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## **STATISTICAL RELEASE**

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# **General Household Survey, Selected development indicators, Metros 2025**

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**List of Abbreviations**

ASER	Age-specific Enrolment Ratio
CVs	Coefficient of Variations
DOA	Department of Agriculture
DUs	Dwelling Units
EAs	Enumeration Areas
GHS	General Household Survey
PSUs	Primary Sampling Units
RDP	Reconstruction and Development Programme
UN	United Nations
VIP	Pit Toilet with ventilation
WSA	Water Services Authorities
MAFA	Municipal Finance Management Act
MTREF	Medium Term Revenue and Expenditure Framework

## 1 Introduction and methodology

### 1.1 Background

The execution of the General Household Survey (GHS) in 2009 was preceded by extensive stakeholder consultation. The main objective of the consultation was to align the questionnaire and survey process with user needs and to adjust the questionnaire accordingly. The process yielded the following results:

- Specific linkages were established between the monitoring and evaluation indicators of each government department and the GHS questionnaire.
- It was found that in some instances the GHS was the only or main source of this information, but in other cases the various departments use the GHS information to verify their information from administrative records and/or other sources.
- Questions were modified and/or added where necessary.
- The users expressed a need for an earlier release of the indicator information to enable them to more effectively report on their activities.
- Several departments indicated that they did not have staff capable of analysing the GHS data and engaging consultants for this purpose was not always possible as a result of funding constraints.
- The initial reports only provided data at national and provincial level.

Metro level reporting became possible with the introduction of a new master sample for the GHS 2015 collection, and it was therefore decided to develop a new GHS release specifically aimed at reporting on the various development indicators as measured for metros. The first report was released in May 2016 as a discussion document. The current report is the ninth in the series and summarises the data for each metro and metros as a whole as measured by GHS 2025.

### 1.2 Methodology and fieldwork

A multi-stage design was used in this survey, which is based on a stratified design with probability proportional to size selection of primary sampling units (PSUs) at the first stage and sampling of dwelling units (DUs) with systematic sampling at the second stage. After allocating the sample to the provinces, the sample was further stratified by geography (primary stratification), and by population attributes using Census 2011 data (secondary stratification). Survey officers employed and trained by Stats SA visited all the sampled dwelling units in each of the nine provinces. During the first phase of the survey, sampled dwelling units were visited and informed about the coming survey as part of the publicity campaign. The actual interviews took place four weeks later. A total of 20 095 households (including multiple households) were successfully interviewed during face-to-face interviews.

Approximately two hundred and thirty-three enumerators (233) and 62 provincial and district coordinators participated in the survey across all nine provinces. An additional 27 quality assurors were responsible for monitoring and ensuring questionnaire quality. National refresher training took place over a period of two days. The national trainers then trained provincial trainers for two days at provincial level. For a more detailed discussion on sampling and fieldwork please refer to the Technical notes as described in Section 3.

### 1.3 Data revisions

The questionnaires were scanned and processed. Editing and imputation was done using a combination of manual and automated editing procedures. Details about this process can be found in the GHS 2025 report (P0318). Section 4 describes the methods used to calculate each indicator value. When calculating percentages, missing and do not know values were discarded from the denominator unless otherwise stated.



**Risenga Maluleke**  
Statistician-General

## 2 Indicator tables

### 2.1 Agriculture

Table 2.1: Agriculture indicators by metro

Indicators	Metro								
	City of Cape Town	Buffalo City	Nelson Mandela Bay	Mangaung	eThekweni	Ekurhuleni	City of Johannesburg	City of Tshwane	All Metros
% of households who engaged in agricultural activities during the past 12 months	4,4	18,9	4,1	16,9	6,2	8,2	2,5	6,1	5,9
Livestock production	0,1	5,2	0,6	1,5	1,6	0,3	0,0	0,4	<b>0,6</b>
Poultry production	0,1	7,0	0,4	1,6	2,2	0,4	0,0	0,5	<b>0,8</b>
Grains and food crops	0,1	0,5	0,0	2,1	1,9	0,9	0,2	0,2	<b>0,6</b>
Industrial crops	0,0	0,0	0,0	0,2	0,0	0,0	0,0	0,0	<b>0,0</b>
Fruit and vegetable production	4,3	13,0	3,6	15,6	2,9	7,3	2,4	5,5	<b>4,9</b>
Fodder, grazing/pasture or grass for animals	0,1	0,0	0,0	0,0	0,1	0,0	0,0	0,1	<b>0,0</b>
Fish farming/aquaculture									
Forestry	0,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0	<b>0,0</b>
Game Farming	0,0	0,0	0,0	0,3	0,0	0,0	0,0	0,0	<b>0,0</b>

**Table 2.1: Agriculture indicators by metro (concluded)**

Indicators	Metro								
	City of Cape Town	Buffalo City	Nelson Mandela Bay	Mangaung	eThekweni	Ekurhuleni	City of Johannesburg	City of Tshwane	All Metros
<b>% of households involved in different crop planting activities:</b>									
<b>Farmland (communal or private)</b>	0,1	0,0	0,0	0,0	0,1	0,2	0,1	0,1	<b>0,1</b>
<b>Backyard garden</b>	4,0	12,7	3,6	15,6	4,2	7,2	2,3	5,4	<b>5,0</b>
<b>School garden</b>	0,1	0,3	0,0	0,0	0,0	0,1	0,0	0,0	<b>0,0</b>
<b>Communal garden</b>	0,0	0,0	0,0	0,0	0,1	0,3	0,2	0,2	<b>0,1</b>
<b>Verges of the road and unused land</b>	0,0	0,0	0,0	0,0	0,0	0,1	0,0	0,1	<b>0,0</b>
<b>Other</b>	0,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0	<b>0,0</b>
<b>% of households classified as:</b>									
<b>Food access adequate</b>	79,5	81,8	73,6	71,2	78,1	84,3	80,8	85,4	<b>80,9</b>
<b>Food access inadequate</b>	12,5	11,8	16,9	16,1	9,4	10,6	14,3	8,9	<b>11,9</b>
<b>Food access severely inadequate</b>	8,0	6,4	9,5	12,7	12,6	5,1	5,0	5,7	<b>7,2</b>

## 2.2 Education

**Table 2.2: Education indicators by metro**

Indicators	Metro								
	City of Cape Town	Buffalo City	Nelson Mandela Bay	Mangaung	eThekwini	Ekurhuleni	City of Johannesburg	City of Tshwane	All Metros
<b>Age-specific Enrolment Ratio (ASER) expressed as a percentage</b>									
<b>Primary School</b>	99,5	96,8	98,9	98,1	99,1	98,6	99,5	99,3	<b>99,1</b>
<b>All</b>	94,3	93,7	94,6	94,8	95,9	94,2	96,1	95,6	<b>95,2</b>
<b>% of 16-18-year-olds who attend any institution</b>	82,0	86,1	78,3	79,3	84,4	83,8	86,0	85,7	<b>84,1</b>
<b>% of children with special needs aged 7–15 NOT enrolled in educational institutions</b>	4,2	56,8	51,6	64,0	8,9	0,0	9,5	6,3	<b>11,1</b>
<b>% of learners in public schools that do not pay school fees</b>	44,9	73,4	48,0	75,0	46,6	54,2	68,0	56,6	<b>56,1</b>
<b>% of learners in schools receiving social grants</b>	42,7	68,4	59,4	65,4	59,4	50,3	46,2	45,5	<b>50,1</b>
<b>Numbers of learners enrolled (16–18) in any institution N ('000)</b>	211	37	43	28	138	173	256	206	<b>1 090</b>

**Table 2.2: Education indicators by metro (concluded)**

Indicators	Metro								
	City of Cape Town	Buffalo City	Nelson Mandela Bay	Mangaung	eThekweni	Ekurhuleni	City of Johannesburg	City of Tshwane	All metros
% of learners in public schools benefiting from free scholar transport	2,1	5,7	2,1	0,9	2,3	4,0	3,8	10,0	<b>4,3</b>
% of learners in public schools benefiting from the nutrition programme	54,6	78,0	61,7	78,6	74,7	61,7	58,6	61,1	<b>62,9</b>
Adult literacy rates (persons 20 years and older with less than Grade 7 as highest level of education)	3,5	9,7	4,1	9,3	6,1	4,8	3,0	4,5	<b>4,5</b>

## 2.3 Environmental indicators

**Table 2.3: Environmental related indicators by metro**

Indicators	Metro								
	City of Cape Town	Buffalo City	Nelson Mandela Bay	Mangaung	eThekweni	Ekurhuleni	City of Johannesburg	City of Tshwane	All Metros
Number of households using borehole water N ('000)	2	4	4	7	3	6	9	9	<b>45</b>
Number of households using wood/coal for cooking N ('000)	2	2	1	3	11	24	7	11	<b>61</b>
% of households whose refuse is removed by a local authority or private company or municipality	90,1	70,3	83,0	69,3	80,9	89,7	85,2	78,3	<b>84,0</b>
<b>% of households who feel that they are experiencing problem with:</b>									
Irregular or no waste removal	11,0	16,5	27,0	51,5	29,5	14,2	17,5	15,5	<b>18,9</b>
Littering	35,1	22,5	29,6	48,0	41,6	28,7	38,2	25,7	<b>34,1</b>
Water pollution	16,5	26,2	5,2	27,1	16,2	17,1	26,9	14,4	<b>19,0</b>
Air pollution	15,3	24,4	5,9	26,7	7,8	20,4	23,0	11,9	<b>16,7</b>
Land degradation	24,9	42,9	5,6	51,7	16,5	28,5	41,5	28,4	<b>29,7</b>
Excessive noise pollution	18,3	19,7	0,9	24,1	19,8	21,5	24,5	17,1	<b>20,0</b>

## 2.4 Health

**Table 2.4: Health Indicators by metro**

Indicators	Metro								
	City of Cape Town	Buffalo City	Nelson Mandela Bay	Mangaung	eThekwin	Ekurhuleni	City of Johannesburg	City of Tshwane	All Metros
% of orphans aged 7–18 years attending educational institutions	91,6	92,8	94,1	91,2	92,9	88,3	92,4	89,9	<b>91,3</b>
% of people 20 years and older with no schooling	0,7	2,6	0,4	1,5	1,8	1,1	0,8	1,2	<b>1,1</b>
% of persons with medical aid coverage	28,2	18,9	22,9	17,5	17,7	22,4	20,7	26,8	<b>22,8</b>
% of households for which the usual place of consultation is a public facility	54,9	77,6	59,9	68,4	70,1	67,2	66,9	58,4	<b>64,2</b>

**2.5 Human settlement**

**Table 2.5: Human settlement indicators by metro**

Indicators	Metro								
	City of Cape Town	Buffalo City	Nelson Mandela Bay	Mangaung	eThekweni	Ekurhuleni	City of Johannesburg	City of Tshwane	All Metros
% of households who live in an RDP or state-subsidised house	18,3	27,4	38,4	19,1	17,0	13,5	7,9	14,9	<b>15,2</b>
% of households receiving a housing subsidy from the state	13,3	14,5	18,1	16,0	12,8	5,8	4,1	12,4	<b>9,8</b>
% of households living in informal dwellings/tents/caravans	16,2	17,2	5,2	12,9	9,7	19,7	19,1	16,2	<b>16,0</b>
% of households who state that the condition of the walls of their state provided/subsidised housing is weak/very weak	8,2	5,5	9,8	8,6	21,6	5,5	3,7	9,3	<b>9,6</b>
% of households who state that the condition of the roof of their state provided/subsidised housing is weak/very weak	9,7	7,6	4,0	4,9	21,2	8,1	3,0	5,5	<b>8,9</b>
% of households who pay rent for a state provided/RDP house	15,1	8,8	8,1	8,5	3,7	11,3	4,2	13,9	<b>9,6</b>
% of households who fully own their dwellings	48,2	70,0	66,9	54,3	28,8	34,5	29,2	33,1	<b>37,3</b>

**2.6 Social development**

**Table 2.6: Social development indicators by metro**

Indicators	Metro								
	City of Cape Town	Buffalo City	Nelson Mandela Bay	Mangaung	eThekweni	Ekurhuleni	City of Johannesburg	City of Tshwane	All Metros
Number of persons 60 years and older N('000)	561	93	174	88	434	375	554	362	<b>2 641</b>
Number of households with at least one person 60 years and older N ('000)	376	74	128	73	342	296	415	257	<b>1 962</b>
% of persons 60 years and older who are disabled (UN definition)	19,2	19,5	13,3	34,0	28,7	23,4	19,3	21,7	<b>21,8</b>
% of persons 60 years and older who are severely disabled	12,8	13,1	7,9	8,2	14,3	10,5	8,5	9,7	<b>10,9</b>
% of people 60 years and older who received old-age grant	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	<b>100,0</b>
% of people 60 years and older who received social grants	50,8	76,6	58,0	76,8	68,1	64,0	60,5	51,8	<b>59,9</b>
<b>% of households with persons 60 years and older and classified as:</b>									
Food access adequate	79,5	81,8	73,6	71,2	78,1	84,3	80,8	85,4	<b>80,9</b>
Food access inadequate	12,5	11,8	16,9	16,1	9,4	10,6	14,3	8,9	<b>11,9</b>
Food access severely inadequate	8,0	6,4	9,5	12,7	12,6	5,1	5,0	5,7	<b>7,2</b>
<b>Number of households classified as N ('000)</b>									
Food access adequate	1 168	216	291	215	1 072	1 295	1 920	1 260	<b>7 437</b>
Food access inadequate	184	31	67	49	129	162	340	131	<b>1 093</b>
Food access severely inadequate	117	17	38	38	172	78	118	85	<b>663</b>
% of poor households with children aged 7–18 who do not spend money on school fees	59,1	87,0	58,9	75,5	60,9	67,6	80,1	67,9	<b>69,3</b>
Number of households classified as poor using household monthly expenditure of below R2 500 as the cut-off N ('000)	244	78	75	99	369	328	546	385	<b>2 124</b>
Number of households classified as poor using household monthly expenditure of below R2 500 as the cut-off and who have children aged 7–18 N ('000)	88	22	27	34	97	66	152	96	<b>583</b>

**2.7 Transport**

**Table 2.7: Transport indicators by metro**

Indicators	Metro								
	City of Cape Town	Buffalo City	Nelson Mandela Bay	Mangaung	eThekwin	Ekurhuleni	City of Johannesburg	City of Tshwane	All Metros
<b># of passenger trips made per month with each public transport mode N ('000):</b>									
<b>Minibus/taxi</b>	5 190	726	1 123	963	6 045	6 983	10 281	3 662	<b>34 972</b>
<b>Bus</b>	1 309	9	145	189	571	113	571	369	<b>3 275</b>
<b>Train</b>	368	9	12		116	121	162	407	<b>1 194</b>
<b>% of the household's income spent on transport per month</b>									
<b>1–10%</b>	50,1	59,5	50,4	45,7	42,1	47,8	50,9	54,4	<b>49,5</b>
<b>11–20%</b>	28,8	19,4	29,7	31,5	21,9	28,5	26,2	21,6	<b>25,8</b>
<b>21–30%</b>	10,3	4,4	9,6	12,8	13,2	11,3	11,4	11,1	<b>11,2</b>
<b>30% or more</b>	10,8	16,8	10,3	10,0	22,9	12,4	11,6	12,8	<b>13,6</b>
<b>% of learners travelling for longer than 30 minutes to an education institution</b>	20,2	11,3	10,9	13,1	9,5	13,8	8,8	14,1	<b>12,9</b>
<b>% of workers travelling for longer than 30 minutes to their place of work</b>	48,8	19,2	11,7	25,3	27,5	39,4	38,3	40,2	<b>37,3</b>

## 2.8 Water and sanitation

**Table 2.8: Water and sanitation variables by metro**

Indicators	Metro								
	City of Cape Town	Buffalo City	Nelson Mandela Bay	Mangaung	eThekweni	Ekurhuleni	City of Johannesburg	City of Tshwane	All Metros
Number of households with water supply infrastructure of RDP standard or higher N ('000)	1 464	245	392	286	1 238	1 524	2 362	1 439	8 950
Number of households with water supply infrastructure less than RDP standard N ('000)	5	18	4	17	135	12	15	37	243
Number of households with no water supply infrastructure N ('000)	5	11	8	22	106	18	15	34	218
<b>Consumer perception index of water quality N ('000)</b>									
Number of consumers who experienced interruptions of 48 hours or more at a time N ('000)	95	79	106	63	512	316	829	385	2385
Number of WSAs whose consumers have experienced a cumulative interruption of more than 15 days for the financial year N ('000)	38	37	30	36	482	118	471	208	1421
Number of households with access to a functioning basic sanitation facility (strategic framework) N ('000)	1407	245	378	258	1222	1400	2269	1255	8435

**Table 2.8: Water and sanitation variables by metro (concluded)**

Indicators	Metro								
	City of Cape Town	Buffalo City	Nelson Mandela Bay	Mangaung	eThekweni	Ekurhuleni	City of Johannesburg	City of Tshwane	All Metros
Number of households using bucket toilets N ('000)	0	6	1	23	33	26	24	69	181
Number of households with substandard toilet facility N ('000)	24	17	8	41	124	100	87	203	604
% of households with substandard toilet facility	1,7	6,4	1,9	13,6	9,1	6,5	3,7	13,8	6,6
Number of households with no sanitation facility N ('000)	0	1	2	0	16	5	0	1	25
% households with access to improved sanitation facilities	95,9	93,3	95,7	86,3	89,2	91,4	95,5	85,1	91,9

### 3 Indicator tables

#### 3.1 MFMA Circular No. 88 metro indicator data elements, 2025

**Table 3.7: MFMA Circular No. 88 metro indicator data elements, 2025**

Indicators	Metro							
	City of Cape Town	Buffalo City	Nelson Mandela Bay	Mangaung	eThekwni	Ekurhuleni	City of Johannesburg	City of Tshwane
EE1.1 (1) Number of households with access to electricity	1 437 367	216 272	373 317	292 005	1 238 272	1 377 704	1 940 196	<b>1 250 806</b>
EE1.1 (2) Total number of households in the municipality	1 469 484	263 502	395 545	302 435	1 369 880	1 535 395	2 375 941	<b>1 475 670</b>
ENV1.3 (1) Number of households experiencing noise pollution	268 904	51 836	3 466	72 791	272 045	329 389	583 107	<b>252 363</b>
ENV1.3 (2) Total number of households in the municipality	1 469 484	263 502	395 545	302 435	1 373 130	1 535 395	2 377 079	<b>1 473 510</b>
ENV3.1 (1) Number of households who have their refuse removed at least once a week.	1 304 861	182 227	325 151	187 983	1 071 973	1 372 964	1 884 020	<b>1 135 177</b>
ENV3.1 (2) Total number of households in the municipality	1 469 484	263 502	395 545	302 435	1 373 130	1 535 395	2 377 079	<b>1 475 670</b>
HS1.1 (1) Number of households residing in formal dwellings in the municipality	1 229 763	209 229	373 655	260 326	1 206 279	1 206 897	1 918 882	<b>1 236 791</b>
HS1.1 (2) Total number of households in the municipality	1 469 484	263 502	395 545	302 435	1 373 130	1 535 395	2 377 079	<b>1 476 159</b>
HS2.3 (1) Number of households in formal dwellings 'renting'	399 965	25 692	69 536	71 040	289 494	419 661	842 239	<b>404 574</b>
HS2.3 (2) Number of households residing in formal dwellings in the municipality	1 229 763	209 229	373 655	260 326	1 206 279	1 206 897	1 918 882	<b>1 236 791</b>

**Table 9.7: MFMA Circular No. 88 metro indicator data elements, 2025 (Concluded)**

Indicators	Metro							
	City of Cape Town	Buffalo City	Nelson Mandela Bay	Mangaung	eThekweni	Ekurhuleni	City of Johannesburg	City of Tshwane
WS2.1 (1) Number of households with the main source of drinking water piped (tap) water inside dwelling/institution	1 164 345	156 602	328 967	116 384	808 852	875 971	1 278 077	<b>935 757</b>
WS2.1 (2) Number of households with the main source of drinking water piped (tap) water inside yard	179 969	34 523	45 479	149 535	349 768	547 157	928 949	<b>444 042</b>
WS2.1 (3) Number of households with the main source of drinking water piped (tap) water on community stand: distance less than 200m from dwelling/institution	113 991	49 330	12 298	7 730	42 279	75 492	137 396	<b>34 936</b>
WS2.1 (4) Total number of households in the municipality	1 469 484	263 502	395 545	302 435	1 373 130	1 535 395	2 377 079	<b>1 476 159</b>
WS1.1 (1) Number of households using a flush toilet (connected to sewerage system)	1 403 793	185 889	373 397	210 701	1 013 879	1 354 284	2 135 485	<b>1 190 057</b>
WS1.1 (2) Number of households using a flush toilet (with septic tank)	804	15 834	2 443	7 273	73 122	5 119	9 465	<b>25 622</b>
WS1.1 (3) Number of households using a pit toilet with ventilation (VIP)	996	42 859	-	32 236	123 591	31 963	121 398	<b>33 714</b>
WS1.1 (4) Total number of households in the municipality	1 469 484	263 502	395 545	302 435	1 373 130	1 535 395	2 377 079	<b>1 475 670</b>
IC11a. (1) Number of learners travelling longer than 30 minutes to an educational institution	222 873	22 098	33 346	30 611	86 100	123 983	130 592	<b>152 251</b>
IC11a. (2) Total number of learners travelling to an educational institution	1 196 890	205 717	316 040	243 829	958 620	1 020 743	1 642 920	<b>1 251 913</b>
IC11b. (1) Number of workers travelling longer than 30 minutes to a place of work	791 627	43 004	40 720	50 852	332 866	556 719	906 340	<b>496 263</b>
IC11b. (2) Total number of workers travelling to a place of work	1 633 565	226 613	342 263	208 693	1 254 438	1 419 066	2 383 385	<b>1 228 887</b>
Total number of households in the municipality (estimate), 2025*	1 469 484	263 502	395 545	302 435	1 373 130	1 535 395	2 377 079	<b>1 476 159</b>
Total population of the municipality (estimates), 2025**	4 838 248	795 115	1 301 512	856 653	4 097 508	4 227 393	6 730 889	<b>4 300 026</b>

**Table 3.6: Basic household and population data used for benchmarking the GHS 2025**

Indicators	Metro								
	City of Cape Town	Buffalo City	Nelson Mandela Bay	Mangaung	eThekweni	Ekurhuleni	City of Johannesburg	City of Tshwane	All Metros
# of persons N ('000)	4 838	795	1 302	857	4 098	4 227	6 731	4 300	<b>27 147</b>
# of households N ('000)	1 469	264	396	302	1 373	1 535	2 377	1 476	<b>9 193</b>

## 4 Technical notes

### 4.1 Target population

The target population of the survey consists of all private households in all nine provinces of South Africa and residents in workers' hostels. The survey does not cover other collective living quarters such as students' hostels, old-age homes, hospitals, prisons and military barracks, and is therefore only representative of non-institutionalised and non-military persons or households in South Africa.

### 4.2 Sample design

The General Household Survey (GHS) uses the Master Sample frame which has been developed as a general-purpose household survey frame that can be used by all other Stats SA household surveys having design requirements that are reasonably compatible with the GHS. The GHS 2019 collection was based on the 2013 Master Sample. This Master Sample is based on information collected during the 2011 Census conducted by Stats SA. In preparation for Census 2011, the country was divided into 103 576 enumeration areas (EAs). The census EAs, together with the auxiliary information for the EAs, were used as the frame units or building blocks for the formation of primary sampling units (PSUs) for the Master Sample, since they covered the entire country and had other information that is crucial for stratification and creation of PSUs. There are 3 324 primary sampling units (PSUs) in the Master Sample with an expected sample of approximately 33 000 dwelling units (DUs). The number of PSUs in the current Master Sample (3 324) reflect an 8,0% increase in the size of the Master Sample compared to the previous (2008) Master Sample (which had 3 080 PSUs). The larger Master Sample of PSUs was selected to improve the precision (smaller coefficients of variation, known as CVs) of the GHS estimates.

The Master Sample is designed to be representative at provincial level and within provinces at metro/non-metro levels. Within the metros, the sample is further distributed by geographical type. The three geography types are Urban, Tribal and Farms. This implies, for example, that within a metropolitan area, the sample is representative of the different geography types that may exist within that metro.

The sample for the GHS is based on a stratified two-stage design with probability proportional to size (PPS) sampling of PSUs in the first stage, and sampling of dwelling units (DUs) with systematic sampling in the second stage.

### 4.3 Allocating sample sizes to strata<sup>1</sup>

The randomised PPS systematic sampling method is described below. This procedure was applied independently within each design stratum.

Let  $N$  be the total # of PSUs in the stratum, and the # of PSUs to be selected from the stratum is denoted by  $n$ . Also, let  $x_i$  denote the size measure of the PSU  $i$  within the stratum, where  $i = 1, 2, 3, \dots, N$ . Then, the method for selecting the sample of  $n$  PSUs with the Randomised PPS systematic sampling method can be described as follows:

#### Step 1: Randomise the PSUs within the stratum

The list of  $N$  PSUs within the stratum can be randomised by generating uniform random between 0 and 1, and then by sorting the  $N$  PSUs in ascending or descending order of these random numbers. Once the PSUs have been randomised, we can generate permanent sequence #s for the PSUs.

<sup>1</sup> Source: Sample Selection and Rotation for the Redesigned South African Labour Force Survey by G. Hussain Choudhry, 2007.

**Step 2: Define normalised measures of size for the PSUs**

We denote by  $x_i$  the measure of size (MOS) of PSU  $i$  within the design stratum. Then, the

measure of size for the stratum is given by  $X = \sum_{i=1}^N x_i$ . We define the normalised size measure

$p_i$  of PSU  $i$  as  $p_i = x_i / X; i = 1, 2, 3, \dots, N$ , where  $N$  is the total # of PSUs in the design

stratum. Then,  $p_i$  is the relative size of the PSU  $i$  in the stratum, and  $\sum_{i=1}^N p_i = 1$  for all strata. It

should be noted that the value of  $n \times p_i$ , which is the selection probability of PSU  $i$  must be less than one.

**Step 3: Obtain inverse sampling rates (ISRs)**

Let  $R$  be the stratum inverse sampling rate (ISR). The stratum ISR is the same as the corresponding provincial ISR because of the proportional allocation within the province. It should also be noted that the proportional allocation within the province also results in a self-weighting design.

Then, the PSU inverse sampling rates (ISRs) are obtained as follows:

First, define  $N$  real #s  $Z_i = n \times p_i \times R; i = 1, 2, 3, \dots, N$ . It is easy to verify that  $\sum_{i=1}^N Z_i = n \times R$

. Next, round the  $N$  real #s  $Z_i; i = 1, 2, 3, \dots, N$  to integer values  $R_i; i = 1, 2, 3, \dots, N$  such that

each  $R_i$  is as close as possible to the corresponding  $Z_i$  value and the  $R_i$  values add up to  $n \times R$

within the stratum. In other words, the sum of the absolute differences between the  $R_i$  and the

corresponding  $Z_i$  values is minimised subject to the constraint that the  $R_i$  values add up to  $n \times R$

within the stratum. Drew, Choudhry and Gray (1978) provide a simple algorithm to obtain the integer  $R_i$  values as follows:

Let " $d$ " be the difference between the value  $n \times R$  and the sum  $S = \sum_{i=1}^N [Z_i]$ , where  $[ \cdot ]$  is the

integer function, then  $R_i$  values can be obtained by rounding up the " $d$ "  $Z_i$  values with the

largest fraction parts, and by rounding down the remaining  $(N - d)$  of them. It should be noted

that the integer sizes  $R_i; i = 1, 2, 3, \dots, N$  are also the PSU inverse sampling rates (ISRs) for systematic sampling of dwelling units.

**Step 4: Obtain cumulative ISR values**

We denote by  $C_i; i = 1, 2, 3, \dots, N$  the cumulative ISRs of the PSUs within the stratum. It should be noted that the PSUs within the stratum have been sorted according to the sequence numbers that were assigned after the randomisation. Then, the cumulative ISRs are defined as follows:

$$C_1 = R_1,$$

$$C_j = C_{(j-1)} + R_j; \quad j = 2, 3, \dots, N.$$

It should be noted that the value  $C_N$  will be equal to  $n \times R$ , which is also the total # of systematic samples of dwelling units that can be selected from the stratum.

**Step 5: Generate an integer random #  $r$  between 1 and  $R$ , and compute  $n$  integers  $r_1, r_2, \dots, r_n$  as follows:**

$$r_1 = r$$

$$r_2 = r_1 + R$$

$$r_3 = r_2 + R$$

$$\cdot$$

$$\cdot$$

$$r_i = r_{(i-1)} + R$$

$$\cdot$$

$$\cdot$$

$$r_n = r_{(n-1)} + R.$$

**Step 6: Select  $n$  PSUs out of the  $N$  PSUs in the stratum with the labels (sequence numbers) number  $i_1, i_2, \dots, i_n$  such that:**

$$C_{i_1-1} < r_1 \leq C_{i_1}$$

$$C_{i_2-1} < r_2 \leq C_{i_2}$$

$$\cdot$$

$$\cdot$$

$$C_{i_n-1} < r_n \leq C_{i_n}.$$

Then, the  $n$  PSUs with the labels  $i_1, i_2, \dots, i_n$  would get selected with probabilities proportional to size, and the selection probability of the PSU  $i$  will be given by  $R_i / R$ .

**4.4 Weighting<sup>2</sup>**

The sampling weights for the data collected from the sampled households were constructed so that the responses could be properly expanded to represent the entire civilian population of South Africa. The design weights, which are the inverse sampling rate (ISR) for the province, are assigned to each of the households in a province. These were adjusted for four factors: Informal PSUs, Growth PSUs, Sample Stabilisation, and Non-responding Units.

Mid-year population estimates produced by the Demographic Analysis division were used for benchmarking. The final survey weights were constructed using regression estimation to calibrate to national level population estimates cross-classified by 5-year age groups, gender and race, and provincial population estimates by broad age groups. The 5-year age groups are: 0–4, 5–9, 10–14, 55–59, 60–64, and 65 and over. The provincial level age groups are 0–14, 15–34, 35–64, and 65 years and over. The calibrated weights were constructed such that all persons in a household would have the same final weight.

The Statistics Canada software StatMx was used for constructing calibration weight. The population controls at national and provincial level were used for the cells defined by cross-classification of Age by Gender by Race. Records for which the age, population group or sex had item non-response could not be weighted and were therefore excluded from the dataset. No imputation was done to retain these records.

**4.5 Sampling and the interpretation of the data**

Caution must be exercised when interpreting the results of the GHS at low levels of disaggregation. The sample and reporting are based on the provincial boundaries as defined in census 2011. These new boundaries resulted in minor changes to the boundaries of some provinces, especially Gauteng, North West, Mpumalanga/Limpopo and Eastern and Western Cape. In previous reports the sample was based on the provincial boundaries as defined in 2001, and there will therefore be slight comparative differences in terms of provincial boundary definitions.

**4.6 Definitions of terms**

Term	Definition
<b>Household</b>	<p>A household is defined as a person, or group of persons, who occupy a common dwelling unit (or part of it) for <b>at least four nights in a week</b> on average during the past four weeks prior to the survey interview. Basically, <b>they live together and share resources as a unit</b>. Other explanatory phrases can be 'eating from the same pot' and 'cook and eat together'.</p> <p>Persons who occupy the same dwelling unit but do not share food or other essentials, are regarded as separate households. For example, people who share a dwelling unit, but buy food separately, and generally provide for themselves separately, are regarded as separate households within the same dwelling unit.</p> <p><b>Conversely, a household may occupy more than one structure, If persons on a plot, stand or yard eat together, but sleep in separate structures (e.g., a room at the back of the house for single young male members of a family), all these persons should be regarded as one household.</b></p>
<b>Multiple households</b>	<p>Multiple households occur when two or more households live in one sampled dwelling unit. If there are two or more households in the selected dwelling unit and they do not share resources, all households are to be interviewed. The whole dwelling unit has been given one chance of selection and all households located there were interviewed using separate questionnaires.</p>

<sup>2</sup> Source: Sampling and Weighting System for the Redesigned South African Labour Force Survey, by G. Hussain Choudhry, 2007

<b>Term</b>	<b>Definition</b>
<b><i>Household head/Acting household head</i></b>	<p>The head of the household is the person identified by the household as the head of that household and must (by definition of 'household') be a member of the household. If there is difficulty in identifying the head, the head must be selected in order of precedence as the person who:</p> <ul style="list-style-type: none"> <li>• Owns the household accommodation,</li> <li>• Is responsible for the rent of the household accommodation,</li> <li>• Has the household accommodation as an allowance (entitlement), etc.,</li> <li>• Has the household accommodation by virtue of some relationship to the owner, lessee, etc., who is not in the household,</li> <li>• Makes the most decisions in the household.</li> </ul> <p>If two or more persons have equal claim to be head of the household, or if people state that they are joint heads or that the household has no head, then denote the eldest as the head.</p>
<b><i>Formal dwellings</i></b>	Include a house on a separate stand, a flat or apartment in a block of flats, a townhouse, a room in a backyard, and a room or flatlet on a shared property.
<b><i>Informal dwellings</i></b>	Refer to shacks or shanties in informal settlements or in backyards
<b><i>Piped water in dwelling or on site</i></b>	Includes piped water inside the household's own dwelling or in their yard, It excludes water from a neighbour's tap or a public tap that is not on site.
<b><i>Electricity for cooking, heating and/or lighting</i></b>	Refers to electricity from the public supplier.
<b><i>UN disability</i></b>	Concentrating and remembering are grouped together as one category. If an individual has 'Some difficulty' with two or more of the 6 categories then they are disabled. If an individual has 'A lot of difficulty' or is 'Unable to do' for one or more category they are classified as disabled.
<b><i>Severe disability</i></b>	If an individual has 'A lot of difficulty' or is 'Unable to do' for one or more category they are classified as severely disabled.
<b><i>Poor household</i></b>	Poor households have been defined households who spend less than R2 500 per month.
<b><i>Water of RDP standard or higher</i></b>	'Piped water in dwelling or in yard' and 'Water from a neighbour's tap or public/communal tap' are also included provided that the distance is less than 200 metres.
<b><i>Improved sanitation facility</i></b>	Flush toilet connected to a public sewerage system or septic tank or a pit latrine with ventilation pipe.

## 5 Specific departmental indicators and question linkages

**Table 5.1: Agriculture**

Indicator	Annual reporting level	Questions in the GHS	GHS relative to other sources	Definitions and/or formulas
Percentage of households involved in agricultural production activities	National and provincial	AGR_Agri	Main source	# of households option 1 in AGR_Agri/total # of households who responded*100
Percentage of households involved in different agricultural production sectors	National and provincial	AGR_AGRI_TYPE_LIVE- AGR_AGRI_TYPE_GAME	Main source	# of households for each option in AGR_AGRI_TYPE_LIVE- AGR_AGRI_TYPE_GAME/total # of households who responded *100
Percentage of households involved in different crop planting activities	National and provincial	AGR_PLANT	Main source	# of households for each option in AGR_PLANT/total # of households who responded *100
Percentage of households who produce crops on 1 or more hectares	National and provincial	AGR_LANDSIZE	Main source	# of households who produce crops option 3 to 7 in AGR_LANDSIZE/total # of households who responded *100
Percentage of households who own the land on which they produce crops	National and provincial	AGR_LANDTENURE	Main source	# of households who produce crops option 1 in AGR_LANDTENURE/total # of households who produce crops*100
Percentage of households who sell most of the agricultural produce they produce	National and provincial	AGR_Sell	Main source	# of households who chose option 1 in AGR_Sell/total # of households who are involve in agricultural production activities*100
Percentage of households classified as: Food access adequate Food access inadequate Food access severely inadequate	National and provincial	FSD_WORRIED– FSD_WHLDAY	Main source	Adequate: one or no 'Yes' responses for the first part of FSD_WORRIED–FSD_WHLDAY Inadequate: 2–3 'Yes' responses for any of FSD_WORRIED – FSD_WHLDAY Severely inadequate: 4–6 'Yes' responses for any of FSD_WORRIED –FSD_WHLDAY

**Table 5.2: Education**

Indicator	Annual reporting level	Questions in the GHS	GHS relative to other sources	Definitions and/or formulas
Age-specific Enrolment Ratio (ASER)	National Provincial UNESCO	EDU_GRDE, D	Main source	# (persons aged 7–13 attending educational institutions)/ # persons aged 7–13 * 100 # (persons aged 7–18 attending educational institutions)/ # persons aged 7–18 *100
Repetition rates (Grades 10–12)	National Provincial UNESCO	EDU_GRDE, EDU_SAME	Validation Data confrontation	# who attend Grd 10 to Grd 12 and repeating /(# who attend Grd 10 to Grd 12)*100
Enrolment for 16–18-year-olds	National Provincial	EDU_GRDE, EDU_EDUI	Validation Data confrontation	# aged 16–18 who are enrolled in any institution # who attend any institution/(# 16–18 years old) *100
Percentage of children with special needs aged 7–15 not enrolled in educational institutions	National Provincial	EDU_ATE ND, EDU_RSNN	Main source	(# of persons aged 7-15 with disabilities <sup>3</sup> not enrolled)/#aged 7-15 yrs with disabilities)*100
Percentage of learners in public schools that do not pay school fees	National Provincial	EDU_TOTF EES	Validation Data confrontation	# persons attend public school who do not pay school fees/# of persons attending public schools*100
Percentage of learners in schools receiving social grants	National Provincial	EDU_EDUI, SOC_GRAN T SOC_GRAN T_TYPE	Main source Data confrontation	# persons attending school who receive any grant/# of persons who attend school and answered the question*100
Percentage of learners who walk for more than 30 minutes to the nearest school	National Provincial	EDU_MODE _TR, EDU_NEAR EST	Main source	# learners who walk for 30 minutes or more to attend the nearest school/ # of persons attending schools*100
Percentage of learners in public schools benefiting from free scholar transport	National Provincial	EDU_ATE ND, EDU_EDUI, EDU_MODE _TR	Validation source	# learners who chose option 6 in EDU_MODE_TR/ # of persons attending public schools*100
Percentage of learners in public <sup>4</sup> schools benefiting from the nutrition programme	National Provincial	EDU_EATF OOD	Validation source	# persons options 2–4 in EDU_EATFOOD/# of persons attending Grd 0–Grd 12*100
% of reported incidents of corporal punishment	National Provincial	EDU_VLNC _EXP	Main source	# persons options 1 in EDU_VLNC_EXP/# of persons attending school (option 2 in EDU_EDUI)
Adult literacy rates	National Provincial	D,1,5	Validation source	# persons options with highest education less than Grd 7/# of persons 20 years and older

<sup>3</sup> Un definition of disabilities<sup>4</sup> Question on public and private school

**Table 5.3: Environmental affairs**

<b>Indicator</b>	<b>Annual reporting level</b>	<b>Questions in the GHS</b>	<b>GHS relative to other sources</b>	<b>Definitions and/or formulas</b>
# of households using borehole water	National and provincial	WAT_DRINK WAT	Supply data towards its calculation	# of households options 3 and 9 for WAT_DRINKWAT
# of households using wood or coal for cooking	National and provincial	ENG_COOK	Main source	# households option 5, 6 for ENG_COOK
Percentage of households whose refuse or rubbish is removed by a local authority or private company	National and provincial	SWR_RUB	Main source	# of households options 1–4 in SWR_RUB/# of households who answered the question*100
Percentage of households who feel that they are experiencing pollution by categories	National and provincial	SWR_ENV Option 1	Main source	# of households who answered 'Yes' for selected options in SWR_ENV /# of households who answered the question*100

**Table 5.4: Health**

Indicator	Annual reporting level	Questions in the GHS	GHS relative to other sources	Definitions and/or formulas
% of orphans aged 7–18 years attending educational institutions	National and provincial	HHC_FATH_A LIVE, HHC_MOTH_ ALIVE, EDU_EDUI, D	Main source	# of children aged 7–18 years who lost one or both of their biological parents attending school/ # of children aged 7–18 who lost one or both of their biological parents*100
% of people 20 years and older with no schooling	National and provincial	D, Education	Main source	# of persons 20 years and older with no schooling/# of persons 20 years and older*100
% of persons with medical aid coverage	National and provincial	HLT_MEDI	Main source	# of persons who responded 'Yes' in HLT_MEDI/# of persons who responded to the question*100
% of households for which the usual place of consultation is a public facility	National and provincial	HHW_HLTFA C	Descriptive/ interpretive One of the sources	# of persons who responded 'Yes' to options 1–3 in HHW_HLTFA/# of persons who responded to the question*100

**Table 5.5: Human settlement**

<b>Indicator</b>	<b>Annual reporting level</b>	<b>Questions in the GHS</b>	<b>GHS relative to other sources</b>	<b>Definitions and/or formulas</b>
Percentage of households who live in an RDP or state subsidised house	National and provincial	HSG_RDP	Main source	# of households who replied 'Yes' in HSG_RDP/# of households who answered the question*100
Percentage of households receiving a housing subsidy from the state	National and provincial	HSG_SUBSIDY	Validation source	# of households whose response is 'Yes' in HSG_SUBSIDY/# of households who answered the question*100
Percentage of households who state that the condition of the walls of their state provided/subsidised housing is weak/very weak	National and provincial	HSG_COND_WALL, HSG_SUBSIDY	Validation source	# of households with a 'Yes' answer in HSG_SUBSIDY and response 1–2 in HSG_COND_WALL/# of households 'Yes' in HSG_SUBSIDY
Percentage of households who state that the condition of the roof of their state provided/subsidised housing is weak/very weak	National and provincial	HSG_COND_ROOF, HSG_SUBSIDY	Validation source	# of households 'Yes' in HSG_SUBSIDY and response 1–2 in HSG_COND_ROOF/# of households 'Yes' in HSG_SUBSIDY
Percentage of households who pay rent for a state provided/RDP house,	National and provincial	HSG_TENURE, HSG_SUBSIDY	Main source	# of households 'Yes' in HSG_SUBSIDY and option 1 in HSG_TENURE/# of households 'Yes' in HSG_SUBSIDY
Percentage of households who fully own their dwellings	National and provincial	HSG_TENURE	Main source	# of households options 5 in HSG_TENURE/# of households who answered the question*100

**Table 5.6: Social development**

Indicator	Annual reporting level	Questions in the GHS	GHS relative to other sources	Definitions and/or formulas
% of persons 60 years and older that are disabled	National and provincial	D, DSB	Only source	# of persons aged 60 years and older who are disabled UN definition/# of persons who answered the question *100
% of persons 60 years and older that are severely disabled	National and provincial	D, DSB	Only source	# of persons aged 60 years and older who are severely disabled/# of persons who answered the question *100
% of people 60 years and older who received old-age grant	National and provincial	D, SOC_GRAN T_TYPE	Only source	# of persons aged 60 years and older who received an old-age grant/# of persons who answered the question *100
% of people 60 years and older who received social grants	National and provincial	D, SOC_GRAN T	Only source	# of persons aged 60 years and older who received a social grant/# of persons who answered the question *100
% of households with persons 60 years and older with: Food access adequate Food access inadequate Food access severely inadequate	National and provincial	D, FSD_WORRIED - FSD_WHLDAY AY	Descriptive/ interpretive Validation	# of persons aged 60 years and older who answered 'Yes' to FSD_WORRIED - FSD_WHLDAY/# of persons who answered the question *100

**Table 5.6: Social development (concluded)**

Annual reporting level	Questions in the GHS	GHS relative to other sources	GHS relative to other sources	Definitions and/or formulas
# of households classified as: Food access adequate Food access inadequate Food access severely inadequate	National and provincial	FSD_WORRIED - FSD_WHLDAY	Inputs towards indicator calculation	# of households who answered 'Yes' to FSD_WORRIED - FSD_WHLDAY
# of households classified as poor using household monthly expenditure of below R2 500 as the cut-off	National and provincial	FIN_EXP	-	# of households whose total monthly expenditure is below R2 500
# of households classified as poor using household monthly expenditure of below R2 500 as the cut-off and who have children aged 7–18	National and provincial	FIN_EXP	-	# of households with children aged 7-18 and total monthly expenditure is below R2 500
% of poor households with children aged 7–18 who do not spend money on school fees	National and provincial	D, EDU_EDUI, FIN_EXP	Main source	# of households with children aged 7–18 and monthly expenditure below R2 500 who did not spend any money on school fees for at least one of their children/# of households that are poor and have children aged 7–18 years

**Table 5.7: Transport**

<b>Indicator</b>	<b>Annual reporting level</b>	<b>Questions in the GHS</b>	<b>GHS relative to other sources</b>	<b>Definitions and/or formulas</b>
# of passenger trips made per month with each public transport mode: Minibus/taxi Bus Train	National and provincial	TRA	Validation	Only calculated for household members who made trips using public transport
% of the household's income spent on transport per month: 1-10% 11-20% 21-30% 30% or more	National and provincial	TRA, FIN_INC	Main source	Only calculated for households with valid income and expenditure on transport data
% of learners travelling for longer than 30 minutes to an educational institution	National and provincial	EDU_TIME	Main source	Only calculated for individuals attending educational institutions who provided a response to the question on time taken, Missing values were excluded from the denominator
% of workers travelling for longer than 30 minutes to their place of work	National and provincial	LAB_MINS	Main source	Only calculated for individuals working and who provided a response to the question on time taken, Missing values were excluded from the denominator

**Table 5.8: Water and sanitation**

Indicator	Annual reporting level	Questions in the GHS	GHS relative to other sources	Definitions and/or formulas
# of households with water supply infrastructure of RDP standard or higher	National and provincial	WAT_DRINK WAT, WAT_DIST	Validation and data confrontation	On or above RDP is piped water in dwelling or yard or borehole in the yard (options 1,2&3) or tap less than 200 meters from yard (options 5,6&9) and option 1 WAT_DIST; all others are below,
# of households with no water supply infrastructure	National and provincial	WAT_DRINK WAT	Validation and data confrontation	'No water supply' is options 3, 4, 7-13,
# of consumers who experienced water supply interruptions of 48 hours or more at a time	National and provincial	WAT_INTE_2d ays	Validation and data confrontation	# of households option 'Yes' in WAT_INTE_2days/# of households who answered the question*100
# of consumers who have experienced a cumulative interruption of more than 15 days for the financial year	National and provincial	WAT_INTE_15 DAYS	Supply data towards its calculation	# of households option 'Yes' in WAT_INTE_15DAYS/# of households who answered the question*100
Indicator	Annual reporting level	Questions in the GHS	GHS relative to other sources	Definitions and/or formulas
# of households with water supply infrastructure of RDP standard or higher	National and provincial	WAT_DRINK WAT, WAT_DIST	Validation and data confrontation	On or above RDP is piped water in dwelling or yard or borehole in the yard (options 1,2&3) or tap less than 200 meters from yard (options 5,6&9) and option 1 WAT_DIST; all others are below,

**Table 5.8: Water and sanitation (concluded)**

Indicator	Annual reporting level	Questions in the GHS	GHS relative to other sources	Definitions and/or formulas
# of households with access to a functioning basic sanitation facility (strategic framework)	National and provincial	SAN_TOIL – SAN_LOCATI ON	Main source	'Basic facility' is defined as options 1, 2 and 5 in SAN_TOIL
% households with access to a functioning basic sanitation facility (strategic framework)	National and provincial	SAN_TOIL – SAN_LOCATI ON	Main source	# of households with basic facilities/# of households*100
# of households with substandard toilet facility	National and provincial	SAN_TOIL – SAN_LOCATI ON	Main source	'Substandard' is defined as options 4, 6, 7, 8, 9,10 in SAN_TOIL
% of households with substandard toilet facility	National and provincial	SAN_TOIL – SAN_LOCATI ON	Main source	# of households with substandard facilities/# of households*100
# of households using bucket toilets	National and provincial	SAN_TOIL – SAN_LOCATI ON	Main source	# of households who chose option 7 and 8
# of households with no sanitation facility	National and provincial	SAN_TOIL	Main source	# of households who chose option 10
# of poor households receiving free basic sewerage and sanitation	National and provincial	SAN_TOIL – SAN_PAY	Supply data towards its calculation	Poor households are households who spend less than R2 500 per month
% of poor households receiving free basic sewerage and sanitation	National and provincial	SAN_TOIL – SAN_PAY	Supply data towards its calculation	# of poor households who are connected to the sewerage system and answered 'Yes' to SAN_PAY/# of households who answered the question*100

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You can visit us on the internet at: [www.statssa.gov.za](http://www.statssa.gov.za).

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