

Gauteng City Region Observatory

Quality of Life survey 2015

DATA REPORT



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1 Introduction

This report serves as a summary of changes, amendments, recodes and corrections made during the data validation process for the fourth Quality of Life survey implemented by the Gauteng City Region Observatory (GCRO).

The report should be reviewed in conjunction with the completed SPSS dataset.

2 Data collection background

2.1 Research instrument

The research instrument was designed by the GCRO. The final questionnaire included 228 questions, of which 224 were closed ended and 4 open ended questions. In addition, 32 questions contained 'other specify' response options which were coded back into the original response frame after the fieldwork was completed. The 12 sections of the questionnaire included:

- 1) Dwelling and household information, access to services, satisfaction with services;
- 2) Migration into Gauteng;
- 3) Community/suburb;
- 4) Transport;
- 5) Internet access and household characteristics;
- 6) Public participation, satisfaction with government, social and political views/opinions;
- 7) Personal life;
- 8) Employment;
- 9) Crime and safety;
- 10) Community participation, protest activity;
- 11) Health; and
- 12) Demographic and household information.

The final questionnaire was translated into Afrikaans, Sesotho, isiZulu, and isiXhosa by a professional linguistic and translation agency.

2.2 Questionnaire programming

The questionnaire was programmed using the SurveyToGo software on the Dooblo platform, which supports question branching, skipping and looping, and GPS location capturing.

Furthermore, some of the questions were randomised to avoid possible response bias, which can occur when a number of similar questions are asked in sequence. A number of groups of

questions were differently ordered for each respondent (e.g. for Q6.6-Q6.8 the order for one respondent may have been Q6.6; Q6.8, followed by Q6.7, whereas another respondent may have seen the following order: Q6.7; Q6.6, followed by Q6.8.). Randomisation was applied to the following questions:

- Q6.6-6.8 “How satisfied are you with the performance of:
 - Q6.6 The National Government,
 - Q6.7 The Gauteng Provincial Government and
 - Q6.8 The Local Municipality where you live.”
- Q11.20 – 11.22 were also randomised: “The following questions ask about how you felt yesterday on a scale from 0 to 10. Zero means you did not experience the feeling “at all” yesterday while 10 means you experienced the feeling “all of the time” yesterday.
 - Q11.20 How about happy?
 - Q11.21 How about worried?
 - Q11.21 How about depressed?”

A number of logic checks were programmed into the questionnaire to ensure consistency across respondent responses. In each case where a logic check was violated an error message would be activated and the interviewer was required to review these responses with the respondent and to adjust the selections where appropriate. The following checks were included:

- **Q1.3 and Q5.6:** Respondents that selected that they were paying off a bond (Q1.3), were given an error message if they later identified that they were not in debt (Q5.6).
- **Q4.4:** Although Q4.4 was a spontaneous response question, respondents were prompted by the interviewer about whether they walked as one of the modes in their most frequent trip. This was done because many respondents in the past have not thought of walking as a mode of transport and have thus neglected to include it in the range of modes that they utilise.
- **Q5.2 and Q5.7:** Respondents that selected that they accessed the Internet from home, on a cell phone/tablet or laptop in Q5.2 were given an error/check message if they later then indicated that they do not have a cell phone, computer, laptop or Tablet, or Internet connection (Q5.7).
- **Q6.4 and Q6.25:** Respondents that indicated that they had attended an Integrated Development Plan (IDP) meeting (Q6.4) were given an error message if they later indicated that they had never heard of IDP (Q6.25).

Initially the age variable was captured only during the respondent selection process of the questionnaire. In some cases the person that reported the respondents age was not the

respondent themselves, which led to some inaccuracies. In light of this, an additional age question was added later on in the questionnaire for the respondent to answer directly (this change was implemented on 12 October 2015).

2.2.1 Changes made to Sub-place list for 8.7 and 8.8

Due to issues in previous Quality of Life surveys, the following changes were made to the sub-place list that was used in the questionnaire for Q8.7 and Q8.8:

- 1) All sub-places with 'NU' (non-urban) in the sub-place name were removed as per Table 1.

Table 1: Sub-places including 'NU' that were removed from the questionnaire version of Q8.7 and Q8.8

Subplace code	Subplace name
798002003	City of Johannesburg NU
797002003	Ekurhuleni NU
760006002	Emfuleni NU
762004002	Lesedi NU
766002002	Merafong City NU
761002002	Midvaal NU
763001002	Mogale City NU
764003001	Randfontein NU
799026001	Tshwane NU
765004002	Westonaria NU

- 2) Some sub-places with 'SP' were removed to avoid confusion with the actual central areas within each main place, as per Table 2.
- 3) A number of sub-places were renamed to avoid confusion and ensure that the central/CBD was selected where appropriate. Names were changed in the questionnaire as per Table 3. The original sub-place names and codes are used in the final dataset.

Table 2: Sub-places including 'SP' that were removed from the questionnaire version of Q8.7 and Q8.8

Subplace code	Subplace name
799059090	Centurion SP1
799059089	Centurion SP2
799059002	Centurion SP3
799059012	Centurion SP4
799035104	Pretoria SP
764002031	Randfontein SP1
760009006	Vereeniging SP1
760009026	Vereeniging SP2

Table 3: Sub-places that were renamed to include 'Central/CBD' in the questionnaire version of Q8.7 and Q8.8

Sub-place code	Sub-place Original name	Sub-place name to appear in drop down list
798015089	Johannesburg SP	Johannesburg central/CBD
797006020	Kempton Park SP	Kempton Park Central/CBD
760009032	Vereeniging Central	Vereeniging Central/CBD
762014004	Heidelberg Central	Heidelberg Central/ CBD
766004009	Carletonville Central	Carletonville Central/CBD
761006012	Meyerton Central	Meyerton Central/CBD
763004038	Krugersdorp Central	Krugersdorp Central/CBD
764002017	Randfontein SP	Randfontein central/CBD
799035058	Pretoria Central	Pretoria Central/CBD
765008001	Westonaria SP 1	Westonaria Central/CBD
797007010	Edenvale SP	Edenvale Central/CBD
797026002	Tsakane SP	Tsakane Central/CBD

2.2.2 Interview Length:

On average interviews took 45 minutes. Figure 1 presents the distribution of interview length. Some 11% of the interviews were recorded at more than two hours in length. The extended interview length can be attributed to a range of factors including:

- Fieldworkers not closing the interviews properly on the devices after completing an interview.
- Interviews that began, but were completed at a later stage, as arranged by the fieldworker and respondent.
- Tablet times not synchronized back to the start of the interviews.

Please refer to Appendix 1 for an indication of the interview lengths.

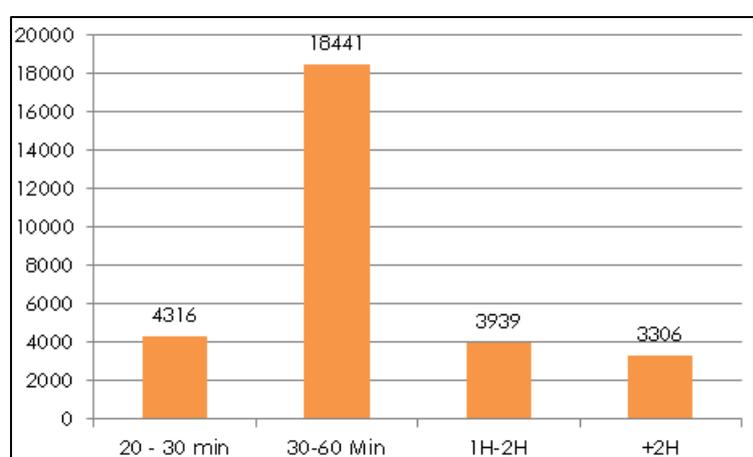


Figure 1: Distribution of interview length

3 Universal codes used

1. -1 No response due to skip scenario

The code -1 was used to indicate that a variable field was not populated in the *other specified* response options. When the previous question did not warrant an answer in the next question, the code -1 was used. This was only relevant to the verbatim answers.

2. 1004 No response due to skip scenario

The code 1004 was used to indicate that a variable field was not populated. This occurred when the answer/ option in the previous question did not warrant an answer in the skip question.

3. 1005 Fieldwork error

The code 1005 was used when a question/skip question was not activated due to a development error in the digital collection instrument and when a valid response could not be determined during the call backs. The code was also used for nonsensical verbatim responses. Table 4 lists the questions, and number of instances per question, where fieldwork errors were found.

Table 4: Instances of fieldworker errors per question

Question number	Question wording	Number of instances
1.10	Satisfaction with pre-paid electricity	n= 1
2.3	Which country did you move into Gauteng from?	n= 5
2.4	When did you move into Gauteng?	n= 1
6.12	Why do you have this opinion of your local councillor?	n= 3
8.2	How old is the business?	n= 45
8.8	Thinking about the main thing you need for your business to operate (e.g. raw materials, goods in bulk, machines etc.). From which area do you get this thing?	n= 1
8.10	If ever tried to start a business, did it fail or succeed?	n= 2
8.23	What is your employment status?	n= 1
8.24	Which sector are you employed in?	n= 1
8.25	Satisfaction: Working conditions in your job	n= 1
11.7_1	For people on a medical aid, have you gone to a state facility while on medical aid? - Yes, hospital	n= 1
11.7_2	For people on a medical aid, have you gone to a state facility while on medical aid? - Yes, state clinic	n= 1
11.7_3	For people on a medical aid, have you gone to a state facility while on medical aid? - No	n= 1
11.8	Given that you have medical aid cover; why did you use a public health facility?	n= 1

4 Unique record identifier

The digital data collection instrument automatically generated a unique record identifier code for each completed questionnaire. This code was used as a primary key in the SPSS dataset. The field label for this unique identifier is SbjNum.

5 Data corrections

This section pertains to data corrections during the data cleaning process.

5.1 Data corrections on Age and Gender questions

Due to a questionnaire programming issue some respondents' age (n=297 records) and sex (n=215 records) information were not recorded. This occurred because of programming maintenance that was done on the relevant section of the questionnaire during fieldwork. All the missing data was retrieved through call backs.

During the call backs, some respondents noted that their age was captured incorrectly, and they provided their correct age. These errors were due to a programming issue, which is described in more detail in section 2.2.1. Appendix 2 provides a comprehensive list of changes that were made to the Gender and Age variables.

5.2 Recoding of Q1: Which type of dwelling does this household occupy?

Due to a questionnaire programming error, 'Semi-detached house not in a complex' was programmed as 'Semi-detached house in a complex'. This error remained throughout the duration of fieldwork. A total of n=175 respondents selected this option, and their responses were recoded from 'Semi-detached house in a complex' into 'Cluster house in a complex'. There were 2 open-ended responses that indicated dwelling type was 'Semi-detached house not in a complex', these were coded into the 'Semi-detached house not in a complex' category.

5.3 Recoding of Q1.9 Electricity

There were instances where respondents did not indicate that they use prepaid electricity, but nonetheless issued a satisfaction rating for this type of electricity. These satisfaction ratings were removed from the final data file to ensure alignment. Refer to Appendix 3 for these changes.

5.4 Recoding of Q2.1 Were you born in Gauteng or did you move into Gauteng from another province or country?

There were 13 fieldwork errors where the incorrect question logic was followed. These instances include:

1. Respondents indicating in Q2.1 that they had 'Migrated into Gauteng from a province in South Africa'. However, in the follow up question (Q2.2 From which province did you move into Gauteng?) they indicated that they had moved to Gauteng from another country.
2. Respondents indicating in Q2.1 that they had 'Migrated into Gauteng from another country'. However, in the follow up question (Q2.3 Which country did you move into Gauteng from?) they indicated that they had moved from a province within South Africa.

In both situations, the original response in Q2.1 was changed to correspond with the detailed responses provided in the subsequent questions.

In one instance a respondent noted that they migrated to Gauteng from 'Europe' in Q2.3. This response was removed and marked as a "Fieldwork Error".

5.5 Recoding of Q5.1 Do you access the internet (e.g. a web site, e-mail, Facebook, WhatsApp, WeChat or other app)?

Q5.1 was a multiple response question where options were either selected or not, as appropriate. The data format requires both 'Yes' and 'No' options, thus the options that were not selected were coded as "No"..

5.6 Recoding of Q6.19 Which department/service did you most recently interact with?

Q6.19 was an open ended question that asked respondents who had indicated they had interacted with government in the past 3 months, with which department they had interacted. There were 29 instances where respondents answered 'none' to this question. In these instances their responses to the previous question, Q6.18 (In the last 3 months, have you contacted or visited a government department?) were changed to 'No', and the Q6.19 responses were recoded as 'No response due to skip scenario'. Their verbatim responses were left unchanged.

5.7 Recoding of sub-place codes in Q8.7 and 8.8 (business location and location of business 'supplies')

Various responses that were captured during fieldwork did not align with the StatsSA sub-place list, and thus a number of changes were required to ensure proper alignment. These changes are presented in Table 5. In addition, some instances a mainplace was selected as the location for a business instead of the relevant subplace. To ensure that these variables can be easily mapped using GIS software, these mainplaces were recoded to a subplace within the mainplace which was the most logical position for a business to be located Table 6.

Table 5: Changes that were made to the captured data to ensure alignment with StatsSA sub-place coding

Captured Sub-place name	Recoded Sub-place aligned to StatsSA sub-place codes	StatsSA sub-place code
Bronkhorstspuit Central/CBD	Bronkhorstspuit SP	799072002
Nkangala	Ekgangala SP	799054001
Marlboro	Marlboro Gardens	798013043
Kudung	Midvaal NU	761002002
Movhango	Bophelong SP	760013001
Pennyville	Consolidated Main Reef Gold Mine	798016100
Randburg CBD	Ferndale	798016034
Sandton SP	Sandown	798013045
Villieria	Villieria	799035020
City Deep	City Deep Gold Mine	798015146
Seby	Selby	798015134
Diepkloof	Diepkloof SP	798026040
Olieventbosch	Olievenhoutbos	799078002
Kibler Park	Kibler Park 2	798015221
Marabastad	Asiatic Bazaar	799035057

5.8 Other specify' coding

The questionnaire contained 224 closed ended and 4 open ended questions. In 32 of the closed ended questions contained 'other specify' options where verbatim responses were captured. The verbatim responses were coded back into the original question options where possible, and where not possible the responses remained coded as 'other'. There were a few instances where the response frame was adjusted based on the 'other specify' responses. **Table 7** indicates the total number of 'other specify' options, the number of responses that remained as 'other' after coding and the percentage of verbatim responses that was back-coded to the original response options.

Additional codes were created and added to the response frame where the 'other specify' responses indicated that there was a critical gap in the original response frame. In Q6.19 a new response frame was created based on the range of verbatim responses. Table 8 provides the additional codes that were added to relevant questions.

Q8.4 was an open-ended question in which respondents were asked "What does your business do". The verbatim responses were coded according to the seventh edition of the 'Standard industrial classification of all economic activities' (SIC7) (StatsSA, 2012). The responses were classified according to the first four levels of SIC7, including Section, Division, Group and Class. (For further detail on SIC7 see 'Standard Industrial Classification of all

Table 6: The sub-place name and code allocated to each captured mainplace in Q8.7 and Q8.8

Captured main-place name	Recoded Sub-place	StatsSA sub-place code
Atteridgeville	Atteridgeville SP	799056001
Brakpan	Brakpan CBD	797022005
Daveyton	Daveyton X12	797014001
Diepsloot	Diepsloot SP	798003011
Edenvale	Edenvale SP	797007010
Ekgangala	Ekgangala SP	799054001
Evaton	Evaton Central	760002002
Germiston	Germiston SP	797008043
Hammanskraal	Kanana	799012002
Ivory Park	Ivory Park Ext 6	798006006
Johannesburg	Johannesburg SP	798015089
Krugersdorp	Noordheuwel	763004017
Mabopane	Mabopane SP	799030001
Midrand	Halfway Gardens	798004019
Randburg	Linden	798016055
Sebokeng	Sebokeng Unit 11	760004010
Soweto	Jabulani	798026048
Springs	Nigel SP	797028011
Tembisa	Teaonong	797005021
Tokoza	Radebe	797030009
Vereeniging	Vereeniging Central	760009032
Alberton	Alberton SP	797029001
Derdepoort	Derdepoort AH	799044001
Diepsloot	Diepsloot SP	798003011
Doornfontein	Doornfontein SP	766018001
Duduza	Duduza SP	797027001
Elandsfontein	Western Deep Level South Mine	766020001
Itsoseng	Itsoseng SP	798021001
Kanana	Kanana SP	797034001
Khutsong	Khutsong SP	766003002
KwaThema	Kwa-Thema SP	797023002
Lakeside	Lakeside SP	760003001
Lenasia	Lenasia Ext 1	798028001
Mayibuye	Mayibuye SP	798009001
Olievenhoutbos	Olievenhoutbos	799078002
Phomolong	Phomolong SP	766009001
Ratanda	Ratanda SP	762015004
Soweto	Jabulani	798026048
Tsakane	Tsakane SP	797026002
Winterveld	Winterveld Ext 1	799029002

Table 7: 'Other specify' coding

Question	No. of Verbatim Responses	Remainder left as other	% back-coded to main question
1 - Dwelling type	343	10	97%
1.3 - Dwelling ownership	1274	778	39%
1.4 - Main water source	229	149	35%
1.7 - Type of toilet facility	57	3	95%
1.8 - How is rubbish disposed?	149	16	89%
1.12 - Main energy source for lighting	60	25	58%
3.2 - Biggest problem in community	1284	284	78%
3.3 - What is the most important reason why you live in your suburb	1224	410	67%
3.4 - If you could move in the next year, what type of dwelling would you want to move into?	394	60	85%
4.4 - Type of transport used for most frequent trip:	28	26	7%
5.2 - From where do you access the Internet?	132	20	85%
6.3 - If not, why not vote?	318	149	53%
6.5 - If there is a problem in the area where you live, who do you talk to first to sort it out?	755	581	23%
6.28 - When would you prefer your municipal public meetings to take place?	2361	342	86%
6.59 - Which of the following do you most strongly identify with?	205	174	15%
8.6 - What was the primary source of your start-up capital for your business:	116	49	58%
8.9 - What is the main constraint experienced by your business?	185	148	20%
8.24 - Which sector are you employed in?	1966	203	90%
8.26 - What factor is/was most important to you when you look/looked for a job?	353	147	58%
10.3 - What was the protest about?	241	92	62%
11.3 - What was the main reason you did not start at a clinic?	133	99	26%
11.4 - If not using public healthcare facilities, what is the main reason?	235	165	30%
11.6 - Are you personally covered by medical aid or medical insurance?	179	61	66%
11.8 - Given that you have medical aid cover, why did you use a public health facility?	171	165	4%
11.10 - What was the main reason that they didn't get the healthcare?	70	34	51%
11.13 - What is the biggest health problem facing your community?	1336	428	68%

Table 8: Additional codes included in the response frame, based on 'other specify' options

Question	Additional/New code: Value Number	Additional/New code: value label
Q3.2 What is the biggest problem facing your community? Additional code	29	None/don't know
Q6.19 Which department/service did you most recently interact with? New response frame	1	Clinic / hospital / health services
	2	Court / justice / correctional services
	3	Education
	4	Home affairs
	5	Housing
	6	Labour
	7	Municipal services / billing / customer care centre
	8	None
	9	Police / safety
	10	SARS
	11	SASSA / social grants
	12	Social services / welfare
	12	Traffic dept / licensing / transport
13	Other	
Q6.28 When would you prefer your municipal public meetings to take place? Additional codes	3	Weekend
	4	Saturday
	6	N/A / I don't plan to attend
Q11.13 Let us think about particular health problems that are facing your community. Which ONE health problem do you think is the biggest facing your community? Additional codes	19	None
	20	Don't know

6 Misinterpretation by fieldworkers / respondents

Fieldworkers/respondents provided inappropriate answers to certain instances, where they did not understand the question. These instances include:

- In Q1.9 fieldworkers captured more than one type of electricity source which could not be used in conjunction with each other for example:
 - Electricity with prepaid card
 - Electricity with smart meter
 - Electricity with conventional meter

These errors were kept in the data file. Refer to Appendix 4 for respondents who indicated that they used a conventional meter, as well as a Prepaid Meter or Smart Meter.

- Q12.9 "Is your household registered with your municipality (e.g. on an indigency register) for rates, rebates or for more free/subsidised services like water, electricity, waste etc.?" was misinterpreted by the respondents, which led to an inflated number of 'Yes' responses. It is likely that people misunderstood the question to refer to whether the household was registered with the municipality (e.g. for municipal services)
- Fieldworkers misinterpreted the dwelling type questions. These errors were identified during the post-fieldwork quality assurance processes, which utilised Google Maps' street view function. In some instances the following answers were misinterpreted as 'House, brick or concrete structure on a separate stand':
 - Cluster house in a complex
 - Semi-detached house not in a complex
 - House, flat or room separate from main dwelling in backyard
 - Unit in a retirement home or barracks etc.

The original responses were left unchanged in the data file.

7 Geographic Coordinates

The research instrument (tablet devices) had built in GPS functionality which obtained the coordinates of each successfully completed interview. The questionnaire required the interviewer to capture the GPS location using the automatic functionality at up to four occasions during the interview.

There were instances where inaccurate coordinates were obtained due to the triangulation of the cell phone towers (GSM network), or a loss of signal etc. In other instances, interviews were not conducted at appropriate locations (e.g. taxi ranks, fast food outlets etc.). All interview coordinates were checked against a range of criteria, and those that failed were identified as invalid interviews and were redone. For accepted interviews, the GPS coordinates that were used in the dataset were chosen based on a verification process that ascertained the most accurate coordinate.

8 Weighting

Due to the differences in population sizes, a two-step process of weighting was implemented after the data collection and cleaning processes:

1. Weighting to adjust for the sample design; and
2. Benchmarking to adjust for demographic distribution.

For any probability sample, such as the Quality of Life IV survey, the design weight is first calculated to ensure the sample represents the target population as closely as possible.

Weights are usually developed in different stages to compensate for:

- unequal inclusion probabilities (design weight);
- non-response (substitution in field);
- non-coverage and skewedness resulting from sample design and fieldwork.

After the design weights were calculated, a second phase of weighting was implemented, namely benchmarking. The design weights were benchmarked to adjust for demographics and correct for oversampling. Since some population variables will be over/under sampled, it is necessary to make adjustments to 'reduce' the contribution of the smaller variables and 'increase' the contribution of the larger ones. Adjusting for demographics (ward, race and gender) is necessary because some demographic groups will be over or underrepresented in the sample. Census 2011 results were used as the population demographic frame.

Two sets of weights were applied to the dataset:

1. Weights which reflect the adult population in each Ward. These weights sum to the population total of 8,849,063, which reflects the adult population for Gauteng as per the 2011 Census. This weight is provided as a variable in SPSS: 'Bench_wgt'.
2. The weights calculated for set 1 were proportionally down-scaled to the sample total of 30,002. These weights reflect the adjusted total interviews from the survey. This weight is provided as a variable in SPSS: 'Bench_wgt_30002'. This is the default weight that is applied to the data.

Please refer to the weighting document for more information.

9 Recodes

The following lists provide detail about the composition of the recoded variables that are included in the QoL IV dataset.

9.1 Recodes for categorical responses

9.1.1 Q1 - Dwelling type

Value	Label	Recoded Value	Recoded Label
1	House, brick or concrete structure on a separate stand	1	Formal
2	Traditional dwelling, hut or structure made of traditional materials	3	Other
3	Flat or apartment in a block of flats	1	Formal
4	Cluster house in a complex	1	Formal
5	Townhouse	1	Formal
6	Semi-detached house not in a complex	1	Formal
7	House, flat or room separate from main dwelling in backyard	1	Formal
8	Informal dwelling or shack in backyard	2	Informal
9	Informal dwelling NOT in backyard, e.g. in informal squatter settlement or on a farm	2	Informal
10	Room or flat which is part of main dwelling or property	1	Formal
11	Caravan or tent	3	Other
12	Unit in a retirement home or barracks etc.	1	Formal
13	Hostel	3	Other
14	Other	3	Other

9.1.2 Q2.1 Origin

Value	Label	Recoded Value	Recoded Label
1	Born in Gauteng	1	Born in Gauteng
2	Migrated into Gauteng from a province in South Africa	2	Migrated into Gauteng
3	Migrated into Gauteng from another country	2	Migrated into Gauteng

9.1.3 Q8.17 Employment Status

Value	Label	Recoded Value	Recoded Label
0	No	2	Unemployed
1	Yes	3	Other
1004	No response due to skip scenario	1	Employed

9.2 Q12.1 Education

Value	Label	Recoded Value	Recoded Label
0	No Education	1	No Education
1	Grade 0 or Grade R	2	Primary only
2	Grade 1 or Sub A	2	Primary only
3	Grade 2 or Sub B	2	Primary only
4	Grade 3, Std 1 or L1	2	Primary only
5	Grade 4, Std 2 or L2	2	Primary only
6	Grade 5, Std 3 or L3	2	Primary only
7	Grade 6, Std 4 or L4	2	Primary only
8	Grade 7, Std 5 or L5	2	Primary only
9	Grade 8, Std 6, L6 or Form 1	3	Secondary incomplete
10	Grade 9, Std 7, L7 or Form 11	3	Secondary incomplete
11	Grade 10, Std 8, L8, FIII, NTC 1, or RCE higher	3	Secondary incomplete
12	Grade 11, Std 9 or F IV	3	Secondary incomplete
13	Grade 12, Std 10, Matric	4	Matric
14	A certificate from a college, technikon or university	5	More
15	A diploma from a college, technikon or university	5	More
16	Technikon or university degree	5	More
17	Post graduate degree - e.g. Hons, MA, PhD	5	More
18	Unspecified	6	Unspecified

9.3 Recoding of numeric responses to ranges

9.3.1 Q2.4_Recode: When did you move into Gauteng?

Recoded Value	Ranges	Recoded Label
1	1921 - 1984	Up to 1984
2	1985 - 1994	1985 - 1994
3	1995 - 2004	1995 - 2004
4	2005 - 2009	2005 - 2009
5	2010	2010
6	2011	2011
7	2012	2012
8	2013	2013
9	2014	2014
10	2015	2015
1004		No response due to skip scenario
1005		Fieldwork error

9.3.2 Q8.2 Recode: How old is your business?

Recoded Value	Ranges	Recoded Label
1	0 - 1 year	Up to 1 year
2	2 years	2 years
3	3-4 years	3-4 years
4	5-6 years	5-6 years
5	7-10 years	7-10 years
6	11-15 years	11-15 years
7	16 - 60	16+ years

9.3.3 Q12.3 Recode: Current Age

Recoded Value	Ranges	Recoded Label
1	18-19	18-19
2	20-24	20-24
3	25-29	25-29
4	30-34	30-34
5	35-39	35-39
6	40-44	40-44
7	45-49	45-49
8	50-54	50-54
9	55-59	55-59
10	60-64	60-64
11	65-100	65+

9.3.4 Q12.5 recode: How many people live in this household

Recoded Value	Range	Recoded Label
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7 - 66	7 +

9.3.5 Q12.7 recode: How many household numbers are under 18 years old?

Recoded Value	Ranges	Recoded Label
1	0	0
2	1	1
3	2	2
4	3	3
5	4	4
6	5	5
7	6	6
8	7	7
9	8	8
10	9	9
11	10 - 64	10+

Appendix 1 – Interview length

Please refer to attached Excel Sheet labelled APPENDIX 1.

Appendix 2 – List of variable changes

Sex:

SbjNum	S8 old	S8 new
22317119	-1	Male
22247868	-1	Female
22276901	-1	Female
22273305	-1	Male
22279338	-1	Male
22272394	-1	Female
22250045	-1	Female
22279118	-1	Male
22278314	-1	Male
22250745	-1	Female
22250046	-1	Male
22253989	-1	Male
22228768	-1	Female
22280781	-1	Female
22370053	-1	Female
22318738	-1	Female
22313531	-1	Female
22313276	-1	Male
22313274	-1	Male
22310254	-1	Female
22281425	-1	Male
22281398	-1	Female
22281112	-1	Male
22281008	-1	Male
22280655	-1	Male
22280606	-1	Female
22280543	-1	Female
22280325	-1	Female
22279739	-1	Female
22279287	-1	Female
22279149	-1	Male
22279101	-1	Male
22279028	-1	Female
22278774	-1	Male
22277791	-1	Female
22277673	-1	Female
22277599	-1	Female
22277338	-1	Male

SbjNum	S8 old	S8 new
22277337	-1	Male
22276807	-1	Male
22276509	-1	Female
22276452	-1	Female
22276447	-1	Female
22276280	-1	Male
22276034	-1	Male
22275929	-1	Female
22275921	-1	Male
22275920	-1	Female
22275917	-1	Male
22275908	-1	Female
22275904	-1	Female
22275081	-1	Female
22275068	-1	Male
22275007	-1	Male
22274961	-1	Male
22274827	-1	Female
22274723	-1	Female
22274707	-1	Male
22274262	-1	Male
22274197	-1	Male
22273569	-1	Female
22273415	-1	Female
22273358	-1	Female
22273322	-1	Male
22273156	-1	Male
22273148	-1	Male
22272708	-1	Male
22272386	-1	Female
22272349	-1	Female
22272230	-1	Male
22271982	-1	Female
22271464	-1	Female
22271460	-1	Female
22270794	-1	Male
22269426	-1	Male
22268961	-1	Male
22266583	-1	Female
22266582	-1	Female
22253993	-1	Female
22253070	-1	Male
22252925	-1	Female
22252924	-1	Male

SbjNum	S8 old	S8 new
22252922	-1	Female
22252433	-1	Female
22250842	-1	Male
22250057	-1	Female
22249970	-1	Male
22249707	-1	Female
22249265	-1	Female
22248819	-1	Female
22248727	-1	Female
22248315	-1	Male
22247999	-1	Male
22247906	-1	Female
22247658	-1	Male
22229407	-1	Male
22227910	-1	Female
22226755	-1	Female
22226031	-1	Female
22208495	-1	Female
22200931	-1	Female
22200022	-1	Male
22194311	-1	Male
22273463	-1	Female
22252923	-1	Male
22280203	-1	Male
22277453	-1	Male
22276218	-1	Male
22303132	-1	Male
22276765	-1	Female
22252985	-1	Female
22277812	-1	Male
22276182	-1	Female
22272327	-1	Female
22250744	-1	Female
22250058	-1	Female
22274949	-1	Female
22272651	-1	Male
22248758	-1	Male
22194934	-1	Female
22274704	-1	Male
22248505	-1	Female
22265012	-1	Female
22272474	-1	Female
22306197	-1	Female
22513875	-1	Female

SbjNum	S8 old	S8 new
22276203	-1	Female
22276313	-1	Male
22250043	-1	Female
22276328	-1	Male
22277926	-1	Female
22277326	-1	Male
22276060	-1	Female
22276055	-1	Female
22274826	-1	Female
22274782	-1	Female
22272982	-1	Female
22272425	-1	Female
22254010	-1	Female
22252734	-1	Female
22250938	-1	Female
22248750	-1	Female
22248720	-1	Male
22313270	-1	Male
22282470	-1	Male
22278192	-1	Female
22275147	-1	Male
22275274	-1	Female
22276127	-1	Female
22273591	-1	Female
22253990	-1	Male
22282274	-1	Female
22278091	-1	Female
22273069	-1	Male
22251393	-1	Female
22250276	-1	Female
22198123	-1	Male
22277306	-1	Female
22273548	-1	Male
22278959	-1	Male
22275671	-1	Female
22275099	-1	Female
22248662	-1	Female
22248123	-1	Male
22369920	-1	Female
22250059	-1	Female
22248631	-1	Male
22231236	-1	Male
22249234	-1	Female
22254011	-1	Female

SbjNum	S8 old	S8 new
22270700	-1	Female
22276453	-1	Male
22247656	-1	Female
22274651	-1	Female
22280812	-1	Male
22277789	-1	Male
22277409	-1	Female
22276570	-1	Male
22276392	-1	Female
22276367	-1	Male
22275040	-1	Male
22274048	-1	Female
22271683	-1	Female
22271560	-1	Female
22247745	-1	Female
22313273	-1	Female
22313271	-1	Female
22280971	-1	Female
22272137	-1	Female
22266586	-1	Female
22247657	-1	Female
22277003	-1	Male
22272329	-1	Female
22313272	-1	Female
22253992	-1	Male
22253991	-1	Female
22277451	-1	Male
22278922	-1	Female
22249420	-1	Female
22202239	-1	Female
22197893	-1	Female
22275092	-1	Female
22276549	-1	Female
22275580	-1	Male
22273382	-1	Male
22275048	-1	Female
22228337	-1	Female
22281111	-1	Female
22276265	-1	Female
22271518	-1	Female
22270826	-1	Female
22280536	-1	Male
22273635	-1	Female
22272603	-1	Female

SbjNum	S8 old	S8 new
22277903	-1	Female

Age:

SbjNum	Q12.3 old	Q12.3 New
22317119	-1	33
21946249	0	34
22247868	-1	35
22276901	-1	29
22273305	-1	30
22279338	-1	46
24520971	0	35
22272394	-1	25
21949041	0	22
21950350	0	40
21883998	0	25
21941066	0	29
22250045	-1	39
22278314	-1	42
22250745	-1	25
22250046	-1	39
22253989	-1	32
22228768	-1	29
21954315	0	43
24651255	0	51
23460037	0	58
23243874	0	31
22370053	-1	26
22318738	-1	20
22313531	-1	38
22313276	-1	36
22313274	-1	35
22310254	-1	35
22281425	-1	19
22281112	-1	76
22281008	-1	48
22280655	-1	39
22280606	-1	53
22280543	-1	48
22280325	-1	22
22279739	-1	40
22279287	-1	31
22279101	-1	28
22279028	-1	67

22278774	-1	58
22277791	-1	20
22277673	-1	41
22277599	-1	79
22277338	-1	63
22277337	-1	34
22276807	-1	50
22276509	-1	84
22276452	-1	45
22276447	-1	40
22276034	-1	35
22275929	-1	59
22275921	-1	35
22275920	-1	28
22275917	-1	54
22275904	-1	27
22275081	-1	35
22275068	-1	54
22275007	-1	19
22274961	-1	43
22274827	-1	41
22274723	-1	49
22274707	-1	29
22274262	-1	32
22274197	-1	32
22273415	-1	70
22273358	-1	28
22273322	-1	73
22273156	-1	34
22272708	-1	23
22272386	-1	25
22272349	-1	36
22272230	-1	53
22271982	-1	41
22271464	-1	63
22271460	-1	28
22270794	-1	41
22269426	-1	26
22268961	-1	21
22266583	-1	37
22266582	-1	62
22253993	-1	39
22253070	-1	38
22252925	-1	28
22252924	-1	30

22252922	-1	30
22252433	-1	36
22250842	-1	35
22250057	-1	41
22249970	-1	29
22249707	-1	22
22249265	-1	41
22248819	-1	25
22248727	-1	41
22248315	-1	25
22247999	-1	42
22247906	-1	19
22247658	-1	24
22229407	-1	24
22227910	-1	35
22226755	-1	22
22226031	-1	31
22208495	-1	43
22200931	-1	37
22200022	-1	35
22194311	-1	39
21983234	0	86
21976393	0	59
21954868	0	22
21953868	0	46
21952763	0	39
21952490	0	25
21952253	0	22
21952135	0	24
21950819	0	69
21950792	0	43
21949862	0	32
21949708	0	37
21948184	0	32
21948183	0	67
21947836	0	65
21947669	0	73
21946215	0	46
21945876	0	57
21945415	0	55
21943743	0	38
21943107	0	31
21942693	0	38
21938326	0	38
21917378	0	54

21914440	0	50
21913731	0	19
21913063	0	38
21911951	0	31
21911930	0	32
21911294	0	26
21910279	0	94
21909815	0	65
21907774	0	49
21906143	0	21
21885558	0	24
21883046	0	48
21882094	0	38
21879199	0	57
21876853	0	73
21876399	0	85
21875231	0	29
22273463	-1	45
22252923	-1	30
22280203	-1	24
22277453	-1	27
22303132	-1	42
21920267	0	35
21839101	0	35
22276765	-1	29
21951498	0	45
21884065	0	32
22252985	-1	30
21851899	0	30
21919518	0	31
22277812	-1	36
21946687	0	37
22276182	-1	35
22272327	-1	62
21918852	0	20
21912437	0	61
22250744	-1	33
22250058	-1	35
22274949	-1	45
22272651	-1	48
22248758	-1	39
22194934	-1	38
22274704	-1	24
22248505	-1	40
22265012	-1	65

21947581	0	27
22272474	-1	52
22306197	-1	31
22513875	-1	31
22276203	-1	83
22276313	-1	60
22250043	-1	60
22276328	-1	48
21943799	0	58
22277926	-1	73
22277326	-1	44
22276060	-1	62
22276055	-1	35
22274826	-1	30
22272982	-1	27
22254010	-1	25
22252734	-1	29
22250938	-1	25
22248750	-1	25
22248720	-1	31
21908004	0	47
21907164	0	31
21893552	0	32
21876352	0	66
22313270	-1	33
22282470	-1	23
22278192	-1	55
22275147	-1	48
21948116	0	60
21918181	0	79
22275274	-1	25
22276127	-1	63
21877087	0	73
22273591	-1	23
22253990	-1	35
21954510	0	39
22013869	0	71
22282274	-1	30
22276323	-1	65
22278091	-1	37
21907761	0	58
22273069	-1	22
21909172	0	60
22251393	-1	20
22250276	-1	60

21944459	0	34
21882608	0	24
21879306	0	62
22198123	-1	38
22277306	-1	58
22273548	-1	34
21912626	0	76
22278959	-1	34
22275671	-1	35
22275099	-1	42
22248662	-1	23
22248123	-1	30
22369920	-1	45
22250059	-1	40
22248631	-1	27
22231236	-1	58
22249234	-1	42
21910465	0	23
22254011	-1	23
22270700	-1	26
21918964	0	56
22276453	-1	27
22247656	-1	30
21917875	0	49
22274651	-1	37
22407321	0	46
22280812	-1	41
22277789	-1	73
22277409	-1	32
22276570	-1	35
22276392	-1	72
22276367	-1	27
22275040	-1	21
22274048	-1	32
22271683	-1	59
22271560	-1	36
22247745	-1	73
21952313	0	25
21944230	0	63
21941823	0	25
22313273	-1	68
22313271	-1	26
22280971	-1	26
22272137	-1	36
22266586	-1	22

22247657	-1	42
21908798	0	73
21879668	0	31
22277003	-1	82
22272329	-1	79
22153533	0	26
21888278	0	50
22313272	-1	35
22253992	-1	40
22253991	-1	31
23889619	0	36
22278922	-1	86
22249420	-1	28
22202239	-1	25
22197893	-1	39
22275092	-1	43
22276549	-1	40
22275580	-1	59
22273382	-1	30
22275048	-1	72
22228337	-1	39
22281111	-1	20
22276265	-1	48
21949155	0	37
22271518	-1	42
21950330	0	66
22270826	-1	26
21952122	0	40
22280536	-1	30
22273635	-1	38
22352977	-1	66
22272603	-1	63
22277903	-1	32

Age: corrections from call backs

SbjNum	Original Age	Updated Age
21873152	25	27
21873475	61	55
21873801	43	47
21882252	56	58
21885626	56	59
21904259	27	29
21914621	32	36
21916215	37	34
21918229	26	22
21920114	30	32
21921570	48	53
21944422	55	60
21945725	23	27
21946876	72	74
21947061	22	24
21947960	41	36
21949535	21	26
21950465	49	55
21952159	36	42
21954920	56	54
21955307	21	25
21977781	35	31
21981094	23	27
21982293	29	33
21987581	30	28
22007717	32	30
22007925	45	48
22010239	73	67
22010479	67	69
22010738	23	27
22012117	45	40
22012315	53	50
22012535	22	19
22013941	33	28
22033350	22	18
22033798	35	37
22034420	44	40
22035487	32	34
22035953	40	35
22035974	20	23
22038023	28	25

22055122	47	52
22055123	59	54
22056001	51	45
22056909	36	38
22057704	38	40
22058075	63	69
22058569	24	26
22058636	33	30
22058989	31	29
22061312	30	32
22062647	32	29
22063293	42	40
22096096	26	21
22097590	30	34
22099544	30	32
22099665	34	28
22119851	35	39
22157548	26	24
22169908	38	34
22246338	23	27
22306075	34	28
22306962	33	38
22336812	43	40
22341079	69	64
22343848	23	29
22344487	28	32

Appendix 3 – Electricity changes

SbjNum	Q1.10 Updated	Q1.10 Original
22090609	No response due to skip scenario	Satisfied
24299689	No response due to skip scenario	Satisfied
23110902	No response due to skip scenario	Very satisfied
22596374	No response due to skip scenario	Satisfied
22587996	No response due to skip scenario	Very satisfied
22560353	No response due to skip scenario	Dissatisfied
22456164	No response due to skip scenario	Satisfied
22338680	No response due to skip scenario	Satisfied
22314687	No response due to skip scenario	Dissatisfied
22276052	No response due to skip scenario	Very satisfied
22255250	No response due to skip scenario	Satisfied
22125272	No response due to skip scenario	Satisfied
22058636	No response due to skip scenario	Very satisfied
22057314	No response due to skip scenario	Satisfied
22032098	No response due to skip scenario	Very satisfied
21984747	No response due to skip scenario	Very satisfied
21871937	No response due to skip scenario	Very satisfied
22122470	No response due to skip scenario	Neither satisfied nor dissatisfied
22554484	No response due to skip scenario	Satisfied
22092968	No response due to skip scenario	Very satisfied
22056909	No response due to skip scenario	Dissatisfied
24258504	No response due to skip scenario	Very satisfied
22556203	No response due to skip scenario	Satisfied
22407322	No response due to skip scenario	Satisfied
22588957	No response due to skip scenario	Satisfied
22514299	No response due to skip scenario	Neither satisfied nor dissatisfied
22906983	No response due to skip scenario	Satisfied
24084412	No response due to skip scenario	Satisfied
22791811	No response due to skip scenario	Satisfied
22624470	No response due to skip scenario	Satisfied
24658079	No response due to skip scenario	Very satisfied
22056123	No response due to skip scenario	Satisfied
22438244	No response due to skip scenario	Satisfied
21885626	No response due to skip scenario	Dissatisfied
24083686	No response due to skip scenario	Satisfied
22484228	No response due to skip scenario	Dissatisfied
24259119	No response due to skip scenario	Satisfied

Appendix 4 – Electricity meters

SbjNum	1.9_1 - Type of electricity supply: Electricity with prepaid card	1.9_2 - Type of electricity supply: Electricity with smart meter	1.9_3 - Type of electricity supply: Electricity with conventional meter
24021134	Yes	No	Yes
29894049	Yes	No	Yes
25718619	Yes	Yes	Yes
25714504	Yes	Yes	Yes
25039933	Yes	Yes	Yes
24349483	Yes	No	Yes
24020770	Yes	No	Yes
22034801	Yes	No	Yes
24216339	Yes	Yes	Yes
24850650	Yes	Yes	Yes
31436682	Yes	Yes	Yes
31395922	Yes	Yes	Yes
31276765	Yes	Yes	Yes
31276764	Yes	Yes	Yes
30461474	Yes	No	Yes
30458001	No	Yes	Yes
29566014	Yes	Yes	Yes
29509269	Yes	Yes	Yes
29264808	Yes	No	Yes
29264807	Yes	No	Yes
29264702	Yes	No	Yes
29236104	Yes	No	Yes
29234537	Yes	No	Yes
29233454	Yes	No	Yes
29231741	Yes	No	Yes
29178364	Yes	No	Yes
29130910	Yes	No	Yes
29128496	Yes	No	Yes
29013998	Yes	No	Yes
29010408	Yes	No	Yes
26936145	Yes	No	Yes

25716236	Yes	Yes	Yes
25478383	Yes	No	Yes
25368971	No	Yes	Yes
25334743	No	Yes	Yes
25333073	No	Yes	Yes
25299718	No	Yes	Yes
25298671	No	Yes	Yes
25297118	No	Yes	Yes
25296152	No	Yes	Yes
25295749	No	Yes	Yes
25291882	No	Yes	Yes
25290976	No	Yes	Yes
25204094	No	Yes	Yes
25162495	No	Yes	Yes
25138277	Yes	Yes	Yes
25129218	Yes	No	Yes
25126925	Yes	No	Yes
25125791	No	Yes	Yes
25121206	No	Yes	Yes
25119676	No	Yes	Yes
25118114	No	Yes	Yes
25116994	No	Yes	Yes
25077248	No	Yes	Yes
25076171	No	Yes	Yes
25074802	Yes	Yes	Yes
25055342	Yes	Yes	Yes
25047130	Yes	Yes	Yes
25035933	Yes	Yes	Yes
25035902	No	Yes	Yes
24976167	No	Yes	Yes
24973847	No	Yes	Yes
24972929	No	Yes	Yes
24803702	Yes	Yes	Yes
24760697	Yes	Yes	Yes
24738987	Yes	No	Yes
24738986	Yes	No	Yes

24583143	Yes	No	Yes
24489980	Yes	No	Yes
24481905	No	Yes	Yes
24448422	No	Yes	Yes
24386125	Yes	No	Yes
24386123	No	Yes	Yes
24309038	Yes	Yes	Yes
24259637	Yes	Yes	Yes
24259515	Yes	No	Yes
24256857	Yes	Yes	Yes
23983711	Yes	Yes	Yes
23978303	Yes	Yes	Yes
23977124	Yes	No	Yes
23949389	Yes	No	Yes
23866642	Yes	No	Yes
23836884	Yes	No	Yes
23833953	Yes	No	Yes
23825332	Yes	No	Yes
23824144	Yes	No	Yes
23796713	Yes	No	Yes
23747597	Yes	No	Yes
23746551	Yes	No	Yes
23729802	Yes	No	Yes
23729799	Yes	No	Yes
23717968	Yes	No	Yes
23658066	Yes	No	Yes
23622548	Yes	No	Yes
23563020	Yes	No	Yes
23544164	Yes	No	Yes
23534593	No	Yes	Yes
23528278	Yes	No	Yes
23499320	Yes	No	Yes
23459148	Yes	No	Yes
23433899	Yes	No	Yes
23426288	Yes	No	Yes
23423424	Yes	No	Yes

23420043	Yes	No	Yes
23418757	Yes	No	Yes
23394503	Yes	No	Yes
23392214	Yes	No	Yes
23386872	Yes	No	Yes
23385323	Yes	No	Yes
23303659	Yes	No	Yes
23299669	Yes	No	Yes
23297940	Yes	No	Yes
23275528	Yes	No	Yes
23267539	Yes	No	Yes
23266410	Yes	No	Yes
23266178	Yes	No	Yes
23264068	Yes	No	Yes
23245058	Yes	No	Yes
23240903	Yes	No	Yes
23237572	Yes	No	Yes
23177832	Yes	No	Yes
23094503	Yes	No	Yes
23036949	Yes	No	Yes
22794826	Yes	No	Yes
22747462	Yes	No	Yes
22307188	Yes	No	Yes
22305312	Yes	No	Yes
22273148	Yes	No	Yes
22162889	Yes	No	Yes
22031815	Yes	No	Yes
23729803	Yes	No	Yes
24297295	Yes	Yes	Yes
29951116	No	Yes	Yes
23026761	Yes	No	Yes
23685325	Yes	No	Yes
23617586	Yes	No	Yes
23241826	Yes	No	Yes
23976319	No	Yes	Yes
23529332	Yes	No	Yes

23265294	Yes	No	Yes
23421411	Yes	No	Yes
23503080	Yes	No	Yes
23896379	Yes	Yes	Yes
23135682	No	Yes	Yes
22827014	Yes	No	Yes
31391491	Yes	No	Yes
31388027	Yes	No	Yes
23566039	Yes	No	Yes
23653509	Yes	No	Yes
23647717	Yes	No	Yes
24258476	No	Yes	Yes
23869827	Yes	No	Yes
24425934	Yes	No	Yes
23626586	No	Yes	Yes
31419767	Yes	No	Yes
25685830	Yes	No	Yes
24483183	Yes	No	Yes
21974599	Yes	No	Yes
24088232	Yes	Yes	Yes
25407346	Yes	No	Yes
25478382	No	Yes	Yes
23855166	Yes	No	Yes
22171263	Yes	No	Yes
23264707	Yes	No	Yes
22993386	Yes	No	Yes
23665937	Yes	Yes	Yes
23667312	Yes	Yes	Yes
29197339	Yes	No	Yes
24424807	Yes	No	Yes
24266534	Yes	No	Yes
31393717	Yes	No	Yes
24489296	Yes	No	Yes
23752145	No	Yes	Yes
31438378	Yes	No	Yes
24381143	Yes	No	Yes

24861239	Yes	No	Yes
23464896	Yes	No	Yes
23896380	Yes	Yes	Yes
24484415	Yes	No	Yes
22623035	Yes	No	Yes
23752526	Yes	No	Yes
23683721	Yes	No	Yes
22011928	No	Yes	Yes