IN THE EQUALITY HIGH COURT (HIGH COURT, CAPE TOWN)

Case No.: Equality Court 3/2016

In the application of:

SOCIAL JUSTICE COALITION

EQUAL EDUCATION

NYANGA COMMUNITY POLICING FORUM

and

MINISTER OF POLICE

NATIONAL COMMISSIONER OF POLICE

WESTERN CAPE POLICE COMMISSIONER

MINISTER FOR COMMUNITY SAFETY, WESTERN CAPE

and

WOMEN'S LEGAL CENTRE TRUST

ANSWERING AFFIDAVIT OF MATHAPAMA JACK MAKGATO FILED ON BEHALF OF THE FIRST, SECOND AND THIRD RESPONDENTS

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I, the undersigned,

MATHAPAMA JACK MAKGATO

do hereby make oath and state that:

- 1. I am an adult male police officer and a Major General in the employ of the South African Police Service "the SAPS" stationed at the SAPS head office in Pretoria in the Component Head: Organisational Development. I have been in the Organisational Development component of the SAPS since 1992 and the head thereof since 2011. I am duly authorised to depose to this affidavit on behalf of the first, second and third respondents.
- 2. The contents of this affidavit are true and correct and unless otherwise indicated or clear from the context, fall within my personal knowledge. Where I rely on information provided to me by others, I indicate the source and verily believe such information to be correct and true. Where I make legal submissions I do so on the basis of advice given to me by my legal representatives, which advice I believe to be reliable and correct.
- 3. The powers, functions and duties of the National Commissioner of Police are regulated in Chapter 5 of the South African Police Service Act, No. 68 of 1995 ("the SAPS Act"). The Organisational Development component performs delegated functions in terms of sections 11 and 12 of of the SAPS Act;

- 4. My functions, responsibilities and key performance areas as the Component Head: Organisational Development include the following:
 - 4.1. performing organisational design: restructuring, functional design and post restructuring. These functions are collectively referred to as organisational design. Organisational development is broader as the further contents of this paragraph illustrate, and include:
 - 4.2. managing the SAPS staff establishment and performing job evaluations;
 - 4.3. managing and developing organisational procedures and method studies (business process re-engineering);
 - 4.4. managing and maintaining SAPS organisational development policies at national, provincial and local level (including organisational design for police station, determination of national standards on the staff establishment, post requirements and the establishment of new services);
 - 4.5. the functions delineated in paragraphs 4.1 to 4.4 above constitute the primary functions of the Organisational Development component performed pursuant to sections 11(2)(b) to (f) of the SAPS Act, whereas the functions set forth below are secondary and flow from sections 12(2) and (3) thereof;
 - 4.6. developing national standards and providing guidance on how the organisational development in the provinces should execute the

functions above. I further conduct quality control of the works that they perform. When provinces have done their work, they submit reports on compliance, due diligence and authenticity;

- 4.7. I deal and assist with requests from provinces relating to establishment of new policing services in the middle of a financial year. This could be a new police station, a satellite or contact police point or the specialised units. My assistance would also be used to implement the newly established serving points in the existing financial year within the existing resources. I use the information on newly established serving points to plan for the financial adjustments in the next year;
- 4.8. my component conducts sample quality controls at <u>all</u> police stations as it relates to the Theoretical Human Resources Requirements ("the THRR") which is annexed to Major General Leon Rabie's ("General Rabie") affidavit. There are currently 1143 police stations nationally. On average the component does quality controls at 379 police stations per annum. This is across all nine provinces;
- 4.9. based on the information that the Organisational Development component collects through the input management sheets, coupled with that collected from the quality control process, I assess whether there are any stations that require upgrading or an adjustment of resources. For example a station may be upgraded from a colonel station to a brigadier station which may result in a greater allocation of police resources to it. Once this decision is taken, I would then present a

memorandum to the SAPS' management for consideration and action. My recommendations are just that, and may not necessarily be accepted.

- 5. The purpose of this affidavit is to address the allegations made in the affidavit of Ms Jean Redpath ("Redpath"). I have read the affidavit of General Rabie and confirm that the contents thereof are true and correct in so far as they relate to me, the Organisational Development component of the SAPS, the THRR and its implementation in the resource allocation process. General Rabie was based in my component and reported to me. He gave evidence on behalf of the SAPS at the Khayelitsha Commission ("the Commission" or "the Khayelitsha Commission").
- 6. I do not propose traversing all the allegations raised in the application since, I am advised that other deponents have done so. However, and in so far as any averment made by the applicants has not been disputed, but is inconsistent with the first, second and third respondents' case, such averments should be construed as though denied.

REDPATH LACKS THE REQUISITE EXPERTISE

7. The primary purpose of this affidavit is to respond to the theory of Redpath. Redpath testified as an expert at the Khayelitsha Commission. Her views are advanced in these proceedings as though they reflect a unique expertise on the subject of organisational development strategies for public entities like the SAPS. The affidavit of Redpath has been filed as that of an expert allegedly on



the proper methods that should be utilised by the SAPS to allocate resources in a manner that enables the police to perform their constitutional functions.

I dispute that Redpath is an expert on the subject of organisational 8. development in the SAPS, more particularly on the critical issue central to the functioning of the SAPS - which is how human resources should be allocated in the SAPS. Other than being asked to examine the data of the SAPS and to make certain observations, she has neither independently researched nor written anything on the subject of human resource allocation in the SAPS. She qualifies herself as an expert by virtue of being a researcher at the University of the Western Cape's Dullah Omar Institute and a holder of a Bachelor's degree in science, having majored in chemistry and mathematics and a Bachelor of Laws degree. She is an admitted attorney of the High Court who has worked as a researcher in the criminal justice sector from 1999. There is nothing in her academic qualifications that qualifies her as an expert on organisational development or human resource allocation or even on policing. Furthermore, there is nothing in her research profile that distinguishes her as an expert on the subject of human resource development or more specifically on human resource allocation strategies or systems within the SAPS. There is also nothing in her work experience that qualifies her as an expert on the subject of human resource allocation for the policing sector. On this basis alone, I respectfully aver that Redpath lacks the requisite skill and expertise to address the issues that form the subject of her affidavit. Moreover, her theory is based on outdated statistics gathered during the Khayelitsha Commission. There have been fundamental shifts in policing in a number of provinces, including the



Western Cape, and the report of Redpath is to all intends and purposes valueless. It should properly be disregarded and struck from the record.

- 9. By contrast, I have worked in the SAPS Organisational Development component since 1991 and as head thereof since 2011. Not only do I have theoretical experience in matters involving organisational development, I have practised in this field within the SAPS for more than twenty six years. For five of those twenty six years I have been the head of the Organisational Development component and have been at the forefront of the changes in improved policing since then. This is an ongoing and evolving situation and is mirrored within the SAPS itself which is also subject to continuous changes and improvement.
- 10. Prior to joining the SAPS and since 1987 I was a practitioner in Organisational Development in the Department of Education. I am familiar with the principles that govern the determination of human resource requirements for a structured police service. I have a team of experienced organisational practitioners both at national and provincial level who have extensive experience in policing in different capacities.

REDPATH DOES NOT PROPOSE ANY VIABLE SOLUTION OR WORKABLE MODEL

11. The criticisms made by Redpath demonstrate an impoverished understanding of the functioning of the police service and how police resources are deployed by the national office to provinces, and then by the provincial management to the police stations within that province.

- 12. Redpath provides no viable solutions that can be used to address the difficulties of allocating policing resources in a manner that could improve policing. There is no discernable formula proposed by her that could be employed to improve on the method utilised by the national office and in the provincial offices. Without in any way derogating from the aforegoing, I point out:
 - 12.1. her criticisms have no value in determining the human resource requirements for the SAPS;
 - 12.2. SAPS functions on a number of levels and the multi-faceted approach to policing in the provinces were not considered;
 - 12.3. environmental factors such as distances citizens to police stations, poor or non-existent road infrastructure, limited police infrastructure to perform policing functions, the challenges posed by informal settlements, lack of telecommunication facilities, no electrification, etc are ignored. Notably, I've mentioned only a few of the factors that inhibit policing. There are many more;
 - 12.4. she furthermore failed to consider other important factors such as taking demographic changes into account, population trends, business trends, socio-economic trends, etc. it is important to emphasise that demographics vary constantly and are affected by a number of factors such as births, deaths, disasters, migration, etc. There are also global influences on the movement of goods and people and the police have to be alert and proactive/reactive to these phenomena. This is one of the

reasons that analysis of crime trends and patterns are of utmost importance in policing;

- 12.5. contingencies were excluded and the allocation policy that she proposes thus omits a critical component in resource allocation;
- 12.6. she excluded time studies and the theoretical manning of police stations;
- 12.7. she appears to labour under a fundamental misconception that the methods of allocation should simply take population numbers and crime trends into account;
- 12.8. she furthermore places too much emphasis on murder when section 205(3) of The Constitution of the Republic of South Africa, 1996 ("the Constitution") enjoins the police inter alia to police all crime;
- 12.9. it is not difficult to realise why Redpath has narrowed her focus on population and crime trends with emphasis on murder while ignoring the purpose, scope and value of the details provided in the allocation process of the SAPS;
- 12.10.her views have been formulated on the basis of a primary misconception that the allocation of government resources may be made with reference to population and crime trends with emphasis on murder;
- 12.11.she has ignored the fact that the detailed and precise factors relied on by the SAPS to determine estimates are in themselves a measure of police effectiveness and responsiveness;

- 12.12.policing is not restricted to murder and violent crimes <u>all</u> crimes are policed and this is done either proactively or reactively. Crime prevention forms an important component of policing;
- 12.13.the numerous and constantly evolving variables taken into account when allocating police resources is simply disregarded in Redpath's theory;
- 12.14.her approach demonstrates the dangers when someone who is clearly not an expert advances theories which are unworkable.
- 13. Importantly, Redpath concedes that her views are just that, not expert views formulated from any experience in the field of budgeting and resource allocation in accordance therewith.
- 14. Redpath's approach is unhelpful because it has no value in determining human resource requirements. It does not provide a benchmark for determining human resource requirements in a manner that promotes accountability in the resources of the SAPS. Redpath contends that police allocations should primarily be based on the population size. This demonstrates her lack of understanding and appreciation of the complexities of policing. By way of example, Statistics SA's Mid-year Population Estimates: 2016, which is annexed hereto as "MJM1" estimates that 11.3 percent of South Africa's total population resides in the Western Cape, while 10.4 percent of the population resides in Limpopo Province. Based on the various factors considered by the SAPS when allocating police, including the crime rates, the Western Cape is granted a significantly larger contingency than other provinces. Thus, whereas the population size of Limpopo and the Western Cape are similar, Limpopo is

only allocated approximately half the police force compared to the Western Cape. If the SAPS were to rigidly enforce the population: police ratio without considering other factors, this would be highly irrational as approximately half the current force in the Western Cape would have to be deployed to Limpopo, whereas the crime in the Western Cape is higher. Moreover, given the practical reality of budget constraints to fund posts, the population: police ratio suggested by Redpath is untenable. In any event, a large population is not necessarily indicative of high crime rates in that population and *vice versa*.

THE ALLOCATION PROCESS

- 15. Before I deal with the theoretical foundations of human resource development in the SAPS, I wish to address an unfortunate observation made in the report of the Khayelitsha Commission that equates the system of allocating police resources with that of the apartheid regime. Those conclusions, I respectfully aver, fail to have proper regard to the process that informs the allocation of police resources in a democratic South Africa. The primary legal instrument mandating the SAPS to allocate police resources is the Constitution, particularly sections 198, 199, 205, 206 and 207 read together with the SAPS Act. These provisions must be read together with Chapter 10 of the Constitution and the Public Finance Management, No. Act 1 of 1999 ("the PFMA").
- 16. At the hearing of this application, the relevance of these statutory provisions will be addressed in detail. Suffice to state that the system of allocating resources



within the SAPS must comply with the legal framework established for the SAPS.

- 17. The <u>first</u> principle is that the SAPS is a single national police service as required in terms of section 199 of the Constitution. It must be structured and regulated by national legislation the SAPS Act in this case. Given the practical reality of budgetary constraints to fund posts, the population: police ratio suggested by Redpath is fundamentally defective. It must be structured to function in the national, provincial and where appropriate, local spheres of government.
- 18. The primary objective of the allocation system is to ensure that the SAPS is able to fulfil its constitutional duty which is set out in section 205(3) of the Constitution "to prevent, combat and investigate crime, to maintain public order, to protect and secure the inhabitants of the Republic and their property and to uphold the law." Section 11(2) of the SAPS Act specifically gives the National Commissioner the power to:
 - 18.1. develop a plan before the end of each financial year, setting out the priorities and objectives of policing for the following financial year;
 - 18.2. determine the fixed establishment of the service and the number and grading of posts;
 - 18.3. determine the distribution of the numerical strength of the service after consultation with the board;

- 18.4. organise or reorganise the service at national level into various components, units or groups;
- 18.5. establish and maintain training institutions or centres for the training of students and other members;
- 18.6. establish and maintain bureaus, depots, quarters, workshops or any other institution of any nature whatsoever, which may be expedient for the general management, control and maintenance of the service; and
- 18.7. perform any legal act or act in any legal capacity on behalf of the service.
- 19. Section 12 of the SAPS Act gives the Provincial Commissioners the power to command and control the SAPS in the province under his or her control, and to exercise the powers and perform the duties and functions necessary to give effect to section 205(3) of the Constitution. Pursuant thereto, the Provincial Commissioner may establish and maintain police stations and units in the province and determine the boundaries of stations or unit areas. A Provincial Commissioner shall determine the distribution of the strength of the SAPS under his or her jurisdiction in the province amongst the different areas, station areas, offices and units.
- 20. The resource allocation and distribution responsibilities in the SAPS vest in the National Commissioner and the Provincial Commissioners respectively. The Minister has extensive powers to make regulations governing various aspects of the SAPS, including the general management, control and maintenance thereof.

- In 1994, when the Constitution was adopted, the culture of policing changed to reflect the values and principles of the Constitution. The SAPS became critical players in ensuring that policing was done to comply with the new democratic system. Prior to 1995, South Africa was divided into the so-called TBVC states, self-governing territories and development regions. The TBVC states had independent status and were recognised as such, and together with selfgoverning territories were referred to as homelands. Every homeland had its own police force. Each police agency determined its own resource allocation. The number of policing agencies in the country in 1994 was eleven. They were different in many respects, including their policing culture and ethos, and followed different legislation. These homeland police services were subsequently abolished and amalgamated into the SAPS to function within the nine established provinces. The Constitution established a single police service which had to be structured to operate within these nine provinces.
- 22. The amalgamation of the different police agencies was a difficult task that was compounded by socio-economic and political factors including an influx of people from predominantly rural areas to urban areas. After 1994, the SAPS identified a need to develop a resourcing strategy that would meet the policing demands of the time. It developed the Human Resource Plan, called "Die Mannekrag Plan".
- 23. In order to introduce a rational system to determine the human resource requirements of the SAPS, the Organisational Development component followed a systematic development process in which the following phases were followed:

- 23.1. phase 1 was the formalisation of the concept in 1998/1999 and the Resource Allocation Guide ("the RAG") was used as a starting point. The RAG was designed after a consultative process within the SAPS and as part of the scoping process, policing models used in foreign jurisdictions were consulted;
- 23.2. phase 2 was the design and testing phase. This was done with the assistance of Dr Eugene van Vuuren whose report is attached to General Rabie's affidavit. As part of Dr van Vuuren's mandate, he considered policing models abroad and did extensive research on whether it was viable for the SAPS. At that stage the product devised by my component was known as the RAG. As part of the SAPS' ongoing attempt to improve policing services in the Republic, in about 2004/5 the RAG became the Resource Establishment Plan ("the REP"). An analysis was conducted of inputs of requirements and the SAPS continued to implement it as a work in progress. It was changed several times due to the need for enhancement. It was presented regularly and annually at police management meetings and to the Portfolio Committee on Police, as well as the Civilian Secretariat for the Police:
- 23.3. phase 3: Implementation in about 2011/2012 and more variables were added as adjustments were made. At the time the REP was used by SAPS to determine post levels at police stations whereas, other government departments used the Job Evaluation system called "EQUATE" to determine post levels. The REP later became the Theoretical Human Resource Requirement (THRR) which is an

enhancement of the earlier models (the RAG and the REP). As with the previous models, the THRR also had to be linked to the budget allocation. That linkage with the budget allocation accounts for the fixed establishment of the SAPS. My component is currently working within the prescripts of phase 3 which is constantly being scrutinized, evaluated and revised in order to enhance policing. There are a number of stakeholders who play a role in this process, including the public, the Community Police Fora ("the CPFs"), other law enforcement agencies, both locally and abroad as well as other state departments;

- 23.4. phase 4 which is a monitoring and evaluation phase has not yet begun but is in any event dependent on the outcomes yielded by phase 3.
- 24. The THRR was developed to enable the National Commissioner to meet his or her statutory responsibilities which includes allocating human resources. Contrary to the allegation that the allocation system produces the results of apartheid policing, the THRR was specifically designed to give the National Commissioner a system of allocating resources that promotes accountability and transparency in the resource allocation process.
- 25. The THRR is an in-house technology based solution for the determination of the minimum number and level of posts for police stations given the minimum standards. The THRR utilises various determinants including population, socio-economic factors and migration. None of the determinants use discriminatory elements. From these determinants, police management approves the different categories of police stations.

26. These are as follows:

SALARY RANGE	CATEGORY	ALLOCATION	
		LOWER LIMIT	UPPER LIMIT
CAPTAIN	А	Lower	90
LIEUTENANT COLONEL	В	91	180
COLONEL	C1	181	360
BRIGADIER	C2	361	Higher

- 27. Category A has a station commander with the post level of a Captain and it can be capacitated up to and including 90 posts.
- 28. Category B is a Lt Colonel police station and it can be capacitated from 91 up to 180 posts.
- 29. Category C1 is a Colonel police station and it can be capacitated from 181 up to 360 posts.
- 30. Category C2 is a Brigadier police station and it can be capacitated from 361 and more posts.
- 31. Organisational Development developed a work organisation exercise to determine different organisational functional structures at police stations after

- 34. The variables that must be factored into the allocation of police resources are complementary but varied. The first and most important fact is determining the functions of the police service. The second is determining the pattern of its demand, which in turn has constituent variables such as: (a) population demands to police demand; (b) crime patterns, etc. However, the sufficiency of the allocated resources depends on the budget allocation. This means that in the allocation system, the police are constantly dealing with the ideal allocation versus the actual allocation; the latter being determined by the budgetary allocations.
- 35. The theory underpinning the allocation system in the SAPS is sound and rational. It takes account of the following:
 - 35.1. demographic factors associated with the current policing area, including, but not limited to, current size, population size, population location, formal and informal settlement patterns and infrastructure;
 - 35.2. access to the SAPS services and beneficiary population;
 - 35.3. minimum service policing services requirements;
 - 35.4. business rules;
 - 35.5. workload;
 - 35.6. reported crime up to 4 years;
 - 35.7. complaints attended to up to 4 years;



- 38. The allocation process cannot be criticised as a promoter of racial discrimination simply because it is implemented within the context of a post-apartheid South Africa. The fact of the matter is that policing services must be provided to townships and rural communities, as it must to affluent areas. Policing services must be provided for black people as it must for white people, for rich people as it must for poor people. The variables that inform the allocation policy in the SAPS take into account those factors. The policy cannot be discarded as perpetuating racial discrimination simply because policing services are provided within the context of a particular racial or social setting.
- 39. The THRR does not discriminate against poor black communities. It is a standardised method of determining resourcing needs and allocating resources in a manner that those resources may be accounted for. Allocation is done in an equitable manner. Enlistments add value to this process. The demographic change in a police station is a "quantum of change" amongst the socioeconomic variables. The approval of the new cluster concept and the implementation thereof added to the minimum requirement. Provincial priorities are uniquely to the province in question and determine deployment patterns within the respective provinces.
- 40. The THRR is a tool developed from functions performed at police stations. Checks and balances can be conducted by oversight bodies to ascertain whether policing priorities and service delivery demands are addressed. The development and application of the methodology is regulated.



41. The SAPS has a Research Department which has included in its research agenda, a project to thoroughly interrogate the THRR in terms of process validation, quality of inputs data, and implementation. Part of the research agenda will include academics at tertiary institutions but this has yet to take place. However, the Component Organisational Development has competent and experienced OD practitioners who regularly assess the effectiveness of the system and make adjustments where necessary.

Regulatory Framework	Description	Status
South African Police Service No. 68 of 1995	Regulates the organisation and reorganisation of the SAPS	Promulgated legislation
South African Police Service Employment Regulations, 2008	Section 20(2)(a): Based on the Strategic Plan of the SAPS, determine organisational structures according to the core and support functions. Section 11(2)(b) Delegated to the Deputy National Commissioner responsible for Organisational Development for the power to determine the fixed establishment.	
National Legislation on activities of Organisational Development	Mandate and Functioning of Organisational Development	



THE ROLE OF THE PROVINCIAL COMMISSIONER

- 42. While the applicants appear to appreciate the stages in the allocation process and the difference between the allocation done by the national management to the provinces and that of the provincial management under the control and management of the Provincial Commissioner, they nevertheless take issue (erroneously I submit) with the allocation system as arising from the THRR or the national allocation. This analysis ignores the role of the Provincial Commissioner.
- 43. Annually the Provincial Commissioner is given the provincial allocation (fixed establishment which is aligned to the allocated compensation budget of the SAPS) which determines the numerical strength. In terms of section 12 of the SAPS Act, distribution takes place in accordance with the classification of the police station table. Over and above the distribution of posts to police stations, there are other policing operational units which are located in the province and which serve one or more clusters under which a number of police stations fall. These other policing units are classified as K9 (formerly the dog unit), Stock Theft Unit, Tactical Response Unit, the Flying Squad, the Directorate of Priority Crime Investigations (Hawks), Public Order Policing (POPs), Family Violence and Child Protection Services (FCS). These policing units are force multipliers to each and every police station where required.
- 44. The fundamental flaw in the criticism against the SAPS allocation system is that it misses the fact that the Provincial Commissioner is not fettered in his or her decision to allocate resources in accordance with provincial crime trends. This

Ad paragraph 4

48. As the contents of my affidavit illustrate, much of the analysis is valueless since Redpath is not an expert. The report in the Khayelitsha Commission was issued in August 2014 and it makes no sense that Redpath would expect this court to have regard to substantially outdated information. Appending her evidence adduced at the Commission is a facile exercise and has done no more than to substantially and unnecessarily escalate the costs of this matter.

AD "KHAYELITSHA COMMISSION EVIDENCE"

Ad paragraph 5

49. Subject to what is stated above, the allegations in this paragraph are not disputed.

Ad "The Reports"

Ad paragraphs 6 to 10

50. It is admitted that Redpath prepared two reports for the Khayelitsha Commission on the issue of the allocation of police resources. Her mandate from the Khayelitsha Commission is noted. I must however indicate that her conclusions at the Khayelitsha Commission on the allocation of police resources are wholly unrealistic. Her evidence before the Khayelitsha Commission was a clear demonstration of someone who does not understand the fundamentals of budgeting for the police services that must be provided for all South Africans, irrespective of race, social or economic class, and status.

- 51. For example, Redpath's conclusion is that the allocation policy of the SAPS does not appear to be fair because it is "highly dependent on accurate information being supplied." It is unclear how a policy that depends on accurate information being supplied can be criticised as being racially discriminatory. The allocation policy was developed to calculate the ideal human resource requirements. The allocation/distribution of resources is a separate process in terms of which a variety of factors are taken into account, including SAPS' funded establishment, departmental priorities and the human resource requirements of the different services within the SAPS.
- 52. I also do not accept that murder rates are indicative of high levels of actual violent crime.

Ad paragraphs 11 and 12

53. I can state that when the annual input management sheet is compiled, reliance is placed on current Statistics SA figures and their formula for projections per numeration. Population sizes are not an exact science and there is a margin of error that must always be factored in. The census figures are a useful reference point for the population estimates within each policing area. They must be relied on to determine policing requirements. The SAPS is obliged to rely on official figures and cannot physically do a head count of persons living in a community, although we do factor into the weighting in the THRR the fact that certain areas are more likely to be settled by persons migrating from other countries etc.

Ad paragraphs 13 to 15



54. The allegations in these paragraphs are addressed by Brigadier Voskuil.

Ad paragraphs 16 and 17

- 55. Redpath's understanding of the police to population ratio is erroneous. The use of the police: population ratio is only applicable at national level when all other variables can be determined, and does not necessarily have to be used for each policing precinct. For example, when the national police population ratio is determined at 1: 362, according to the 2015/16 SAPS annual report, it does not mean that every police station has the same ratio.
- 56. It is unclear why the label police personnel per population should be a matter of concern. It is of no consequence because irrespective of whether one says police personnel to population or as the deponent prefers, population per police person, I respectfully submit that it is a question of semantics. It produces no discernable confusion in the description. The police person to population simply refers to the number of police personnel allocated to a police station.

Ad "Allocation by population"

Ad paragraph 18

57. The method described in the paragraph is disputed. It does not cater for the full spectrum of police resources allocated to the services provided within each policing precinct. The personnel to population allocation is done in accordance with the THRR and the particular weighting given to certain factors has resulted in improved policing allocations and concomitant improvements in service

- 65. It is unclear why the deponent's starting point is the number of police personnel per 100 reported crimes. It is also unclear as to why allocation by crime alone falls to be isolated and analysed. I dispute that this constitutes a workable method for allocation of police resources.
- 66. There is nothing racially offensive or discriminatory with the resource allocation of the SAPS taking reported cases into account. It is difficult, if not impossible, for the allocation to be done on the basis of unreported cases. The SAPS does not allocate resources based solely on reported crimes, but must have regard to its own capacity to prevent or investigate the crime.
- 67. The remaining allegations are denied. They are not only irrelevant but the entire hypothesis is unsound.

Ad paragraph 26

68. The THRR is not calculated solely on reported crime. There are numerous relevant variables that are more fully addressed in the affidavit of General Rabie. The contents of this paragraph strongly suggest that Redpath has no understanding of how the THRR operates and is implemented and this probably explains her reluctance to meet with members of the SAPS for purposes of compiling a joint minute to curtail issues.

Ad paragraph 27

69. <u>First</u>, I am not aware that there are stations that are over-supplied and this is denied. <u>Secondly</u>, I dispute that reporting of crime is better where there is an

over-supply of police resources (which is denied). Third, I emphasise that levels of reported crime are by no means the sole and exclusive determinant of the actual police resources allocated to police stations. It furthermore does not lead to "skewed allocations".

70. The observations made in the paragraph are plainly incorrect and disputed.

Ad paragraph 28

71. These allegations amount to speculation which I cannot respond to in any meaningful way, other than to deny them.

Ad paragraph 29

72. The allegations in this paragraph are also speculative and have not been established. It is denied that anything may be done to calculate resources on the basis of facts not known and on an abstract and hypothetical basis. If the SAPS did as Redpath appears to be suggesting, this would not only be irrational, unreasonable and inimical to the prescripts of the Constitution, but would result in "skewed allocations".

Ad paragraph 30

73. It is not admitted that reported crime alone is a rational basis for allocations only to the detective services. A crime may be reported but not investigated for a number of reasons, i.e. complainants fail or refuse to co-operate, complaints are withdrawn, etc. Critical in this, is the period of occurrence which Redpath did not consider. The fact that it is reported cannot on its own

determine the allocation. There are many variables that impact on policing demands some of which are impossible to quantify in terms of concrete percentages and numbers. For example, the population of the Cape Town central business district ("the CBD") is <u>lower</u> than that of Nyanga, and yet there is <u>more crime</u> reported in the CBD than in Nyanga.

- 74. Specifically with regard to detectives, the actual burden of work for detectives is not only determined by reported crimes. Detectives are not allocated to stations solely on the basis of the reported crimes. While detective work is a reactive function, it also requires planning. Skill levels to meet the policing needs are also important. It is not only the detectives who investigate crime. Other police officers also do so.
- 75. I do not agree that there is straight line in the allocation process that should be clinically or scientifically followed in order to properly allocate police resources. The population and crime trends are interrelated in the allocation of police resources but are amongst many other relevant variables. The attempt to segment them and then allocate weight to each depending on the service provided is to undermine the flexibility required in implementing an allocation policy. Reported crime is an important factor in the allocation of police resources for detectives just as it is for visible policing and intelligence gathering activities; it is however not the sole determinant. The approach adopted by Redpath is unhelpful in that it sees only reported crime and population as separate factors that must be independently looked at and accorded weight. More police resources may be allocated to a lower population depending on the crime trends. On the other hand, the allocation of police

resources will always be done on the basis of crime trends. It would be illogical to appoint members of the SAPS to stations with low crime rates and where they will not be optimally utilised.

76. The averments in the paragraph under reply are accordingly denied.

Ad paragraphs 31 to 33

- 77. The comments made in these paragraphs are disputed. Murder is not the only crime which is "not susceptible to reporting trends". This reasoning also loses sight of the fact that there are many persons who go missing who may or may not be alive. The cause of death may also not be murder.
- 78. Crimes against property have high reporting rates since the insurers require a CAS No. for purposes of processing these claims.
- 79. The deponent once again relies on outdated details and statistics. This will be dealt with by Brigadier Voskuil.
- 80. These paragraph are largely premised on supposition, fallacious reasoning outdated, and indeed, unproven data, and the contents are accordingly denied.

Ad paragraph 34

81. I do not accept that isolating murder as a crime (on the basis of outdated statistics) can constitute any basis on which to impugn the allocation process. Self-evidently that approach ignores the vast spectrum of other crimes and the



range of other important determinants that are applied by the SAPS to the allocation of police resources.

82. Policing has also changed considerably in many areas in the Western Cape in the past few years, and these averments are accordingly denied.

Ad "The Theoretical Determination"

Ad paragraph 35

83. The allegations in this paragraph are admitted. These allegations have been traversed in some detail in the affidavit of General Rabie. I add merely for emphasis that the current formulae in the model use the input management sheet as a data mechanism to gather information from police stations such as economic, social and environmental factors and activities performed at police station as per questions allotted to the specific function. All other sources such as PERSAL/PERSAP, EIS, GIS, CAS and other systems contributing to the resource calculation is read directly off the system. It is not correct that the information on the system is inaccurate or not reliable enough to make proper allocation decisions.

84. General Rabie sought to explain this process at the Commission. Hopefully his affidavit will clarify the relevant aspects that should perhaps have been taken into account.

Ad paragraph 36

To

- 85. The approach to the theoretical requirement is explained in detail in the affidavit of General Rabie, the content of which is not recounted herein. However, I place the allegations in this paragraph in so far as it contradicts what is stated in General Rabie's affidavit.
- 86. The allocation process collates the information required to determine personnel requirements and then standardises it. Determining an ideal/granted establishment for the SAPS is a dynamic process influenced by a number of factors in the internal environment as well as the external environment. The estimates of resources are also influenced by the estimates on the time it could take for a service to be performed. The policy recognises that detecting all policing activities or tasks performed at a station is nearly impossible, given the high degree of policing intangibility. To accommodate the identified deficiency as well as the unavoidable contingencies of the daily working routine, an acceptable daily working routine contingency allowance of 5% is allocated.

Ad paragraph 37

87. The actual process involves the following. Every year the SAPS develops an annual performance plan ("the APP") The current APP excluding the 2 blank pages for notes pages is appended, marked "MJM2". Every five years of the administration the SAPS also develops its medium term strategic framework from which the strategic plan of the SAPS is determined. These two instruments are used to develop the structure of the SAPS according to the policing demands. These instruments are informed by the annual budget allocation and the medium term expenditure framework. In all these processes

the structures and the policing priorities are used to determine the fixed establishment (i.e. to determine the number of posts that are funded).

88. The THRR represents the ideal but the budget determines the fixed establishment. The SAPS can only operate within its available resources.

Ad paragraph 38

89. The allegations in this paragraph are not disputed. The current position with regards to the allocation of the fixed establishment is 60.29%. The provincial units which are operating at station level comprise at 13.6%. The national units which are operating at police station level comprise 16.82%. The two units-national and the provincial units are operating at police station level and have a personnel strength of 60 000 police posts.

Ad paragraph 39

90. The contents of this paragraph must be juxtaposed against and understood from what is contained in the affidavit of General Rabie.

Ad paragraph 40

91. I have explained the evolution from the RAG to the THRR. There is a difference between the fixed establishment and the RAG (now the THRR). The fixed establishment is a legislative requirement in terms of section 11 of the SAPS Act. The RAG was a tool in the first phase to determine the staffing demands; the RAG was replaced by the REP; the REP was in turn replaced by the THRR. Currently, the SAPS relies on the THRR to determine, amongst others, the



fixed establishment of the police stations. This process is done annually taking into account the budget allocations. The THRR figures cannot be filled since the budget does not allow for this. It consequently serves as a guide for the equitable distribution of resources within the available means.

92. The remaining allegations are denied.

Ad paragraph 41

93. The allegations in this paragraph must be interpreted within the context of section 12 of the SAPS Act. It is indeed correct that the legislation does permit the Provincial Commissioner of SAPS to make adjustments within the provincial allocation. I am not in a position to comment on how frequently this is done but am given to understand that this will be dealt with by a deponent from the office of the Provincial Commissioner. I can however state with certainty, that the Provincial Commissioner utilises this provision which enables him to reallocate police officers where they are most required.

Ad paragraph 42

94. The allegations in this paragraph are denied.

Ad paragraph 43

95. The SAPS as a fact uses the THRR, and does not purport to do so. The process involving the input management sheets is adequately dealt with in the affidavit of General Rabie.

- 96. The remaining allegations are denied in so far as they are inconsistent with the answering affidavits filed on behalf of the first, second and third respondents.
- 97. The applicants initiated motion proceedings in the face of readily anticipated disputes of fact. This conduct is unacceptable and would warrant the dismissal of the application with a punitive costs order, alternatively and if the court is not inclined to do so, that the matter be referred to oral evidence so that these disputes of fact may be resolved after thorough cross-examination of particularly the witnesses for the applicants. Stated differently and without in any way digressing from the applicant's other witnesses who would have to be called, the hypothetical and abstract narrative of Redpath should be properly tested. Oral evidence will also allow for a proper understanding of the allocation of human resources and expose the untruths in the applicants' papers. Again, this is conduct which should attract a punitive costs order.
- 98. Not only was the application brought prematurely, but the founding papers are misleading in so far as it is suggested that nothing was done since the Khayelitsha Commission. Nothing can be further from the truth as will be demonstrated by Brigadier Voskuil.

Ad paragraph 44

99. The SAPS takes into account all the variables that are mentioned in this affidavit and the other affidavits, particularly that of General Rabie. Signally, while quick to criticise, the deponent makes no attempt to identify the variable factors which she considers to be "relevant" and to "impinge on the burden of policing" that are allegedly not taken into account by the SAPS.

100. I aver that the vague and unsubstantiated criticism is unwarranted and these allegations are therefore denied.

Ad paragraph 45

101. The allegations in this paragraph are denied. Redpath has failed to provide evidence to substantiate these allegations. When we conduct quality checks, we identify any inaccuracies, and correct them. I do not accept the criticism of "double counting"; the range of determinants is selected so as to meet the need. Redpath's overly simplistic and unwarranted censure is denied.

Ad paragraph 46

102. While the allegations in this paragraph are not disputed in so far as they are consistent with the first, second and third respondent's answering papers, it is apposite to point out that Redpath has given no evidence to support this observation. I can however state that we have processes to verify information in our possession. Where we find inaccuracies, these are addressed. Data integrity is very important for the SAPS. I accept that the system is by no means infallible. However, this does not detract that the approach used.

Ad paragraph 47

103. As testified by General Rabie, it has never been the position of the SAPS that the process of allocation is perfect. There will always be scope for enhancement and improvement since policing by its very nature is dynamic. What it currently does is to give guidance on how police resources may be allocated in a rational manner. The deponent's criticism of weighting of the basis of an averment that weighting "seems to have been arrived at in an arbitrary manner and without basis in any evidence" is once more unsubstantiated; she has tendered no evidence whatsoever in support of the apparent arbitrariness. In the absence of any fact-based specific allegations, I am unable to respond in any meaningful way.

104. These averments are denied. The weights used are not arrived at arbitrarily, as alleged but as a result of a thorough, rational and reasonable process which is guided by internationally accepted norms.

Ad paragraph 48

105. The analysis carried out is unhelpful because it does not identify why the 5% allocation is wrong, irrational or inappropriate. The absence of an explanation as to the basis on which a particular weighting was arrived at, does not, without more, constitute a basis on which to impugn the allocation process.

Ad paragraph 49

106. The deponent appears to suggest that because there is a potential for error, the entire allocation process falls to be impugned. I disagree with this overly simplistic and incorrect approach. Indeed, the deponent's own proposals are not fail safe and constitute no more than a theory. This differs toto caelo from the SAPS system which is responsive to policing needs.



- 107. I also do not accept the merit of a contention that the carefully and intricately modelled allocation process ought to be substituted with a "common sense approach". Notably, this "common sense approach" is not adumbrated upon, leaving it for the court to divine what "the expert" intends.
- 108. It is exceedingly difficulty to respond meaningfully to specious assertions of this nature and they are accordingly denied.

Ad paragraph 50

- 109. In our classification of police stations we do not use "township areas" as a determinant. Our classification follows that of the Demarcation Board. The categories are urban, rural and urban mix and ISD nodes (poor and underdeveloped areas.)
- 110. The allegation that there is a downward adjustment in respect of the so-called township allocations is denied. As correctly illustrated by General Rabie, Redpath's theory relies only on a single crime element to determine allocations. For reasons set out in the affidavit of General Rabie, these allegations are denied. I reiterate that the entire allocation process is weighted in favour of disadvantaged areas. This simple fact is not susceptible to being challenged, as the applicants seek to do.
- 111. It is denied that the THRR is racially discriminatory.

Ad paragraph 51



112. These allegations will be dealt with in the affidavit of Brigadier Voskuil. What I can say is that annually, we do the input management sheets and assess the level at which each station should be categorised. The stations mentioned in this paragraph are correctly classified according to the THRR methodology and the Provincial Commissioner's distribution has been concluded for 2016/17 and has yet to be undertaken for the 2017/18 years. It is precipitous to do so far in advance since policing needs play an integral role in this process. The policing needs in a current year may differ substantially in a subsequent year.

Ad "Suggested Method for Allocation"

Ad paragraph 52

- 113. I note that Redpath describes her proposals as "merely a demonstration" of a possible alternative. I do not accept that it presents a viable, or indeed, workable alternative.
- 114. The suggestions made by the deponent have never been tested. An offer to model them was made to her by the SAPS, without any success. The offer to test the "suggestion" was so as to ascertain whether the model could be utilised by the SAPS to deal with its challenges in the allocation of police resources within the confines of budgetary constraints.
- 115. The proposed formula is in any event fundamentally flawed as it fundamentally undermines key variables in organisational design. It would distort resource allocation in ways that could potentially undermine effective policing. Redpath's suggestion that there are police stations that could be run by six

people simply demonstrates that she is unfamiliar with the policing services that must be provided to all police stations. Her proposal that six people may carry out police services is unrealistic and incorrect. A police station is open seven days per week week and operates twenty-four hours. Police officers must be rotated to ensure that services are provided at all times. There are also labour laws which must be adhered to.

- 116. The SAPS has determined, based on its experience and studies of what resources are needed to meet minimum police services, that a minimum of sixteen officers are required to run just a CSC. This does not take into account the detective service, station commanders and management, support staff and visible policing units. Redpath does not explain how she comes to the figure of six, and why she believes it is appropriate.
- 117. Redpath also ignores that the function of the SAPS is not only to perform crime prevention, but also detection as well as to maintain law and order. The CSC, due to the shift system, consumes much of the resources allocated. She ignores court duties, transport duties, firearm registry, second hand goods, stock theft and resultant policing of abattoirs and many other policing services which must done in terms of legislation.
- 118. When Redpath considers figures at police stations she completely ignores that the K9 unit, Flying Squad, Hawks, tactical response team, public policing are all in addition to station allocation. There are detectives working at provincial level, not at police station level, and these are in addition to detectives at station



125. The allegations in this paragraph are denied. While the Protection Services protect dignitaries, they operate within the mandate of the SAPS. Redpath wrongly presumes that the number of available posts at police stations is solely used to determine police to population ratio. I have shown that there are provincial and national specialised units operating in local police stations.

Ad paragraph 56

126. These suggestions form part of the methodology already adopted by the SAPS in the various stages of resource allocation. General Rabie and I have set out the detailed process that the SAPS follows to determine resource allocations. This is one of the areas that is constantly scrutinised and developed to ensure that the correct balance is achieved.

Ad paragraph 57

127. Crime Intelligence has two components. The first is intelligence collection for purposes of crime prevention and combating. The second relates to the investigation of crime. It is unclear what relevance the allegations in the paragraph under reply have to police stations.

Ad paragraph 58

128. The deponent does not understand the function of crime intelligence. As stated above crime intelligence is necessary for the prevention and investigation of crimes. This means that a single crime variable is unsuitable for resourcing



crime intelligence. I also do not accept that murder should be used as a proxy for other violent crimes.

Ad paragraphs 59 and 60

- 129. Visible policing involves mainly prevention of crime. However this role can only succeed if there is a strong partnership with the communities involved. The deponent does not appear to understand the concept and practice of visible policing. People feel safe when they know that there are police officials within the vicinity. People who intend committing crime fear doing so when the police officials are visible. People feel safer when they know that they can call the police to a crime scene and get a quick response because the police are patrolling.
- 130. A key emphasis of policing is prevention of crime. Once crime occurs, then the role of policing is to investigate such crime. The police are constantly involved, even when they investigate crime, in the prevention of crime. Redpath's approach is fundamentally flawed because it appears to misunderstand this elementary concept of policing.

Ad paragraph 61

131. The allegations in this paragraph are denied. Visible policing involves foot or vehicle patrols. General Rabie has already dealt with why population alone is unhelpful with regards to the credibility of the THRR process. It fundamentally misses the point of structuring the police in a manner that enables it to provide police services to the community.

Ad paragraph 62

- 132. The allegations in this paragraph are denied where inconsistent with the answering papers filed herein. It is for the SAPS to ensure that there is proper understanding of systems used for resource allocations and utilisation thereof. This is not necessarily a resourcing issue. It is an issue of whether or not the police at stations are able to understand the important principles of resourcing allocation.
- 133. To give stations a blanket power to shift resources around without due regard to a proper allocation process will lead to inefficiencies and possibly a breakdown in the proper management of resources in police stations.

Ad paragraph 63

134. This has been dealt with satisfactorily in the affidavit of General Rabie with which I concur and confirm. Redpath demonstrates a complete misunderstanding of the principles that guide how resources should be allocated within the SAPS. The suggestion that total population acts as the primary indicator of resourcing, is, I respectfully submit, mistaken and just plain wrong; it ignores the complexity of the issue and the range of various determinants at play in the process.

Ad paragraph 64

135. These arguments are denied. They do not make out a case for the alleged irrationality of the THRR but will, I am advised, be addressed in argument at the

hearing of the matter. I respectfully aver that allegations contained herein demonstrate the complexity of the issues pertaining to resourcing; they demonstrably show that these issues should be left to the SAPS for determination.

Ad paragraph 65

136. This argument has sufficiently been addressed elsewhere in this affidavit and in the affidavit of General Rabie. Redpath does not appreciate the requirements for a rational allocation of resources. Policing is not aimed at population. It is aimed at crime. These allegations are accordingly denied.

Ad paragraphs 66 and 67

137. The allegations in these paragraphs are denied where inconsonant with the answering papers filed on behalf of the first to third respondents. The SAPS model is developing to ensure that the allocation of police resources reflects the needs of the policing communities. As stated, the model is constantly being evaluated to ensure that it responds to changes in crime and population.

Ad paragraph 68

138. There is no evidence that confirms that the areas referred to are overresourced. The reason that more resources have been allocated to a particular
police station is because of objectively verifiable factors, like crime trends and
patterns, etc.



139. The remaining allegations are denied where they contradict what is stated in the answering papers filed on behalf of the first to third respondents.

Ad paragraph 69

140. I deny that there is an unequal or discriminatory allocation of police resources between wealthy and poorer areas. The basis for the allocations has been adequately explained by General Rabie with which I associate myself. These allegations are accordingly denied.

Ad paragraph 70

- 141. Police population ratio is better defined when one uses the national picture. It is an average determination that cannot be used at a police station level. The application of the UN police population ratio is misplaced. Many of the countries upon which the UN figures are based differ from South Africa.
- 142. We render policing services <u>here</u> and have to be responsive to policing needs <u>here</u>, not in other countries.
- 143. Again, the deponent relies on outdated statistics which are valueless in assisting the court to determine the issues arising in this matter.

Ad paragraph 71

144. The allocation process of the SAPS has always been transparent and open.

Specific presentations to the Portfolio Committee of Parliament and the Civilian

Secretariat have been made. There are new developments and initiatives to

ensure that the police appreciate the fundamentals of police allocations. This involves the active participation of police officials for training purposes.

145. Public comment on the allocation process of the SAPS must be done with due regard to the primary functions of the police. It should not undermine effective policing. In any event, the information on the allocation of resources is disclosed in the APP of the SAPS (annexure "MJM2" hereto). This document is publicly accessible on the SAPS website.

Ad paragraph 72

146. The SAPS is open to constructive proposals and input on its allocation process. In fact, a specific invitation was extended to Redpath so that the SAPS could listen to her input. That invitation remains open. Review and enhancement of the resource allocation process forms part of the constant development of the THRR.

AD "KWAZULU-NATAL"

Ad paragraphs 73 to 76

147. I have no knowledge of the allegations in this paragraph and accordingly join issue therewith. The shortages are not only confined to Kwa-Zulu or the Western Cape Province. There are shortages in all 9 provinces. With the normalisation and stabilisation process, the desired outcome is to normalise areas and then to stabilise them. My component is constantly examining the utilisation of all the available human resources in the country as part of

developing a more acceptable fixed establishment within the allocated budget. That process is on-going and involves the Treasury. This process of necessity involves a consideration of new and emerging policing demands throughout the country. Crime is not static. We use crime intelligence to respond pro-actively but this is not always possible.

148. The development and maintenance of the fixed establishment of the SAPS is informed and guided by regulations 20 and 27 of the SAPS Employment Regulations, 2008 and is influenced by two primary variables: the approved organisational and post structures for police stations and clusters; and the availability of funds in terms of the current budget and Medium Term Expenditure Framework. I refer the court to General Nelson's affidavit which deals with the budget. Likewise, this is addressed in the APP attached hereto. Reference will also be made to other relevant aspects of the APP during the hearing of the application and when the matter is argued.

AD "FURTHER EVIDENCE"

Ad paragraphs 77 and 78

- 149. The allegations in these paragraphs are noted.
- 150. The terms of reference for Redpath's study should have included a question on how to assist the Provincial Commissioner to equitably determine the distribution of allocated resources in the police stations of the province. Furthermore the reference should have included how other partners, stakeholders and force multipliers should be utilised to assist in the combating

of crime. Lastly it should have also included the role that other spheres of government and the private sector should play in the planning of the environment for a safe and secure community. It also ignores the absence of proper planning in certain instances, the substantial increase in informal settlements and the challenges that this poses for policing.

Ad "Comparison of THRR to actual for the Western Cape"

Ad paragraphs 79 to 85

151. I understand that these allegations will be addressed by Brigadier Voskuil.

Ad "Analysis by crime figures"

Ad paragraphs 86 to 90

152. Redpath's crime statistics are outdated and will be addressed by other deponents, more particularly General Sekhukhune and Brigadier Voskuil.

Ad "Analysis by service delivery variables"

Ad paragraphs 91 to 94

153. The allegations in these paragraphs are noted but not accepted where they conflict with the answering papers. The fallacious reasoning of Redpath has been adequately highlighted in the preceding paragraphs.

Ad paragraph 95

Al

154. The allegations in this paragraph are noted. However, what Redpath appears to miss is that the model used by the SAPS. As explained in the affidavit of General Rabie, a wide range of demographic determinants are used in the allocation process. Each of these demographic determinants are weighted, with the higher weighting being given to under-developed and poorer areas, and correlatively lower weighting being given to relatively developed / advantaged areas. The higher weighting is ultimately geared to ensure higher policing numbers for crime prevention in poorer areas.

Ad paragraph 96

155. The allegations in this paragraph are noted but have already been traversed by me and other deponents as regards the variables taken into account when allocating policing resources.

Ad paragraph 97

156. The conclusions reached by the deponent are noted. I cannot however accept that there is a nexus between the THRR process and the outcome of her research. General Rabie and I have demonstrated how the allocation process is conducted and can state with confidence that there is no consideration of race or class; instead, as has been explained, the system is based on objective variables necessary for the proper allocation of resources. These determinants are weighted in favour of disadvantaged areas.

Ad paragraphs 98 to 104

(A)

- 157. General Rabie has addressed the issue of how the SAPS allocation process takes into account the impact of demographics. As far as the Western Cape is concerned, Brigadier Voskuil will deal with these allegations.
- 158. The allegations do not make out a case for discrimination based on race. They simply set out the general challenge that South Africa faces between poor disadvantaged and wealthier communities. The allocation process is not defective because it is implemented within this reality of the South African socio-economic and political environment. It is not realistic to try to use the allocation of police resources to address issues that require other forms of intervention. For example, poverty and lack of basic services cannot be addressed through the allocation of police resources. Poverty is not a crime requiring the allocation of police resources. Lack of basic services is not a crime also requiring the allocation of police resources.
- 159. The thrust of Redpath's theory is that when the SAPS allocates police resources to poorer communities, race and class is weighted. In reality, Redpath's approach will result in discriminatory practices when allocating police resources by considering population (i.e. race and class) crime particularly murder, and amenities such as water and electricity. These variables do not provide a rational basis to allocate resources equitably and with due regard to the primary objectives of policing. If adopted, the Redpath theory will no doubt undermine the proper and effective management of police resources.
- 160. In conclusion and having thoroughly considered through Redpath's views, I have no hesitation in stating that she has no experience in organisational

development. She is unfamiliar with the language and theories of organisational development and has not taken time to learn them and to apply them within the South African context. This is manifest not only from her report but also the evidence given at the Commission.

- 161. There is nothing in her research, to my knowledge, that qualifies her as an expert on the allocation of police resources in South Africa or anywhere else.
- 162. Redpath seeks to give credence to the views held by the SJC that the allocation process is racially discriminatory. However, and for the reasons addressed, I do not agree with this view which is accordingly denied.
- 163. In light of the aforegoing, I submit that the application has no merit and should accordingly be dismissed with costs.

MATHAPAMA JACK MAKGATO

I hereby certify that on the 27th day of FEBRUARY 2017 in my presence at PRETORIA the deponent signed this affidavit and declared that he: -

- (a) knew and understood the contents hereof;
- (b) has no objection to taking this oath;
- (c) considered this oath to be binding on his conscience and uttered the words:-

"I swear that the contents of this affidavit are true, so help me God."

DIRECTOR OF PUBLIS PROSECUTIONS

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27 FEB 201/

APPEAL SECTION PRETORIA 0001

NORTH GAUTENG: PRETORIA

COMMISSIONER OF OATHS

CHERT JOHANNES STONE

ADMIN CICILIK

28 CHURCH SQUARE

PLCTOLIA

0001

MJMI



The South Africa I know, the home I understand

Statistical release

P0302

Mid-year population estimates

2016

Embargoed until: 25 August 2016 13:00

Enquiries:

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Mid-year population estimates, 2017

July 2017



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Summary

- This release uses the cohort-component methodology to estimate the 2016 mid-year population of South Africa.
- The estimates cover all the residents of South Africa at the 2016 mid-year, and are based on the latest available information. Estimates may change as new data become available.
- For 2016, Statistics South Africa (Stats SA) estimates the mid-year population as 55,91 million.
- Approximately fifty-one per cent (approximately 28,53 million) of the population is female.
- Gauteng comprises the largest share of the South African population. Approximately 13,5 million people (24%) live in this province. KwaZulu-Natal is the province with the second largest population, with 11,1 million people (19,9%) living in this province. With a population of approximately 1,19 million people (2,1%), Northern Cape remains the province with the smallest share of the South African population.
- About 30,1% of the population is aged younger than 15 years and approximately 8,0% (4,47 million) is 60 years or older. Of those younger than 15 years, approximately 23,0% (3,86 million) live in KwaZulu-Natal and 20,4% (3,43 million) live in Gauteng. Of those elderly aged 60 years and older, the highest percentage 26,1% (1,17 million) reside in Gauteng. The proportion of elderly persons aged 60 and older is increasing over time.
- Migration is an important demographic process in shaping the age structure and distribution of the provincial
 population. For the period 2011–2016 it is estimated that approximately 247 437 people will migrate from the
 Eastern Cape; Limpopo is estimated to experience an out-migration of nearly 305 030 people. During the same
 period, Gauteng and Western Cape are estimated to experience an inflow of migrants of approximately 1 216
 258 and 363 114 respectively (see migration stream tables for net migration).
- Life expectancy at birth for 2016 is estimated at 59,7 years for males and 65,1 years for females.
- The infant mortality rate for 2016 is estimated at 33,7 per 1 000 live births.
- The estimated overall HIV prevalence rate is approximately 12,7% of the total South African population. The
 total number of people living with HIV is estimated at approximately 7,03 million in 2016. For adults aged 15–49
 years, an estimated 18,9% of the population is HIV positive.
- This publication and its subsidiary products is based on the 2014 geographic boundaries and not those used subsequent to the Local Government Election held on 3 August, 2016, since these occurred after the reference period of 30 June, 2016. The 2017 mid-year estimates will apply the new geographic boundaries.



Table 1: Mid-year population estimates for South Africa by population group and sex, 2016

Population group		Male		Female	To	otal
	Number	% distribution of males	Number	% distribution of females	Number	% distribution of total
African	22 119 200	80.8	22 990 700	80.6	45 109 900	80.7
Coloured	2 368 000	8.6	2 529 200	8.9	4 897 200	8.8
Indian/Asian	701 900	2.6	684 100	2.4	1 386 000	2.5
White	2 190 700	8.0	2 325 100	8.1	4 515 800	8.1
Total	27 379 800	100,0	28 529 100	100,0	55 908 900	100,0

Table 2: Mid-year population estimates by province, 2016

	Population estimate	% of total population	
Eastern Cape	7 061 700	12.6	
Free State	2 861 600	5.1	
Gauteng	13 498 200	24.1	
KwaZulu-Natal	11 079 700	19.8	
Limpopo	5 803 900	10.4	V
Mpumalanga	4 328 300	7.7	
Northern Cape	1 191 700	2.1	
North West	3 790 600	6.8	
Western Cape	6 293 200	11.3	
Total	55 908 900	100,0	

PJ Lehohla

Statistician-General

1. Introduction

In a projection, the size and composition of the future population of an entity such as South Africa is estimated. The mid-year population estimates produced by Statistics South Africa (Stats SA) use the cohort-component method. In the cohort-component method, a base population is estimated that is consistent with known demographic characteristics of the country. The cohort base population is projected into the future according to the projected components of change. Agreed levels of fertility, mortality and migration are used as input to the cohort-component method. For the 2016 mid-year estimates, the cohort-component method is used within the Spectrum Policy Modelling system. Spectrum is a Windows-based system of integrated policy models. The DemProj module within Spectrum is used to make the demographic projection, while the AIDS Impact Model (AIM) is used to incorporate the impacts of HIV and AIDS on fertility and mortality.

Stats SA subscribes to the specifications of the Special Data Dissemination Standards (SDDS) of the International Monetary Fund (IMF) and publishes the mid-year population estimates for the country annually. This release uses the latest available Spectrum Software from Avenir Health. Stats SA used JMP Script Language (JSL) developed by the SAS Institute Inc. to do estimates lower than country level.

2. Demographic and other assumptions

A cohort-component projection requires a base population distributed by age and sex. Levels of mortality, fertility and migration are estimated for the base year and projected for future years. The cohort base population is projected into the future according to the projected components of population change. The DemProj module of Spectrum is used to produce a single year projection, thus the total fertility rate (TFR) and the life expectancy at birth must be provided in the same way. The time series of TFR estimates for all population groups in South Africa are interrogated following a detailed review of demographic projections, and necessary adjustments are made to ensure that the determined time series of TFR estimates (1985–2015) are consistent with published and unpublished TFR estimates from various sources of authors, methods, and data sources, including Census and CS fertility estimates and population structure. (see Table 3). Between 2002 and 2016, fertility has declined from an average of 2,65 children per woman to 2,43 children. Other inputs required in DemProj include the age-specific fertility rate (ASFR) trend, sex ratios at birth and net international migration. In estimating South Africa's population, international migration is provided as an input into the model (see Table 4).

The life expectancy assumption entered into DemProj by gender is the life expectancy in the absence of AIDS (see Table 3). Each population group is also subjected to non-AIDS mortality according to the input non-AIDS life expectancy and the selected model life table. AIM will calculate the number of AIDS deaths and determine a new set of life expectancies that incorporates the impact of AIDS. (see Table 5). Stats SA applies the country-specific UN Model Life table for South Africa built into Spectrum. Survival rates from the selected life tables were then used to project the population forward.



Table 3: Assumptions of expectation of life at birth without AIDS and fertility

		Life expectancy at birth withou HIV/AIDS					
Year	TFR	Male	Female				
2002	2.65	61.2	69.1				
2003	2.67	61.6	69.4				
2004	2.69	62.0	69.6				
2005	2.70	62.5	69.9				
2006	2.72	62.9	70.1				
2007	2.74	62.9	70.3				
2008	2.75	62.9	70.6				
2009	2.72	63.2	70.7				
2010	2.66	63.5	71.0				
2011	2.60	63.8	71.2				
2012	2.57	64.1	71.5				
2013	2.54	64.4	71.7				
2014	2.51	64.7	71.9				
2015	2.48	65.0	72.2				
2016	2.43	65.2	72.3				

Table 4: International migration assumptions for the period 1985-2016

	African	Indian/Asian	White
1986–2000	919655	29509	-304112
2001–2006	594970	29491	-133782
2006–2011	719260	45221	-112046
2011–2016	855050	51337	-95158

Spectrum includes among others, the DemProj Module. The AIDS Impact Model (AIM) has an inbuilt Epidemiological Projection Package for estimating HIV prevalence and incidence. In the AIDS Impact Model (AIM), several programmatic and epidemiological data inputs are required. These are related to programme coverage of adults and children on antiretroviral treatment (ART) and Prevention of Mother to Child Transmission (PMTCT) treatment. In addition to eligibility for treatment as per national guidelines, the epidemiological inputs include antenatal clinic data (NDoH, 2012). Our assumptions of the HIV epidemic in South Africa are based primarily on the prevalence data collected annually from pregnant women attending public antenatal clinics (ANC) since 1990. However, antenatal surveillance data produce biased prevalence estimates for the general population because only a select group of people (i.e. pregnant women attending public health services) are included in the sample. To correct this bias, we adjusted the ANC prevalence estimates by adjusting for relative attendance rates at antenatal clinics and for the difference in prevalence between pregnant women and the general adult population (Shisana, 2014). Other inputs in the AIM model include the following:

Median time from HIV infection to death

This release assumed the median time from HIV infection to death in line with the UNAIDS Reference Group recommendation of 10,5 years for men and 11,5 years for women.

Ratio of new infections

Adult HIV incidence is disaggregated into female and male incidence by specifying the ratio of new female infections to new male infections. This report assumes a ratio of female to male prevalence for those aged 15–49 of 1,5 by 2016.

Indicators of HIV prevalence, incidence and HIV population numbers over time, merely show the impact of HIV on the population. HIV indicators shown in Table 6 are based on the aforementioned assumptions and may differ to HIV indicators published elsewhere.

3. Demographic and other indicators

Table 5 shows the life expectancies that incorporate the impact of AIDS (AIM model). The crude death rate is down from 12,9 deaths per 1 000 people in 2002 to 9,7 deaths per 1 000 people in 2016. Life expectancy at birth had declined between 2002 and 2005 but expansion of health programmes to prevent mother to child transmission as well as access to antiretroviral treatment, has partly led the increase in life expectancy since 2005. By 2016 life expectancy at birth is estimated at 59,7 years for males and 65,1 years for females. By 2016 life expectancy is continuing to increase, and this may be related to marginal gains in survival rates among infants and children under-5 post HIV interventions in 2005. Infant mortality rate (IMR) has declined from an estimated 48,2 infant deaths per 1 000 live births in 2016. Similarly the under-five mortality rate (U5MR) declined from 70,8 child deaths per 1 000 live births to 44,4 child deaths per 1 000 live births between 2002 and 2016. IMR and U5MR shown in Table 5 are based on the selected model life table and may differ to similar indices published elsewhere.

Table 5: Demographic indicators, 2002-2016

		Life Expectancy						
Year	Crude Birth Rate	Male	Female	Total	Infant Mortality Rate	Under 5 Mortality Rate	Crude Death Rate	Rate of Natural Increase (%)
2002	23.4	53.6	56.6	55.2	48.2	70.8	12,9	1.05
2003	23.6	53.2	55.7	54.5	48.2	71.1	13.5	1.01
2004	23.8	52.9	55.1	54.0	48.4	71.5	14.0	0.98
2005	24.0	52.8	54.8	53.8	48.7	71.8	14.3	0.97
2006	24.2	53.0	55.0	54.0	48.6	71.3	14.2	1.00
2007	24.5	53.4	55.5	54.5	48.0	70.0	13.9	1.05
2008	24.7	54.2	56.9	55.6	46.8	67.5	13.2	1.15
2009	24.5	54.7	57.9	56.4	43.4	63.9	12.8	1.17
2010	24.0	55.3	58.6	57.0	41.2	58.8	12.4	1.16
2011	23.5	56.2	60.2	58.3	39.7	55.6	11.7	1.18
2012	23.2	57.4	62.2	59.9	38.6	53.2	10.8	1.24
2013	22.9	58.3	63.6	61.0	37.7	51.3	10.2	1.27
2014	22.5	58.9	64.2	61.6	36.6	49.3	10.0	1.26
2015	22.2	59.3	64.7	62.1	34.4	46.6	9.8	1.23
2016	21.6	59.7	65.1	62.4	33.7	44.4	9.7	1,19

Table 6 shows estimates for selected indicators. The highest number of deaths were estimated in 2006. The decline in the percentage of AIDS-related deaths from 2007 can be attributed to the increase in the roll-out of ART over time. National rollout of ARV began in 2005 with a target of 1 service point in each of the 53 districts of South Africa. The number of AIDS-related deaths declined consistently since 2006 from 325 241 to 150 759 AIDS related deaths in 2016. Access to antiretroviral treatment has changed historical patterns of mortality. ARVs have extended the lifespan of many in South Africa, who would have otherwise died at an earlier age, evident in the decline of AIDS deaths post-2005.

Table 6: Births and deaths for the period 2002-2016

			Number of	Percentage
	Number of	Number of	AIDS related	of AIDS
Year	Births	deaths	deaths	deaths
2002	1 065 149	587 001	232 581	39.6
2003	1 089 307	623 061	268 496	43.1
2004	1 112 009	654 512	299 504	45.8
2005	1 133 578	675 642	320 473	47.4
2006	1 157 720	681 434	325 241	47.7
2007	1 186 149	675 287	315 059	46.7
2008	1 213 007	649 556	284 312	43.8
2009	1 221 737	636 926	266 591	41.9
2010	1 216 150	628 915	256 625	40.8
2011	1 207 511	600 085	225 901	37.6
2012	1 210 987	562 184	185 558	33.0
2013	1 212 947	541 413	161 986	29.9
2014	1 213 213	537 579	155 063	28.8
2015	1 212 055	537 313	151 748	28.2
2016	1 198 861	539 714	150 759	27.9

HIV prevalence

Table 7 shows the prevalence estimates and the total number of people living with HIV from 2002 to 2016. The total number of persons living with HIV in South Africa increased from an estimated 4,72 million in 2002 to 7,03 million by 2016. For 2015, an estimated 12,7% of the total population is HIV positive. Shisana et al. (2012) estimated the HIV prevalence for 2012 at 12,2,%. Approximately one-fifth of South African women in their reproductive ages are HIV positive. HIV prevalence among the youth aged 15-24 has declined overt time from 7,6% in 2002 to 5,6 in 2016. The rate at which the population in South Africa is being infected is declining year on year from 1,77% in 2002 to 1,27% in 2016.

Table 7: HIV prevalence estimates and the number of people living with HIV, 2002-2016

		Prev	alence %			
	Women 15-49	Adults 15-49	Youth 15-24	Total population	Incidence rate % 15-49	HIV population (in millions)
2002	19.6	17.1	7.6	10.3	1.77	4.72
2003	19.8	17.2	7.1	10.6	1.74	4.87
2004	19.9	17.3	6.6	10.7	1.76	5.00
2005	20.0	17.3	6.4	10.8	1.81	5.13
2006	20.1	17.4	6.3	11.0	1.83	5.26
2007	20.3	17.5	6.2	11.1	1.82	5.40
2008	20.5	17.6	6.2	11.3	1.77	5.56
2009	20.7	17.8	6.3	11.5	1.72	5.73
2010	20.9	17.9	6.4	11.6	1.65	5.89
2011	21.2	18.1	6.3	11.8	1.59	6.07
2012	21.5	18.3	6.2	12.0	1.50	6.27
2013	21.8	18.5	6.1	12.2	1.39	6.47
2014	22.0	18.7	5.9	12.4	1.34	6.67
2015	22.2	18.8	5.8	12.5	1.30	6.85
2016	22.3	18.9	5.6	12.7	1.27	7.03

4. National population estimates

Table 8 shows the mid-year estimates by population group and sex. The mid-year population is estimated at 55.91 million. The black African population is in the majority (45.11 million) and constitutes approximately 81% of the total South African population. The white population is estimated at 4,52 million, the coloured population at 4,90 million and the Indian/Asian population at 1,39 million. Just over fifty-one per cent (28,53 million) of the population is female.

Table 8: Mid-year estimates by population group and sex, 2016

	N.	lale	F	emale	T _C	otal
Population group	Number	% of total male population	Number	% of total female population	Number	% of total
African	22 119 200	80,8	22 990 700	80,6	45 109 900	80,7
Coloured	2 368 000	8,6	2 529 200	8,9	4 897 200	8,8
Indian/Asian	701 900	2,6	6 84 100	2,4	1 386 000	2,5
White	2 190 700	0,8	2 325 100	8,1	4 515 800	8,1
Total	27 379 800	100,0	28 529 100	100,0	55 908 900	100,0

Table 9 shows that the implied rate of growth for the South African population has increased between 2002 and 2016. The estimated overall growth rate increased from approximately 1,22% between 2002 and 2003 to 1,62% for the period 2015 to 2016. The growth rate for females is lower than that of males.

Table 9: Estimated annual population growth rates, 2002–2016

Period	Children 0-14	Youth 15-34	Elderly 60+	Total
2002-2003	-0.38	2.14	2.58	1.22
2003-2004	-0.23	2.13	2.62	1.25
2004-2005	-0.06	2.09	2.66	1.28
2005-2006	0.09	2.06	2.67	1.31
2006-2007	0.25	1.99	2.69	1.34
2007-2008	0.54	1.76	2.68	1.37
2008-2009	0.60	1.74	2.71	1.40
2009-2010	0.75	1.63	2.77	1.43
2010-2011	0.83	1.51	2.82	1.46
2011–2012	0.98	1.31	2.85	1.49
2012-2013	1.17	1.11	2.89	1.52
2013-2014	1.22	1.06	2.93	1.55
2014-2015	1.27	1.01	2.98	1.59
2015-2016	1.25	0.85	3.04	1.62

Table 10 shows the 2016 mid-year population estimates by age, sex and population group. About 30,1% of the population is aged 0–14 years and approximately 8,0% is 60 years and older.

Table 10: Mid-year population estimates by population group, age and sex, 2016

		Black African	ın		Coloured	***************************************		Indian/Acian			1870.54				***************************************
	Malo	Fomolo	Total					ECT III	======================================		White			South Africa	~
	2000	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10193	Mare	remale	lotal	Male	Female	Total	Male	Female	Total	Male	Female	Total
4-4	2 556 260	2 490 878	5 047 138	236 077	232 753	468 830	48 640	48 646	97 286	126 661	122 981	240 642		0.000 0.00	
5-9	2 498 888	2 445 502	4 944 390	232 171	229 469	461 640	47 896	48 050	05 046	121 201	107 764	240 642	201 020	862 689 7	982 298 9
10-14	2 207 170	2 168 357	4 375 527	220 969	219 095		46 086	46 44B		120 254	107 121	CF ACZ	200	82	5 761 111
15-19	2 039 224	2 017 699	4 056 923	214 837	213 831	sl cr	47 522	C 00 00	05 504	102 601	000 001	275 111		2 569 758	5 183 234
20-24	2 241 775	2 237 660	1 170 DA	000		200	770 11	740 04	90 00 4	148 522	144 197	292 719	2 450 105	2 423 769	4 873 874
200	011157	£ 201 003	4 478 344	212 808	212 (73	425 581	54 257	52 853	107 110	153 997	149 257	303 254	2 662 837	2 652 452	5 315 289
67-07	2 376 145	2 323 243	4 699 388	195 325	196 535	391 860	62 455	56 072	118 527	150 618	146 933	297 551	2 784 543	0 707 783	2 2
30-34	1 876 201	1 951 808	3 828 009	176 952	187 225	364 177	69 302	58 307	127 609	127 894	121 260	250 254	Sto 100 E	2 2 2 2 2 2	
35-39	1 555 156	1 616 532	3 171 688	177 287	191 001	368 288	67 361	55 037	172 208	149 496	200 000	PCZ 802	2 230 349	328	5/9
40-44	1 244 305	1 204 004	ייסיר מרש כי	000			50	200	143 430	140 100	149 813	29/ 999	1 947 990	2 013 283	3 961 273
1	COC ++7 1	1 234 00	2 538 3Ub	1/6 0/3	192 636	368 709	58 441	49 845	108 286	138 625	142 631	281 256	1 617 444	1 679 113	3 296 557
45-48	986 845	1 067 928	2 054 773	147 590	165 170	312 760	50 472	45 406	95 878	161 858	163 540	105 308	1 346 705	440 044	
50-54	776 212	879 707	1 655 919	123 512	141 644	265 156	42 420	44 454	04 524		200	250 030	040 / 02	442 044	Z /88 809
55.59	R1/1 026	COC 047	4 355 400	400 200			7		04 374	103 804	155 588	330 492	1 106 648	1 229 493	2 336 141
	020 110	140 402	020 120	37 088	115 028	212 116	35 439	36 543	71 982	158 540	168 164	326 704	905 993	1 059 937	1 965 930
60-64	467 703	597 752	1 065 455	68 142	85 454	153 596	27 911	31 554	59 465	138 923	150 815	280 738	70.2 6.07	000 636	
62-69	315 003	441 813	756 816	43 501	61 017	104 518	20 162	25, 592	45 75/	124 940	110 115	202 000	102 079	0/0 000	#C7 QQC
70-74	194 932	322 289	517 221	24 574	30 007		10 000	1000 11	200	010 17	C+1 7+1	CCS 607	500 476	670 567	1 171 043
07.07	200		1	1 0 13	200 000	00.00	77 703	/68 /1	30 160	89 185	114 486	203 671	320 954	493 679	814 633
SJDJ	103 406	213 171	316 577	13 118	25 673	38 791	6 559	11 641	18 200	52 948	79 682	132 630	176 031	330 167	505 109
\$0 +	65 048	182 231	247 279	7 955	20 918	28 873	3 970	9 861	13 831	38 488	88 777	127 265	116 AB1	707 700	200 130
	22 119 199	22 990 682	45 109 881	2 367 979	2 529 229	4 897 208	701 856	684 146	4 306 000	2 400 004	000 000	1 1 1) P	201 101	41/ 248
					7		255	00+ 1+00	300 000	7 130 p34	7 325 080	4 515 774	27 379 728	28 529 137	55 908 865



5. Provincial population estimates

When provincial population estimates are desired and the appropriate data are available a multi-regional approach should be considered as this is the only way to guarantee that the total migration flows between regions will sum to zero (United Nations,1992). The methods developed for this purpose by Willekens and Rogers (1978) have not been widely used in developing countries partly due to the lack of adequate migration data and the difficulty of applying these methods.

Multi-regional methods require the estimation of separate age-specific migration rates between every region of the country and every other region—and such detailed data are rarely available. Although it is possible to estimate some of the missing data (see Willekens et al. 1979) the task of preparing data can become overwhelming if there are many regions. If there are only a few streams however—the multi-regional method is the best method to use. In South Africa—2 448 (9x8x17x2) migration streams are derived if the multi-regional model is applied in calculating migration streams by age group (17 in total) and sex for each of the nine provinces.

The cohort-component approach suggested by the United Nations (United Nations, 1992) was used to undertake the provincial projections for this report. The programming was done through JMP Script Language (JSL). JMP was developed by the SAS Institute Inc., which was used to develop the projection for the 2016 provincial mid-year estimates—using the matrix algebra approach.

5.1 Demographic assumptions

The demographic data from the 2011 census i.e. fertility, mortality and migration rates as well as the distribution of births and deaths from vital registration (adjusted for late registration and completeness) are used to determine provincial estimates. Figure 1 shows the provincial fertility estimates for the periods 2001–2006, 2006–2011 and 2011–2016. Over time the provincial TFR declined overall.

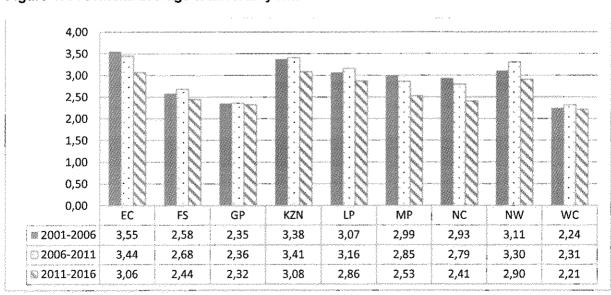


Figure 1: Provincial average total fertility rate

Mid-year population estimates, 2014

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Figures 2 and 3 show the average provincial life expectancies at birth for males and females for the periods 2001–2006, 2006–2011 and 2011–2016. The life expectancy increased incrementally for each period across all provinces. Western Cape has the highest life expectancy at birth for both males and females whilst the Free State has the lowest life expectancy at birth.

Figure 2: Provincial average life expectancy at birth (males)

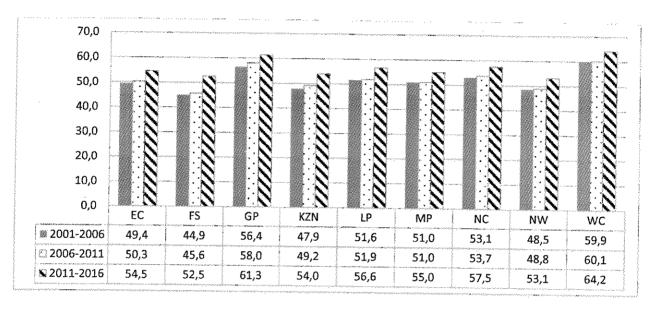
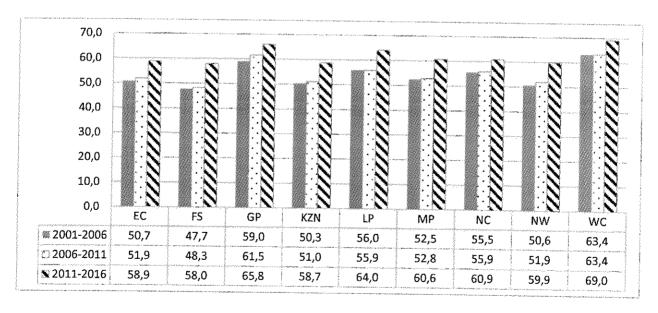


Figure 3: Provincial average life expectancy at birth (females)





5.2 Provincial distributions

Table 11 shows the estimated percentage of the total population residing in each of the provinces from 2002 to 2016. The provincial estimates show that Gauteng has the largest share of the population followed by KwaZulu-Natal and Eastern Cape. By 2016 approximately 11,2% of South Africa's population live in Western Cape. Northern Cape has the smallest population (2,1%). Free State has the second smallest share of the South African population constituting just over 5,2% of the population.

Table 11: Percentage distribution of the projected provincial share of the total population, 2002–2016

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
EC	13.3	13.3	13.2	13.2	13.1	13.0	13.0	12.9	12.9	12.8	12.8	12.7	12.7	12.7	12.6
FS	5.8	5.8	5.7	5.7	5.6	5.5	5.5	5.4	5.4	5.3	5.3	5.2	5.2	5.2	5.1
GP	22.4	22.5	22.6	22.8	22.9	23.1	23.2	23.3	23.4	23.6	23.7	23.8	23.9	24.0	24.1
KZN	20.0	20.0	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.8	19.8	19.8	19.8	19.8
LP	10.7	10.6	10.6	10.6	10.6	10.5	10.5	10.5	10.5	10.4	10.4	10.4	10.4	10.4	10.4
MP	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.7
NC	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.1
NW	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.8	6.8	6.8	6.8	6.8	6.8
wc	11.1	11.1	11.1	11.1	11.1	11.1	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.3
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

5.3 Migration patterns

From Census 2011 it was possible to determine out-migration rates for each province. Applying these rates to the age structures of the province it was possible to establish migration streams between the provinces. The result of these analyses is shown in Tables 12, 13 and 14. The assumptions imply that Gauteng and Western Cape received the highest number of migrants. Mpumalanga and North West provinces also received positive net migration. The Eastern Cape, Free State and Limpopo experienced the largest proportion of outflow.

5.4 Provincial estimates by age and sex

Table 15 shows the detailed provincial population estimates by age and sex. Where necessary the totals by age were reconciled with the national totals for males and females separately.

About 30,1% of the population is aged younger than 15 years and approximately 8,0% (4,42 million) is 60 years or older. Of those younger than 15 years approximately 23,0% (3,86 million) live in KwaZulu-Natal and 20,4% (3,43 million) live in Gauteng. The province with the smallest population namely Northern Cape has 27,9% of its population aged younger than 15 years and more than a tenth of the population aged 60 years and older.

Table 12: Estimated provincial migration streams 2001–2006

Province in				Ţ	Province in 2006	90(
2001	EC	FS	GP	KZN	3	d N	CN	MIA	CAN	Out-	스 .	Net
EC.		901	202	0.00			2		2	mgrants	migrants	migration
		081 6	76/ 00	43 358	6 682	8 318	3 775	18 450	77 859	236 431	158 993	277 430
FS	6 793	1	61 771	7 024	5 501	090 6	6 190	19 868	0 901	106 100	700 007	200
GР	49 354	39 819	*	67 027	84 947	78 887	10 600	000	100 0	120 100	100 001	-18 108
KZN	46 770	1					12 002	22 0/8	90 183	522 306	985 700	463 395
	10 / /3	8 /49	135 684	,	6 346	23 404	2 057	8 299	19 659	22n 074	106 042	400
LIM	3 567	4 821	207 615	6 159	1	30 248	7007	000 40	200	100,000	130 042	-24 929
Ç						014 00	t 000	000 17	850 8	284 699	205 361	-79 338
7	4 376	5 144	103 952	12 469	24 068	1	1 972	12 205	7 065	170 151	מטני זיטני	1 4 6
S	3 774	7 504	16 425	4 970	7 424	2 702	;		200	107	885 CU2	33 247
ACE			2	2		2 (03	1	11 059	16 130	65 784	63 130	-2 654
AAN	4 230	10 597	96 697	4 986	16 270	9 717	18 132	•	7 428	168 057	736 467	100
WC	51 478	6 554	62 814	13 131	5 810	6 768	12 R24	7 188		460 000	200 400	00 400
Outside SA	18 648	15 614	231 952	36 908	53 606	35 414	3 685	37 BEO	2000	000 001	234 ppp	128 099
							200	600	20 332			

Table 13: Estimated provincial migration streams 2006–2011

Province in				ď	Province in 2011	7	***************************************					
2006	EC	FS	GБ	KZN	3	a Z	SZ	AN	OW.	Out	Ġ	Net
EC	1	9 619	71 849	45 287	7 001	8 740	3 056	10 282	04 202	migrants	migrants	migration
FS	7 091	ī	64 456	7 330	5 744	9 459	6 464	20 737	40 322	131 603	770 277	-/0 486
GР	54 349	43 874	ı	73 802	93 654	86 697		109 803	980 00	57E 240	1 105 750	-11 010
KZN	17 635	9 189	142 576	\$	6 676	24 623	2 165	727 8	20 AAB	232 249	730 480	530 401
٥	3 762	5 079	218 199	6 490		31 860	2 000	23 030	240	202 240	220 180	25 55
2	4 679	5 495	110 989	13 216	25 704	2	2 200	670 67	000 6	299 419	730 167	-63 256
SC	4 080	8 118	17 759	a76 A	100000			13 04/	8 208	183 849	230 290	46 442
M.	4 546	11 308	103 004	200	47 700	080 4	ŧ .	11 956	17 456	71 144	68 785	-2 359
J.W.		1 200	100 00	1000	07C /1	10 464	19 494		7 976	180 753	264 678	83 925
2	32 3/4	460 /	909 /9	14 122	6 255	7 284	13 808	7 738	,	179 443	330 290	150 847
Outside SA	24 806	20 764	308 323	49 096	71 299	47 103	4 906	50 346	75 791			



14

Table 14: Estimated provincial migration streams 2011-2016

Province in					Province in 2016	016				Ç		†oN
2011	SE C	FS	g	KZN		MP	NC	NW	WC	migrants	migrants	migration
EC	t	9 639	71 946	45 419	7 029	8 745	3 983	19 277	81 399	247 437	194 507	-52 930
FS	7 401		67 227	7 657	6 007	9 878	6 753	21 651	10 794	137 367	133 048	-4 319
GP	59 561	48 103	Vertiletelle berken ber der der der der der der der der der d	80 968	102 672	95 107	15 225	120 436	108 977	631 048	1 216 258	585 211
KZN	18 463	9 613	149 361		7 027	25 813	2 275	9 172	21 714	243 439	242 755	-684
LIM	3 848	5 179	222 147	6 635	ı	32 513	2 047	23 479	9 182	305 030	266 751	-38 279
MP	4 936	5 787	116 691	14 014	27 016	1	2 227	13 734	8 959	193 363	254 363	61 000
NC	4 459	8 896	19 456	5 860	2 537	4 471	1	13 076	19 159	77 914	74 759	-3 154
32	4 950	12 369	112 810	5 829	19 024	11 366	21 184	ŧ	8 691	196 223	291 821	95 598
WC	60 042	7 644	73 275	15 324	6 782	7 901	14 964	8 395	1	194 328	363 114	168 786
Outside SA	30 846	25 819	383 345	61 049	88 657	58 570	6 101	62 601	94 240			

40/az

Table 15: Provincial population estimates by age and sex, 2016

	ŭ	Eastern Cape	e		Free State	Witness		- Sustantia	A STATE OF THE STA						
Age	Male	Female	Total	Male	Female	Total		Cauteing	a with	i	NWazulu-Natai			Limpopo	
					200	Cla	Wate	remale	otal	Male	Female	Total	Male	Female	Total
7	430 478	417 716	848 194	139 156	136 820	275 977	618 383	604 616	1 222 999	685 227	666 041	1 351 268	338 759	330 784	669 542
23	431 548	419 399	850 946	138 614	138 402	277 016	578 295	569 075	1 147 370	680 431	662 993	1 343 424	327 047	320 100	
10-14	382 351	373 510	755 861	126 603	127 137	253 739	536 815	526 737	1 063 552	589 156		168	286 627	282 543	
15-19	329 232	323 218	652 450	132 883	131 128	264 010	490 032	482 735	972 767		518 345	031	295 665		
20-24	367 943	369 424	737 367	139 663	138 035	277 699	577 270	567 153	1 144 423			g g	211 ROE	210 069	
25-29	365 314	365 676	730 990	146 149	141 358	287 507	660 760	639 405	1 300 165	530 847		0770			
30-34	264 648	284 077	548 725	116 759	119 582	236 341	578 739	588 859	1 167 598	409 157	452 851	50 5	207 777	344 535	
35-39	189 780	206 150	395 929	97 452	102 842	200 294	583 108	567 945		325 071		690 336			409 309 377 384
40-44	137 032	159 555	296 587	78 922	85 828	164 750	534 729	493 144	1 027 872	254 034	290 992	545 026			E
45-49	112 958	145 220	258 179	69 328	76 207	145 535	447 584	410 053	857 637	195 963	243 345	439 308	95 357		
50-54	94 717	134 143	228 860	58 493	64 900	123 393	360 083	335 510	695 593	162 835	217 037	379 871			
55-59	83 406	128 574	211 980	49 217	56 311	105 527	292 027				188 251	300 0CB		112 /30	
60-64	67 753	106 574	174 327	39 447	48 600	88 047	219 906	224 697			154 876	263 251		30 001	
6959	48 953	83 289	132 242	27 426	37 953	65 379	153 358		319 444	81 786		240 534		00 00/	
70-74	33 760	65 489	99 249	17 560	27 952	45 512	95 862	117 752	m		92 226	143 137			70 670
75–79	23 839	55 780	79 619	9 251	18 107	27 358	46 906	65 297	112 204						
+08	16 664	43 549	60 212	5 693	17 839	23 532	26 311	54 098	80 409	18 812	50 250				
Total	3 380 375	3 681 342	7 061 717	1 392 616	1 469 002	2 861 618	6 800 169	6 697 982 13 498 151	13 498 151	8 120	1 597	2 717	2 747 049	803	803 644





Table 15: Provincial mid-year population estimates by age and sex, 2016 (concluded)

		Mpumalanga	ā	Ž	Northern Cape	96	-	North West		×	Western Cape	ė	4	All provinces	
Age	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
4	224 602	220 185	444 787	53 979	52 498	106 476	202 705	200 109	402 814	274 348	266 490	540 838	2 967 638	2 895 258	5 862 896
59	225 956	221 833	447 790	57 767	56 294	114 061	202 611	200 912	403 523	268 070	261 664	529 734	2 910 339	2 850 772	5 761 111
10-14	212 464	209 094	421 558	56 533	55 448	111 980	174 549	173 318	347 867	248 380	243 063	491 443	2 613 476	2 569 758	5 183 234
15–19	211 391	211 677	423 068	55 976	55 058	111 034	164 743	159 529	324 272	256 757	251 130	507 887	2 450 105	2 423 769	4 873 874
20-24	218 852	216 123	434 975	56 944	54 214	111 157	177 556	168 155	345 712	273 040	269 819	542 858	2 662 837	2 652 452	5 315 289
25-29	231 826	218 208	450 034	59 718	54 569	114 287	194 382	175 548	369 931	296 064	285 790	581 854	2 784 543	2 722 783	5 507 326
30-34	186 809	183 058	369 867	49 302	45 839	95 140	161 159	148 279	309 437	256 004	264 621	520 625	2 250 349	2 328 700	4 579 049
35-39	152 362	153 897	306 259	41 623	39 561	81 184	143 743	128 864	272 607	240 817	250 409	491 226	1 947 990	2 013 283	3 961 273
40-44	117 284	126 517	243 801	34 541	34 062	68 604	117 061	107 376	224 437	219 721	224 828	444 549	1 617 444	1 679 113	3 296 557
45-49	93 662	105 682	199 344	30 884	31 505	62 390	101 457	91 803	193 261	199 571	209 387	408 958	1 346 765	1 442 044	2 788 809
50-54	76 845	87 282	164 127	25 512	26 831	52 343	87 100	76 349	163 449	165 300	174 703	340 003	1 106 648	1 229 493	2 336 141
55-59	60 413	68 908	129 321	22 028	23 992	46 020	73 072	65 126	138 199	131 433	148 448	279 882	905 993	1 059 937	1 965 930
60-64	47 479	57 354	104 833	18 053	20 865	38 918	52 031	53 495	105 526	100 738	115 227	215 965	702 679	865 575	1 568 254
699	32 034	42 030	74 063	13 029	16 453	29 482	34 193	40 248	74 441	74 292	90 108	164 400	500 476	670 567	1 171 043
70–74	19 629	30 094	49 723	9 062	13 127	22 189	21 995	32 783	54 779	50 077	65 675	115 752	320 954	493 679	814 633
75–79	10 541	22 018	32 559	5 166	8 338	13 504	10 566	21 073	31 639	28 727	38 949	67 676	176 031	330 167	506 198
+08	8 602	23 545	32 147	3 955	8 924	12 879	6 080	22 642	28 722	18 231	31 318	49 549	115 461	301 787	417 248
Total	2 130 753	2 197 503	4 328 256	594 071	597 580	1 191 651	1 925 004	1 865 610	3 790 614	3 101 572	3 191 628	6 293 200	27 379 728	28 529 137	55 908 865
_							- I was a second and a second a								

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NEGARICE	2016/2017	2761717016	2018/2019	2010/2020
	WATERVAL BOVEN			
	WHITE RIVER			
WESTERN CAPE	GORDONS BAY			
	MAITLAND			
	MFULENI (BLUE DOWNS)			
	P A HAMLET	***************************************		
	WOODSTOCK			
TOTALS	99	d	0	Ü

SAPS: Acquisition of Leased Police Stations

PROMINGE	2016, 201	2017/2018	2019/2519	2632/2071
FREE STATE	BEACON BAY			KABEGA PARK
	MOTHERWELL (IKAMVELIHLE)			
GAUTENG		HONEYDEW	MIDRAND	FOCHVILLE
		VILLERIA	MULDERSDRIFT	
			SHARPVILLE	
KWAZULU-NATAL	CRAMOND			NEWLANDS EAST
	LAMONTVILLE			
LIMPOPO			MAKHADO	MODIMOLLE
			VAALWATER	
NORTH WEST		TLHABANE		
WESTERN CAPE			VILLIERSDORP	
			PAROW	
WESTERN CAPE			STRAND	
TOTALS	4	3	8	

SAPS: Acquisition of Land

PROVINCE	2010) 2017	40177.2018	ROTO (21) 19	2010/2026
FREE STATE	BLOEMSPRUIT (SONSKYN)			
	KUTLWANONG			



	MAKGOLOKWENG		
NORTHERN CAPE	RIEMVASMAAK		
WESTERN CAPE	MAKHAZA		
	TAFELSIG		
TOTALS	5	e December (a) a company of the	0

Planned Maintenance Programme

SAPS: Planning and Design

PACIFIE			2276021118	2038/2020
EASTERN CAPE	ALIWAL NORTH	MACLEAR	MOOIPLAAS	KOLOMANE
FREE STATE		BRANDFORT	THEUNISSEN	VILLIERS
GAUTENG				SANDTON
KWAZULU-NATAL	ELANDSLAAGTE			
LIMPOPO	ROOSSENEKAL	SAAMBOUBRUG	ZEBEDIELA	
MPUMALANGA	VAL	SKUKUZA	SCHOEMANSDAL	VAALBANK
				WATERVALBOVEN
NORTHERN CAPE	VICTORIA WEST		KATHU	
WESTERN CAPE	PHILIPPI	HEIDELBERG		
	SEA POINT			
TOTALS	7	5	.5	

SAPS: Execution

PAUXIME	- 1900 - 1900 - 1900 - 1900 - 1900 - 1900 - 1900 - 1900 - 1900 - 1900 - 1900 - 1900 - 1900 - 1900 - 1900 - 190 - 1900 - 1900 - 1900 - 1900 - 1900 - 1900 - 1900 - 1900 - 1900 - 1900 - 1900 - 1900 - 1900 - 1900 - 1900 - 190	2017/2018	2015X 2815¥	Zeriu agra
EASTERN CAPE	INDWE	AFSONDERING	BALFOUR	ALIWAL NORTH
	MQANDULI	IDA	DUNCAN VILLAGE	CAMBRIDGE
	MZAMBA	INDWE	ELANDSHEIGHT	
		КАТКОР	JEFFREY'S BAY	
		KEI MOUTH	LADY GREY	
			MQANDULI	
			ROSSOUW	
FREE STATE			TWEELING	



PROMACE	2015/2017	2/157/2018	2010/2019	304.8) 30.50
GAUTENG	DOUGLASDALE			
KWAZULU-NATAL	EZIBAYENI		EMPANGENI	ELANDSLAAGTE
	INANDA		HELPMEKAAR	
	NYONI		HLABISA	
			IZINGOLWENI	
			MAHLABATINI	
			MOUNTAIN RISE	
KWAZULU-NATAL			MTUNZINI	
			PORT EDWARD	
			TUGELA FERRY	
LIMPOPO	SOEKMEKAAR	BANDELIERSKOP	MAKUYA	ROOSSENEKAL
			THABAZIMBI	
MPUMALANGA			BADPLAAS	
			BELFAST	
			CHARL CILLIERS	
			LYDENBURG	
	1765764444444444444444444444444444444444		VAL	
NORTH WEST	WOLAMARANSSTAD			
WESTERN CAPE	DE RUST	CALITZDORP	CLAREMONT	PHILLIPI
	KRAAIFONTEIN	GANSBAY	TABLE VIEW	SEA POINT
	NUWERUS	LEEU GAMKA	WYNBERG	MOWBRAY
		LUTZVILLE		
	A SAME MANAGEMENT OF THE PROPERTY OF THE PROPE	PRINCE ALFRED HAMLET		
		UNIONDALE		



Planned Maintenance: Maintenance Contracts

SAPS: Generators

PROVINCE	2016/2017 2017/20	8 2018/ 2018/ 2018
EASTERN CAPE	ADDO	ADDO
	AFSONDERING	AFSONDERING
	ALEXANDREA	ALEXANDREA
	ALICE	ALICE
	ALICEDALE	ALICEDALE
	ALIWAL NORTH	ALIWAL NORTH
	BALFOUR	BALFOUR
	BAVIAANSKLOOF	BAVIAANSKLOOF
	BELL	BELL
	BERLIN	BERLIN
	BISHO	BISHO
	BUFFALO FLATS	BUFFALO FLATS
	CAMBRIDGE WEST	CAMBRIDGE WEST
	CHALUMNA	CHALUMNA
	DALASILE	DALASILE
	DIMBASA	DIMBASA
	DUKATTHOLE (MALETSWAI)	DUKATTHOLE (MALETSWAI)
	DUNCAN VILLAGE	DUNCAN VILLAGE
	ELANDS HEIGHTS	ELANDS HEIGHTS
	EZIBILENI	EZIBILENI
	FISH RIVER (MOYENI)	FISH RIVER (MOYENI)
	GAMBLEVILLE (KAMESH)	GAMBLEVILLE (KAMESH)
	HAMBURG	HAMBURG
EASTERN CAPE	HENDERSON	HENDERSON
	HOGSBACK	HOGSBACK



ILINGE ILINGE INDWE JEFFREYS BAY JOZA KATKOP KEI BRIDGE KEI MOUTH KEISKAMMAHOEK KIDDS BEACH KOLOMANE KOMGA KUBUSIEDRIFT KWANOBUHLE LADY FRERE LADY GREY	IDA ILINGE INDWE JEFFREYS BAY JOZA KATKOP KEI BRIDGE KEI MOUTH
INDWE JEFFREYS BAY JOZA KATKOP KEI BRIDGE KEI MOUTH KEISKAMMAHOEK KIDDS BEACH KOLOMANE KOMGA KUBUSIEDRIFT KWANOBUHLE LADY FRERE LADY GREY	JEFFREYS BAY JOZA KATKOP KEI BRIDGE
JEFFREYS BAY JOZA KATKOP KEI BRIDGE KEI MOUTH KEISKAMMAHOEK KIDDS BEACH KOLOMANE KOMGA KUBUSIEDRIFT KWANOBUHLE LADY FRERE LADY GREY	JEFFREYS BAY JOZA KATKOP KEI BRIDGE
JOZA KATKOP KEI BRIDGE KEI MOUTH KEISKAMMAHOEK KIDDS BEACH KOLOMANE KOMGA KUBUSIEDRIFT KWANOBUHLE LADY FRERE LADY GREY	JOZA KATKOP KEI BRIDGE
KATKOP KEI BRIDGE KEI MOUTH KEISKAMMAHOEK KIDDS BEACH KOLOMANE KOMGA KUBUSIEDRIFT KWANOBUHLE LADY FRERE LADY GREY	KATKOP KEI BRIDGE
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KEI MOUTH KEISKAMMAHOEK KIDDS BEACH KOLOMANE KOMGA KUBUSIEDRIFT KWANOBUHLE LADY FRERE LADY GREY	
KEISKAMMAHOEK KIDDS BEACH KOLOMANE KOMGA KUBUSIEDRIFT KWANOBUHLE LADY FRERE LADY GREY	KEI MOUTH
KIDDS BEACH KOLOMANE KOMGA KUBUSIEDRIFT KWANOBUHLE LADY FRERE LADY GREY	
KOLOMANE KOMGA KUBUSIEDRIFT KWANOBUHLE LADY FRERE LADY GREY	KEISKAMMAHOEK
KOMGA KUBUSIEDRIFT KWANOBUHLE LADY FRERE LADY GREY	KIDDS BEACH
KUBUSIEDRIFT KWANOBUHLE LADY FRERE LADY GREY	KOLOMANE
KWANOBUHLE LADY FRERE LADY GREY	KOMGA
LADY FRERE LADY GREY	KUBUSIEDRIFT
LADY GREY	KWANOBUHLE
	LADY FRERE
1182101101101101	LADY GREY
LUKHOLWENI	LUKHOLWENI
MACLEANTOWN	MACLEANTOWN
MACLEAR	MACLEAR
MBIZENI	MBIZENI
MOLTENO	MOLTENO
MOOIPLAAS	MOOIPLAAS
MQANDULI	MQANDULI
MZAMBA	MZAMBA
NDEVANA	NDEVANA
NTABATHEMBA	NTABATHEMBA
PATENSIE	DATENCIE
PEARSTON	PATENSIE
PEDDIE	PEARSTON
PUNZANA	

Jan ar

RROWNER	2016/2017	29177.2018	2048/2619	2010/2020
	RHODES			RHODES
	RIEBEECK EAST			RIEBEECK EAST
	ROSSOUW			ROSSOUW
	SEYMOUR			SEYMOUR
	STERKSTROOM			STERKSTROOM
With the second	STEVE VUKILE TSHWETE			STEVE VUKILE TSHWETE
	STEYNSBURG		(4,000,000,000,000,000,000,000,000,000,0	STEYNSBURG
	STUTTERHEIM			STUTTERHEIM
	TAMARA			TAMARA
	TARKASTAD			TARKASTAD
	TINA FALLS			TINA FALLS
	TYLDEN			TYLDEN
	UGIE			UGIE
	VENTERSTAD			VENTERSTAD
	WILLOW VALE			WILLOWVALE
	ZAMUXOLO			ZAMUXOLO
FREE STATE	ARLINGTON	ARLINGTON		
	BAINSVLEI	BAINSVLEI		
	BRANDFORT	BRANDFORT		1,
	EDENBURG	EDENBURG		
	FAURESMITH	FAURESMITH		
	GLEN	GLEN		
<u></u>	HOBHOUSE	HOBHOUSE		
	KESTELL	KESTELL		and the state of t
	KUTLOANONG	KUTLOANONG		
	NYAKALLONG	NYAKALLONG		
	REDDERSBURG	REDDERSBURG		
	ROSENDAL	ROSENDAL		
	STEUNMEKAAR	STEUNMEKAAR	-	
-	THEUNISSEN	THEUNISSEN		



BEST 1884, E.	201412117	311 / W.E.	2018/2019	201W 2020
	TIERPOORT	TIERPOORT		
	TUMAHOLE	TUMAHOLE		
	TURFLAAGTE	TURFLAAGTE (KOPANONG)		
		TWEELING		
		VILLIERS		
		ZASTRON		
GAUTENG	возснкор		возснкор	
	DOUGLASDALE		DOUGLASDALE	
	EDENVALE		EDENVALE	
	EKANGALA		EKANGALA	
	ENNERDALE		ENNERDALE	
	GARANKUWA		GARANKUWA	
	HAMMANSKRAAL		HAMMANSKRAAL	
	KLIPRIVIER	·	KLIPRIVIER	
	MORNINGSIDE (SANDTON)		MORNINGSIDE (SANDTON)	
	NEW ALEXANDRA		NEW ALEXANDRA	
	NORKEM PARK		NORKEM PARK	
	TEMBISA		TEMBISA	
KWAZULU-NATAL	BABANANGO	BABANANGO		
	DUNDEE	DUNDEE		
	ELANDSLAAGTE	ELANDSLAAGTE		
	EMPANGENI	EMPANGENI		
	ESIKHAWINI	ESIKHAWINI		
	EVATT	EVATT		
	EZIBAYENI	EZIBAYENI		
	FRANKLIN	FRANKLIN		
	GLENCOE	GLENCOE		
	GROENVLEI	GROENVLEI		
	HAMMARSDALE	HAMMARSDALE		
	HARBURG	HARBURG		



Company Section 1	22467 2017	2017/2018	2018/3019	27 19 °E20
	HATTINGSPRUIT	HATTINGSPRUIT		
	HELPMEKAAR	HELPMEKAAR		
	HILTON	HILTON		
	HLABISA	HLABISA		
	IMPENDLE	IMPENDLE		
KWAZULU-NATAL	IZINGOLWENI	INANDA		
	KINGSLEY	IZINGOLWENI		
	KOKSTAD	KINGSLEY		
	LOSKOP (AMANGWE)	KOKSTAD		
	LOUWSBURG	LOSKOP (AMANGWE)		
	MAHLABATINI	LOUWSBURG	,,,,,,	
	MEHLOMNYAMA	MAHLABATINI		
	MKUZE	MEHLOMNYAMA		
	MOUNTAIN RISE	MKUZE		
	MPUNGAMHLOPE	MOUNTAIN RISE	Addition and the state of the s	
	MSINSINI	MPUNGAMHLOPE		
	MTUNZINI	MSINSINI		
	NTABAMHLOPE	MTUNZINI		
	NYONI	NTABAMHLOPE		
	PORT EDWARD	NYONI		
	TUGELA FERRY (MSINGA)	PORT EDWARD		
	UMKOMAAS	TUGELA FERRY (MSINGA)		V4444444444444444444444444444444444444
	UMZINTO	UMKOMAAS		
W P P	VRYHEID	UMZINTO		
	WASBANK	VRYHEID		***
		WASBANK		
LIMPOPO	DENNILTON			BANDELIERSKOP
	GA MASEMOLA	\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-		DENNILTON
	GRAVELOTTE			DISTRICT (TOLWE)
 - 	GROBLERSDAL			GA MASEMOLA
-	HOOPDAL			GRAVELOTTE
	MAKUYA			GROBLERSDAL



THE TOTAL TO	2016/2017 2017/2018	2019/2019 2019/2020
	MARBLE HALL	HOOPDAL
	MOOKGOPONG	LETSITELE
	MOREBENG	MAKUYA
	ROOIBERG	MARBLE HALL
	ROOSSENEKAL	MOOKGOPONG (NABOOMSPRUIT)
	SAAMBOUBRUG	MOREBENG (SOEKMEKAAR)
	THABAZIMBI	MUSINA
	ZAAIPLAAS	RANKIN'S PASS
	ZEBEDIELA	ROOIBERG
		ROOSSENEKAL
		SAAMBOUBRUG
		THABAZIMBI
		ZAAIPLAAS
		ZEBEDIELA
MPUMALANGA	AMERSFOORT	AMERSFOORT
	BADPLAAS	BADPLAAS
	BALFOUR	BALFOUR
	BARBERTON	BARBERTON
	BELFAST	BELFAST
	CAROLINA	CAROLINA
	CHARL CILLIERS	CHARL CILLIERS
MPUMALANGA	DAVEL	DAVEL
	DELMAS	DELMAS
	DIRKIESDORP	DIRKIESDORP
	ELUKWATINI	ELUKWATINI
	GREYLINGSTAD	GREYLINGSTAD
	HAZYVIEW	HAZYVIEW
	KANYAMAZANE	KANYAMAZANE
	KINROSS	KINROSS
	KRIEL	KRIEL



PENNINCE	2018) 2017	2017/ 2018 2018/ 2018/ 2018	200(3) 20(20)
	LOUW'S CREEK		LOUW'S CREEK
	LYDENBURG		LYDENBURG
	МАНАМВА	7,7711	МАНАМВА
	MAYFLOUR		MAYFLOUR
	MKHUHLU (CALCUTTA)		MKHUHLU (CALCUTTA)
	PERDEKOP		PERDEKOP
	PIENAAR		PIENAAR
	PIET RETIEF	The second secon	PIET RETIEF
	SABIE		SABIE
	SAKHILE		SAKHILE
	SCHOEMANSDAL		SCHOEMANSDAL
	SHEEPMOOR		SHEEPMOOR
	SKUKUZA		SKUKUZA
	SUNDRA		SUNDRA
	VAALBANK		VAALBANK
	VAL		VAL
	VOLKSRUST		VOLKSRUST
	WAKKERSTROOM		WAKKERSTROOM
	WATERVAL BOVEN		WATERVAL BOVEN
	WHITE RIVER		WHITE RIVER
NORTH WEST			HEBRON
			LOMANYANENG
in the construction of the			MMAKAU
			PIET PLESSIS
			WOLMARANSSTAD
NORTHERN CAPE	BELMONT	BELMONT	
	BRANDVLEI	BRANDVLEI	
	CAMPBELL	CAMPBELL	
	DELPORTSHOOP	DELPORTSHOOP	
	HARTSWATER	HARTSWATER	



	KATHU	KATHU	
		IVIIIV	
	KUYASA	KUYASA	
	LOXTON	LOXTON	
	MIDDELPOS	MIDDELPOS	
	NIEKERKSHOOP	NIEKERKSHOOP	
	NORVALSPONT	NORVALSPONT	
	NOUPOORT	NOUPOORT	
	OLIFANTSHOEK	OLIFANTSHOEK	
	ONSEEPKANS	ONSEEPKANS	
	PHILLIPSTOWN	PHILLIPSTOWN	
	POFADDER	POFADDER	
NORTHERN CAPE	PORT NOLLOTH	PORT NOLLOTH	
	RIETFONTEIN	RIETFONTEIN	
	STRYDENBURG	STRYDENBURG	
	VICTORIA WEST	VICTORIA WEST	
	VIOOLSDRIFT	VIOOLSDRIFT	
	WITDRAAI	WITDRAAI	
WESTERN CAPE	BELLVILLE SOUTH		BELLVILLE SOL
	BONNIEVALE		BONNIEVALE
	CALITZDORP		CALITZDORP
	CAMPS BAY		CAMPS BAY
	CLAREMONT		CLAREMONT
	DE DOORNS	770.4.11.4.11.11	DE DOORNS
	DE RUST		DE RUST
	DELFT		DELFT
	ELANDS BAY		ELANDS BAY
	FISH HOEK		FISH HOEK
	FRANSCHHOEK		FRANSCHHOEK
	GANS BAY		GANS BAY
	GORDONS BAY		GORDONS BAY
	GREAT BRAK RIVER		GREAT BRAK RI



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PROMINE



FFEENINGE	2016/2017 2017/2018	2010/2018 2010/20 <u>20</u>
WESTERN CAPE	TABLE VIEW	SUURBRAAK
	TOUWS RIVER	TABLE VIEW
	TULBAGH	TOUWS RIVER
	UNIONDALE	TULBAGH
	VAN RHYNSDORP	UNIONDALE
	WELLINGTON	VAN RHYNSDORP
	WOODSTOCK	WELLINGTON
	ZWELETEMBA	WOODSTOCK
		WYNBERG
		ZWELETEMBA
TOTALS	282 58	34 168

SAPS: Air Conditioners

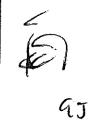
PHENNEE	2017) 2018	2010/2019 2019
EASTERN CAPE	BELL	ADDO
	INDWE	ALEXANDREA
	KUBUSIEDRIFT	ALICE
	LADY GREY	ALICEDALE
	MOLTENO	ALIWAL NORTH
	NDEVANA	BALFOUR
	PEDDIE	BAVIAANSKLOOF
	STERKSTROOM	BELL
	STEVE VUKILE TSHWETE	BERLIN
	STEYNSBURG	BISHO
	STUTTERHEIM	BUFFALO FLATS
	TAMARA	CAMBRIDGE WEST
	VENTERSTAD	CHALUMNA
	WILLOW VALE	DALASILE
	ALICE	DIMBASA



ALIMAL NORTH BUFFALO PLATS BUFFALO PLATS CAMBRIDGE CHALUMNA DALASILE CHALUMNA DALASILE DIMBAZA DIMBAZA DIMBAZA DIMCAN VILLAGE ELANDS HEIGHT HENDERSON HAMBURG HENDERSON IDA REI BRIDGE KEI BRIDGE KEI BRIDGE NTAWE AKABETHEMBA NTABETHEMBA EASTERN CAPE EASTERN CAPE EASTERN CAPE ARE ARE ARE DUFFALO PLATS DUNCAN VILLAGE ELANDS HEIGHT HENDERSON IDA RUINGE REI MOUTH KIDDS BEACH KOMGA KEI BRIDGE KEI MOUTH KEISKAMMAHOEK KIDDS BEACH KOMGA KEISKAMMAHOEK KOLOMANE KOMGA KUBUSIEDRIFT KOMGA KUBUSIEDRIFT KOMGA KUBUSIEDRIFT KOMANOBUHLE LADY FRERE LADY FRERE LADY GREY MACLEANTOWN MACLEARTOWN MACLASS MOONIOLLI MIZAMBA	PERCATORICE	2016/2017	2017/2018	2613/20th	C#194 2020
CAMBRIDGE CHALLIMINA EZIBILEN DALASILE DIMBAZA CGAMBLEVILLE (KAMESH) DUNCAN VILLAGE ELANDS HEIGHT HAMBURG ELANDS HEIGHT HAMBURG HENDERSON IDA ILLINGE INDWE KEI BRIDGE KEI MOUTH KIDDS BEACH KOMGA KEI BRIDGE KEI MOUTH KEISKAMMAHOEK KEI SKIMOUTH KIDDS BEACH KOMGA KEI BRIDGE KEI MOUTH KEISKAMMAHOEK KUBUSIEDRIFT KWANOBUHLE LADY FRERE LADY FRERE LADY GREY MACLEANTOWN MACLEARTOWN MACLEARTOWN MOOIPLAAS MOOIPLAAS MOOIPLAAS MOOIPLAAS MOOIPLAAS MOOIPLAAS MOOIPLAAS		ALIWAL NORTH			
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DALASILE DIMBAZA CAMBLEVILLE (KAMESH) DUNCAN VILLAGE ELANDS HEIGHT HAMBURG HENDERSON IDA IDA IDA ILLINGE KEI BRIDGE KEI MOUTH KIDDS BEACH NTABETHEMBA EASTERN CAPE EASTERN CAPE DALASILE FISH RIVER (MOYENI) FISH RIVER (MOYENI) GAMBLEVILLE (KAMESH) HENDERSON IDA ILLINGE INDWE KEI MOUTH JEFFREYS BAY JOZA KEI BRIDGE KEI MOUTH KEISKAMMAHOEK KIDDS BEACH KOLDMANE KOMGA KUBUSIEDRIFT KWANOBUHLE LADY FRERE LADY GREY MACLEANTOWN MACLEAR MOLTENO MOOIPLAAS MOANDULI		CAMBRIDGE			ELANDS HEIGHTS
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DUNCAN VILLAGE		DALASILE			FISH RIVER (MOYENI)
ELANDS HEIGHT HAMBURG HOGSBACK HENDERSON IDA IDA ILLINGE KEI BRIDGE KEI MOUTH JEFFREYS BAY KIDDS BEACH JOZA KOMGA KEI BRIDGE NTABETHEMBA KEI SKAMMAHOEK KIDDS BEACH KOMGA KEI SKAMMAHOEK KIDDS BEACH KOMGA KUBUSIEDRIFT KWANOBUHLE LADY FRERE LADY GREY MACLEANTOWN MACLEAR MOLTENO MOOIPLAAS MOANDULLI		DIMBAZA			
HAMBURG HOGSBACK HENDERSON IDA IDA IDA ILLINGE KEI BRIDGE INDWE KEI MOUTH JEFFREYS BAY KIDDS BEACH JOZA KOMGA KEI BRIDGE NTABETHEMBA KEI MOUTH KEISKAMMAHOEK KIDDS BEACH KOLDMANE KOMGA KUBUSIEDRIFT KWANOBUHLE LADY FRERE LADY GREY MACLEANTOWN MACLEAR MOLTENO MOOIPLAAS MOANDULI		DUNCAN VILLAGE			HAMBURG
HENDERSON		ELANDS HEIGHT			HENDERSON
IDA		HAMBURG			HOGSBACK
KEI BRIDGE KEI MOUTH JEFFREYS BAY KIDDS BEACH KOMGA KEI BRIDGE NTABETHEMBA NTABETHEMBA KEI MOUTH KIDDS BEACH KIDDS BEACH KIDDS BEACH KOLOMANE KOLOMANE KOMGA KUBUSIEDRIFT KWANOBUHLE LADY FRERE LADY GREY MACLEAR MOLTENO MOOIPLAAS MQANDULI		HENDERSON			IDA
KEI MOUTH		IDA			ILLINGE
KIDDS BEACH		KEI BRIDGE			INDWE
KOMGA KEI BRIDGE NTABETHEMBA KEI MOUTH KEISKAMMAHOEK KIDDS BEACH KOLOMANE KOMGA KUBUSIEDRIFT KWANOBUHLE LADY FRERE LADY GREY MACLEANTOWN MACLEAR MOLTENO MOOIPLAAS MOANDULI		KEI MOUTH	200		JEFFREYS BAY
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LADY GREY MACLEANTOWN MACLEAR MOLTENO MOOIPLAAS MQANDULI					KWANOBUHLE
MACLEANTOWN MACLEAR MOLTENO MOOIPLAAS MQANDULI					LADY FRERE
MACLEAR MOLTENO MOOIPLAAS MQANDULI					LADY GREY
MOLTENO MOOIPLAAS MQANDULI					MACLEANTOWN
MOOIPLAAS MQANDULI					MACLEAR
MQANDULI					MOLTENO
					MOOIPLAAS
MZAMBA					MQANDULI
					MZAMBA



	2016/2017	Mark 1990 2047/00/8	2018/2019	2014 2020
				NDEVANA
				NTABATHEMBA
				PATENSIE
				PEARSTON
				PEDDIE
				PUNZANA
				RHODES
				RIEBEECK EAST
				ROSSOUW
				SEYMOUR
				STERKSTROOM
				STEVE VUKELE TWETE
				STEYNSBURG
				STUTTERHEIM
				TAMARA
				TARKASTAD
				TINA FALLS
				TYLDEN
				UGIE
1				VENTERSTAD
				WILLOWVALE
FREE STATE	ARLINGTON	ARLINGTON		
	BAINSVLEI	BAINSVLEI		
00 VV	BRANDFORT	BRANDFORT		
	EDENBURG	EDENBURG		
-	FAURESMITH	FAURESMITH		
	GLEN	GLEN		
	HOBHOUSE	HOBHOUSE		
	KESTELL	KESTELL		
	KUTLOANONG	KUTLOANONG		
	NYAKALLONG	NYAKALLONG		
	REDDERSBURG	REDDERSBURG		



PHOYMUL	2018/2017	1 2047/ 2018	- 100 C 2018/2018	2010/2010
	ROSENDAL	ROSENDAL		
	STEUNMEKAAR	STEUNMEKAAR		
	THEUNISSEN	THEUNISSEN		
	TIERPOORT	TIERPOORT		
	TUMAHOLE	TUMAHOLE		
	TURFLAAGTE (KOPANONG)	TURFLAAGTE (KOPANONG)		
FREE STATE		TWEELING		
		VILLIERS		
		ZASTRON		
GAUTENG	NORKEM PARK		возснкор	
	ВОЅСНКОР		DOUGLASDALE	
	GARANKUWA		EDENVALE	
	HAMMANSKRAAL		EKANGALA	
	TEMBISA		ENNERDALE	
	NEW ALEXANDRA		GARANKUWA	
	DOUGLASDALE		HAMMANSKRAAL	
	EDENVALE		KLIPRIVIER	
	EKANGALA		MORNINGSIDE (SANDTON)	
	ENNERDALE		NEW ALEXANDRA	, ,
	KLIPRIVIER		NORKEM PARK	
	MORNINGSIDE (SANDTON)		TEMBISA	
KWAZULU-NATAL	GROENVLEI	BABANANGO		
	HAMMARSDALE	DUNDEE		
	HARBERG	ELANDSLAAGTE		
	HATTINGSPRUIT	EMPANGENI		
	HELPMEKAAR	ESIKHAWINI		<u></u>
	HILTON	EVATT		
	HLABISA	EZIBAYENI		
	IMPENDLE	FRANKLIN		
	IZINGOLWENI	GLENCOE		



FORMACE	2016/2017	2017/2018	2018/ 2019	7419/2020
	KINGSLEY	GROENVLEI		
	KOKSTAD	HAMMARSDALE		
-	LOSKOP	HARBURG		
	LOUWSBURG	HATTINGSPRUIT		
	MAHLABATINI	HELPMEKAAR		
	MEHLOMANYAMA	HILTON		
	MKUZE	HLABISA		
	MOUNTAIN RISE	IMPENDLE		
	BABANANGO	INANDA		
	DUNDEE	IZINGOLWENI		
	ELANDSLAAGTE	KINGSLEY		
	EMPANGENI	KOKSTAD		
	EZIKHAWENI	LOSKOP (AMANGWE)		
	EVATT	LOUWSBURG		
	EZIBAYENI	MAHLABATINI		
	FRANKLIN	MEHLOMNYAMA		
	GLENCOE	MKUZE		
	MPUNGAMHLOPE	MOUNTAIN RISE		
	MSINSINI	MPUNGAMHLOPE		
	MTUNZINI	MSINSINI		
	NTABAMHLOPE	MTUNZINI		
	NYONI	NTABAMHLOPE		
	PORT EDWARD	NYONI		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	TUGELA FERRY	PORT EDWARD		**************************************
	UMKOMAAS	TUGELA FERRY (MSINGA)		
KWAZULU-NATAL	UMZINTO	UMKOMAAS		
	VRYHEID	UMZINTO		
	WASBANK	VRYHEID		
		WASBANK		
IMPOPO	DENNILTON			BANDELIERKOP



PROVINCE	2015) 2017	2017/2006	2048/2019	Series 2030
	GA MASEMOLA			DENNILTON
	GRAVELOTTE			DISTRICT (TOLWE)
	GROBLERSDAL			GA MASEMOLA
	HOOPDAL			GRAVELOTTE
	MAKUYA	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		GROBLERSDAL
	MARBLE HALL			HOOPDAL
	MOOKGOPONG (NABOOMSPRUIT)			LETSITELE
	MOREBENG (SOEKMEKAAR)			MAKUYA
	RANKIN'S PASS			MARBLE HALL
	ROOIBERG			MOOKGOPONG (NABOOMSPRUIT)
	ROOSENEKAL			MOREBENG (SOEKMEKAAR)
	SAAMBOUBRUG			MUSINA
	THABAZIMBI			RANKIN'S PASS
	ZAAIPLAAS			ROOIBERG
introvening	ZEBEDIELA			ROOSSENEKAL
				SAAMBOUBRUG
		2 PP 14 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		THABAZIMBI
				ZAAIPLAAS
				ZEBEDIELA
MPUMALANGA				AMERSFOORT
				BADPLAAS
_				BALFOUR
				BARBERTON
		1		BELFAST
				CAROLINA
				CHARL CILLIERS
j j				DAVEL
				DELMAS
				DIRKIESDORP
				ELUKWATINI



STATE COLLECTION	27(6/2817	2018 2018 ZONE 2018	right of Alberta
			GREYLINGSTAD
			HAZYVIEW
			KANYAMAZANE
			KINROSS
			KRIEL
			LOW'S CREEK
			LYDENBURG
			МАНАМВА
			MAYFLOUR
			MKHUHLU (CALCUTTA)
			PERDEKOP
			PIENAAR
MPUMALANGA			PIET RETIEF
			SABIE
			SAKHILE
			SCHOEMANSDAL
			SHEEPMOOR
			SKUKUZA
			SUNDRA
			VAALBANK
			VAL
			VOLKSRUST
			WAKKERSTROOM
			WATERVAL BOVE
			WHITE RIVER
NORTH WEST			HEBRON
			LOMANYANENG
			MMAKAU
			PIET PLESSIS
			WOLMARANSSTAI
NORTHERN CAPE	BELMONT	BELMONT	
	CAMPBELL	BRANDVLEI	
	DELPOORTSHOOP	CAMPBELL	



PREMINCE	2018/2017	017/2018 2018/2014	7018 2026
	HARTWATER	DELPORTSHOOP	
	KATHU	HARTSWATER	
	KUYASA	KATHU	
	LOXTON	KUYASA	
	NIEKERKSHOOP	LOXTON	
	NOUPOORT	MIDDELPOS	
	OLIPHANTSHOEK	NIEKERKSHOOP	
	STRYDENBURG	NORVALSPONT	
	VICTORIA WEST	NOUPOORT	
	WITDRAAI	OLIFANTSHOEK	
	POFADDER	ONSEEPKANS	
	ONSEEPKANS	PHILLIPSTOWN	
	RIETFONTEIN	POFADDER	
	PHILIPSTOWN	PORT NOLLOTH	
	NOVALSPONT	RIETFONTEIN	
	BRANDVLEI	STRYDENBURG	
	MIDDLEPOS	VICTORIA WEST	
	PORT NOLLOTH	VIOOLSDRIFT	
	VIOOLSDRIFT	WITDRAAI	
WESTERN CAPE	BONNIEVALE		BELLVILLE SOUTH
	CALITZDORP		BONNIEVALE
<u> </u>	DE DOORNS		CALITZDORP
	DE RUST		CAMPS BAY
	ELANDS BAY		CLAREMONT
	FRANSCHHOEK		DE DOORNS
	GANS BAY		DE RUST
	GREAT BRAK RIVER		DELFT
	HEIDELBERG		ELANDS BAY
	HEROLD		FISH HOEK
	LADISMITH		
MECTERLOGE			FRANSCHHOEK
WESTERN CAPE	LANGEBAAN		GANS BAY
	LEEU GAMKA		GORDONS BAY



2016/ 2017 2017/ 2818	2018/2019 2019/2020
LUTZVILLE	GREAT BRAK RIVER
MALMESBURY	HARARE
MC GREGOR	HEIDELBERG
MERWEVILLE	HEROLD
MONTAGU	KENSINGTON
MURRAYSBURG	KRAAIFONTEIN
NUWERUS	LADISMITH
PA HAMLET	LANGEBAAN
PORTERVILLE	LEEU GAMKA
PRINCE ALBERT	LUTZVILLE
RIVIERSONDEREND	MACASSAR
STRANDFONTEN	MAITLAND
SUURBRAAK	MALMESBURY
TOUWS RIVER	MC GREGOR
TULBAGH	MERWEVILLE
UNIONDALE	MFULENI (BLUE DOWNS)
VAN RHYNSDORP	MONTAGU
WELLINGTON	MOWBRAY
ZWELETEMBA	MURRAYSBURG
	NUWERUS
	P A HAMLET
	PHILIPPI
	PHILIPPI EAST
	PORTERVILLE
	PRINCE ALBERT
	RIVIERSONDEREND
	RONDEBOSCH
	SEA POINT
	SIMONS TOWN
	SOMERSET WEST
	STRANDFONTEIN



PROVINCE	2016/ 2017	2017/2018	[1] (2018/2019)	2018/2020
				SUURBRAAK
				TABLE VIEW
				TOUWS RIVER
-				TULBAGH
				UNIONDALE
				VAN RHYNSDORP
- Language				WELLINGTON
				WOODSTOCK
				WYNBERG
				ZWELETEMBA
TOTALS	167	58	34 - Paris Paris	183

<u>NOTES</u>

