

## APPENDIX A

### RESPONSE CATEGORIES USED FOR MANY VARIABLES

(last revised 24 July 1996)

#### Codes for language

1. Afrikaans
2. English
3. Afrikaans and English equally
- Sotho language
4. Southern Sotho
5. Western Sotho (Tswana)
6. Northern Sotho (Pedi)
- Nguni language
7. Swazi
8. Ndebele
9. Xhosa
10. Zulu
11. Shangaan/Tsonga
12. Venda/Lemba
13. Fanagalo
14. Other sub-Saharan African language
- Asian Indian language
15. Gujarati
16. Hindi
17. Tamil
18. Telugu
19. Urdu
20. Other Asian Indian language
- Other European language (except Afrikaans or English)
21. Dutch
22. German
23. Greek
24. Italian
25. Portuguese
26. Other European language
27. Other language
- Non-responses
- 1. Don't know
- 2. Refused
- 3. Not applicable
- 4. Blank when response expected
- 5. Wild code

### Codes for highest level of education attained

- 0. None
- Primary
- 1. Sub. A/B; Grade ½
- 2. Standard 1
- 3. Standard 2
- 4. "Lower primary"/"Some primary"
- 5. Standard 3
- 6. Standard 4
- 7. Standard 5
- 8. Standard 6 elementary
- 9. "Higher primary"/"Completed primary"
- Secondary
- 10. Standard 6 secondary (Form 1)
- 11. Standard 7 (Form 2)
- 12. Standard 8 (Form 3)
- 13. "Some secondary"
- 14. Standard 9 (Form 4)
- 15. Standard 8 or 9 (Form 3 or 4) plus certificate
- 16. Standard 8 or 9 (Form 3 or 4) plus diploma
- 17. Standard 10 (Form 5) with school leaving pass (senior certif.)
- 18. Standard 10 (Form 5) with university pass (matric exemption)
- 19. "Completed secondary"
- Post-secondary
- 20. Post-secondary schooling, but no degree
- 21. Post-secondary schooling, with diploma
- 22. "Some post-secondary"
- 23. Post-secondary schooling, with degree
- 24. Post-graduate schooling beyond a degree
- Other
- 25. Vocational training course
- 26. Literacy course
- 27. Other
- Non-response
- 1. Don't know
- 2. Refused
- 3. Not applicable
- 4. Blank where response expected
- 5. Wild code

### Codes for main activity

- Agriculture
- 1. Selling produce from own farm or garden
- 2. Farming for domestic purposes (raising food for family)
- 3. Running own commercial farm
- 4. Working as a laborer on a farm for payment in kind only (right to stay on land, keep a garden, etc.)
- 5. Working as a laborer on a farm for pay plus payment in kind
- 6. Working as a laborer on a farm for pay only
- Formal economy, government (public sector)
- 7. Working for RSA national government
- 8. Working for TVBC national government
- 9. Working for provincial government
- 10. Working for homelands government
- 11. Working for local government
- 12. Working for foreign government

13. Working for government, jurisdiction unknown
14. Working for parastatal organization
15. In armed forces  
Formal economy, private sector
16. Working at a regular job for pay
17. Working for a private household
18. Helping out in a licensed family business
19. Running own business, licensed, with paid employees
20. Running own business, licensed, no paid employees  
Informal economy
21. Running own business, without license, paid employees
22. Running own business, without license, no paid employees
23. Unlicensed taxi driver, transport operator
24. Doing small scale repairs
25. Making items and selling them
26. Hawking, scavenging, touting on commission, etc.
27. Working at odd jobs  
Not economically active
28. Unemployed, looking for work
29. Going to school
30. Keeping house
31. Retired
32. Unable to work
33. Not working, not doing anything else
34. In prison  
Non-response
- 1. Don't know
- 2. Refused
- 3. Not applicable
- 4. Blank where response expected
- 5. Wild code

#### **Codes for type of place**

1. Town or city
2. Squatter settlement in town or city
3. Peri-urban area
4. Squatter settlement in peri-urban area
5. Mine
6. <White/Asian/Coloured> village in rural area
7. Traditional (subsistence agricultural) settlement in rural area
8. Commercial farm/White farm
9. Small holding (plot)
10. War prison camp/prison
11. At sea
- 1. Don't know/don't remember
- 2. Refused
- 3. Not applicable
- 4. Blank where response expected
- 5. Wild code

#### **Codes for country of birth**

1. Republic of South Africa <including TVBC States>  
Foreign countries - Sub-Saharan Africa
15. Angola
16. Botswana
17. Lesotho

- 18. Malawi
- 19. Mozambique
- 20. Namibia
- 21. Swaziland
- 22. Tanzania
- 23. Zambia
- 24. Zimbabwe
- 25. Other African
- Foreign countries - Europe
- 26. Greece
- 27. Italy
- 28. Netherlands
- 29. Portugal
- 30. United Kingdom (England, Wales, Scotland, and Ireland)
- 31. Other European
- Other foreign countries
- 32. Israel/ Palestine
- 33. Other
- No response
- 1. Don't know
- 2. Refused
- 3. Not applicable: line not used
- 4. Blank where response expected
- 5. Wild code

**Codes for month**

1. January
2. February
3. March
4. April
5. May
6. June
7. July
8. August
9. September
10. October
11. November
12. December
- 1. Don't remember
- 2. Refused
- 3. Not applicable
- 4. Blank where response expected
- 5. Wild code

## APPENDIX B

### OCCUPATION DATA

(last revised 17 July 2016 - DJT)

(Further minor update, July 2017 by Andrew Kerr, DataFirst, University of Cape Town)

#### Introduction

Respondents were asked to report the occupations of their parents, paternal grandfather, the sibling closest in age, their spouse, and their spouses' father, and to provide a complete occupational history for themselves. All responses to occupation questions were recorded as narrative descriptions (the job title and the principal duties). These narrative descriptions are included in a file different from the main dataset, "saocc.text.060799.raw". The codebook for this file is shown at the end of this Appendix. The narrative descriptions were coded directly into an enhanced version of the four digit classification of the 1988 edition of the *International Standard Classification of Occupations* (ILO, 1989), shown below. Also, a fifth digit was assigned, representing employment status. (This digit was assigned in anticipation of mapping the ISCO codes into the categories of the Erikson-Goldthorpe-Portocarero occupational class scheme [Erikson and Goldthorpe 1992:35-47]; but this has not been done.) The ISCO was enhanced for this project by the inclusion of a number of additional codes of two kinds: (1) occupations described in insufficient detail in the survey, e.g., "foreman", "skilled worker", etc., or classified ambiguously in the ISCO scheme; (2) occupations particularly important in South Africa. A memorandum specifying the enhancement is shown after the listing of ISCO codes that follows immediately. In this listing, categories that we added or modified, relative to what is in the ISCO manual, are shown with an initial \*.

Note that the respondent's current or most recent occupation was asked separately from the Activity History roster, at Q. 4.3. The specification was that "If the respondents is currently working ... , ask ... about the current job or economic activity. Otherwise ask these questions about the most recent job or economic activity. Instruction Booklet p. 13." The specification of current or most recent job or economic activity creates some ambiguity as to how line 2 of the Activity History was completed in the case of people who were not currently working at the time of the survey.

The ISCO codes were then assigned scores on Ganzeboom and Treiman's (1996) International Socioeconomic Status Scale [ISEI]. The ISEI ranges in principle from 0-100 (but in practice, from 16 to 90) and is fully described in the publication cited above. The mapping between the ISCO codes and the ISEI scores is shown in the listing below.

The variables for the ISCO codes and ISEI scores, and also variables identifying the line number in the file of narrative occupation descriptions, "saocc.text.060799.raw", are listed in Part 3 of the codebook for the main dataset. When these variables were created, the 5<sup>th</sup> digits—employment status—were removed and treated as separate variables.

**Enhanced *International Standard Classification of Occupations* (Revised Edition 1988), with corresponding ISEI codes**

ISCO	Occupation title	ISEI
1000	<b>Legislators, Senior Officials &amp; Managers</b>	55
1100	Legislators & Senior Officials	70
1110	Legislators	77
* 1111	Legislators	73
* 1112	Ministers	73
1120	Senior Government Officials	77
* 1123	Sr. Govt. Officials in Ministries & other Central Govt. Organizations	72
* 1125	Local Government Officials	72
1130	Traditional Chiefs & Heads of Villages	66
1140	Senior Officials of Special-Interest Organisations	58
* 1142	Senior Officials of Economic-Interest Organisations	58
* 1143	Senior Officials of Special-Interest Organisations	58
* 1200	Corporate Managers [Large Enterprise]	68
* 1210	Directors & Chief Executives [Large Enterprise]	70
* 1211	Directors and Chief Executives	70
* 1212	Deputy Directors, Chief Engineers and Chief Accountants	70
* 1220	Department Managers [Large Enterprise][Production-Operation]	67
1221	Department Managers Agric., Hunting, Forestry & Fishing	67
1222	Department Managers Manufacturing	67
1223	Department Managers Construction	67
1224	Department Managers Wholesale & Retail Trade	59
1225	Department Managers Restaurants & Hotels	59
1226	Department Managers Transport, Storage & Communications	59
1227	Department Managers Business Services	67
1228	Department Managers Personal Care, Cleaning etc	59
1229	Operations Department Managers nec	67
* 1230	Other Department Managers [Large Enterprise]	61
1231	Finance & Administration Department Managers	69
1232	Personnel & Industrial Relations Department Managers	69
1233	Sales & Marketing Department Managers	56
1234	Advertising & Public Relations Department Managers	69
1235	Supply & Distribution Department Managers	69
1236	Computing Services Department Managers	69
1237	Research & Development Department Managers	69
1239	Other Department Managers nec	69
* 1240	[Office Manager]	58
* 1250	[Military Officers]	64
* 1251	[High Military Officers]	70
* 1252	[Lower Military Officers]	60
* 1300	General Managers [Small Enterprise]	51
* 1310	General Managers [Small Enterprise]	51
1311	General Managers Agriculture, Hunting Forestry & Fishing	43
1312	General Managers Manufacturing	56
1313	General Managers Construction	51
1314	General Managers Wholesale & Retail Trade	49
1315	General Managers Restaurants & Hotels	44
1316	General Managers Transport, Storage & Communications	51
1317	General Managers Business Services	51
1318	General Managers Personal Care, Cleaning etc Services	51
1319	General Managers nec	51
* 1320	"Businessman"/"Trader"/"Entrepreneur", not further specified	51

2000	<b>[Professionals]</b>	70
2100	Physical, Mathematical & Engineering Science Professionals	69
2110	Physicists, Chemists & Related Professionals	74
2111	Physicists & Astronomers	74
2112	Meteorologists	74
2113	Chemists	74
2114	Geologists & Geophysicists	74
2120	Mathematicians, Statisticians etc Professionals	71
2121	Mathematicians etc Professionals	71
2122	Statisticians	71
2130	Computing Professionals	71
2131	Computer Systems Designers & Analysts	71
2132	Computer Programmers	71
2139	Computing Professionals nec	71
2140	Architects, Engineers etc Professionals	73
2141	Architects Town & Traffic Planners	69
2142	Civil Engineers	69
2143	Electrical Engineers	68
2144	Electronics & Telecommunications Engineers	68
2145	Mechanical Engineers	67
2146	Chemical Engineers	71
2147	Mining Engineers Metallurgists etc Professionals	67
2148	Cartographers & Surveyors	56
2149	Architects Engineers etc Professionals nec	69
2200	Life Science & Health Professionals	80
2210	Life Science Professionals	78
2211	Biologists, Botanists Zoologists etc Professionals	77
2212	Pharmacologists, Pathologists etc Professionals	77
2213	Agronomists etc Professionals	79
2220	Health Professionals (Except Nursing)	85
2221	Medical Doctors	88
2222	Dentists	85
2223	Veterinarians	83
2224	Pharmacists	74
2229	Health Professionals Except Nursing nec	85
2230	Nursing & Midwifery Professionals	43
2300	Teaching Professionals	69
2310	Higher Education Teaching Professionals	77
2320	Secondary Education Teaching Professionals	69
* 2321	[Secondary Teacher, Academic Track]	70
* 2322	[Secondary Teacher, Vocational Track]	66
2330	Primary & Pre-Primary Education Teaching Professionals	66
2331	Primary Education Teaching Professionals	66
2332	Pre-Primary Education Teaching Professionals	43
2340	Special Education Teaching Professionals	66
2350	Other Teaching Professionals	66
2351	Education Methods Specialists	70
2352	School Inspectors	70
2359	Other Teaching Professionals nec	65
2400	Other Professionals	68
2410	Business Professionals	69
2411	Accountants	69
2412	Personnel & Careers Professionals	69
2419	Business Professionals nec	69
2420	Legal Professionals	85
2421	Lawyers	85
2422	Judges	90
2429	Legal Professionals nec	82



2430	Archivists, Librarians etc Information Professionals	65
2431	Archivists & Curators	65
2432	Librarians etc Information Professionals	65
2440	Social Science etc Professionals	65
2441	Economists	78
2442	Sociologists Anthropologists etc Professionals	71
2443	Philosophers, Historians & Political Scientists	71
2444	Philologists Translators & Interpreters	65
2445	Psychologists	71
2446	Social Work Professionals	51
2450	Writers & Creative or Performing Artists	61
2451	Authors Journalists & Other Writers	65
2452	Sculptors, Painters etc Artists	54
2453	Composers Musicians & Singers	64
2454	Choreographers & Dancers	64
2455	Film, Stage etc Actors & Directors	64
2460	Religious Professionals	53
3000	<b>Technicians and Associated Professionals</b>	54
3100	Physical & Engineering Science Associate Professionals	50
3110	Physical & Engineering Science Technicians	49
3111	Chemical & Physical Science Technicians	45
3112	Civil Engineering Technicians	45
3113	Electrical Engineering Technicians	46
3114	Electronics & Telecommunications Engineering Technicians	46
3115	Mechanical Engineering Technicians	54
3116	Chemical Engineering Technicians	54
3117	Mining & Metallurgical Technicians	54
3118	Draughtspersons	51
3119	Physical & Engineering Science Technicians nec	53
3120	Computer Associate Professionals	52
3121	Computer Assistants	52
3122	Computer Equipment Operators	52
3123	Industrial Robot Controllers	52
3130	Optical & Electronic Equipment Operators	52
3131	Photographers & Elctr Equipment Operators	48
3132	Broadcasting & Telecommunications Equipment Operators	57
3133	Medical Equipment Operators	57
3139	Optical & Electronic Equipment Operators nec	52
3140	Ship & Aircraft Controllers & Technicians	57
3141	Ships Engineers	52
3142	Ships Deck Officers & Pilots	52
3143	Aircraft Pilots etc Associate Professionals	69
3144	Air Traffic Controllers	69
3145	Air Traffic Safety Technicians	50
3150	Safety & Quality Inspectors	50
3151	Building & Fire Inspectors	50
3152	Safety, Health & Quality Inspectors	50
3200	Life Science & Health Associate Professionals	48
3210	Life Science Technicians etc Associate Professionals	50
3211	Life Science Technicians	50
3212	Agronomy & Forestry Technicians	50
3213	Farming & Forestry Advisers	50
3220	Modern Health Associate Professionals Except Nursing	55
3221	Medical Assistants	51
3222	Sanitarians	51
3223	Dieticians & Nutritionists	51
3224	Optometrists & Opticians	60

3225	Dental Assistants	51
3226	Physiotherapists etc Associate Professionals	60
3227	Veterinary Assistants	51
3228	Pharmaceutical Assistants	51
3229	Modern Health Associate Professionals Except Nursing nec	51
3230	Nursing & Midwifery Associate Professionals	38
3231	Nursing Associate Professionals	38
3232	Midwifery Associate Professionals	38
3240	Traditional Medicine Practitioners & Faith Healers	49
3241	Traditional Medicine Practitioners	51
3242	Faith Healers	38
3300	Teaching Associate Professionals	38
3310	Primary Education Teaching Associate Professionals	38
3320	Pre-Primary Education Teaching Associate Professionals	38
3330	Special Education Teaching Associate Professionals	38
3340	Other Teaching Associate Professionals	38
3400	Other Associate Professionals	55
3410	Finance & Sales Associate Professionals	55
3411	Securities & Finance Dealers & Brokers	61
3412	Insurance Representatives	54
* 3413	Estate Agents	59
3414	Travel Consultants & Organisers	56
3415	Technical & Commercial Sales Representatives	56
3416	Buyers	50
3417	Appraisers, Valuers & Auctioneers	56
3419	Finance & Sales Associate Professionals nec	55
3420	Business Services Agents and Trade Brokers	55
3421	Trade Brokers	55
3422	Clearing & Forwarding Agents	55
3423	Employment Agents & Labour Contractors	55
3429	Business Services Agents & Trade Brokers nec	55
3430	Administrative Associate Professionals	54
3431	Administrative Secretaries etc Associate Professionals	54
3432	Legal etc Business Associate Professionals	59
3433	Bookkeepers	51
3434	Statistical, Mathematical etc Associate Professionals	61
3439	Administrative Associate Professionals nec	54
3440	Customs, Tax etc Government Associate Professionals	56
3441	Customs & Border Inspectors	56
3442	Government Tax & Excise Officials	57
3443	Government Social Benefits Officials	56
3444	Government Licensing Officials	46
3449	Customs Tax etc Government Associate Professionals nec	56
3450	Police [And Army]	56
3451	[Police Inspectors-Detectives]	55
* 3452	[Armed Forces Low Officers]	56
3460	Social Work Associate Professionals	43
3470	Artistic, Entertainment & Sports Associate Professionals	52
3471	Decorators & Commercial Designers	53
3472	Radio, Television & Other Announcers	64
3473	Street Night-Club etc Musicians Singers & Dancers	50
3474	Clowns Magicians Acrobats etc Associate Professionals	50
3475	Athletes Sportspersons etc Associate Professionals	54
3480	Religious Associate Professionals	38
* 3491	Interviewers	43
4000	<b>Clerks</b>	45

4100	Office Clerks	45
4110	Secretaries & Keyboard-Operating Clerks	51
4111	Stenographers & Typists	51
4112	Word-Processor etc Operators	50
4113	Data Entry Operators	50
4114	Calculating-Machine Operators	51
4115	Secretaries	53
4120	Numerical Clerks	51
4121	Accounting & Bookkeeping Clerks	51
4122	Statistical & Finance Clerks	51
4130	Material-Recording & Transport Clerks	36
4131	Stock Clerks	32
4132	Production Clerks	33
4133	Transport Clerks	45
4140	Library, Mail etc Clerks	39
4141	Library & Filing Clerks	39
4142	Mail Carriers & Sorting Clerks	39
4143	Coding Proof-Reading etc Clerks	39
4144	Scribes etc Workers	39
4190	Other Office Clerks	39
4200	Customer Services Clerks	49
4210	Cashiers, Tellers etc Clerks	48
4211	Cashiers & Ticket Clerks	53
4212	Tellers & Other Counter Clerks	46
4213	Bookmakers & Croupiers	40
4214	Pawnbrokers & Money-Lenders	40
4215	Debt-Collectors etc Workers	40
4220	Client Information Clerics	52
4221	Travel Agency etc Clerks	52
4222	Receptionists & Information Clerks	52
4223	Telephone Switchboard Operators	52
5000	<b>Service Workers &amp; Shop &amp; Market Sales Workers</b>	40
5100	Personal & Protective Services Workers	38
5110	Travel Attendants etc	34
5111	Travel Attendants & Travel Stewards	34
5112	Transport Conductors	34
5113	Travel, Museum Guides	34
5120	Housekeeping & Restaurant Services Workers	32
5121	Housekeepers etc Workers	30
5122	Cooks	30
5123	Waiters Waitresses & Bartenders	34
5130	Personal Care etc Work	25
5131	Child-Care Workers	25
5132	Institution-Based Personal Care Workers	25
5133	Home Based Personal Care Workers	25
5139	Personal Care etc Workers nec	25
5140	Other Personal Services Workers	30
5141	Hairdressers Barbers Beauticians etc Workers	29
5142	Companions & Valets	19
5143	Undertakers & Embalmers	54
5149	Other Personal Services Workers nec	19
5150	Astrologers, Fortune-Tellers etc Workers	43
5151	Astrologers etc Workers	43
5152	Fortune-Tellers, Palmists etc Workers	43
5160	Protective Services Workers	47
5161	Fire-Fighters	42
5162	Police Officers	50

5163	Prison Guards	40
* 5164	[Soldiers Low]	40
5169	Protective Services Workers nec	40
5200	Models, Salespersons & Demonstrators	43
5210	Fashion & Other Models	43
5220	Shop Salespersons & Demonstrators	43
* 5221	Petrol pump attendant	37
5230	Stall & Market Salespersons	37
6000	<b>Skilled Agricultural &amp; Fishery Workers</b>	23
* 6100	Market-Oriented Skilled Agricultural & Fishery Workers	23
6110	Market Gardeners & Cropgrowers	23
6111	Field Crop & Vegetable Growers	23
6112	Tree & Shrub Crop Growers	23
6113	Gardeners, Horticultural & Nursery Growers	23
6114	Mixed-Crop Growers	23
6120	Market-Oriented Animal Producers etc Workers	23
6121	Dairy & Livestock Producers	23
6122	Poultry Producers	23
6123	Apiarists & Sericulturists	23
6124	Mixed -Animal Producers	23
6129	Market-Oriented Animal Producers etc Workers nec	23
6130	Market-Oriented Crop & Animal Producers	23
6131	[Mixed Farmers]	23
6132	[Farm Foremen/Supervisors]	27
6133	["Farmer, Not Further Specified]	28
6140	Forestry etc Workers	22
6141	Forestry Workers & Loggers	22
6142	Charcoal Burners etc Workers	22
6150	Fishery Workers, Hunters & Trappers	28
6151	Aquatic-Life Cultivation Workers	28
6152	Inland & Coastal Waters Fishery Workers	28
6153	Deep-Sea Fishery Workers	28
6154	Hunters & Trappers	28
* 6160	"Farmer," not further specified	30
6200	Subsistence Agricultural & Fishery Workers	16
6210	Subsistence Agricultural & Fishery Worker	16
7000	<b>Craft etc Trades Workers</b>	34
7100	Extraction & Building Trades Workers	31
7110	Miners, Shotfirers, Stone Cutters & Carvers	50
7111	Miners & Quarry Workers	30
7112	Shotfirers & Blasters	30
7113	Stone Splitters Cutters & Carvers	27
7120	Building Frame etc Trades Workers	30
7121	Builders Traditional Materials	29
7122	Bricklayers & Stonemasons	29
7123	Concrete Placers Concrete Finishers etc Workers	26
7124	Carpenters & Joiners	29
7129	Building Frame etc Trades Workers nec	30
7130	Building Finishers etc Trades Workers	34
7131	Roofers	19
7132	Floor Layers & Tile Setters	30
7133	Plasterers	31
7134	Insulation Workers	34
7135	Glaziers	26
7136	Plumbers & Pipe Fitters	33
7137	Building etc Electricians	37

7140	Painters, Building Structure Cleaners etc Traders Workers	29
7141	Painters etc Workers	29
7142	Varnishers etc Painters	32
7143	Building Structure Cleaners	29
7200	Metal, Machinery etc Trades Workers	34
7210	Metal Moulders, Welders, Sheetmetal Workers Structural Metal	31
7211	Metal Moulders & Coremakers	29
7212	Welders & Flamecutters	30
7213	Sheet-Metal Workers	33
7214	Structural-Metal Preparers & Erectors	30
7215	Riggers & Cable Splicers	30
7216	Underwater Workers	30
7220	Blacksmiths, Tool-Makers etc Trades Workers	35
7221	Blacksmiths Hammer-Smiths & Forgingpress Workers	33
7222	Tool-Makers etc Workers	40
7223	Machine-Tool Setters & Setter-Operators	34
7224	Metal Wheel-Grinders Polishers & Tool Sharpeners	24
7230	Machinery Mechanics & Fitters	34
7231	Motor Vehicle Mechanics & Fitters	34
7232	Aircraft Engine Mechanics & Fitters	42
* 7233	Agricultural- or Industrial-Machinery Mechanics & Fitters	33
* 7234	Oilers and Greasers	23
7240	Electrical & Electronic Equipment Mechanics & Fitters	40
7241	Electrical Mechanics & Fitters	40
7242	Electronics Fitters	39
7243	Electronics Mechanics & Servicers	41
7244	Telegraph & Telephone Installers & Servicers	40
7245	Electrical Line Installers Repairers & Cable Joiners	38
7300	Precision, Handicraft, Printing etc Trades Workers	34
7310	Precision Workers in Metal etc Materials	38
7311	Precision-Instrument Makers & Repairers	38
7312	Musical-Instrument Makers & Tuners	38
7313	Jewellery & Precious-Metal Workers	38
7320	Potters, Glass-Makers etc Trades Workers	28
7321	Abrasive Wheel Formers Poners etc Workers	27
7322	Glass-Makers Cutters Grinders & Finishers	29
7323	Glass Engravers & etchers	29
7324	Glass Ceramics etc Decorative Painters	29
7330	Handicraft Workers in Wood, Textile, Leather etc	29
7331	Handicraft Workers in Wood etc Materials	29
7332	Handicraft Workers in Textile Leather etc Materials	29
7340	Printing etc Trades Workers	40
7341	Compositors Typesetters etc Workers	40
7342	Stereotypers & Electrotypes	40
7343	Printing Engravers & etchers	42
7344	Photographic etc Workers	40
7345	Bookbinders etc Workers	37
7346	Silk-Screen, Block & Textile Printers	38
7400	Other Craft etc Trades Workers	33
7410	Food Processing etc Trades Workers	30
7411	Butchers Fishmongers etc Food Preparers	30
7412	Bakers Pastry-Cooks & Confectionery Makers	31
7413	Dairy-Products Makers	30
7414	Fruit, Vegetable etc Preservers	30
7415	Food & Beverage Tasters & Graders	30
7416	Tobacco Preparers & Tobacco Products Makers	30
7420	Wood Treaters, Cabinet-Makers etc Trades Workers	33
7421	Wood Treaters	33

7422	Cabinet-Makers etc Workers	33
7423	Woodworking-Machine Setters & Setter-operators	33
7424	Basketry Weavers Brush Makers etc Workers	33
7430	Textile, Garment etc Trades Workers	36
7431	Fibre Preparers	29
7432	Weavers Knitters etc Workers	29
7433	Tailors Dressmakers & Hatters	45
7434	Furriers etc Workers	36
7435	Textile Leather etc Pattern-Makers & Cutters	36
7436	Sewers Embroiderers etc Workers	33
7437	Upholsterers etc Workers	28
7440	Pelt, Leather & Shoemaking Trades Workers	31
7441	Pelt Dressers Tanners & Fellmongers	31
7442	Shoe-Makers etc Workers	31
* 7500	[Generic Skilled Manual Worker]	42
* 7510	[Non Farm Foremen nfs]	42
* 7511	Foreman, mine [include "boss boy, mine"]	42
* 7520	[Skilled Manual]	38
* 7530	[Apprentice]	26
8000	<b>Plant &amp; Machine Operators &amp; Assemblers</b>	31
8100	Stationary-Plant etc Operators	30
8110	Mining- & Mineral-Processing Plant Operators	35
8111	Mining-Plant Operators	35
8112	Mineral-Ore- & Stone-Processing-Plant Operators	35
8113	Well Drillers & Borers etc Workers	35
8120	Metal-Processing-Plant Operators	30
8121	Ore & Metal Furnace Operators	31
8122	Metal Melters Casters & Rolling-Mill Operators	30
8123	Metal-Heat-Treating-Plant Operators	28
8124	Metal Drawers & Extruders	30
8130	Glass, Ceramics etc Plant Operators	22
8131	Glass & Ceramics Kiln etc Machine Operators	22
8139	Glass, Ceramics etc Plant Operators nec	22
8140	Wood-Processing- & Papermaking-Plant Operators	27
8141	Wood-Processing-Plant Operators	27
8142	Paper-Pulp Plant Operators	27
8143	Papermaking-Plant Operators	27
8150	Chemical-Processing-Plant Operators	35
8151	Crushing- Grinding- & Chemical-Mixing Mach. Oprs.	35
8152	Chemical-Heat-Treating-Plant Operators	35
8153	Chemical-Filtering- & Separating-Equipment Operators	35
8154	Chemical-Still & Reactor Operators	35
8155	Petroleum- & Natural-Gas-Refining-Plant Operators	35
8159	Chemical-Processing-Plant Operators nec	35
8160	Power-Production etc Plant Operators	32
8161	Power-Production Plant Operators	33
8162	Steam-Engine & Boiler Operators	27
8163	Incinerator Water-Treatment etc Plant Operators	33
8170	Automated-Assembly-Line & Industrial-Robot Operators	26
8171	Automated-Assembly- Line Operators	26
8172	Industrial-Robot Operators	26
8200	Machine Operators & Assemblers	32
8210	Metal- & Mineral-Products Machine Operators	36
8211	Machine-Tool Operators	36
8212	Cement & Other Mineral Products Machine Operators	30
8220	Chemical-Products Machine Operators	30
8221	Pharmaceutical- & Toiletry-Products Machine Operators	30

8222	Ammunition- & Explosive-Products Machine Operators	30
8223	Metal Finishing- Plating- & Coating-Machine Operators	30
8224	Photographic-Products Machine Operators	30
8229	Chemical-Products Machine Operators nec	30
8230	Rubber- & Plastic-Products Machine Operators	30
8231	Rubber-Products Machine Operators	30
8232	Plastic-Products Machine Operators	30
8240	Wood-Products Machine Operators	29
8250	Printing-, Binding- & Paper-Products Machine Operators	38
8251	Printing-Machine Operators	38
8252	Bookbinding-Machine Operators	38
8253	Paper-Products Machine Operators	38
8260	Textile-, Fur- & Leather-Products Machine Operators	30
8261	Fibre-Preparing-, Spinning- & Winding-machine Oprs.	29
8262	Weaving- & Knitting-Machine Operators	29
8263	Sewing-Machine Operators	32
8264	Bleaching- Dyeing- & Cleaning-Machine Operators	24
8265	Fur- & Leather-Preparing-Machine Operators	32
8266	Shoemaking- etc Machine Operators	32
8269	Textile- Fur- & Leather-Products Machine Operators nec	32
8270	Food etc Products Machine Operators	29
8271	Meat- & Fish-Processing-Machine Operators	29
8272	Dairy-Products Machine Operators	29
8273	Grain- & Spice-milling-Machine Operators	29
8274	Baked-Goods Cereal & Chocolate-Products Machine Operators	29
8275	Fruit- Vegetable- & Nut-Processing-Machine Operators	29
8276	Sugar Production Machine Operators	29
8277	Tea- Coffee- & Cocoa-Processing-Machine Operators	29
8278	Brewers- Wine & Other Beverage Machine Operators	29
8279	Tobacco Production Machine Operators	29
8280	Assemblers	31
8281	Mechanical-Machinery Assemblers	30
8282	Electrical-Equipment Assemblers	34
8283	Electronic-Equipment Assemblers	34
8284	Metal- Rubber- & Plastic-Products Assemblers	30
8285	Wood etc Products Assemblers	30
8286	Paperboard Textile etc Products Assemblers	30
8290	Other Machine Operators & Assemblers	26
8300	Drivers & Mobile-Plant Operators	32
8310	Locomotive-Engine Drivers etc Workers	36
8311	Locomotive-Engine Drivers	41
8312	Railway Brakers Signalers & Shunters	32
8320	Motor-Vehicle Drivers	34
8321	Motor-Cycle Drivers	30
8322	Car Taxi & Van Drivers	30
8323	Bus & Tram Drivers	30
8324	Heavy Truck & Lorry Drivers	34
8330	Agricultural & Other Mobile-plant Operators	26
8331	Motorised Farm & Forestry Plant Operators	26
8332	Earth-Moving- etc Plant Operators	26
8333	Crane Hoist etc Plant Operators	28
8334	Lifting-Truck Operators	28
8340	Ships Deck Crews etc Workers	32
* 8400	[Semi-skilled Worker]	24
* 8500	[Factory worker]	24

9000	<b>Elementary Occupations</b>	20
9100	Sales & Services Elementary Occupations	25
9110	Street Vendors etc Workers	29
9111	Street Food Vendors	29
9112	Street Vendors Non-Food Products	28
9113	Door-To-Door & Telephone Salespersons	29
9120	Street Services Elementary Occupations	28
9130	Domestic etc Helpers Cleaners & Launderers	16
9131	Domestic Helpers & Cleaners	16
9132	Helpers & Cleaners in Establishments	16
9133	Hand-Launderers & Pressers	16
9140	Building Caretakers, Window etc Cleaners	23
9141	Building Caretakers	23
9142	Vehicle, Window etc Cleaners	23
9150	Messengers, Porters, Doorkeepers etc Workers	27
9151	Messengers Package & Luggage Porters & Deliverers	25
9152	Doorkeepers Watchpersons etc Workers	27
9153	Vending-Machine Money Collectors Meter Readers etc Workers	27
9160	Garbage Collectors etc Labourers	23
9161	Garbage Collectors	23
9162	Sweepers etc Labourers	23
* 9163	Odd jobs workers (informal economy)	23
9200	Agricultural, Fishery etc Labourers	16
9210	Agricultural, Fishery etc Labourers	16
9211	Farm-Hands & Labourers	16
9212	Forestry Labourers	16
9213	Fishery Hunting & Trapping Labourers	16
* 9214	"Garden boy"	16
9300	Labourers in Mining, Construction, Manufacturing & Transport	23
9310	Mining & Construction Labourers	21
9311	Mining & Quarrying Labourers	21
9312	Construction & Maintenance Labourers: Roads Dams etc	21
9313	Building Construction Labourers	21
9320	Manufacturing Labourers	20
9321	Assembling Labourers	20
9322	Hand Packers & Other Manufacturing Labourers	24
9330	Transport Labourers & Freight Handlers	29
9331	Hand or Pedal Vehicle Drivers	22
9332	Drivers of Animal-Drawn Vehicles & Machinery	22
9333	Freight Handlers	30
* 9334	Laborer - Railway	21

## Modifications of standard ISCO-88

General convention. Trailing zeros are added to all ISCO codes. For example, "131 General Managers" becomes "1310 General Managers". This makes it possible to use the higher level codes in cases where there is not sufficient information to use the four digit codes. For example, "General Manager" not further specified is coded 1310, whereas a general manager in an industry not included in 1311 through 1318 is coded 1319. This convention makes it necessary to change four digit codes ending in zero to end in one in cases where we have added codes under the same minor (three digit) group.

Apprentices. ISCO-88 says that apprentices are coded according to their actual duties rather than as the skilled occupation they will become. This is impossible in most cases, given the limited descriptions. Therefore, unless there is a specific category for "apprentice" or



"student" positions in the ISCO (and there may not be any in 1988), apprentice is given the skilled worker code, as in ISCO-68.

Assistants. Assistants are coded as the main occupation, except when it is clear that they work at a lower level than journeymen. This is done for two reasons. First, we understand that in South African occupational nomenclature, "assistants" are everybody except the "head", as in "shop assistant". Second, Blacks often were called "assistants" even when they did skilled labor. It would be useful for some analyst to check whether this understanding is correct, by comparing "assistants" with comparable titles lacking the suffix. The danger, of course, is that this coding decision overstates the occupational skill of Black workers and hence understates income returns to occupation.

#### Other coding decisions

ISCO-88 does not do a good job of distinguishing between managers of large and small enterprises. Thus, we have modified some of the managerial titles to specify the size of the enterprise being managed.

"Factory worker," not further specified, is coded with an added code, 8500, "Factory worker".

Foremen, not further specified, are coded 7510 "Foreman." Farm foremen and supervisors are coded 6100.

"Garden boy," is coded with an added category, 9214 "Garden boy", under "Agricultural ... and related labourers".

Interviewers. A new category was created, 3491.

Military: titles added

1250 Military officer

1251 High military officer (captain and above)

1252 Lower grade commissioned officer (lieutenant, etc.)

3452 Non-commissioned officer [change 3450, "police inspector," to 3451]

5164 Ordinary soldier

Odd jobs: Those doing odd jobs are coded 9163. ISCO-88 says to put them in 9162, "Sweepers and related laborers"; but they are informal economy positions while sweepers are formal economy positions. So it seemed better to separate the two.

Supervisors. ISCO-88 puts supervisors whose main responsibility is to control the quality of the work done (e.g., foremen) with those they supervise. If substantial planning is involved, ISCO-88 says to code as a manager. We have done this but suggest that analysts consider creating a separate foreman category.

Teachers, not further specified, are coded 2331, "Primary teachers".

Tire repairers in garages are coded 7234, "Oiler, greaser, semi-skilled garage worker".

The distinction between security guards (5169) and watchmen (9152) is a bit obscure, since the descriptions overlap. Decision: all those with the title "security guard" or "security" are coded 5169, regardless of whether "watchman" is specified for duties.

### **Codebook for “saocc.text.060799.raw”**

The structure of this file is:

#### **Variable**

- 1 Line number\_\_\_. A field of width 7: 5 digits followed by \_\_\_. The 5 digits correspond to the line numbers in “sa\_final.dta” shown in variables aoln1-aoln16, which provides an unambiguous link between the two files. [\*\*The line number variables in the data set sa\_final.dta have been renamed so that the current occupation is aoln1 and previous occupations are aoln2-aoln16.]
- 2 ISCO code [4 digits] and employment status [1 digit]. Note that the ISCO and employment status codes are separated in “sa\_final.dta” (see Part III).
- 3 \_\_Respondent ID. [Two underscores followed by the respondent ID number.] The WAC and Black samples each have four digits. The rural sample has five digits, with an initial 3 designating it as the rural sample.
- 4 \_\_ occupation variable being coded (alphanumeric code):  
For the "WAC" samples, these are:  
RO - Respondent’s current occupation  
AO1 - RAO15 - Respondent’s activity roster occupation, lines 2-16. [\*\*It is very important to note that this labelling structure is different from the labelling of the data set, where the current occupation has been renumbered aocc1 and occupations on lines 2-16 have been renamed aocc2-aocc16. Thus, for example, RA014 in the text file will correspond to aocc15 in sa\_final.dta.\*\*]  
FO - Fathers occupation  
MO - Mothers occupation  
GFO - Paternal grandfathers occupation  
SPO - Spouses occupation  
SPFO - Spouses fathers occupation  
SBO - Sibling occupation  
For the "black" sample, these are preceded with a BL (e.g. BLRO, BLFO) and for the rural sample they are preceded with an R (e.g. RRO, RFO).
- 5 \_\_occupation title [These are verbatim accounts except that leading articles are omitted and sometimes a keyword is added as the initial word, followed by a colon]
- 6 \_\_description of main duties
- 7 \_\_type of firm or organization

Note that the width of fields 4-6 depends on the specific alter and the specific occupation being recorded. Apparently MarkData truncated the width of fields in its coding sheets. This was doubly unfortunate since apparently interviewers were not well trained regarding how to record verbatim responses and the interview schedules were not edited, with the result that sometime extraneous phrases, e.g. “My grandfather was a...” were included and the crucial material was truncated.

#### Notes on the second field

Four digit modified ISCO-88 codes were assigned; see above for the modifications.  
Note that lines in the file are listed in the order of the ISCO+employment status code.

Missing value codes:

- 1. Unemployed
- 2. Not in labor force [expand to distinguish students, retired—see below]
- 3. Don't know anything at all
- 4. Not applicable (died)
- 5. Doesn't know occupation but lists employer
- 6. Refused
- 7. Student
- 8. Retired

The fifth digit is employment status

- 0. Employee
- 1. Self-employed
- 2. Not working (unemployed, not in labor force, etc.)
- 3. Supervisor/foreman. ISCO codes foremen and supervisors with those they supervise. However, in the South African case it is useful to make the distinction, to show that Whites are mostly in supervisory positions and Blacks are not. Where no occupation is specified, the code 7510 is used for foreman/supervisor.
- 9. Where the occupation code is -3 we have coded the 5<sup>th</sup> digit as 9.

When a person is employed but information is insufficient to determine whether s/he is self-employed, 0 is coded.

Note that there is an inconsistency in the assignment of missing values. In lines 1-17335 there is a missing value for the ISCO code (digits 1-4) and a code for employment status (the 5<sup>th</sup> digit) while in lines 17336-24438 there is no code for the 5<sup>th</sup> digit.

Lines 24439-24504 have verbatim descriptions that could not be coded by the students doing the coding, either because they were incomplete or undecipherable (shown with codes zzzz) or because they were in Afrikaans and were missed when Afrikaans codes were translated into English (xxxx). Usually, but not always, these codes are missing the 5<sup>th</sup> digit.

## APPENDIX C

### GEOGRAPHICAL PLACE CODES

#### **Magisterial District codes [mdist]**

Magisterial Districts are units roughly equivalent to U.S. Counties. At the time of the survey the South African census designated 313 Magisterial Districts, except that there were no Magisterial Districts for the Homelands and also, since at the time they were not regarded as part of South Africa, for the TVBC States. MarkData assigned codes to smaller units within the TVBC States (codes 401-468) and apparently to the Homelands as well (codes 500-951) although the Homeland codes were not identified by name in any of the documentation available at the time this codebook was prepared. The evidence that codes 500-951 were used to identify Homelands is that a crosstabulation of “mdist” by “area” (the variable identifying the racial designation of geographic units by the South African government under the Group Areas Act) reveals that mdist codes 500-951 were used only in Black areas. In addition, codes 314-321 were used but are not identified in the available documentation. These apparently are part of “White South Africa” given that these codes were used only in White areas.

**Codes in Alphabetical Order (includes TVBC States, listed separately)**

- See the PDF ‘Magisterial Districts Alphabetical Order’

**Codes in Numerical Order (excludes TVBC States)**

- See the PDF ‘Magisterial Districts Numerical Order’

#### **Enumerator area codes [ea]**

These are codes for small areas within Magisterial Districts, used by the South African Census (and Mark Data) to select geographic units to survey. Enumerator areas generally have only numbers and not names. The codes (which range from 0001 to 9453, with the exception of the special codes below) are unique only within Magisterial Districts and, within Magisterial Districts, within cities/towns and rural areas. Mark Data used special codes to identify non-probability subpopulations that were included in the survey and also areas in the TVBC States that were part of the probability sample but for which no ea number was available:

1111	Farms
5555	Township and mine hostels
7777	Areas in TBVC States for which no EA number was available
8888	Black elite
9999	Squatters

## Planning region codes [region]

Each National Development Region [see the variable “ndreg”] was divided into a number of Planning Regions for official purposes, of which there were 44 within South Africa at the time of the survey, excluding the homelands and the TBVC States. MarkData assigned codes 45-54 to the Homelands and TVBC States. The codes for the Homelands and TVBC States follow the 44 codes for the Development Regions.

**For a key matching Planning Regions 1 to 44 to Statistical Regions, National Development Regions and Census Districts see the PDF ‘Key for Planning Regions’**

45	KwaNdebele
46	Qwa-Qwa
47	KaNdwane
48	Gazankulu
49	Labowa
50	Transkei
51	Ciskei
52	Venda
53	Bophuthatswana
54	KwaZulu

## City/town codes [city01 - city16]

Codes for town or city (for rural area or commercial farm, the nearest town is recorded) [Range: 1-5936, 7498.] City/town codes were assigned to all areas, including the Homelands and TVBC States.

**Codes in Alphabetical Order (includes TVBC States)**  
- See the PDF ‘Towns Alphabetical List’

## Suburb/township codes [suburb01 - suburb16]

[See Appendix C, “Codes for suburbs/townships.”] [Range: 1-5936, 6551, 9801, 9932.] Note that residence was recorded in reverse order, starting with the current residence and working back to the suburb or township of birth. Note that about 10% of codes are missing but the instructions (p. 24 of the English/South Sotho/Zulu questionnaire) refer to the possibility that there is no suburb/township code.

**Codes in Alphabetical Order (includes TVBC States)**  
- See the PDF ‘Suburbs Alphabetical List’

**Codes in Numerical Order (includes TVBC States)**  
- See the PDF ‘Suburbs Numerical List’

**APPENDIX D**  
**QUESTIONNAIRES**

**English/Sotho/Zulu**

- See the PDF 'Sotho, Zulu and English questionnaire

## APPENDIX E

### **-DO- AND -INC- FILES USED TO CREATE THE VARIABLES IN PART 3**

"data\_prep.do" This is a do file created by Donald Treiman in 2016 and checks the old (1999 and earlier?) datasets to find the most recent and complete one and to note differences between several different files because we were not sure which was the best one to work off to create the public release data.

There is no "data\_prep1.do" or "data\_prep2.do"

"data\_prep3.do" This do file was created by Donald Treiman in 2016 and does work cleaning and coding variables mostly to do with occupations.

"Creating optimal SSOA.do" This is from Donald Treiman and does a bunch of work and saves a version of the data called sa\_final\_2016.17.07.dta

"SSOA Roster.do". This is a do file from Gabriel Espi-Sanchis that takes sa\_final\_2016.17.07.dta and creates datafiles from it that are used by the next do file to create new weights.

"new\_wts\_hh\_analysis.do" This is created by Gabriel Espi-Sanchis and adds in the new weights to the sa\_final\_2016.17.07.dta dataset from Donald Treiman and then saves a dataset called sa\_final\_030816.dta

"small edits to data.do" This file was created by Andrew Kerr and does some minor edits to the data from Gabriel (sa\_final\_030816.dta), based on a to do list from a document written by Donald Treiman.

"cleaning verbatim occupation data v2.do" This file does the edits to the occupation dataset that was created from the stata file created in Stat transfer using the file saocc.txt.070799.raw

These files are all available to download from the SSEOA page on DataFirst.

## APPENDIX F

### OTHER DOCUMENTS

**Memorandum of agreement on sampling between MarkData and the principal investigators** (entitled Sampling description from MoU with HSRC)

**SSEOA Instructions to enumerators**

**SSEOA Sampling description and instructions**

**Fieldwork reports**

***Fieldwork Report - Project: Social Stratification*** provides information on the Black sample, the special samples, and the supplementary sample of males. It contains the weights MarkData applied to the data, a copy of the questionnaire used for the Black sample, and responses to open-ended questions in the Black sample. **[Unfortunately this document is not currently available but may be at some stage in the future].**

***Social Stratification: Rural Sample***- contains details on the rural sample, which was collected later than the other main samples.



## APPENDIX G

### BIBLIOGRAPHY OF PUBLICATIONS CITED IN THIS CODEBOOK

- Erikson, Robert, and John H. Goldthorpe. 1992. *The Constant Flux: A Study of Class Mobility in Industrial Societies*. Oxford: Clarendon.
- Ganzeboom, Harry B. G., and Donald J. Treiman. 1996. "Internationally Comparable Measures of Occupational Status for the 1988 International Standard Classification of Occupations." *Social Science Research* 25(No. 3, September). [In press.]
- Ganzeboom, Harry B. G., Ruud Luijkx, and Donald J. Treiman. 1989. "Intergenerational Class Mobility in Comparative Perspective." *Research in Social Stratification and Mobility* 8:3-84.
- Ganzeboom, Harry B. G., Paul M. De Graaf, and Donald J. Treiman. 1992. "A Standard International Socio-economic Index of Occupational Status," *Social Science Research* 21:1-56.
- Republic of Bophuthatswana, Department of Economic, Energy Affairs, Mines and Planning, Statistics Branch. 19xx. *1991 Population Census. Volume 1, Part 2: Tables of Citizenship, Population Group and Settlement Type: Age by Gender*. Mmabatho: Republic of Bophuthatswana, Department of Economic, Energy Affairs, Mines and Planning, Statistics Branch.
- Republic of Venda. Office of the Chairman of the Council for National Unity, Statistics Division. 1993. *Statistical Report No. 1 of 1993. Population Census, 1991*. xx. [ISBN 0-86959-314-5]
- Treiman, Donald J., 1977. *Occupational Prestige in Comparative Perspective*. New York: Academic Press.
- Treiman, Donald J., Matthew McKeever, and Eva Fodor. 1996. "Racial Differences in Occupational Status and Income in South Africa, 1980 and 1991." *Demography* 33:111-132.