weaving machine operators, 212 Textile cutting machine operators, 213 Textile sewing machine operators, 214 Shoe machine operators, 217 Misc textile machine operators, 218 Cementing and gluing machine operators, 219 Packaging and filling machine operators, 220 Extruding and forming machine operators, 221 Mixing and blending machine operators, 222 Separating, filtering and clarifying machine operators, 223 Compressing and compacting machine operators, 225 Roasting and baking machine operators, food, 226 Washing, cleaning and pickling machine operators, 227 Folding machine operators, 228 Furnace, kiln and oven operators exc. food, 229 Crushing and grinding machine operators, 230 Slicing and cutting machine operators, 233 Misc machine operators, not elsewhere classified, 234 Machine operators, not specified, 235 Welders and cutters, 236 Solderers and brazers, 237 Assemblers, 246 Truck drivers, heavy, 247 Truck drivers, light, 252 Motor transportation occupations, 255 Railroad brake, signal and switch operators, 256 Rail vehicle operators, not elsewhere classified, 257 Water transportation occupations, 260 Longshore equipment operators, 261 Hoist and winch operators, 262 Crane and tower operators, 263 Excavating and loading machine operators, 264 Grader, dozer and scraper operators, 265 Industrial truck and tractor equipment operators, 266 Misc material moving equipment operators, 268 Helpers, mechanics and repairers, 269 Helpers, construction and extractive occupations, 270 Construction laborers, 271 Production helpers, 272 Freight, stock and material handlers, 273 Vehicle washers and equipment cleaners, 275 Hand packers and packagers, 276 Laborers exc. construction.

11. OTHER OCCUPATIONS

139 Farm operators and managers, 140 Farm occupations exc. managerial, 141 Supervisors, related agricultural occupations, 144 Graders and sorters, agricultural products, 145 Inspectors, agricultural products, 146 Forestry and logging occupations, 147 Fishers, hunters and trappers.

COMMENTS

1. CLASS 2 PROFESSIONALS

25 (Management related occupations)

Despite the term 'management' this category is classified under professionals because it includes

12
accountants, auditors, personell specialists, training and labour relation specialists. (see Technical Paper 59, p.vii)

2. CLASS 2 PROFESSIONALS

23 (Construction inspectors)

This group could be also classified under managers (low).

3. CLASS 4 SEMI-PROFESSIONALS

49 (Dental hygienists)

In the 1960 classification this group is under medical and dental technicians.

4. CLASS 5 SKILLED SERVANT OCCUPATIONS

123 (Supervisors, cleaning and building service workers)

In the 1960 classification all building and cleaning workers are under unskilled servant occupations due to lack of detailed breakdowns.

5. CLASS 5 SKILLED SERVANT OCCUPATIONS

127 (Pest control occupations)

In the 1960 classification this group is included in the general category Operatives and Kindred Workers not elsewhere classified which is classified under unskilled manual workers.

6. CLASS 5 SKILLED SERVANT OCCUPATIONS

148 (Supervisors, mechanics and repairmen)

Some of these belong in fact to the skilled manual workers category; unfortunately there is no way to separate them out.

7. CLASS 6 UNSKILLED SERVICE OCCUPATIONS

132 (Guides)

In the 1960 classification there is no such category as guides. In the 1980 system, the following 1960 groups are classified under guides: Attendants, professional and personal services not elsewhere classified (812), Service workers except private household not elsewhere classified (890), Attendants, hospital and other institutions (810); these groups belong to our unskilled service

workers and thus we put guides under unskilled service workers as well.

8. CLASS 6 UNSKILLED SERVICE OCCUPATIONS

215 (Pressing machine operators)

Workers as clothing ironers, pressers, laundry and dry cleaning operatives are included in this group; this is why this group is put under unskilled service occupations and not under manual as probably expected.

9. CLASS 7 CLERICAL OCCUPATIONS

120 (Dental assistants)

In the 1960 classification the equivalent category is Attendants Physician's and Dentist's Office (301) which is classified under clerical; thus, Dental Assistants are under clerical as well.

10. CLASS 8 SALES

63 (Supervisors and proprietors sales (salaried) and

64 (Supervisors and proprietors sales (self-employed))

Working proprietors in sales occupations and other sales managers who perform some of the same duties as the workers they supervise are classified as 'sales supervisors' rather than 'managers' (see Technical Paper 59, p.vii). Knowing that the managerial category is rather inflated in the U.S we preferred to classify these low managers under sales.

11. CLASS 9 SKILLED MANUAL WORKERS

200 (Electrical and electronic equipment assemblers),

204 (Plant and System operators),

238 (Hand cutting and trimming occupations),

239 (Hand molding, casting and forming occupations),

241 (Hand engraving and printing occupations),

242 (Hand grinding and polishing occupations) and

243 (Misc. hand working occupations)

These groups belong to Operatives and kindred workers not elsewhere classified as unskilled in the 1960 classification.

12. CLASS 10 UNSKILLED MANUAL WORKERS

257 (Water transportation occupations)

This group besides the sailors and deckhands contains officers, pilots and pursers (ship), groups that should be classified under professionals; due to data limits we cannot breakdown this group.

INDUSTRIAL CLASSIFICATION USA 1980

1. EXTRACTIVE

040-050 Mining

2. MANUFACTURING

230-391 Durable (excl. 321,322,351-370), 132-152 Textiles, 100-222 Non-durable (excl. 132-152), 351-370 Transportation equipment, 321,322 Office and accounting machines, electronic computing equipment, 060 Construction, 392 Not specified manufacturing industries

3. DISTRIBUTIVE SERVICES

500-571 Wholesale

4. COMMUNICATIONS, UTILITIES, TRANSPORT

440-442 Communications, 460-472 Utilities, 400-432 Transport

5. RETAIL

580-691 Retail

6. GOVERNMENT

900-932 Government

7. CONSUMER SERVICES

762,770 Hotel, motels, lodging places, 800-802,872 Entertainment, 751-760, 782 Repair services, 771 Laundry, 772-781, 790-791 Personal services, 761 Domestic services

8. SOCIAL SERVICES

842-860, 891 Education, 831-840 Health, 861-871, 880 Social welfare, religion.

9. BUSINESS SERVICES

700-710 Finance, 711 Insurance, 712 Real estate, 721-750 Other business services, 812-830, 841, 881-890, 892 Professional services

10. OTHERS

010-031 Agriculture.

CANADA

CLASSIFICATION OF OCCUPATIONS AND INDUSTRIES

The data derive from the Statistics Canada, Census of Canada (1961, 1971, 1981), **Special Tabulations**. The occupation code for all three years (1961, '71, '81) is the 1971 Standard Occupational Classification. We should also mention that the run of the 1961 data was made by Statistics Canada according to our 1971 and 1981 classifications (For detailed information on the samples, see Myles 1988, p. 338)

CLASSIFICATION OF OCCUPATIONS CANADA 1961,1971,1981

1. MANAGERS

1113 Government administrators, 1130 General managers and other senior officials, 1131 Managerial occupations in natural sciences and engineering, 1111 Members of legislative bodies, 1132 Managerial occupations in social sciences and related fields, 1133 Administrators in teaching and related fields, 1134 Administrators in medicine and health, 1135 Financial management occupations, 1136 Personnel and industrial relations management occupations, 1137 Sales and advertising management occupations, 1141 Purchasing management occupations, 1142 Service management occupations, 1143 Production management occupations, 1145 Managerial occupations construction operations, 1147 Managerial occupations transport and communication, operations, 1149 Other managers, 1179 Occupations related to management and administration not elsewhere classified, 6131 Managers, hotel motel and other accommodation.

2. PROFESSIONALS

1171 Accountants auditors and other financial officers, 1174 Personnel and related officers, 2111 Chemists, 2112 Geologists, 2113 Physicists, 2114 Meteorologists, 2119 Occupations in Physical Sciences not elsewhere classified, 2131 Agriculturalists and related scientists, 2133 Biologists and related scientists, 2139 Occupations in life sciences not elsewhere classified, 2141 Architects, 2142 Chemical engineers, 2143 Civil engineers, 2144 Electrical engineers, 2145 Industrial engineers, 2147 Mechanical engineers, 2151 Metallurgical engineers, 2153 Mining engineers, 2154 Petroleum engineers, 2155 Aeronautical engineers, 2157 Nuclear engineers, 2159 Architects and engineers not elsewhere classified, 2160 Sup. other occupations in architecture and

engineering, 2161 Surveyors, 2169 Other occupations in architecture and engineering not elsewhere classified, 2181 Mathematicians statisticians and actuaries, 2189 Occupations mathematicians, statisticians, system analysts, and related occupations not elsewhere classified, 2311 Economists, 2313 Social anthropologists and related social scientists, 2315 Psychologists, 2319 Occupations in social sciences not elsewhere classified, 2341 Judges and magistrates, 2343 Lawyers and notaries, 2349 Occupations in law and jurists not elsewhere classified, 2511 Ministers of religion, 2711 University teachers, 2719 University teaching and related occupations not elsewhere classified, 2792 Fine arts school teachers, 2793 Post secondary teachers not elsewhere classified, 3111 Physicians and surgeons, 3113 Dentists, 3115 Veterinarians, 3119 Health diagnostic and treating occupations not elsewhere classified, 3151 Pharmacists, 3311 Painters sculptors and related artists, 3313 Product and interior designers, 3314 Advertising and illustrating artists, 3319 Occupations fine and commercial art and photography related, not elsewhere classified, 3330 Production and direction perform and audio-visual arts, 3332 Musicians, 3333 Dancers and choreographers, 3335 Actors, 3337 Radio and television announcers, 3339 Occupations perform and audiovisual arts not elsewhere classified, 3352 Writers and editors, 3355 Translators and interpreters, 3359 Occupations in writing not elsewhere classified, 3373 Athletes, 9111 Air pilots, navigators and flight engineers, 9151 Deck officers (check***).

3. TECHNICIANS

2117 Physical sciences technologists and technicians, 2135 Life science technologists and technicians, 2163 Draughtsmen, 2165 Architecture and engineering technologists and technicians, 2183 System analysts computer programmers and related occupations, 2353 Technicians in libraries, museums and archival science, 3155 Radiological technologists and technicians, 3156 Medical laboratory technologists and technicians, 3157 Dental hygienists assistants and technicians, 9153 Engineering officers ship (**compare Sweden), 9551 Radio and TV Broadcasting equipment operators, 9555 Sound record and reproduction equipment operators.

4. SEMI-PROFESSIONALS

2331 Social workers, 2333 Occupations in welfare and community services, 2339 Occupations in social work and related fields not elsewhere classified, 2350 Sup. occupations lib. Mus. and archival science, 2351 Librarians and archivists, 2359 Occupations in libraries, museums and archival science not elsewhere classified, 2391 Education and vocational counsellors, 2399 Other occupations in social sciences and related fields not elsewhere classified, 2513 Nuns and brothers W N O R, 2519 Occupations in religion not elsewhere classified, 2731 Elementary and kindergarten teachers, 2733 Secondary school teachers, 2739 Elementary and secondary school teachers and related, occupations not elsewhere classified, 2791 Com. colleges and vocational school teachers, 2795 Teachers of exceptional students not elsewhere classified, 2797 Instructors and training officers not elsewhere classified, 2799 Other teaching and related occupations not elsewhere classified, 3117 Osteopaths and chiropractors, 3130 Supervisors nursing occupations, 3131 Nurses graduate excluded supervisors, 3137 Physiotherapeutical occupations and other therapists, 3152 Dietitians and nutritionists, 3153 Optometrists, 3154 Dispensing opticians, 3159

Other occupations in medicine and health not elsewhere classified, 3370 Coach train inst. and managers sports and recreation, 3371 Referees and related officials, 3379 Occupations in sport and recreation not elsewhere classified.

5. SKILLED SERVANT OCCUPATIONS

3315 Photographers and cameramen, 4179 Recording information mail messengers distributing, occupations not elsewhere classified, 4194 Hotel clerks, 6111 Fire fighting occupations, 6112 Policemen and detectives (government), 6113 Policemen and investigators (private), 6115 Guards and watchmen, 6119 Protective service occupations not elsewhere classified, 6120 Sup. food beverage preparation related services occupations, 6121 Chefs and cooks, 6130 Sup. occupations lodging and other accommodation, 6141 Funeral directors embalmers and related occupations, 6143 Barbers hairdressers and related occupations, 6145 Hostesses and stew excluded food and beverage, 6160 Sup. Apparel. and Furn. service occupations, 6190 Sup. other service occupations, 8537 Radio and TV service repairmen, 8581 Motor vehicle mechanics and repairmen, 9133 Conductors and brakemen railway, 9171 Bus drivers, 9557 Motion picture projectionists

6. UNSKILLED SERVANT OCCUPATIONS

3134 Nursing assistants, 3135 Nursing aides and orderlies, 3139 Nursing therapy and related assistants not elsewhere classified, 3375 Attendants sport and recreation, 4172 Mail carriers, 4177 Messengers, 5143 Newsboys, 5145 Service station attendants, 6123 Bartenders, 6125 Waiters hostesses and stew food and beverage, 6129 Food and beverage preparation and related occupations, 6133 Chambermaids and housemen, 6135 Sleep car and baggage porter belmen, 6139 Occupations lodging and other accommodation not elsewhere classified, 6144 Guides, 6147 Babysitters, 6149 Personal service occupations not elsewhere classified, 6162 Laundering and dry cleaning occupations, 6165 Pressing occupations, 6169 Apparel. and Furn. service occupations, 6191 Janitors charworkers and cleaners, 6193 Elevator operating occupations, 6198 Occupations in laboratory and other elementary service, workers, 6199 Other service occupations not elsewhere classified, 9173 Taxi drivers and chauffeurs.

7. CLERICAL

1115 Postmasters, 1116 Inspectors and regulatory officers (government), 1119 Officers and administrators unique to government not, elsewhere classified, 1176 Inspectors and register officers non governmental, 4110 Supervisors stenographers and typing occupations, 4111 Secretaries and stenographers, 4113 Typists and clerk typists, 4130 Sup. bookaccounts, recording and related occupations???, 4131 Bookkeepers and accounting clerks, 4133 Tellers and cashiers, 4135 Insurance bank and other financial clerks, 4137 Statistical clerks, 4139 Bookaccounts, recording and related occupations not, elsewhere classified, 4140 Sup. office machine and electronic data processing equipment, operators, 4141 Office machine operators, 4143 Electronic data processing equipment operators, 4150 Sup. Mat. recording , schedule and distribution occupations, 4151 Production clerks, 4153 Shipping and receiving clerks, 4155 Stock clerks and related occupations, 4157 Weighers, 4159 Mat. Rec. schedule, and distribution occupations not,

elsewhere classified, 4160 Sup. library file correspondence clerks and related, occupations, 4161 Library and file clerks, 4169 Library file correspondence clerks and related occupations, not elsewhere classified, 4170 Sup. rec, information, mail messengers distribution, occupations, 4171 Receptionists and information clerks, 4173 Mail and postal clerks, 4175 Telephone operators, 4190 Sup. other clerical and related occupations not elsewhere classified, 4191 Collectors, 4192 Adjusters claim, 4193 Travel clerks, ticket Stn. Freight agent, 4195 Personnel clerks, 4197 General office clerks, 4199 Other clerical and related occupations not elsewhere classified, 5137 Sales clerks commodities, 9553 Telegraph operators.

8. SALES

1175 Purchasing officer and buyer excluding wholesale and retail, trade, 5130 Sup. sales occupations commodities, 5131 Technical salesmen and related advisors, 5133 Commercial travellers, 5135 Salesmen and sales personnel (commodities) not elsewhere classified, 5141 Street Vendors and door to door salesmen, 5149 Sales occupations commodities not elsewhere classified, 5170 Sup. sales occupations services, 5171 Insurance salesmen and agents, 5172 Real estate salesmen, 5173 Salesmen and traders securities, 5174 Advertising salesmen, 5177 Business services salesmen, 5179 Sales occupations services not elsewhere classified, 5190 Sup. other sales occupations, 5191 Buyers wholesale and retail trade, 5193 Driver salesmen, 5199 Other sales occupations.

9. SKILLED MANUAL WORKERS, SUPERVISORS, FOREMEN

7710 Foremen, miners, quarry including oil and gas occupations, 7715 Blasting occupations, 8110 Foremen, mineral ore treat occupations, 8116 Inspectors, testing, grading and sampling occupations, 8130 Foremen, metal processing and related occupations, 8146 Inspectors, testing, grading, sampling occupations (metal, processing), 8150 Foremen, clay glass stone processing, 8156 Inspectors, testing, grading sampling occupations (clay), 8160 Foremen, chemical, petrol, rubber, plastic, related, 8176 Inspectors, testing, grading and sampling occupations, 8210 Foremen, food, beverage and related processing occupations, 8213 Baking confectionary making and related occupations, 8226 Inspectors, testing, grading and sampling occupations, 8236 Inspectors, testing, grading and sampling occupations, 8250 Foremen, pulping and papermaking related occupations, 8256 Inspectors, testing, grading and sampling occupations, 8260 Foremen, textile processing occupations, 8276 Inspectors, testing, grading and sampling occupations, 8290 Foremen, other processing occupations, 8296 Inspectors, testing, grading and sampling occupations, 8310 Foremen, metal machining occupations, 8311 Tool and die making occupations, 8313 Machinist and machine tool St.-Up. occupations, 8316 Inspectors, testing, grading and sampling occupations, 8330 Foremen, metal shaping, forming occupations excluding machines, 8333 Sheet metal workers, 8336 Inspectors, testing grading and sampling occupations, 8337 Boil makers Plat. structuring metal workers, 8350 Foremen, wood maching. occupations, 8351 Wood, pattern making occupations, 8356 Inspectors, testing grading and sampling occupations, 8370 Foremen, clayglass and stone and related occupations, 8376 Inspectors, testing grading and sampling occupations, 8390 Foremen, other machinery and related occupations not elsewhere classified, 8391 Engravers etchers and related occupations, 8395 Pattern makers and

mould makers not elsewhere classified, 8396 Inspectors, testing grading and sampling occupations, 8510 Foremen fabrication and assisting occupations, metal, production not elsewhere classified, 8515 Aircraft fabrication and assisting occupations not elsewhere classified, 8526 Inspectors, testing, grading and sampling occupations, 8527 Press instruments and related equipment, 8530 Foremen fabrication assisting occupations install repair not, elsewhere classified, 8531 Electrical equipment fabrication and assisting occupations, 8533 Electrical and related equipment installment, 8534 Electrical equipment fabrication and assisting occupations, 8535 Electrical and related equipment installment, 8536 Inspectors, testing, grading and sampling occupations, 8540 Foremen, fabrication and assisting and repair occupations, 8541 Cabinet and wood furnishing makers, 8546 Inspectors, testing, grading and sampling occupations, 8550 Foremen, fabrication assisting and repair occupations, 8553 Tailors and dressmakers, 8555 Furriers, 8557 Miliners hat and cap makers, 8561 Shoemaking and repairing occupations, 8562 Upholsterers, 8566 Inspectors, testing, grading and sampling occupations, 8570 Foremen, fabrication assisting and repair occupations, 8576 Inspectors, testing grading and sampling occupations, 8580 Foremen, mechanics and repair excluding electrical, 8582 Aircraft mechanics and repairmen, 8583 Rail transport equipment, mechanics and repairmen, 8584 Industrial farming construction machinery, mechanics and, repairmen, 8585 Business and commercial machinery, mechanics and repairmen, 8586 Inspectors, testing grading and sampling occupations, 8587 Watch and clock Repairmen, 8588 Precision instruments, mechanics and repairmen, 8589 Mechanics and repairmen excluding electrical not elsewhere classified, 8590 Foremen, production, fabrication assistants and repairmen, 8591 Jewel and silver fabrication assistants and repairmen, 8595 Paint and decoration occupations excluding construction, 8596 Inspectors, testing, grading and sampling occupations, 8710 Foremen, excavation, grading, paving and related occupations, 8730 Foremen, electric power light and wire, 8731 Electrical power linemen and related occupations, 8733 Construction, electricians and repairmen, 8735 Wire communication and related equipment (install), 8736 Inspectors, testing grading and sampling occupations, 8780 Foremen, other construction trades occupations, 8781 Carpenters and related occupations, 8782 Brick and stone masons tile setters, 8784 Plasterers and related occupations, 8787 Roofing waterproofing and related occupations, 8785 Painters and paperhangers and related occupations, 8791 Pipefitting plumbing and related occupations, 8795 Glaziers, 8796 Inspectors, testing, grading and sampling occupations, 9110 Foremen, air transport operating occupations?, 9130 Foremen, railway transport operating occupations, 9131 Locomotive engineers and firemen (NB), 9170 Foremen, motor transport operating occupations, 9190 Foremen, other transport and related equipment, 9310 Foremen, Mat. Hand related occupations not elsewhere classified, 9510 Foremen, printing and related occupations, 9511 Typesetters and compositors, 9512 Printing press occupations, 9513 Stereotypers and electrotypers, 9519 Printing and related occupations not elsewhere classified, 9514 Printing engravers excluding photoengravers, 9515 Photoengravers and related occupations, 9517 Bookbinders and related occupations, 9530 Foremen, stationary engine and utility equipment, 9531 Power station operators, 9550 Foremen, electric and related communication equipment, 9559 Electrical and related communication equipment operators, 9590 Foremen, other crafts and equipment operators, 9591 Photographic processing occupations, 9599 Other crafts and equipment operators not elsewhere classified, 9910 Supervisors and foremen not elsewhere classified, 9916 Inspectors, testing, grading and sampling occupations not, elsewhere classified.

7711 Rotary well drilling and related occupations, 7713 Other rock and soil drilling occupations, 7717 Mining, quarrying cut hand and load occupations, 7718 Occupations labourers and other elementary workers (mining), 7719 Mining quarrying including oil and gas occupations not elsewhere classified, 8111 Crushing and grinding occupations (mineral, ores), 8113 Mixing, separating, filtering and related mineral ores, 8115 Melt and roast occupations mineral ores., 8118 Occupations labourers and other elementary workers (mining), 8119 Mineral ore. treating occupations not elsewhere classified, 8131 Metal smelting, converting, refining furnacemen, 8133 Metal heat treating occupations, 8135 Metal rolling occupations, 8137 Mould core and metal casting occupations, 8141 Metal extruding and drawing occupations, 8143 Plating metal spray and related occupations, 8148 Occupations labourers and other elementary workers metal, production, 8149 Metal production and related occupations not elsewhere classified, 8151 Furnacemen and kiln clay glass stone, 8153 Separating, grinding, crushing and mixing occupations, 8155 Forming occupations, clay glass and stone, 8158 Occupations labourers and other elementary workers (clay), 8159 Clay glass stone production forming related not elsewhere classified, 8161 Mixing and blend occupations chemicals and related materials, 8163 Filtering straining and separating occupations (chemicals, and related)., 8165 Distilling Sublim. and carbon occupations, 8167 Roast cook and dry occupations (chemicals), 8171 Crushing and grinding occupations (chemicals and related), 8173 Coat and calender occupations (chemicals and related), 8178 Occupations, labourers and other elementary workers, 8179 Chemicals, petroleum, rubber, plastic and related, 8211 Flour and grain milling occupations, 8215 Slaughter meat cutting, canning, preserving, packing., occupations, 8217 Fish, canning, cur and packing occupations, 8221 Fruit and vegetables, canning, preserving packing, occupations, 8223 Milk processing occupations, 8225 Sugar processing and related occupations, 8227 Beverage processing occupations, 8228 Occupations, labourers and other elementary workers (food), 8229 Food and beverage processing not elsewhere classified, 8230 Wood processing occupations excluding pulp and papermaking, 8231 Sawmill sawyers and related occupations, 8233 Plywood making and related occupations, 8235 Wood treating occupations, 8238 Occupations, labourers and other elementary workers (wood), 8239 Wood processing occupations excluding pulp and paper not elsewhere classified, 8251 Cellulose, pulp preparing occupations, 8253 Papermaking and finishing occupations, 8258 Occupations, labourers and other elementary workers (pulp), 8259 Pulp and papermaking related occupations not elsewhere classified, 8261 Textile fibre preparing occupations, 8263 Textile spinning and twisting occupations, 8265 Textile winding and reeling occupations, 8267 Textile weaving occupations, 8271 Knitting occupations, 8273 Textile bleaching and dyeing occupations, 8275 Textile finishing and calender occupations, 8278 Occupations, labourers and other elementary workers, (textile), 8279 Textile processing occupations not elsewhere classified, 8293 Tobacco processing occupations, 8295 Hide and pelt processing occupations, 8298 Occupations, labourers and other elementary workers other, production, 8299 Other processing occupations not elsewhere classified, 8315 Machine tool operating occupations, 8319 Metal machining occupations not elsewhere classified, 8331 Forging occupations, 8334 Metalwork-machine operators not elsewhere classified, 8335 Welding and flame cut occupations, 8339 Metal shaping and forming occupations excluding machines not elsewhere classified, 8353 Wood saw and related occupations excluding sawmill, 8355 Planing, turning, shaping and related (wood), 8357

Wood sanding occupations, 8359 Wood machining occupations not elsewhere classified, 8371 Cutting and shaping occupations (clay glass), 8373 Abrad. and polishing occupations (clay glass), 8379 Clay, glass and stone and related materials, 8393 Filing, grinding, buffing, cleaning, 8399 Other machining and related occupations not elsewhere classified, 8511 Engineering and related equipment fabrication assisting, occupations not elsewhere classified, 8513 Motorvehicle, fabrication and assisting occupations not, elsewhere classified, 8523 Industry, farm, construction and other mechanics, 8525 Business and communication machines, fabrication and, assisting occupations, 8528 Occupations labourers and other elementary workers, (fabrication), 8529 Other fabrication and assisting occupations metal, production, not elsewhere classified, 8538 Occupations labourers and other elementary workers, (fabrication), 8539 Fabrication, assisting install and repair occupations, 8548 Occupations, labourers and other elementary workers, (fabrication), 8549 Fabrication, assisting and repair occupations (wood), 8551 Pattern marking and cutting occupations (textiles), 8563 Sew machine operators, textile and similar materials, 8568 Occupations, labourers and other elementary workers, (fabrication), 8569 Fabrication, assisting and repair occupations (textile), 8571 Bond and cement occupations rubber and plastic related, 8573 Mould occupations, rubber plastic and related production, 8575 Cutting and finishing occupations rubber, plastic and, related, 8578 Occupations, labourers and other elementary workers, (fabrication), 8579 Fabrication, assisting and other repair occupations (rubber), 8786 Insulating occupations (construction) (***compare Sweden), 8592 Marine craft fabrication, assisting and repair occupations, 8593 Paper production, fabrication and assembling occupations, 8598 Occupations, labourers and other elementary workers, 8599 Other production, fabrication, assisting and repair, occupations not elsewhere classified, 8711 Excavating grading and related occupations, 8713 Paving surfacing and related occupations, 8715 Railway sectionmen and trackmen, 8718 Occupations, labourers and other elementary workers, 8719 Excavating, grading paving and related occupations not, elsewhere classified, 8738 Occupations, labourers and other elementary workers, 8739 Electrical powerlight and wire (communications), 8783 Concrete finishing and related occupations, 8793 Structural metal erectors, 8798 Occupations, labourers and other elementary workers, 8799 Other construction trades occupations not elsewhere classified, 9113 Air transport operating support occupations, 9119 Air transport operating occupations not elsewhere classified, 9135 Rail transport operating support occupations, 9139 Rail transport operating support occupations not elsewhere classified, 9155 Deck crew ship, 9157 Engine and boiler room crew (ship), 9159 Water transport operating occupations not elsewhere classified, 9175 Truck drivers, 9179 Motor transport operating occupations not elsewhere classified, 9191 Subway and street railway operating occupations, 9193 Motormen and dinkeymen excluding rail transport occupations, 9199 Other transport and related equipment operators, 9311 Hoisting occupations not elsewhere classified, 9313 Longshoremen and street vendors and Frt. Han.???, 9315 Material handling equipment operators not elsewhere classified, 9317 Packaging occupations not elsewhere classified, 9318 Occupations, labourers and other elementary workers, (material handling), 9319 Material handling and related occupations not elsewhere classified, 9518 Occupations, labourers and other elementary workers, 9539 Station, engines and utility equipment operators, 9918 Labourers, other elementary work nec, 9919 Other occupations not elsewhere classified

11. OTHER OCCUPATIONS NOT ELSEWHERE CLASSIFIED

7112 Farmers, 7131 Farm management occupations, 7180 Forestry other farm horticultural and husbandry occupations, 7182 Farm workers, 7195 Nursery and related workers, 7197 Farm machine operators and custom operators??, 7199 Other farm horticultural and husbandry occupations not, elsewhere classified, 7311 Captain and other officers fish vessel, 7313 Fishermen, nettrapping and line occupations, 7315 Hunting, trapping and related occupations, 7319 Fishing, hunting, trapping and related occupations not, elsewhere classified, 7510 Foremen, forestry and logging occupations, 7511 Forestry conservation occupations, 7513 Timber cutting and related occupations, 7516 Logging inspectors, grading scaling and related occupations, 7517 Logging, hoist sort moving and related occupations, 7518 Occupations, labourers and other elementary workers, (forestry, logging), 7519 Forestry and logging occupations not elsewhere classified

12. ARMY

6116 Commissioned officers and armed forces, 6117 Other ranks armed forces.

COMMENTS

1. CLASS 5 SKILLED SERVANT OCCUPATIONS

9133 (conductors and brakemen railway)

Brakemen should be under the unskilled manual category according to the USA classification.

GERMANY

CLASSIFICATION OF OCCUPATIONS AND INDUSTRIES

The 1961 and 1985 cross tabulations for Germany are based on the census dataset 1960 and the micro-census dataset 1985 obtained from 'Zentrum fuer Umfragen, Methoden und Analysen (ZUMA)' Mannheim, Germany. The original tables for the 1961 census contained 164 cells with only 1 entry. The 1985 micro-census contained 547 cells with only entry. These cells were excluded from the raw tables by ZUMA for reasons of statistical confidentiality. However, the sums were not corrected.

CLASSIFICATION OF OCCUPATIONS, GERMANY 1961

The numbers of the occupations correspond to the numbers in the code-book from the 1961-census, that is the 'Datenhandbuch, historische Berufszaehlungen, Berufszaehlung 1961, Grundaeszaehlung, jw.vz61.sk59' as made available to us by ZUMA. The english occupational

categories are our translations of the German originals.

1. MANAGERS AND PROPRIETORS

611 Inn- and restaurantkeepers, hotelmanagers, and related occupations, 711 Entrepreneurs, managers, certified public accountants, higher civil servants.

2. PROFESSIONAL OCCUPATIONS

721 Judges, prosecutor, 722 Counselors, solicitors, legal advisors, and related occupations, 811 Medical doctors, 812 Dentists, 813 Veterinary surgeons, 814 Pharmacists, 822 University and other scientific teachers, 831 Priests, clergymen, 841 Economists, sociologists, biologists, and related occupations, 844 Writers, publicists, translators, 851 Sculptors, painters, and related occupations, 852 Actors, singers, dancers and other artists, 854 Musicians, 411 Engineers (mining), 412 Engineers (airplanes, ship and other), 413 Electro-engineers, 414 Architects, building engineers, and related occupations, 415 Chemists and chemical engineers, 416 Other engineers and technicians, 417 Mathematicians and physicists, 523* Ships Officers, 524 Pilots, airplane engineers and air traffic controllers.

3. TECHNICIANS

411* Mining technicians, 412* Technicians (airplanes, ship and other), 413* Electro-technicians, 414* Technicians (building), 415* Chemical engineers, 416* Other technicians, 417* Technicians in physics, 421 Special physical and technical workers, chemical lab workers, 423 Technical drawers, designers, 428 Other technical occupations, 332 Photographers, laboratory workers.

4. SEMI-PROFESSIONAL OCCUPATIONS

514 Advertising and public relations, 771 Social workers, 815 Nurses, masseur, dietitians, medical-technical assistants, and related occupations, 821 Kindergarden teachers, 843 Librarians, archivists, conservators (museum), 855 Other artistic assistant occupations, 822* School teachers, professional teachers, art, music and sport teachers, 831* Religious workers.

5. SKILLED SERVANT OCCUPATIONS

332* Photographers, laboratory workers, 377 Cooks, 428* Other technical occupations, 521 Traffic controllers, train-drivers, coach-drivers, traffic warders, 651 Hairdressers, 671 Watchmen, guards, attendants, 731 Police, firemen, and rel. occ, 818 Health control occupations.

6. UNSKILLED SERVANT OCCUPATIONS

519 Petrol station and garage warder, cashiers, ticket sellers, 521* Traffic controllers,

train-drivers, coach-drivers, traffic warders, 612 Waiters, 621 Domestic occupations, 631 Cleaners (house and furniture), 632 Chimney sweeps and other cleaners, 633 Machine cleaners, 634 Chemical and other cleaners.

7. CLERICAL OCCUPATIONS

381 Dispatchers, forwarders, storekeepers, 512 Banking and insurance specialists, 513 Dispatching and forwarding agents and tourist traffic agents, 525 Mail distributors, telegraphists, radio and telephone operators, 712 Bookkeepers, cashiers, stenographers, and related occupations, 724 Law enforcers, bailiffs.

8. SALES OCCUPATIONS

511 Salesmen, 515 Brokers, auctioneers, taxators.

9. SKILLED MANUAL WORKERS, CRASFTSMEN, FOREMEN

222 Precious metal treaters, 241 Masons bricklayers, 243 Carpenters and roofers, 244 Plasterers, plasterer, 245 Blasters, 247 Stucco-workers, and related occupations, 252 Sheet metal workers, 253 Moulders, 261 Smiths, 263 Toolmakers, 264 Lock smiths, 265 Plumbers, Fitters, 266 Musical instrument makers (pianos, organs), 267 Mechanics, 268 Precision mechanics, medical instrument maker, and related occupations, 272 Electrical equipment fitters, 274 Electrical machine makers, fitters, and related occupations, 281 Chemical industry and laboratory workers, 282 Vulcanisers, 302 Carpenters and joiners, 303 Cooper, barrel makers, 304 Wheelwright, wooden ship builders, 305 Lathe operators, wood-carvers, sculptors, 306 Wood product makers (baskets, etc), 307 Doll makers, 322 Bookbinders, 333 Type-setters, compositors, and related occupations, 335 Printers, 342 Spinners, 348 Tailors, 349 Hat makers, 351 Upholsterer, decorator, 364 Shoemakers, 366 Furriers, 371 Millers, 372 Bakers, 378 Brewers and other beverage makers, 431 Machinists (Ship and Power machines), 375 Butchers and other meat workers.

10. SEMI- AND UNSKILLED WORKERS

211 Miners, 212 Miners and Quarrymen, 213 Mineral and Stone treaters, 221 Stone treaters, 223 Mineral Distillers, 224 Brick makers, 225 Potters and related clay and abrasive workers, 226 Glass-making furnacemen, 227 Glass-makers, 228 Glass and ceramics painters, 242 Concrete builders, 251 Metal Manufacturers, 254 Metal refiners, 255 Metal millers, lathers, and related occupations, 256 Brass-workers, 257 Solderers and other metal connectors, 258 Galvanisers and related occupations, 259 Other metal workers, 262 Wire makers, 269 Other metal construction workers, 271 Wire makers, 291 Synthetic material workers, 301 Wood workers, 308 Polishers, 321 Paper makers, 336 Printing assistants, 337 Reproduction workers, 341 Felt makers, 342 Weavers, 345 Knitters, 346 Other textile workers, 347 Embroiderers, 353 Other textile makers, 354 Dyers, bleachers, 361 Leather workers, 363 Saddlers and other leather workers, 373 Sugar makers, 374 Dairy workers, 377* Other food processors, 379 Tobacco workers, 391 Other manual workers, 433 Other machinists, 435 Boilermen, stokers, 436 Equipment installators, 523 Sailors

and other water traffic occupations, 526 Dockers, other transport workers, 633* Machine cleaners, 634* Chemical and other cleaners.

11. OTHER OCCUPATIONS

111 Farmers, 112 Farm workers, 113 Milkers, and related occupations, 114 Animal Breeders, 115 Gardeners and Nursery workers, 121 Forersters, 122 Hunters, 123 Fishermen, 131 Unpaid family-members.

12. EXCLUDED FROM ANALYSIS

911 Unpaid family members, 921 In vocational training without steady occ, 923 Not defined/reported

COMMENTS

1. CLASS 2 PROFESSIONALS.

822 (University and other scientific teachers)

Only at the 4-digit level of detail would it have been possible to distinguish between the university teachers and other teachers. At the 3-digit level of detail both groups were classified in the same category 'teachers'. In order to estimate the distribution professionals-semi-professionals within this group, we first looked in which industry this group was concentrated. As expected over 98% falls in our industry 'social services' (see below). We then went back to the 4-digit detailed tables of the 1961 tables as published in: Statistisches Bundesamt Wiesbaden, Bevoelkerung und Kultur, Volks- und Berufszählung vom 6. Juni 1961, heft 3, Erwerbspersonen in beruflicher Gliederung, Stuttgart/Mainz (Kohlhammer Verlag), pp. 284-286. The following numbers were computed:

	Total	Male	Female
Semi-professional teachers	244961	132300	112800
Professional teachers	72046	53900	18100

(The totals are the totals of the dataset. Male+Female may not exactly add up to this total due to rounding)

We then subtracted 98% of the number found for the semi-professional teachers from the 3-digit category 'teachers' of the professional class in the social services and added them to a new category 'teachers' of the semi-professional class in the social services. We followed this procedure both for male and female and the total.

2. CLASS 2 PROFESSIONALS

831 (Priests, clergymen and religious workers)

With this category we had the same problem as with category 822. Priests were to be classified as professionals whereas the religious workers were to be classified as semi-professionals. The same procedure as with the teachers was followed and the tables were adjusted accordingly.

3. CLASS 3 TECHNICIANS

411-417 (Engineers and technicians)

Neither on the basis of the available 3-digit data-set nor on the basis of the 4-digit census publications was it possible to reconstruct the distinction between engineers ('professionals') and technicians ('technicians') in a similar way as was done with the categories 822 and 831. The class 'technicians' was therefore seriously undercounted. In order to adjust this as well as possible, we took the 1970 ratio technicians-engineers as the best estimate available for the real 1960 ratio. We computed the number of technicians as a proportion of the total engineers and technicians of the 1970 census and applied the so obtained proportions to the 1960 data.

The following proportions were computed:

	Male	Female	Total
Technicians as a proportion of technicians + engineers in 1970	0.5539	0.7899	0.5646

We multiplied these proportions by the relevant numbers of 1961 (categories 411-417), subtracted these from the professionals in every industry and added them to the class 'technicians'.

Note that by following this procedure we made the - according to us reasonable - assumption, that the proportion technicians-engineers is stable over the industries.

4. CLASS 3 TECHNICIANS

428 (Other technical occupations)

This category also contains film projectionists, a group that we preferred to classify under 'skilled servant occupations' for reason of comparability with the other countries. The 'other technical occupations' in 'retail' and 'consumer services' were therefore moved to the class 'skilled servant occupations'.

5. CLASS 3 TECHNICIANS

332 (Photographers, laboratory workers)

For reasons of comparability we wanted to classify the photographers as 'skilled servant occupations'. As an estimation we classified those of category 332 working in 'consumer services', 'retail' or 'business services' as 'skilled servant occupations'.

6. CLASS 4 SEMI-PROFESSIONALS

822* see above

7. CLASS 4 SEMI-PROFESSIONALS

831* see above

8. CLASS 5 SKILLED SERVANT OCCUPATIONS

332* see above

9. CLASS 5 SKILLED SERVANT OCCUPATIONS

428* see above

10. CLASS 5 SKILLED SERVANT OCCUPATIONS

377 (Cooks and other food processors)

In the 3-digit information of the dataset cooks were in the same category as the group 'other food processors'. We separated the cooks out by classifying those within the category 377 working in the 'consumer' and 'social services' as 'skilled servant occupations' and the rest as 'semi- and unskilled workers'.

11. CLASS 5 SKILLED SERVANT OCCUPATIONS

521 (Traffic controllers, train-drivers, coach-drivers, traffic warders)

This category contains some 'skilled servant occupations' that we have tried to separate out by only placing those of category 521 working in the 'consumer services' in occupational class 6, the 'skilled servant occupations' and the rest to 'unskilled servant occupations'

12. CLASS 6 UNSKILLED SERVANT OCCUPATIONS

521* see above

13. CLASS 6 UNSKILLED SERVANT OCCUPATIONS

633 (Machine cleaners)

Those machine cleaners not working in the consumer services were removed and placed in class 10 'semi- and unskilled manual workers'

14. CLASS 6 UNSKILLED SERVANT OCCUPATIONS

634 (Chemical and other cleaners)

Those cleaners not working in the consumer services were removed and placed in class 10 'semi- and unskilled manual workers'

15. CLASS 10 SEMI- AND UNSKILLED WORKERS

633* see above

16. CLASS 10 SEMI- AND UNSKILLED WORKERS

634* see above

17. CLASS 10 SEMI- AND UNSKILLED WORKERS

377* see above

18. CLASS 10 SEMI- AND UNSKILLED WORKERS

523

This category contained also ship officers, which belong in class 2 'professional occupations'. From the 4-digit information taken from: Statistisches Bundesamt Wiesbaden, Bevoelkerung und Kultur, Volks- und Berufszaehlung vom 6. Juni 1961, heft 13, Erwerbspersonen in beruflicher

Gliederung, Stuttgart/Mainz (Kohlhammer), p. 280., we computed the number of professionals (ship officers):

	Male	Female	Total
Professionals	8395	-	8395
Unskilled Manual	56005	400	56405

We found that over 85% is concentrated in industry 'Utilities and transport', so that 85% of the number found for the professionals (ships officers) was removed and added to the relevant cell ('professionals' x 'utilities and transport').

19 CLASS 12 EXCLUDED FROM ANALYSIS

911,921,923 were categories excluded from all analyses

Finally we excluded military personnel by excluding the 'industry' 'army' from all analyses (see below)

CLASSIFICATION OF INDUSTRIES, GERMANY 1961

The numbers of the industries correspond to the numbers in the code-book from the 1961-census, that is the 'Datenhandbuch, historische Berufszaehlungen, Berufszaehlung 1961, Grundaenzaehlung, jw.vz61.sk59' as made available to us by ZUMA. The english industrial categories are our translations of the German originals.

1. EXTRACTIVE

9-13 Mining

2. MANUFACTURING

14-20 Chemicals, minerals, synthetics, 21-23 Ceramics and glass, 24-31 Metals, 32-36 Transportation equipment, 37-41 Electrical, optical industries, office machines, musical instruments, jewelry, 42-49 Wood, paper and leather, 50-54 Textiles, 55-66 Food and tobacco industries, 67-71 Construction.

3.DISTRIBUTIVE SERVICES

70-76 Wholesale

4. UTILITIES AND TRANSPORT

8 Energy and water, 86-92 Transport

5. RETAIL

77-84 Retail

6. GOVERNMENT

111 Non-profit organisations, 113 State institutions, 116 Public security, 117 Social security

7. CONSUMER AND PERSONAL SERVICES

95-98 Personal services, 108 Other services excl. photography, 112 Domestic services

8. SOCIAL SERVICES

99 Education and sport, 102 Health, 109 Religious services.

9. BUSINESS SERVICES

93-94 Finance and insurance, 103-107 Other business services, 110 Professional organisations

10. COMMUNICATION

85 Post, 100 Radio, television, theatre, 101 Publishing

11. OTHER

1-7 Agriculture, 118 Unspecified

12. ARMY

114, 115 Army

CLASSIFICATION OF OCCUPATIONS, GERMANY 1985

The numbers of the occupations correspond to the numbers in the code-book from the 1985 micro-census, that is the 'Mikrozensus 1985, ZUMA-mikrodaten, haefufigkeitsauszaehlung' as made available to us by ZUMA. The english occupational categories are our translations of the German originals.

1. MANAGERS AND PROPRIETORS

751 Entrepreneurs, 761 Members of parliament, ministers and related occupations., 762 Public executives, 763 Leaders of organisations, 911 Innkeeper, restaurant proprietors.

2. PROFESSIONALS

32 Engineers in agriculture, 52 Landscape-gardeners and garden-architects, 601 Machine engineers, 602 Electrical engineers, 603 Architects, building engineers, 604 Surveyors (engineers), 605 Mining engineers, 606 Other manufacturing engineers, 607 Other engineers, 611 Chemists, chemical engineers, 612 Physicists, engineers, mathematicians, 721 Navigators, nautical experts, 722 Ships officers, 726 Air traffic occupations (pilots/navigators/air traffic, control, 752 Business consultants, 753 Accountants, 774 Data processing specialists/ system analysts, programmers, 811 Judges, 813 Laywers, 821 Journalists, 822 Interpreters, translators, 831 Musicians, 832 Actors and related occupations., 833 Artists, 834 Painters, 838 Professional sportsmen, 841 Doctors, 842 Dentists, 843 Veterinary surgeon, 844 Pharmacists, 871 University teachers, 872 Gymnasium teachers, 881 Social scientists, 882 Philosophers, 883 Physical scientists, 891 Priests, clergymen.

3. TECHNICIANS

303 Dental technicians, 621 Machine making technicians, 622 Electro-technicians, 623 Construction technicians, 624 Surveying technicians, 625 Mining technicians, 626 Chemical, physics technicians, 627 Other manufacturing technicians, 628 Other technicians, 629 Foremen (technicians), 631 Biological technical specialists, 632 Physical, mathematical technical specialists, 633 Chemical laboratorists, 634 Photo-lab workers (special technicians), 635 Technical drawers, 835 Other artists (technical assistance), 857 Medical laboratory (health technicians).

4. SEMI-PROFESSIONALS

304 Opticians, 685 Farmacists' helpers, 703 Advertising specialists/ public relations/ text writers, 823 Librarians, 836 Interior decorator, 852 Masseurs, 853 Nurses, 855 Dietitions, 861 Social workers, 862 Social pedagogical workers, 863 Career councilers, 864 Kindergarden staff, 873 Other teachers, 874 Apprentice teachers, 875 Music teachers, 876 Sport teachers, 877 Other teachers, 892 Members of religious orders, 893 Other religious workers, 922 Consumer consultants.

5. SKILLED SERVANT OCCUPATIONS

315 Radio and television repairmen, 411 Cooks, 491 Decorators, 702 Tourist agents/specialists (guides), 714 Motor vehicle drivers, 715 Coachmen, drivers, 791 Security personnel, 801 Police, customs, 802 Firemen, 803 Private security personnel, 805 Pest controllers, 837 Photographers, 851 Lay medical practitioner, homoeopaths, 901 Hairdressers, 902 Other body treaters, 912 (Chef) Waiters, stewards, 921 Housekeeper.

6. UNSKILLED SERVANT WORKERS

686 Petrol station attendant, 712 Railway traffic controllers, 713 Other traffic controllers, 716 Traffic warder, 731 Keeper of post horses, 792 Attendants, wards, 793 Door-keepers, concierge, 794 Housekeepers, 804 Chimneysweep, 854 Nurse assistants, 913 Other waiters and related occupations nec, 923 Housekeeping personnel, 931 Cleaners, washers, laundry personnel, 933 Furniture cleaners, 934 Window and building cleaners, 935 Street cleaners and garbage collectors.

7. CLERICAL OCCUPATIONS

522 Dispatchers, 691 Bank specialist, 692 Building society specialist (agents), 693 Health insurance specialists, 694 Life insurance specialists, 706 Ticket sellers, cashiers, 732 Mail distributors, 733 Radio operators, telegraphists, 734 Telephone operators, 741 Store keepers, warehousemen, 771 Calculators, facturists, 772 Bookkeepers, 773 Cashiers, 781 Office clerks, 782 Steno-, machine-typists, 783 Data typists, 784 Clerical assistants, 812 legal clerks, 814 Bailiff, law clerks, 856 Waiting room attendants, doctors assistants.

8. SALES OCCUPATIONS

681 Salesmen, buyers, 682 Seller, 683 Booksellers, 684 Druggist, 687 Trade representative, 688 Travelling agents, 701 Forwarding agents, 704 Brokers, 705 Real estate agents.

9. SKILLED MANUAL WORKERS

134 Glass blower, 142 Chemical laboratory workers, 144 Vulcanisers, 163 Book binders, 171 Type-setters, 172 Printing material manufacturer, 173 Book printers, relief-printers, 174 Photogravure printers, 175 Special printers, 184 Basket makers, 201 Moulders, 202 Metal foundry workers, 221 Lathe operator, 251 Blacksmiths, and related occupations, 252 Copper smith, 263 Plumbers, 261 Sheet metal workers, 262 Pipe fitters, 271 Locksmiths, 272 Smiths (tin), 273 Mechanics, 274 Factory repair mechanics, 275 Smiths (steel, shipbuilding), 281 Car mechanics, 282 Farming equipment mechanics, 283 Aircraft mechanics, 284 Precision mechanics, 285 Other mechanics, 286 Watchmakers, 291 Toolmakers, 302 Jewellery and precious metal workers, 305 Musical instrument makers, 306 Doll (models) and stuffed toy makers, 311 electrical fitters, 312 Telephone and telegraph installers, 314 Electrical equipment maker, 331 Spinner and preparer, 351 Tailors, 355 Hat makers, 372 Shoemaker, 374 Leather goods makers (rough), 378 Fur Worker, 391 Bakers, 392 Pastry cooks, 401 Butchers, 421 Wine cooper, cellarmen, 422 Brewers,

and related occupations., 441 Bricklayers, 451 Carpenters, 452 Roofers, 461 Plasterers, 464 Men in charge of blasting operations, 481 Stucco-workers, 483 Tile layers, 484 Stove-fitters, 485 Glaziers, 492 Upholsterer, 501 Carpenter, cabinet maker, 502 Model carpenters, 503 Coopers, 511 Painters, 541 Stationary engine machinists, 542 other skilled machinists, 711 Railway-engine drivers.

10. UNSKILLED WORKERS

71 Mine-workers, 72 Machine operators, 81 Mineral and stone treaters, 82 Miners and quarrymen, 83 Well drillers, borers and related workers, 91 Mineral dressers, and related occupations, 101 Stone cutters and carvers, 102 Precious metal treaters, 111 Stone treaters (clay, etc), 112 Stone treaters (cement, etc.), 121 Potters and related clay and abrasive formers, 131 Glass-making furnacemen, 132 Glass-maker (hollow), 133 Glass-maker (flat), 135 Glass treaters, 141 Chemical factory workers, 143 Rubber processors and related workers, 151 Synthetic fibre makers, 161 Paper makers, 162 Packers, 164 Other paper workers, 176 Hectographical workers, 177 Printing plate preparers, 181 Wood preparers, 182 Wood treaters, 183 Wood product makers, 191 Metal manufacturer, 192 Metal grinder, 193 Metal drawers, 203 Other moulders, 211 Tin workers, 212 Metal wire makers, 213 Other metal workers, 222 Milling operatives, 223 Joiners, 224 Drillers, 225 Metal sharpeners, 226 Other metal cutters, 231 Polishers, 232 Engravers, 233 Metal hareners, refiners, 234 Galvanizers, 235 Metal surface workers, 241 Welders, 242 Solderers, 243 Riveters, 244 Other metal processors, 301 Precision metal workers, 313 Electric motor fitters, 321 Electrical equipment fitters, 322 Other fitters, 323 Metal workers, 332 Spoolers, sewers and rope makers, 341 Weaving preparers, 342 Weavers, 343,, 344 Other occupations related to textiles, 345 Felt maker, 346 Textile weaver, 352 Sewers, 353 Other sewers, 354 Knitters, 356 Sewers, knitters, 357 Other textile workers, 361 dyers, 362 Textile finisher, 371 Leather worker, 373 Shoe repairmen, 375 Leather goods makers (fine), 376 Leather apparel workers, 402 Meat preparers, and related occupations., 403 Fish preparers, 412 Food preservers, 423 Food, beverage workers, 424 Tobacco makers, 431 Milk and fat processors, 432 Flower and food makers, 433 Sugar makers, 442 Cementers, 453 Platform builders, 462 Road building construction workers, 463 Rail/Track builders, 465 Dike and related occupations (construction), 466 Other excavation and site-preparation workers, 471 Earth moving and related machinery, 472 Other construction workers, 482 Insulators, 486 Plaster floor makers, and related occupations, 504 Other wood workers, 512 Other painters (products), 513 Wood finishers, 514 Ceramics and glass painters, 521 Commodity examiners, sorter, 531 Unskilled workers (temporary workers), 543 Other machinists, 544 Crane and hoist operators, 545 Earth moving machinists, 546 Buildin machine machinists, 547 Machine attendant, assistant, 548 Stoker, firemen, 549 Machine fitters, 723 Deck crew, 714* Motor vehicle drivers, 715* Coachmen, drivers, 724 Inland navigators, 725 Other water-traffic occupations, 742 Truck drivers, 743 Docker, loaders, 744 Transport workers, 932 Textile painters, cleaners, 936 Vehicle cleaners, 937 Machine cleaners.

11. OTHER

11 Farmers, 12 Wine-growers, 21 Animal breeders, 22 Fishermen, 31 Farm manager, 41 Farm workers, 42 Milkers, 43 Farm worker (member of family), 44 Animal breeders and related

occupations, 51 Gardeners and nursery workers, 53 Floriculturists, 61 Foresters and hunters, 62 Forestry workers, 971 Unpaid family-members.

12. EXCLUDED FROM ANALYSIS

981 In vocational training without steady occupation, 982 Volunteers, 983 Job seekers without steady occupation, 991 Unemployed.

COMMENTS

1. CLASS 5 SKILLED SERVANT WORKERS

714 (Motor vehicle drivers)

Only those working in 'consumer services' were classified as 'skilled servant workers', the rest as 'semi- and unskilled manual workers'

2. CLASS 5 SKILLED SERVANT WORKERS

715 (Coachmen, drivers)

Only those working in 'consumer services' were classified as 'skilled servant workers', the rest as 'semi- and unskilled manual workers'

3. CLASS 10 SEMI- AND UNSKILLED MANUAL WORKERS

714* see above

4. CLASS 10 SEMI- AND UNSKILLED MANUAL WORKERS

715* see above

4. CLASS 10 SEMI- AND UNSKILLED MANUAL WORKERS

801 (Police, customs)

This category also contains military personnel. Since we exclude 'industry''army' from the cross tabulations, we excluded soldiers from this category.

CLASSIFICATION OF INDUSTRIES, GERMANY 1961

The numbers of the industries correspond to the numbers in the code-book from the 1985

micro-census, that is the 'Mikrozensus 1985, ZUMA-mikrodaten, haeufigkeitsauszaehlung' as made available to us by ZUMA. The english industrial categories are our translations of the German originals.

1. EXTRACTIVE

8-11 Mining

2. MANUFACTURING

12-17 Chemicals, minerals, synthetics, 18-20 Ceramics, 21-25 Metals, 29 Office machine
38 Textiles, 45-47 Construction

3. DISTRIBUTIVE SERVICES

48-55 Wholesale

4. UTILITIES AND TRANSPORT

7 Energy, water, 58, 60-63 Transport

5. RETAIL

56 Retail

6. GOVERNMENT

89 Non-profit organisations, 91 State institutions, 94 Public security, 95 Social security

7. CONSUMER AND PERSONAL SERVICES

26-28, 30 Repair, 66 Hotel, 31 Music, sport, 68-70 Laundry, hairdressing and other services,
84-85 Other personal services e.g photography, 90 Domestic services

8. SOCIAL SERVICES

67 Social welfare institutions, 71 Education, 75 Health, 86 Religious services, 87 Organisations
of science and culture

9. BUSINESS SERVICES

64, 65, 76-83 Finance, insurance and other business services, 88 Professional organisations

10. COMMUNICATION

57 Post, 72-74 Radio, television, theatre and publishing

11. OTHER

1-6 Agriculture, 96 Unspecified

12. ARMY

92-93 Army

SWEDEN

CLASSIFICATION OF OCCUPATIONS AND INDUSTRIES

The 1960 and 1980 datasets used to produce the cross tabulations for Sweden were based on the national censuses 1960 and 1980. The data were obtained directly from 'Statistics Sweden'.

CLASSIFICATION OF OCCUPATIONS, SWEDEN 1960

The numbers of the occupational categories correspond to the numbers of the 1960 census.

1. MANAGERS AND PROPRIETORS

101 General government- administrative work, 111 Private executives, 118 Private office managemnt, 119 Not Specified, 301 Wholesale trade (owners), 302 Retail trade (owners), 332 Shop managers.

2. PROFESSIONALS

011 Professionals - chemists, 012 Physicists, 013 Geologists, meteorologists, 021 Veterinaries, 022 Biologists, 023 Agricultural and horticultural scientists and related occupations, 024 Forestry scientists, 029 Not specified, 031 Medical work - Physicians, 032 Dentists, 039 Not specified, 046 Pharmacists, 050 Pedagogical work - School leaders, 051 Teachers, university and high school, 052 Teachers in theoretical subjects, 061 Religious work, clergymen, 071 Juridical work - courts, 072 Public prosecutors and higher police officials, 073 Lawyers, and related occupations, 074 Juridical commissioners (ombudsman), 078 Other juridical work, 079 Not specified, 081 Artists, 082 Designers, 084 Authors, 085 Journalists, editors, 086 Actors, dramatic artists, 087 Musicians, 088 Other literary and artistic work, 089 Not specified, 091 Other technical and social

scientific work (accountants and auditors), 094 Economists, statisticians, 095 Psychologists -personnel men, 621 Air pilots and related occupations.

3. TECHNICIANS

001 Technicians - in construction, engineers incl. architects, 002 Electrical power and teletechnical work, 003 Mechanical technicians, 004 Chemical technicians, 005 Mining and metallurgical technicians, 006 Other technical work, 008 Laboratory technicians, 009 Technicians (not specified), 019 Technicians (chemistry, physics), 045 Medical-technical assistants, 098 Other social-scientific and technical work, 099 Not specified, 603 Engine officers, 602 Ship pilots, 609 Not specified, 744 Dental technicians, (Note: 001-006,009: 20%=professionals).

4. SEMI- PROFESSIONALS

040 Nurses, 041 Midwives, 042 Nurses in psychiatric care, 047 Physical therapists and related occupations, 048 Health and hygiene inspectors, 049 Not specified, 053 Class teachers, 054 Teachers in practical subjects, 055 Professional teachers, 056 Pre-elementary school teachers, 057 Education consultants and related occupations, 058 Other pedagogical work, 059 Not specified, 068 Other religious work, 069 Not specified, 092 Social service workers, 093 Librarians, museum service work, 313 Publicity men and related occupations, 945 Sports coaches, trainers.

5. SKILLED SERVANT OCCUPATIONS

044 Dental assistants, 083 Decorators, 295 Building Caretakers, 601 Naval officers, 632 Railway conductors, 636 Bus- and streetcar conductors, 642 Air traffic officers, 901 Fire fighters, 902 Policemen, 903 Customs service personnel, 904 Prison guards and related occupations, 908 Other protective service work, 909 Not specified, 911 'Chefs', 912 Cooks, and related occupations, 916 Hotel receptionists, 917 Pursers, stewardesses and related occupations, 941 Hairdressers, Beauticians and related occupations, 946 Photographers, 947 Undertakers.

6. UNSKILLED SERVANT OCCUPATIONS

043 Assistant nurses (23%=skilled servant), 338 Gas station attendants, demonstrators and related occupations, 339 Not specified, 633* Motorvehicle- and streetcar drivers, 634* Drivers, 635 Messenger (delivery men), 661 Mail carriers, 913 Kitchen assistants, 914 Nursemaids (not hospital), and others, 915 Home helpers, and others, 918 Other housekeeping work, 919 Not specified, 921 Butlers, waiters, 931 Janitors, building caretakers, 932 Charworkers, 933 Chimney sweeps, 939 Not specified, 942 Bath attendants, 943 Cleaners, 944 Laundry pressers, 948 Other service work, 949 Not specified.

7. CLERICAL OCCUPATIONS

201 Book-keepers, office cashiers, 203 Bank cashiers, 208 Collectors, and related occupations, 209 Not specified, 290 Secretaries, typists and related occupations, 291 Computer operators, 292

732 Metal temperers and related occupations, 733 Metal rolling mill workers, 736 Metal casters, 737 Metal drawers, 738 Other metal process work, 739 Not specified, 755 Welders and flame cutters, 756 Metal workers, 757 Metal platers andcoaters, 758 Other, 759 Not specified, 767 Linemen, 768 Other electrical work, 774 Sawyers, wood planers, and related occupations, 778 Other wood work, 779 Not specified, 793 Concreters, building workers, and related occupations, 798 Others, 821 Grainmillers, 825 Food preservers, 827 Dairy workers, 828 Other food and beverage processers, 829 Not specified, 831 Chemical processers, 834 Pulp- and paper processers, 836 Paper andpaperboard workers, 838 Other chemical and cellulose technical work, 839 Not specified, 841 Tobacco workers, 851 Rubber product workers, 852 Plastic product workers, 853 Tanners and leather preparers, 856 Stone cutters, 857 Paper product workers, 858 Other manufacturing work, 861 Unskilled and various labour, 872 Crane and hoist operators, 873 Riggers, 874 Earth-moving and related machinery operators, 875 Truckdrivers and conveyor operators, 876 Oilers, 879 Not specified, 881 Packers and related occupations, 882 Dockers and related occupations, 883 Warehouse porters, storemen, and related occupations, 888 Removal men and others, 889 Not specified, 899 Other Manufacturing.

11. OTHER OCCUPATIONS

401 Working proprietors in agriculture, forestry and related occupations, 402 Agriculture - management, 403 Forestry - management, 404 Gardening - management, 405 Livestock breeding, 406 Fur animal breeding, 407 Reindeer owners, 409 Not specified, 411 Farm workers and related occupations, 412 Orchard and nursery workers, 413 Domestic animal keepers, 414 Fur animal keepers, 415 Reindeer keepers, 418 Other agricultural work, 419 Not specified, 421 Game keepers and hunters, 431 Fishermen, 432 Fish breeders, 441 Forestry and logging

12. MILITARY AND NOT INCLUDED

981 Military work, 999 Not classified work.

COMMENTS

1. CLASS 2 PROFESSIONALS

001 (Technicians - in construction, engineers incl. architects)

In Sweden these 'technicians' are in reality professionals like engineers and architects.

2. CLASS 5 SKILLED SERVANT OCCUPATIONS

633 (Motorvehicle- and streetcar drivers)

Those not working in the 'consumer services' were classified as 'semi- and unskilled workers'.

2. CLASS 5 SKILLED SERVANT OCCUPATIONS

634 Drivers

Those not working in the 'consumer services' were classified as 'semi- and unskilled workers'.

3. CLASS 10 SEMI- AND UNSKILLED WORKERS

633* (Motorvehicle- and streetcar drivers)

See above

3. CLASS 10 SEMI- AND UNSKILLED WORKERS

634* (Drivers)

See above

CLASSIFICATION OF INDUSTRIES, SWEDEN 1960

The numbers of the industrial categories correspond to the numbers of the 1960 census.

1. EXTRACTIVE

1. Mining

2. MANUFACTURING

20,21,26,27,30,31,32 Food and related industries, 22,23 (except 232),28 Textiles, 24,25,33,344-349,35,37,39 Wood, 340-343 Metal, 36 (except 364,366) Transportation equipment
4 Construction

3. DISTRIBUTIVE SERVICES

60,61 Wholesale

4. UTILITY, TRANSPORT

5 (except 504) Electricity, gas, 70,71 Transport

5. RETAIL

62-66 Retail

6. GOVERNMENT

80 Administration

7. CONSUMER AND PERSONAL SERVICES

504,884 Cleaning, chimney sweep, 87 Hotels and restaurants, 85 Recreation, 232,364,366 Repair, 880-883,885-887,889 Personal services, 86 Domestic services

8. SOCIAL SERVICES

81,830,836 Education and research, museums and libraries, 82,015 Health, 831,832,834,835,837,839 Social welfare and religion

9. BUSINESS SERVICES

67-84 Finance, insurance, real estate and other business services

10. COMMUNICATIONS

72 Communications

11. OTHER

0 (except 015) Agriculture, 9 Not elsewhere classified

CLASSIFICATION OF OCCUPATIONS, SWEDEN 1980

The numbers of the occupational categories correspond to the numbers of the 1980 census.

1. MANAGERS AND PROPRIETORS

101 General government- administrative work, 111 Private executives, 118 Private office management, 119 Not Specified, 301 Wholesale trade (owners), 302 Retail trade (owners), 332 Shop managers.

2. PROFESSIONALS

011 Professionals - chemists, 012 Physicists, 013 Geologists, meteorologists, 021 Veterinarians, 022 Biologists, 023 Agricultural and horticultural scientists and related, occupations, 024 Forestry scientists, 029 Not specified, 031 Medical work - Physicians, 032 Dentists, 039 Not

specified, 046 Pharmacists, 050 Pedagogical work - School leaders, 051 Teachers, university and high school, 052 Teachers in theoretical subjects, 061 Religious work, clergymen, 071 Juridical work - courts, 072 Public prosecutors and higher police officials, 073 Lawyers, and related occupations, 074 Juridical commissioners (ombudsman), 078 Other juridical work, 079 Not specified, 081 Artists, 082 Designers, 084 Authors, 085 Journalists, editors, 086 Actors, dramatic artists, 087 Musicians, 088 Other literary and artistic work, 089 Not specified, 091 Other technical and social scientific work (accountants and auditors), 094 Economists, statisticians, 095 Psychologists, 096 Personnel men and related occupations, 097 Systems Analysts, Programmers, 621 Air pilots and related occupations

3. TECHNICIANS

001 Technicians - in construction, engineers incl. architects, 002 Electrical power and teletechnical work, 003 Mechanical technicians, 004 Chemical technicians, 005 Mining and metallurgical technicians, 006 Other technical work, 007 ?, 008 Laboratory technicians, 009 Technicians (not specified), 014 Laboratory assistants, 019 Technicians (chemistry, physics), 045 Medical-technical assistants, 098 Other social-scientific and technical work, 099 Not specified, 603 Engine officers, 602 Ship pilots, 609 Not specified, 744 Dental technicians, 765 Recording Technicians and related occupations.

(Note: 001-006,009: 20%=professionals)

4. SEMI- PROFESSIONALS

040 Nurses, 041 Midwives, 042 Nurses in psychiatric care, 047 Physical therapists and related occupations, 048 Health and hygiene inspectors, 049 Not specified, 053 Class teachers, 054 Teachers in practical subjects, 055 Professional teachers, 056 Pre-elementary school teachers, 057 Education consultants and related occupations, 058 Other pedagogical work, 059 Not specified, 068 Other religious work, 069 Not specified, 092 Social service workers, 093 Librarians, museum service work, 313 Publicity men and related occupations, 945 Sports coaches, trainers.

5. SKILLED SERVANT OCCUPATIONS

044 Dental assistants, 083 Decorators, 295 Building Caretakers, 601 Naval officers, 632 Railway conductors, 636 Bus- and streetcar conductors, 642 Air traffic officers, 901 Fire fighters, 902 Policemen, 903 Customs service personnel, 904 Prison guards and related occupations, 908 Other protective service work, 909 Not specified, 911 'Chefs', 912 Cooks, and related occupations, 916 Hotel receptionists, 917 Purser, stewardesses and related occupations, 941 Hairdressers, Beauticians and related occupations, 946 Photographers, 947 Undertakers.

6. UNSKILLED SERVANT OCCUPATIONS

043 Assistant nurses (23%=skilled servant), 338 Gas station attendants, demonstrators and related occupations, 339 Not specified, 633* Motorvehicle- and streetcar drivers, 634* Drivers, 635

Messenger (delivery men), 661 Mail carriers, 913 Kitchen assistants, 914 Nursemaids (not hospital), and others, 915 Home helpers, and others, 918 Other housekeeping work, 919 Not specified, 921 Butlers, waiters, 931 Janitors, building caretakers, 932 Charworkers, 933 Chimney sweeps, 939 Not specified, 942 Bath attendants, 943 Cleaners, 944 Laundry pressers, 948 Other service work, 949 Not specified.

7. CLERICAL OCCUPATIONS

201 Book-keepers, office cashiers, 203 Bank cashiers, 208 Collectors, and related occupations, 209 Not specified, 290 Secretaries, typists and related occupations, 291 Computer operators, 292 Bank clerks, 294 Dispatchers, forwarding agents, shipping agents, and related, occupations., 296 Insurance office clerks, 297 Health and insurance office clerks, 298 Special office clerks, 299 Not specified, 651 Post assistants, post office (counter) clerks, 652 Telecommunication assistants and related occupations, 653 Telephone operators, 654 Office telephonists, 655 Telegraph and radio operators, 659 Not specified, 662 Office messengers, and related occupations, 669 Not specified.

8. SALES OCCUPATIONS

204 Shop- and restaurant cashiers, 293 Travel agents, 309 Not specified, 311 Insurance agents, 312 Brokers, valuers and related occupations, 318 Auctioneer, valuer, 319 Not specified, 321 Commercial travellers, 331 Buyers and related occupations, 333 Shop assistants, 334 Travelling salesmen.

9. SKILLED MANUAL WORKERS, SUPERVISORS, FOREMEN

501 Miners, quarrymen, 631 Locomotive drivers, -assistants, 641 Harbour traffic officers, 643 Railway traffic officers, 644 Road traffic officers, 649 Not specified, 712 Furriers and related occupations, 713 Milliners, hatmakers, 714 Upholsterers and related occupations, 716 Confection dressmaker, 721 Shoemakers, 726 Saddlers, leather sewers, and related occupations, 735 Blacksmiths, 741 Precision mechanics, 742 Watchmakers, 743 Optical instrument makers, 745 Gold- silver smiths, 749 Not specified, 750 Factory mechanics and related occupations, 751 Machinery fitters and repairmen, 752 Machine motor repair, 753 Sheet metal workers, 754 Plumbers and pipe fitters, 761 Electrical fitters and related occupations, 764 Telecommunication fitters and repairmen, 766 Telephone installers and repair, 769 Not specified, 771 Carpenters, 772 Cabinet makers and related occupations, 781 Painters, and related occupations, 782 Laquerers, 789 Painters, laquerers not elsewhere classified, 791 Construction bricklayers, 792 Stonemasons and related occupations, 794 Insulators, 795 Glaziers, 799 Not specified, 801 Type-setters, compositors and related occupations, 806 Book-binders and related occupations, 808 Other graphic work, 809 Not specified, 811 Glass blowers, 812 Formers (ceramical prods), 813 Kilnmen glass and ceramics prod., 814 Glass and ceramics decorators, and related occupations, 818 Other glass and ceramics work, 819 Not specified, 822 Bakers, pastry cooks and related occupations, 823 Chocolate makers, confectioners, 824 Brewers and beverage makers, 826 Butchers and meat preparers, 850 Basket makers, 854 Photographic dark-room workers, 855 Musical instrument makers, 871 Power plant machine operators, and related occupations.

10. SEMI- AND UNSKILLED MANUAL WORKERS

502 Oilwell drillers, 503 Dressing plant workers, 504 Other mining and quarry work, 509 Not specified, 611 Deck and engine crew, 633* Motorvehicle- and streetcar drivers, 634* Drivers, 639* Not specified (same as 633,634), 671 Lighthouse guards, lock operators and related occupations, 678 Level crossing keepers, and related occupations, 699 Not specified transport work, and related occupations, 701 Textile work, 711 Textile workers, seamstresses, and related occupations, 715 Cutters, and related occupations, 718 Other sewing and needlework, 719 Not specified, 722 Shoe production workers, 729 Not specified, 731 Metal smelting- and furnacemen, 732 Metal temperers and related occupations, 733 Metal rolling mill workers, 736 Metal casters, 737 Metal drawers, 738 Other metal process work, 739 Not specified, 755 Welders and flame cutters, 756 Metal workers, 757 Metal platers andcoaters, 758 Other, 759 Not specified, 767 Linemen, 768 Other electrical work, 773 Plywood Makers and related occupations, 774 Sawyers, wood planers, and related occupations, 778 Other wood work, 779 Not specified, 793 Concreters, building workers, and related occupations, 797 Pipe Layers and related occupations, 798 Others, 821 Grainmillers, 825 Food preservers, 827 Dairy workers, 828 Other food and beverage processors, 829 Not specified, 831 Chemical processors, 834 Pulp- and paper processors, 836 Paper andpaperboard workers, 838 Other chemical and cellulose technical work, 839 Not specified, 841 Tobacco workers, 851 Rubber product workers, 852 Plastic product workers, 853 Tanners and leather preparers, 856 Stone cutters, 857 Paper product workers, 858 Other manufacturing work, 859 Not Specified, 861 Unskilled and various labour, 872 Crane and hoist operators, 873 Riggers, 874 Earth-moving and related machinery operators, 875 Truckdrivers and conveyor operators, 876 Oilers, 879 Not specified, 881 Packers and related occupations, 882 Dockers and related occupations, 883 Warehouse porters, storemen, and related occupations, 888 Removal men and others, 889 Not specified, 899 Other Manufacturing.

11. OTHER OCCUPATIONS

401 Working proprietors in agriculture, forestry and related occupations, 402 Agriculture - management, 403 Forestry - management, 404 Gardening - management, 405 Livestock breeding, 406 Fur animal breeding, 407 Reindeer owners, 409 Not specified, 411 Farm workers and related occupations, 412 Orchard and nursery workers, 413 Domestic animal keepers, 414 Fur animal keepers, 415 Reindeer keepers, 418 Other agricultural work, 419 Not specified, 421 Game keepers and hunters, 431 Fishermen, 432 Fish breeders, 441 Forestry and logging.

12. MILITARY AND NOT INCLUDED

981 Military work, 999 Not classified work.

COMMENTS

1. CLASS 2 PROFESSIONALS

001 (Technicians - in construction, engineers incl. architects)

In Sweden these 'technicians' are in reality professionals like engineers and architects.

2. CLASS 5 SKILLED SERVANT OCCUPATIONS

633 (Motorvehicle- and streetcar drivers)

Those not working in the 'consumer services' were classified as 'semi- and unskilled workers'.

3. CLASS 10 SEMI- AND UNSKILLED WORKERS

633* (Motorvehicle- and streetcar drivers)

See above

CLASSIFICATION OF INDUSTRIES, SWEDEN 1980

1. EXTRACTIVE

2 Mining

2. MANUFACTURING

31,34,35 Food, 32 Textile, 33,36,381,382 (except 3825),383,385,39 Wood, 37 Metal, 384 Transportation equipment, 3825 Office machines, 5 Construction.

3. DISTRIBUTIVE SERVICES

61 Wholesale.

4. UTILITIES AND TRANSPORT

71 Transport, 4 Electricity and gas

5. RETAIL

62 Retail

6. GOVERNMENT

91,96 Administration

7. CONSUMER AND PERSONAL SERVICES

92 (except 9204) Sanitary and similar services, 63 Hotels and restaurants, 941,949 Recreation, 951 Repair, 9204,9520,959 Personal services, 9530 Domestic services

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72 Communication

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