ORIGINAL PAPER



Top incomes in South Africa in the twentieth century

Facundo Alvaredo 1,2,3 · A. B. Atkinson 2,4,5

Received: 6 February 2021 / Accepted: 18 May 2021 / Published online: 25 June 2021 © The Author(s) 2021

Abstract

There have been important studies of recent income inequality and of poverty in South Africa, but very little is known about the long-run trends over time. There is speculation about the extent of inequality when the Union of South Africa was formed in 1910, but no hard evidence. In this paper, we provide evidence that is partial—being confined to top incomes—but which for the first time shows how the income distribution changed on a (near) annual basis from 1913 onwards. We present estimates of the shares in total income of groups such as the top 1% and the top 0.1%, covering the period from colonial times to the twenty-first century. For a number of years during the apartheid period, we have data classified by race. The estimates for recent years bear out the picture of South Africa as a highly unequal country, but allow this to be placed in historical and international context. The time series presented here will, we hope, provide the basis for detailed investigation of the impact of South African institutions and policies, past and present. But the similarity of the changes over time in top incomes across the four ex-dominions suggests that national developments have to be seen in the light of common global forces.

Keywords Top incomes · South Africa · Pareto · Colonial history · Inequality

Extended author information available on the last page of the article



We are most grateful to the following for their help in obtaining the data used in this paper: Cristina Da Silva and Cecil Morden (Treasury of South Africa), Deon Breytenbach (South African Revenue Service), Niek Schoeman (Bureau for Economic Policy and Analysis, University of Pretoria), Louis van Tonder, Mathando Lukoto and Jean-Marie Hakizimana (Statistics South Africa), Laureen Rushby and Fiona Jones (Chancellor Oppenheimer Library, University of Cape Town) and Natalia Pierce (Bodleian Library). They are not to be held responsible in any way for the use made of the information supplied. We are also indebted to Murray Leibbrandt and Ingrid Woolard for comments and discussions. We acknowledge financial support from the Institute for New Economic Thinking, and the ESRC-DFID joint fund (ES/I033114/1). Further details about the historical context, the tax system, and the sources and methods employed, are given in an earlier working paper published as CEPR DP 8155 (Alvaredo and Atkinson, 2010).

Tony sadly passed away on 1st January 2017. The core of this version of the paper (based on a project that started in 2008, in the context of a wider research programme on income concentration in the British and French former colonial territories) was prepared during the summer of 2016.

[☐] Facundo Alvaredo alvaredo@gmail.com

JEL Classification D3 · H0 · N3

1 Introduction

Income inequality in South Africa has received much attention. Over the last years, there have been important studies of recent inequality and poverty, and a heated debate about trends in post-apartheid transition. South Africa has long been regarded as having one of the most unequal societies in the world. Consistent with this view, the country has the highest survey-based Gini coefficient of household consumption per capita in Povcal database (63.4 in 2011; 63 in 2014). In this paper, we approach the subject from a different direction: the extent and evolution of top incomes. We present estimates of the shares in total income of groups such as the top 1% and the top 0.1%, covering, with gaps, more than a hundred years. As in other countries, top incomes are difficult to measure with precision. They are often not well covered by the household surveys that are today the primary source of evidence about the distribution of income. A partial picture can, however, be obtained from the information contained in the income tax returns, and these are the sources employed in this paper.

In this field, and in the related area of national income totals, South African researchers were among the pioneers. Leslie (1935, 1936, 1937) used income tax data to examine the effect on the South African distribution of income of the abandonment of the Gold Standard by Britain in 1931. Frankel and Herzfeld (1943) published estimates of the income distribution among "Europeans" in South Africa based on the income tax returns, by making use of control totals from the census of population and from the national accounts; their use of external information to complement income tax data pre-dated by ten years the study of upper income groups in the US by Kuznets (1953). Graaff (1946) assembled a series based on South African Super Tax data covering the years 1915 to 1942 to examine the stability of the distribution and the causes of fluctuations in income concentration. In seeking to exploit the (more than a) century of income tax data now available, we are therefore following in a long-established research tradition.

The picture obtained from tax data is only a partial one because not everyone has to provide income information to the tax authorities, and in earlier years, the tax-paying population was a small minority of the total population; they were the better-off and, in the case of South Africa, very largely white. The picture is also partial in that the income recorded, gross income assessed for tax purposes, does not necessarily capture the full extent of the economic advantage accruing to those at the top of the distribution, and certain categories of income, notably dividends, are incompletely covered. Conclusions drawn from the income tax data are therefore surrounded by qualifications.

¹ See, for example, McGrath (1983), McGrath and Whiteford (1994), Klasen (1997, 2005), Nattrass and Seekings (1997), Terreblanche (2002), Dollery (2003), van der Berg and Louw (2004), Leibbrandt et al. (2009, 2010), van der Berg (2011), Wilson (2011), Finn et al. (2013), Chatterjee et al. (2020).



The tax data do however provide insight into the degree of inequality at the top. Combined with external information about the total population and the total income, as in the pioneering work of Frankel and Herzfeld (1943) but covering all races, the tax returns allow estimates to be made of the share of the top 1%. To the extent that the tax definition of income falls short of that ideally applied, these estimates are likely to be an under-statement.

Taken together, the historical series covers, with some gaps, more than a hundred years. This was an eventful period. It goes from the colonial days, through the Dominion phase, the Natives Land Act of 1913, the effective independence in 1931, the systematisation of segregation in the form of apartheid following the National Party government elected in 1948, the Group Areas Acts in the 1950s, the declaration of a republic in 1961, international sanctions and trade boycotts, to the establishment of multi-racial democracy and the election of the ANC government in 1994. How far do the top income shares reflect these major political events? Or was inequality at the top dominated by underlying economic forces, such as the movements in gold sales? How far were changes in the South African top income shares different from those in other countries? In the paper, we make comparisons with the findings for Australia, Canada, New Zealand, the UK and with other former colonial territories in Africa.

Throughout this history, there was much concern about the high levels of poverty in South Africa, and it is on the bottom of the income distribution that attention has rightly focussed. At the same time, poverty has to be seen in the context of the distribution as a whole. As noted by Leibbrandt et al., "in addition to high poverty levels, South Africa's inequality levels are among the highest in the world" (2010, page 9). Our estimates of top incomes allow us to examine whether that has always been the case. The conclusion of Graaff (1946) was that the degree of income concentration (derived from the Pareto coefficient) was "fairly stable" over the long period. But now, we have many more years of data. Did this stability, however, remain in the apartheid years? Or was there a long-run trend in top income shares? In a recent article on inequality, van der Berg asked "what was the case in South Africa over the past century?" and went on to say that "no data exist to give a definitive answer" (2011, page 125). Our estimates are not definitive, but they provide a point of departure for those seeking to understand the long-run pattern of income inequality in South Africa.

Many readers will want to go first to the results. However, an appreciation of the methods used to arrive at the estimated top income shares is necessary to give due weight to their limitations. We therefore begin in Sect. 2 with a description of the income tax data: one of the contributions of this paper is the reconstruction of all the distributional data published by official sources on the basis of the income tax in South Africa since 1903. As already explained, the tax data cannot be employed on their own. The published distributions of taxpayers by income ranges have to be accompanied by external control totals for the total adult population and for total household income, and these are described in Sect. 3. The results for top income shares in South Africa from 1903 to 2007 are set out in Sect. 4, where we consider the changing shape of the upper tail. The findings for South Africa are set

 $^{^2}$ See for instance Nattras and Seekings (2011), Fedderke and Simkins (2012) and Boshoff and Fourie (2020).



in international context in Sect. 5, where we make comparisons with the findings for Australia, Canada, New Zealand, the UK and with other former colonies of the British Empire. In seeking to understand to understand the evolution of top income shares, we preliminary explore three determinants: conquest, discrimination and development. The main conclusions are summarised at the end.

2 Where do the estimates come from?

The basic sources used in this paper are the tables published by the income tax authorities for the Cape Colony (data for 1903–1907) and the Union of South Africa (data from 1913). The Union was formed as a British Dominion in May 1910 from the former colonies of Cape of Good Hope, Natal, Orange River Colony (or Free State) and Transvaal. Income tax was introduced into the Cape Colony with effect for incomes for the year starting on 1 July 1903, and information on the tax was published in the *Report of the Commissioner of Taxes for the year 1904–1905*, and in subsequent reports. The tax was levied in the new Dominion with effect for incomes for the year starting on 1 July 1913. In what follows, we denote the "income year" (IY) by the calendar year in which the income period began, in this case 1913. Information on the distribution of taxpayers by ranges of income was published on a regular basis in the *Annual Report of the Commissioner for Inland Revenue* (less detailed data were published initially also in the *Official Year Book of the Union*).

The taxation of individual income under the Union from 1913 involved a *Normal tax*, covering (in 1915) persons with income in excess of £300 a year, and a *Super Tax*, in force until 1958, levied on higher income persons, covering (in 1915) persons with incomes in excess of £2500 a year. The statistics for the former cover a larger proportion of the population (some 58,000 taxpayers in 1916, compared with fewer than 2000 Super Tax payers), but the Normal tax statistics exclude dividend income, a point discussed further below. In later years, information was published in *South African Statistics*, which appeared biennially from 1968. In 2009, the National Treasury and the South African Revenue Service began a new publication entitled 2008 *Tax Statistics*, containing information for 2002 to 2005, and which has appeared regularly since then (National Treasury and South African Revenue Service 2009).

The data employed here are not in the form of individual tax records, which no longer exist for most of the period studied; rather, we make use of published tabulations. The information necessary for the estimation of top income shares is the distribution of taxpayers assessed by ranges of income and, ideally (present in many, but not all, years) the amount of income in each range. Interpolation is involved (see Atkinson 2007), but the tabulations are in many cases extremely detailed: for example, in the data for 1917, there are 29 ranges, 10 of which contain fewer than 100 observations (one containing only 5 taxpayers). We have been able to locate income tax data for most years. The data sources are listed by income year in Appendix Table 1.³

³ The publications were obtained from the (incomplete) collections in the British Library of Political and Economic Science (London School of Economics), the University of Cambridge Royal Commonwealth



The data are the product of an administrative process, and this process can affect the resulting estimates. Two important features should be discussed here. The first is the definition of taxable income. As in any income tax system, certain types and amounts of income were exempted. In 1951, for example, these exemptions included (in addition to the emoluments of the Governor-General) interest up to £25 from the Post Office Savings Bank, war pensions and miners' phthisis awards, and—of particular significance for top incomes—dividend income. Under the Normal Tax/ Super Tax regime, dividend income was not assessed under the Normal Tax but under the Super Tax. A separate Dividend tax was levied (with higher rates for companies engaged in gold and diamond mining). The Super Tax data are therefore more complete, and for this reason have been used in earlier studies such as Graaff (1946). However, they cover a smaller fraction of the upper incomes. The estimates prior to the 1940s are limited to the share of the top 0.05%, whereas using the Normal Tax data we are able to estimate the share of the top 1%. In view of this, we give two series: series excluding dividends (Appendix Table 5) based on Normal Tax data, up to 1953, and series including dividends (Appendix Table 6) based on the Super Tax data. Following the abolition of Super Tax in 1959, the latter is continued using the Personal Income Tax data, which included dividend income to varying degrees. Initially, some 2/3 of dividends accruing to top taxpayers were taxed. There is however an important gap for the years 1994 to 2001.⁵ This limits our capacity to record distributional changes during this crucial period. It also means that we find it hard to judge the comparability of the earlier estimates with those from 2002 onwards (third series given separately in Appendix Table 7), these being additionally affected by changes in the tax code (mainly the partial inclusion of capital gains in taxable income, offset by the omission of a fraction of dividend income) and by the significant improvement of tax collection capabilities.

Estimates of the distribution of top incomes are obtained by interpolation from the published tabulations. Where there is information on both the number of persons and the total income in the range, we use the mean-split histogram. Interpolation necessarily introduces an additional source of error; however, the tabulations used are in many cases extremely detailed: for example, in the data for IY1917 there are 29 ranges, 10 of which one contain fewer than 100 observations (one containing only 5 taxpayers). For the years (1953 and 1963 to 1993) when there is only information on numbers, we have fitted a Pareto distribution to the cumulative frequencies for each interval (i.e. separate coefficients for each interval) and used this to estimate the income shares. In view of the increased error introduced, we have

⁵ We have not been able to get statistics for this period from the Treasury of South Africa or the South Africa Revenue Service.



Footnote 3 (continued)

Society Library, the South Africa Parliament Library, the University of Cape Town Library, the Oxford University Libraries, the University of Harvard Libraries and the New York Public Library.

⁴ The two sources cannot be combined in any straightforward way, since the definition of taxable income differs in the two cases, and taxpayers may be ranked differently in the two sets of tables. After the abolition of the Super Tax, 2/3 of dividends were taxed through the Normal Tax.

shown (in Fig. 2) a (gross) confidence interval constructed by assuming that the mean for the interval was equal to either the lower or upper end points.⁶

The second feature concerns the timing of assessments. The data for the early part of the period refer to incomes whose assessment has been completed within the fiscal year following the income year (see Appendix Table 1). In some, typically the higher income and more complicated cases, assessment may take longer to be completed, and for quite a number of later years there are data based on a 24-month period of assessment. Earlier studies have drawn attention to this issue, but have tended to regard the 12-month assessment period as adequate: "it is unlikely that the (fairly complete) sample given is biased in favour of the exclusion of incomes of any particular size" (Graaff 1946, p. 28). The impact on the estimated shares of different assessment periods depends on the proportion covered within the 12 months, and on the nature of those incomes requiring longer assessment. In Appendix Table 8, we have shown the proportion of assessments (and of tax assessed) within 12 months, compared with the final totals reported as of 1955. The evidence for the income years prior to 1940 is re-assuring, since typically around 90% of assessments had been completed, and the average tax per assessment did not differ greatly. However, from 1940, during the war, the proportion assessed fell and the proportion of tax assessed fell to a greater extent. The latter suggests that the taxpayers assessed later were not a random drawing: as shown in Appendix Table 9, the difference in the top 1% share could be as much as 8% points, which would give a quite different picture. In view of these findings, we have decided not to use the tax data for the years after 1939 for which we have only + 12 month figures (the results for these years (1940–1943 and 1950) are shown for reference in Appendix Table 10). For the other years, estimates are based on the longest assessment period available. For the period from 1955 to 1961, the information is mostly available only for a 12-month assessment period, and we have assumed that, in these post-war conditions, these estimates are more complete.

3 How can the tax figures be set in context?

In isolation, the tax statistics cannot tell us a great deal about income inequality. The figures have to be related to the total population and to total income. Neither of these totals is easy to estimate and the South African case is particularly difficult.

3.1 Control total for population: a challenge

The income tax in South Africa, as in most countries, was originally levied on the tax unit, treating a married couple as one unit, but since 1990 has been based on the individual. We need therefore control totals for tax units from 1913 to 1989 and for

⁶ The upper limit for the open top bracket assumes an inverted Pareto-Lorenz coefficient $\beta = 2.5(\alpha = 1.67)$ for 1963–1989, with a lower figure ($\beta = 1.5$ ($\alpha = 3$)) for 1990–1993, on the grounds that the estimated coefficient in those years tended to fall in the upper income ranges.



total individuals from 1990. The derivation of these totals involves the following steps: (1) making an estimate of total population, (2) excluding those aged under 15, to arrive at an assumed total of "individuals" for tax purposes, and (3) before 1990, subtracting the number of married women to arrive at a total for "tax units". The selection of the age of 15 to define tax units is arbitrary but does not seem unreasonable and is in line with previous work (see Atkinson and Piketty 2007, 2010).

We focus here on step (1), the estimation of the total population of South Africa, which is surrounded by a number of difficulties (steps (2) and (3) are described in the "Appendix"). The chapter on population in the 1949 Handbook on race relations in South Africa (Hellmann 1949) opens with the statement that "the statistical facts concerning the bulk of our population are ... utterly inadequate. ... Our Office of Census and Statistics has done excellent work, but it lacks the essential statistical raw material" (Sonnabend 1949, p. 4). The first simultaneous count in the four territories later incorporated into the Union was carried out in 1904, but only four censuses of population in the next 45 years covered non-Europeans (1911, 1921, 1936 and 1946), and there was only incomplete registration of births and deaths. There were over that period also censuses in 1918, 1926 and 1931, but these covered only the European population. Moreover, there were grounds for supposing that the censuses in the early years significantly under-stated the size of the non-European population. "Each successive census enumeration of Africans, and to a lesser degree, of Coloured, has become more accurate and complete. The fact that the census of 1936 revealed the presence of 6,596,689 Natives against 4,697,813 in 1921 must be partly due to the inclusion in 1936 of a considerable number left out in the previous census. This likewise holds good, though to a lesser degree, of the census for 1946" (Sonnabend 1949, p. 10). Working in the opposite direction was the fact that the 1946 census was based on the de facto population: i.e. those actually present. As a result, "a large number of immigrants and temporary labourers from neighbouring territories are included in the Union totals" (Sonnabend 1949, p. 5).

The weaknesses of the South African population census may well have intensified during the apartheid period. Orkin, Lehohla and Kahimbaara say of the 1998 census that "it was a pastiche of small-area detail, of variable quality, from the four 'states' and 'white' South Africa. ... The counts from [the 'white'] areas were generally accepted as reasonably accurate. But in many urban 'townships', informal settlements and peasant-farmed rural areas, where the residents were overwhelmingly African, mapping was not uniformly available or else various areas were deemed inaccessible due to political unrest. In some cases household interviews were conducted but without prior demarcation. ... In others, dwellings were counted on aerial photographs, and populations then imputed using household densities obtained from sample surveys" (1998, p. 268). It is therefore scarcely surprising that the *adjusted* data from the 1991 census give a total of 31.0 million compared with an *enumerated* total of 26.3 million (*South African Statistics 2009*, Table 2.3), a difference of 18%.

In intermediate years, a further difficulty has been the fact that the published figures for years before 1991 are affected by the exclusion of the population of Transkei, Bophuthatswana, Venda and Ciskei (referred to as "the TBVC states"). This has the consequence that the table for total population in *South African Statistics* 2009 (Table 2.3) has figures for 1904, 1911, 1921, 1936, 1946, 1951, 1960 and 1970



covering the whole of South Africa (except for Walvis Bay), but the data for 1980 and 1985 exclude the TBVC states. Figures are given for 1991 on the same basis and with the 1994 boundaries. The differences are large: it is estimated that the population of the former TBVC states at the 1991 census was 6.751 million.

In view of the difficulties caused by these two types of "missing" population (the under-enumerated and the TBVC states), we have worked back from the current mid-year population estimates (published by Statistics South Africa in the annual publication P0302), but have used the UN Population Division estimates to cover the period before 1991 (the sources are given in Appendix Table 2). This takes the series back to 1950. At that date, the series is some 7% higher than the mid-year estimates published in the *Official Yearbook of the Union* (OYB) for 1954–55, p. 680. There is the further hiatus in the 1930s noted above. The OYB number 18 for 1938 reported (page 1035) that the population estimates had been revised in the light of the 1936 census, and the upward revision was substantial: the estimate for the total population in 1935, for example, was 9.4 million, compared with 8.6 million in the previous edition of the OYB (page 1047), an increase of 10%. For 1949 and earlier years, we have therefore used the estimates given in Feinstein (2005, p. 258), which adjust for under-enumeration progressively from 1922.

The resulting series for total tax units and total adults are given in Appendix Table 3; the series for the Cape Colony are given in Appendix Table 4.

3.2 Control total for total income

The tax records only cover a part of total household income. One of the major contributions of Kuznets' study *Shares of upper income groups in incomes and savings* (1953) was to combine income tax data with national accounts estimates of total income. However, he was not the first, having been preceded by South African economists Frankel and Herzfeld, who made estimates of the "European" income distribution in South Africa in 1943. Drawing attention to the limited coverage of the tax return data on their own, these authors argued that "by combining the national income and income tax statistics ... it is possible to obtain a more general picture" (1943, pp. 121–2).

The national income estimates provide our starting point here. Our aim is to compare the incomes recorded in the tax returns with the total of household income after transfers but before tax as recorded in the national accounts. This means that the comparison total is larger than the total of income that would be subject to tax if the personal tax allowances were removed; the control total includes for example Post Office Savings Bank interest that is not taxable if below a specified amount. To this extent, we are understating the top income shares since this non-taxable income is omitted from the numerator. The household income totals are however less than total national income. As is explained by Frankel and Herzfeld (1943, p. 128), household income is obtained by subtracting "income which is not distributed to individuals", that is undistributed company profits and the profits of official bodies, and by adding back the interest paid by government and official bodies and transfer payments such as unemployment relief. Their total (not including transfer payments) for 1939/40



came to 94% of national income. For 1953, the first overlapping year between the household income series of the Bureau of Census and Statistics and the net national income series of Frankel, the ratio is also 94%.

In the South African context, it should be noted that the control total does not include incomes paid to foreign factors of production. There is an important distinction between national income and domestic income (see Franzsen 1954, and Samuels 1963a, b). Geographical income "is reduced to a national basis by *adding* the income accruing to factors owned by its own citizens, but employed outside its frontiers, and *deducting* the income accruing to factors owned by foreigners, but employed within its frontiers" (Bureau of Census and Statistics 1954, page 356). The most important deductions by the Bureau of Census and Statistics are for the wages of foreign workers employed in South African mines, profit income accruing to the owners of foreign capital invested in the Union, and interest paid abroad. This leads the estimated total national income in 1951–52 to be some 90% of total geographical income (although Franzsen 1954, Table 1, suggests that the deduction for foreign capital is overstated). Multiplying 90% by the earlier 94% suggests that the household income series is some 85% of geographical (domestic) product.

The control totals used here (see "Appendix, Section A.4") are derived by working backwards from the recent published national accounts series to the older period. For 1953–2010, the National Accounts of South Africa give total Households' Disposable Income plus the Taxes on Income and Wealth paid by households: i.e. total household gross income. For the years before 1953, a series for household disposable income does not exist. Consequently, we have linked the previous series backwards following net national income, assuming that household income moved in line. The need to make this assumption introduces a further element of uncertainty surrounding the control totals, although, given the long history of research on national income in South Africa, there are good reasons for believing that the South African totals are more reliable than those used in many other countries. Of the total thus obtained, we have taken 80% for the years before 1993 in order to exclude elements present in the national accounts that are not comparable to the income definition provided in the tax information, and to reduce the potential overestimation of the income total induced by the backward linking.

The resulting series for total reference income is given in Appendix Table 3.

3.3 Summary

We have devoted some space to the processes by which we arrived at the estimates examined in the next sections of the paper. It is not straightforward to go from the published income tax tabulations to estimates of top income shares. It is necessary to examine the structure of the tax system and how it has been administered. The income tax data can only the interpreted in the light of external information and the assembly of this information for a period of some hundred years requires a considerable investment. An understanding of these processes is necessary to appreciate the limitations of the estimates, but may also provide confidence in their use.



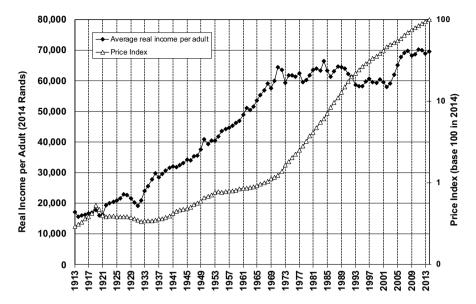


Fig. 1 Average real income and price index in South Africa, 1914–2014. *Source*: Table 3. *Notes*: Figure reports the average real income per adult (aged 15 and above), expressed in 2014 Rand. The Price Index is equal to 100 in 2014. Memo: In 2014, 1 US Dollar=0.1 Rand

4 Top income shares in South Africa

Our estimates for top income shares span a period that saw substantial growth in average real income per head, but at far from a uniform rate. As may be seen from Fig. 1, average real income per adult rose from 1913 to 1928, fell in the Great Depression, and then grew rapidly up to the beginning of the 1970s. Growth was uninterrupted by the First and Second World Wars. In 1913, South Africa had a much lower per capita GDP than Australia, Canada and New Zealand (Feinstein 2005, p. 6), but it grew faster from 1913 to 1950 than these other Dominions. By 1971, real income per head was some four times its 1913 value. Real income per adult then, however, began to decline, so that by 1994, it was some fifth lower than a quarter of a century before. Only in the twenty-first century has growth in real income per adult been resumed.

What was happening to top incomes over this period? Fig. 2 shows the shares of the top 1%, top 0.5% and top 0.1%. The results relate to tax units (up to 1990) and to assessed (gross) income before tax. At the beginning of the period, the top 1% numbered 26,500 tax units. At that time, the number of white tax units was some 600,000, so that, if the top 1% had all been white, they would have been some 4.5% of the white total. The series marked with solid symbols is series A, derived from the Normal Tax data excluding dividends. As may be seen, where the series may be compared there is a noticeable difference, but the movements over time are similar. For the years 1944 to 1949 where there is overlap, the series B estimates are higher by 7.5% (top 1%), 9% (top 0.5%) and 15% (top 0.1%). In what follows, where combining series A and B, we increase the series A estimates by these percentages.



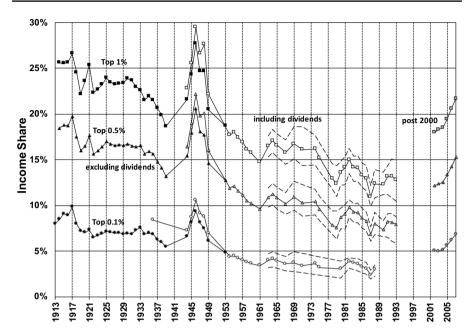


Fig. 2 Top income shares in South Africa 1913–2007. *Notes*: The confidence interval is depicted for those years for which only frequencies (number of tax assessments), have been used (as incomes per range are not available). The lower limit of the interval assumes that the average income in each range of the published tabulations is equal to the range lower limit. The upper limit of the interval assumes that the average income in each range is equal to the range upper limit; the average income in the top open bracket assumes an inverted Pareto-Lorenz coefficient equal to 2.5 for 1963–1989 and equal to 1.5 for 1990–1993. *Source*: Appendix Tables 5, 6 and 7

In 1913, the share of the top 1% was over 25%, meaning that this group had on average more than 25 times their proportionate share. For the top 0.5%, the share was around 18%, and for the top 0.1% around 8%, implying that these groups had, respectively, 36 and 80 times their proportionate shares. This is a high level of concentration, but not without parallel before the First World War: the top 1% share in the Netherlands in 1914 was over 20%.

It is evident from Fig. 2, however, that the position of top income groups has been far from stable over time. The instability is in part short-run. Both the First and Second World Wars saw an upward spike in the top shares. But, leaving these episodes aside, the overall impression is that of a continuing downward trend from 1913 to the 1980s. The share of the top 1% was halved. Our conclusions about the long-run development differ therefore from those of Graaff, who found that: "the concentration (and so the distribution) of incomes ... is stable in the long period" (1946, p. 46). He was, of course, only able to use data for the first part of the century, but our conclusions also differ in that we are using control totals to estimate the shares in total income. We should also note that the downward trend is not constant: the speed of fall in top income shares was faster in the 1930s and in the 1950s.



The long-run fall over much of the twentieth century shown in Fig. 2 is similar to the pattern in other countries (discussed further in the next sections). In the majority (but not all) of those countries, there was a reversal of this trend in the final part of the century. Figure 2 suggests that the same is true in South Africa. As noted earlier, the hiatus in the production of the necessary statistics means that we should be cautious in joining the points for 1993 and 2002. It is possible that the increase reflects greater effectiveness in collecting tax, and the partial inclusion of capital gains, so that the true increase is overstated; on the other hand, the omission of dividend income works in the opposite direction. There was also the move from a tax unit to an individual basis for taxation. Taking the post-2002 figures on their own, we can see that top income shares have increased, but we must stress again that the comparability of data (and, by extension, of the level of shares) in the 21th century with the years before 1993 is not granted. Yet, the recent figures bear out the picture of South Africa as a highly unequal country.

4.1 The changing shape of the upper tail of the distribution

The rate of change in top shares differs across the different income groups. Whereas the share of the top 0.5% went from around 18% in 1914 to around 8% in 1993 (a fall of some 55%), the share of the next 0.5% (the top 1–0.5%) fell from 7% cent to around 5%, which is a proportionately smaller decline. This suggests that the *shape* of the upper part of the distribution has been changing; it is not simply a question of all incomes being scaled back proportionately.

The changing shape may be examined by looking at the "shares within shares": the share, for example, of the top 0.5% in the total income of the top 1%. In 1914, this share was around three-quarters (18% out of 25%). By 1939, the proportion had fallen a little to around 70%, and by the end of the 1980s it was down to around 60%. The within-group distribution became less concentrated. The shares-within-shares calculation has the advantage of not relying on the control totals for income, and thus avoiding the uncertainties surrounding these totals noted in Sect. 3. It is also directly related to the Pareto coefficient. The Pareto law is usually considered as a good approximation of the top segment—say, the top 10 or top 1%—of the observed income distribution. In its simplest form, the Pareto law applies with a constant coefficient to the top $\mu\%$ of the distribution and it is given by the following equation:

$$1 - F(y) = \mu \left(y_{\mu} / y \right)^{\alpha},$$

where 1 - F(y) is the distribution function (i.e. the fraction of the population with income above y), y_{μ} is the income threshold that one needs to pass in order to belong to the top $\mu\%$ and α is the Pareto coefficient. The characteristic property of the Pareto

⁷ Even though the number of taxpayers is well above 10% of the control total for the population, the series for the top 10% income share is not given from 1971 to 2007, as the resulting P90 value is usually very close to (and sometimes below) the threshold under which employees are only subject to PAYE, and not included in the statistics used here (these workers are not required to file a tax return).



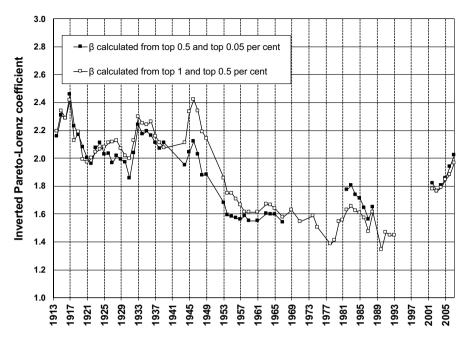


Fig. 3 Inverted Pareto-Lorenz coefficients in South Africa 1913–2007. *Source*: Appendix Tables 5, 6 and 7

law is that the ratio $\beta(y)$ between the average income above y and y does not depend on the income threshold y. That is:

$$\beta(y) = E(z|z \ge y)/y = \beta = \alpha/(\alpha - 1)$$

Intuitively, $\beta = \alpha/(\alpha - 1)$, which can viewed as the inverted Pareto-Lorenz coefficient, measures the fatness of the upper tail of the income distribution. For instance, a coefficient $\beta = 2$ means that the average income above 100,000 Rand is equal to 200,000 Rand, the average income above 1 million Rand is equal to 2 millions Rand, and so on. In case $\beta = 3$, the average income above 100,000 Rand is equal to 300,000 Rand, the average income above 1 million Rand is equal to 3 millions Rand. Higher β typically corresponds to a society with higher top income shares and higher inequality.

There are two important caveats to have in mind, however. First, although the general Pareto shape does provide a relatively good fit for the top parts of observed distributions in pretty much every country and time period for which we have data, it is important to note that the Pareto coefficients do vary widely over time and across countries. Next, it is also important to note that, for a given country and year, α and β are not exactly constant, even in the upper part of the distribution. For any given distribution function 1 - F(y), one can always define the "empirical" α and β . If the share of the top 0.5% is denoted by S0.5 and the share of the top 1% is denoted by S1, then, if the upper tail of the distribution follows a Pareto distribution, then the



coefficient, α can be estimated from the income shares, using the formula that $1 - 1/\alpha = \log_{10}\{S1/S0.5\}/\log_{10}\{2\}$. In Fig. 3, this inverted Pareto-Lorenz coefficient is plotted for these shares, and using the share of the top 0.05% in the income of the top 0.5%. Since the distribution is only approximately Pareto in form, these coefficients do not coincide, but it may be seen that they move closely together.

A number of early researchers examined the fit to the South African data of the Pareto distribution. Leslie (1935, p. 279) found values for the inverted Pareto-Lorenz coefficient smaller than those found in European countries, suggesting less inequality at the top in South Africa. He reports a wide range, but our estimates suggest that the coefficient was between 2 and 2.5 from 1913 until after the Second World War. The coefficient then decreased, starting at the end of 1940s, indicating less inequality among those at the top of the distribution. From the end of the 1950s up to the 1980s, the inverted Pareto-Lorenz coefficient was broadly around 1.6. When we turn to the recent years, however, we see that β has gone up back to around 2 for the years since 2002. On this basis, the concentration of incomes at the top is returning to its pre-war level.

To this point, we have not discussed the very earliest estimates: those for the Cape Colony for 1903 to 1907. The Colony contained, in 1907, some 1.2 million tax units, compared with 2.7 million tax units in the Union in 1913. We have not been able to make any estimates of total income for the Colony, so that the results are presented in Appendix Table 14 in terms of shares-within-shares. The findings may be compared to those for the Union in 1914. The top 0.5% in 1907 had 70% of the total income of the top 1% cent, which is quite close to the 72% cent for the Union seven years later, but higher up the scale the incomes appear less concentrated.

5 Seeking to understand the evolution of top income shares in South Africa

There are many factors that could explain the picture we have described. Here we consider—in a preliminary way—only three; they do in fact correspond to those highlighted in the subtitle of Feinstein's (2005) economic history of South Africa: conquest, discrimination and development.

5.1 Differing colonial legacy?

Our data on top incomes have the advantage of covering virtually the entire period since South Africa became, when the Union was formed, a self-governing dominion, and increasingly acquired further political powers, culminating in full independence. In this regard, its initial political history was similar to that of Australia, Canada and New Zealand, and it is therefore useful to draw a parallel. How far is their current distribution a reflection of the colonial past? Did South Africa have a different colonial legacy? In considering this question, a potentially important role is played by the differing sizes of the indigenous population: this is the subject of the next sub-section.



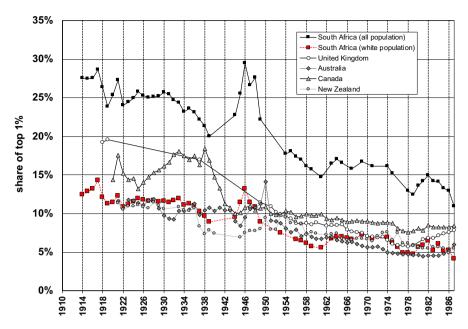


Fig. 4 Top 1% income share in UK, Australia, Canada, New Zealand and South Africa. *Sources*: South Africa: Appendix Tables 5, 6 and 7, and authors' calculations; United Kingdom: Atkinson (2005, 2007); Australia: Atkinson and Leigh (2007a, b); Canada: Saez and Veall (2007); New Zealand: Atkinson and Leigh (2007b, 2008); and Alvaredo et al. (2011–2015)

In Fig. 4, we compare the findings for the share of the top 1% cent in South Africa with those for the three other dominions and for the United Kingdom, the former colonial power, for the period for which we can provide a racial decomposition with the white population. It may be noted that the South African series starts the earliest. The comparison begins after the First World War. At that time, South Africa had the highest share of the top 1% cent of all the countries shown. The top 1% cent share in Canada was around 15% in the 1920s and the shares in Australia and New Zealand were close to 10%. As we have seen, the top shares fell in South Africa over the twentieth century, but the fall was less sharp than in the UK and North America.

The share of the top 1% continued to be higher in South Africa in the post-war period. By the end of the 1970s, the shares had fallen to between 5 and 8% in the other countries, but in South Africa the share remained stubbornly at 10% or above. Subsequently, the gap began to narrow, as the top shares increased in the Anglo-Saxon countries after 1981, but South Africa is now tended in the same direction. The top share today is higher than in the UK and Canada, and much higher than in Australia and New Zealand. At some 20–25%, the top share in South Africa (Fig. 2) is essentially the same as in the United States. The initial differences, with South Africa having high top shares, appear to have been a persistent feature. In contrast, studying in detail at the series produced for these countries, it can be concluded that the distribution *within* the top 1% appears less concentrated in South Africa.



5.2 Apartheid

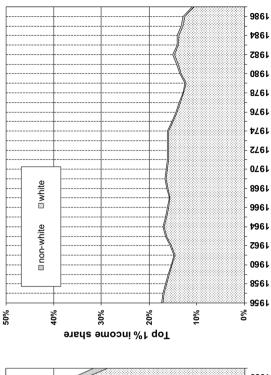
How much of this long-run difference can be attributed to the impact of racial differences? One major factor influencing the South African distribution of income is the racial composition of the population. From 1956 to 1987, the South African income tax statistics are published with a classification by race: white, Coloured, Asian and African (the latter not included for all years). For these years, we can see the make-up of the top income groups in Appendix Table 11.

We can consider the distribution for South Africa just among the white population. Appendix Table 12 shows estimates for the period 1956 to 1987, while for the years before 1955 (when the classification by race is not given) we take all taxpayers as being white. The orders of magnitude are clear from the following calculation. In 1956, the overall share of the top 1% was 17%. Since at the time the white population represented 20% of all tax units and constituted the vast majority of the top income recipients, this corresponded to approximately the share of the top 5% of the white population. Such an income share (17% cent for the top 5%, as Appendix Table 12 shows) would have placed them at that time well below the share recorded in 1956 in New Zealand (23.5%). Figure 4 also shows the share of the top 1% in South Africa among the whites. Therefore, tax data reveals a striking fact: *income concentration has historically been rather similar (and even lower) within the white population in South Africa and within the total population in Australia, New Zealand or the UK.*

In the mid-1950s, the top income groups were overwhelmingly white. In 1956, the top 5% consisted of 325,400 tax units, of whom 320,000 (98%) were white, 3700 were Asian, 1400 were Coloured, and 160 (0.05%) were classified as African (the term used in the official publication is "Bantu"). The composition did shift over the following thirty years: in 1987 the top 5% consisted of 782,000 tax units, of whom 708,000 were white, 24,300 were Asian, 30,300 were coloured and 19,200 were African (2.5%). The proportionate increase for Africans was large, by a factor of 120. This raises the question as to how this was possible during the apartheid era, and at a time when the relative incomes of Africans remained unchanged. The estimates of Leibbrandt et al. show that in 1956 the average per capita income of Africans was 8.6% of that for whites, and in 1987 the figure was virtually the same (8.5%) (2010, Table 1.1); over the same period, the relative per capita incomes of Asians went from 21.9 to 30.2%. The proportionate increase may have been large, but the actual numbers of non-whites was still small. Top incomes at the end of the 1980s remained highly concentrated by race: in 1987, whites were 90.6% of the top 5%, 96.7% of the top 1% and 97.5% of the top 0.1%. The last of these figures means that of the 15,600 tax units in this group, which began at about 100,000 rand per year, only some 400 were non-white. There was only limited change in the degree of dominance of the white population in the upper income groups over this period, as may be seen from Fig. 5.

What did top African taxpayers do? In 1965 (from the *Report of the Secretary for Inland Revenue for the year 1966–67*, Table 16), for example, there were 6100 African taxpayers in total (with positive incomes). Three-quarters (75.4%) received their income from employment; 13.2% were engaged in retail trade; and 8.0% had income





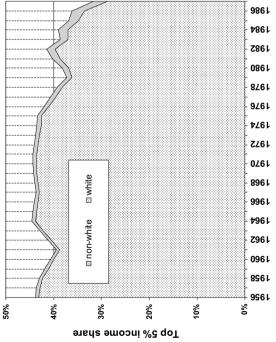


Fig. 5 Top 5% and Top 1% income shares by ethnic origin, South Africa 1956-1987. Source: Tables 5 and 11



from investments as their main source (largely interest). Of those African taxpayers in employment, 41% worked for state, provincial or local government, 24% in manufacturing or construction and 21% in services other than government. Therefore, high-pay government employment played a crucial role as income source for Africans at the upper end of the distribution.

The gap in the data between 1994 and 2001 prevents us from analysing the dynamics of top incomes in the crucial years immediately following the end of apartheid. Evidence from households' surveys conducted in 1993, 2000 and 2008 (see Leibbrandt et al. 2010) indicates that inequality increased steadily, both within the whole population and within each racial group, especially among Africans. Van der Berg and Louw 2004, note that "rising black per capita incomes over the past three decades have narrowed the interracial income gap, although increasing inequality within the black population seems to have prevented a significant decline in aggregate inequality" (pp. 568–569). At the same time, poverty has remained virtually constant (or fallen slightly) over the same period. Both facts (increasing inequality and stable poverty) are consistent with the rising trend in top income shares recorded in our estimates for the period since 2002.

5.3 Development and natural resources

Alongside the colonial and political story, there was the development of the South African economy: "following the development of the diamond fields of Kimberley in the early 1870s, the South African economy achieved a hundred years of successful economic growth. ... a relatively backward country, almost wholly dependent on a largely self-sufficient agricultural sector, was transformed into a dynamic, modern, capital-intensive economy" (Feinstein 2005, p. 200). How far can the time path of top shares in South Africa be due to its distinctive pattern of economic and social development? One tends to think of the role of gold production and minerals, but South Africa was not alone in its natural resource wealth. In fact, as noted by Feinstein, Australia, Canada, New Zealand and South Africa are "natural benchmarks": "all four had achieved their initial growth in the nineteenth century by exporting primary products from their farms, forests, and mines, and were seeking in the twentieth century to develop their secondary industries with the aid of protective duties. All four were relatively small, and struggling to compete with larger, well-established industrial nations such as Britain and the United States" (2005, p. 132).

Figure 6 shows the changes over time in the share of the top 1% in each of these four countries indexed at 100 in 1921 for the four former dominions. As may be seen, the trajectories are remarkably similar for some 50 years. The top shares may have started at a higher level in South Africa as shown in the previous figure, but they fell at a very similar rate. There are undoubtedly differences between the countries, but they should be seen against the background of a common downward trend. Apartheid affected not only the internal distribution but also the external economic circumstances of South Africa. The mid-1980s saw the adoption of economic sanctions by the Commonwealth, by the European Communities and by the US Congress. The impact has been much debated, but we have noted that during this decade



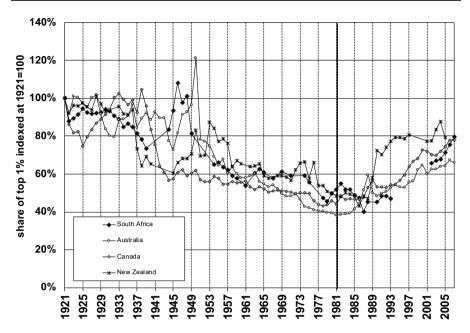


Fig. 6 Timepath of share of top 1% in Australia, Canada, New Zealand and South Africa indexed at 1921. *Sources*: South Africa: Appendix Tables 5, 6 and 7; Australia: Atkinson and Leigh (2007a, b); Canada: Saez and Veall (2007); New Zealand: Atkinson and Leigh (2007b, 2008); and Alvaredo et al. (2011–2015)

the top income shares in South Africa failed to rise, unlike those in other countries (this is the period after the vertical bar).

The country differences reflect also the differences in natural resource endowments. Figure 7 makes the comparison of the top 0.1% share against three former colonial territories: Zambia, Zimbabwe and India. Commonwealth countries had spikes corresponding to booms in particular commodities, such as that reflecting wool prices boom in Australia in 1950, or the post-war boom in South Africa, Zambia and Zimbabwe which benefited the rich disproportionately. In the case of South Africa, a key role is played by gold production and the gold price. South Africa dominated world gold production for much of the century: in 1913, it produced 40% of world production, rising to 50% by 1930, falling as a percentage as world production grew in the 1930s, but then rising to 60% in the 1960s—see Fig. 8. Production of gold in South Africa peaked in terms of tons in 1970 and after that fell both absolutely and relatively. Other minerals, notably coal and platinum, have increasingly taken the place of gold—see Fig. 9, which shows the value of sales at 2010 prices. The estimates of Katzen (1964, Table 9) show gold mining as accounting for 20%, and mining as a whole for 28%, of total geographical income of South Africa in 1911/12. By 1929/30, these percentages had fallen to 13 and 17%, but gold production recovered in the 1930s. The significance of gold production became less as manufacturing grew in the period after the Second World War, but it remained between 8 and 10% of total geographical income in the 1950s and early 1960s.



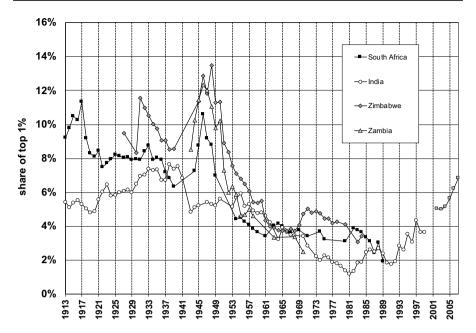


Fig. 7 Top 0.1% income share in India, Zambia, Zimbabwe and South Africa. *Sources*: South Africa: Appendix Tables 5, 6 and 7; India: Banerjee and Piketty 2010, and Alvaredo, Bergeron and Cassan (2017); Zambia: Atkinson (2015); Zimbabwe: Atkinson (2015)

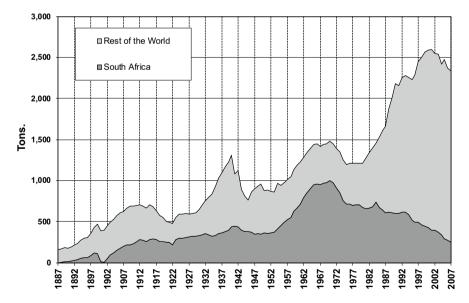


Fig. 8 Production of gold in South Africa and the rest of the world 1887–2007. *Sources*: World: US Geological Survey website. South Africa: Chamber of Mines of South Africa, online statistics



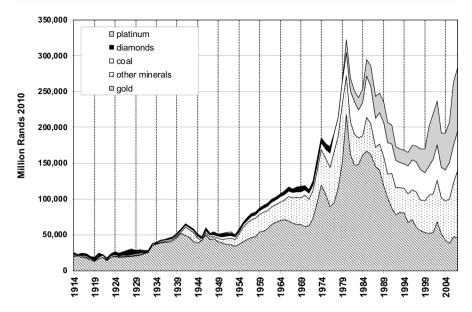


Fig. 9 Sales of gold and other minerals, South Africa 1914–2007. *Sources*: OYB, issues 1918 to 1952–1953; SYB 1964 and 1966; SAS issues 1978 to 2010, and Chamber of Mines of South Africa, online statistics

The distributional impact of gold, and other mineral production depends on the organisation of the industry. As observed by Feinstein, in the case of diamonds, "the day of the small independent digger... did not last long" (2005, p. 99). The process of amalgamation and consolidation "had effectively been accomplished by the late 1890s, with De Beers Consolidated Mines, under the control of Cecil Rhodes, in complete command of the industry" (Feinstein 2005, p. 99). In the case of gold, the nature of the deposits, which were in the form of particles embedded in quartz, mined at deep levels, meant that considerable investment and technical expertise were required. "Within a short time the industry was highly concentrated under the control of six giant mining and finance houses" (Feinstein 2005, p. 103). A substantial part of the investment came from overseas: "only through the continuous supply of capital from international capital markets was the development of the South African gold mining industry made possible" (Frankel 1967, p. 3). It was also the case that the industry depended on the employment of African workers from outside the Union, particularly in the earliest years. According to Read, workers from Portuguese East Africa were "the first to come in any large numbers when the Witwatersrand goldfields opened up" (1933, p. 398). However, the balance shifted and Katzen reports that "the percentage of Union to non-Union Africans rose from 43.8% in 1929 to 55.7% in 1932" (1964, p. 80).

The payments to foreign investors and to non-Union workers mean that a significant part of the industry value added did not enter the South African distribution of income. The low level of wages meant that the payments to non-Union labour were a small percentage: for the year 1952–53, the official estimate is that they accounted



for £16 million, or 1.1% of total geographical income (Bureau of Census and Statistics 1954, p. 364). The payments to overseas investors were larger. According to Katzen, "approximately three-quarters of the dividends of the gold mines in 1930 went to overseas shareholders" (1964, p. 80). For the year 1952–53, the official estimate is that they accounted for £54.7 million, or 4% of total geographical income (Bureau of Census and Statistics 1954, p. 364).

These foreign factors clearly have to be taken into account when assessing the overall influence of the gold and mining industry. But the domestic distribution of income was not unaffected. Alvaredo and Atkinson (2010) show that the growth of the value of gold production and the growth of the average income of the top 0.1% move closely together, up to the 1970s. Mineral resources are a part of the story that needs to be further investigated using the long time series that we have constructed.

The evidence in this section seems to indicate that—despite the distinctive features of the South African historical experience—there is a surprising degree of commonality in the changes over the past hundred years. Local policies have undoubtedly been significant but have probably been more important in determining levels of poverty and the lower part of the income distribution. To explain the changes in top income shares, and the shape of the upper tail, we need to look at global as well as local forces.

5.4 Summary

Our estimates of top income shares provide hard evidence about the way in which income inequality in South Africa has changed over the past hundred years. At the formation of the Union, the top 1% received a fourth of total income. There was a fall in top income shares over much of the twentieth century, and incomes within the top groups became less concentrated up to the end of the 1980s. The dominance of the white population among top income receivers was slightly reduced. In recent years, however, top income shares have begun to rise again, justifying the widespread view that incomes in South Africa are highly unequally distributed.

6 Final remarks

The income tax publications offer a rich store of historical data about the evolution of top incomes in South Africa. Together with estimates for the earlier Cape Colony, the series span more than a hundred years. The construction of the estimates has been described at some length in order to underline their limitations, which mean that there are several potential sources of error. Nonetheless, they provide a basis for placing the recent data on inequality in its long-run historical context and furnish evidence about distributional change in earlier periods.

Our estimates track the evolution of top incomes over a long run of years, including the first half of the century when real incomes grew and the later decades that led to the collapse of apartheid. Top income shares were not stable. There were shortrun movements and long-term trends. The share of the top 1% was halved between



1914 and 1993. The degree of concentration within the top 1% declined: people at the entry point in 1914 saw those above as having on average twice their income, whereas in the early 1990s the advantage was only some 1½ times.

The income tax data for 1956 to 1987 allow us to examine the racial composition of the top income groups. These were, unsurprisingly, overwhelmingly white, and the degree of dominance was little reduced. At the same time, the non-white groups increased their representation (in the case of Africans by a factor of 120), and this shows that some mobility took place during the apartheid years.

How far was South Africa different? We have compared top income shares in South Africa with three other former dominions: Australia, Canada and New Zealand, as well as with the UK. Immediately after the First World War, South Africa had the highest share of the top 1% of all the countries apart from the UK. Although top shares fell in South Africa, this fall does not appear to have been, at least up to 1980, at a faster rate than in the other dominions. The initial differences, with South Africa having higher top shares, appear to have been a persistent feature. Today, in terms of top income shares, South Africa ranks with the most unequal Anglo-Saxon countries. At the same time, as has been observed by earlier researchers, there is no greater concentration within the upper income groups.

The time series presented here will, we hope, provide the basis for detailed investigation of the impact of South African institutions and policies, past and present. But the similarity of the changes over time in top incomes across the four ex-dominions suggests that national developments have to be seen in the light of common global forces.

Appendix

The income tax in South Africa

Prior to the formation of the Union of South Africa, the taxation of incomes and profits (apart from mining profits) was enforced in the Cape Colony and in Natal. The Additional Taxation Act, 1904, introduced income taxation in the Cape of Good Hope, both on companies and persons, subjecting to tax for the first time "all taxable incomes arising or accruing during the twelve months ended 30th June 1904, exceeding £1000% per annum" (Additional Taxation Act, 1904, Sect. 50). The incomes of married women without community of property were assessed individually. Taxable income referred to employment income, including employment in the public service, rents of all property in the Cape Colony, dividends and interest, and "any other source of income whatever arising or accruing in Cape Colony" (*Report of the Commissioner of Taxes for the Year 1904–1905, p. 42*). In 1903, there were 2193 taxpayers.

The Income Tax Act, 1908, regulated income taxation in Natal, but was short lived. On the establishment of the Union in 1910, the Natal income tax was abolished, while that in the Cape was allowed to lapse, as it was not re-enacted after 1909. By 1914, the need for additional revenue had rendered it necessary for the Union government to incorporate an income tax into its fiscal system. The Income



Tax Act, 1914, established the income tax (later called the Normal Tax) in all the territory of the Union. "It was estimated that there would be 5000 taxpayers. The number of assessments made was 5742" (5140 individuals and 602 companies), Report on the Working of the Income Tax Act, 1914, for the Year ended 30th June 1915, p. 2.8

The Union income tax was based on personal reporting. The tax had a limited scope, as provision was made for the exemption of all incomes under £1000, as well as for a fixed abatement of £1000 in respect of all taxable incomes. Individuals were exempted from taxation on dividends and debenture interest received from companies that had paid the income tax or the mining profits tax. The maximum tax rate was, in 1913–1914, 1 shilling and 6 pence per pound of taxable income for those individuals with taxable incomes above £24,000. As a result of fiscal necessity due to the First World War economic conditions, the exemption and the abatement were reduced to £300 for income year 1914–1915, no abatement was allowed for taxable incomes above £24,300, family-based allowances were introduced, and the maximum tax rate was increased to 2 s (Act No. 23 of 1915). For tax year 1916, a super tax was also levied on the annual incomes of individuals which exceeded £2500 averaged over the two 1914 and 1915 (and Act No. 35 of 1916), with a maximum rate of 3 s in the pound. In the pound of the exemption of all incomes under £1000, as well incomes above £2500 averaged over the two 1914 and 1915 (and Act No. 35 of 1916), with a maximum rate of 3 s in the pound.

A reform through the Income Tax Consolidation Act, 1917, re-structured income taxation around a main tax, the Normal Tax, supplemented by the Super Tax (in force until income year 1958–1959) and by other levies on incomes arising in the Union. 11 Taxable income was all income, other than exempt income, less all allowable deductions. Dividends were not taxed under Normal Tax but subject to Super Tax. Interest on Union Loan Certificates and Savings Levy Certificates were exempted as well as interest on small savings accounts and on some treasury bonds up to a threshold. A distinction was introduced between married and single persons by granting different abatements (for married individuals it was initially £300 a year, subject to the taxable income not exceeding £24,300, while for single persons it was reduced by £1 for every £ of taxable income in excess of £300). It remained the case that the tax was paid by only a small minority of the population. 12

¹² "The whites who are occupied –i.e. have some definite income-earning occupation- numbered, according to the census of 1918 (omitting children under fifteen), 478,000, so that not one in eight of them, even, pays income tax" (Lehfeldt (1922), pp. 57–58).



⁸ Hut and poll taxes were imposed on the native population. In 1915, native taxes represented 9% of the Union tax collections, while the income tax (on persons and companies together) was 11%. In 1919 those figures were 5% and 30% respectively.

⁹ 1 lb=20 shillings; 1 shilling=12 pence.

¹⁰ The feature of averaging taxable incomes over two years only applied to tax year 1916, when the Super Tax was levied on the mean income subject to Normal Tax and dividends that accrued over the period 1st July 1914–30th June 1916.

¹¹ The *Dividend Tax* fell mainly on the profits of foreign capital invested in the Union through limited liability companies and served "to secure a higher rate of tax in respect of unearned income as distinct from income arising from personal exertion. It also enables tax to be recovered in bulk at the source". (Report 1918–1919, p. 11). The *Excess Profits Duty* (starting income year 1916 and ending 30th June 1920) was a temporary tax levied on increased trading profits during the First World War.

The Super Tax was paid by an even smaller number of people. It was an additional tax on incomes exceeding £2500 (limit lowered to £2000 since income year 1940, and to £1775 since income year 1943), applying only to individuals who were resident or carrying business in the Union. The abatement of £2500 was subject to a reduction of 10 s. for every pound by which the supertaxable income exceeded £2500, i.e. no abatement was applicable to incomes above £7500. Its main purpose was to tax the top income resident at a higher rate than the non-resident and thus reduce the liability of double taxation. The sources of income from which the Super Tax was derived were the same as for the Normal Tax, plus dividends. ¹³ Since income year 1931 the Super Tax was extended to private companies and, where a number of private companies were controlled by a single person, all their income was aggregated for the purpose of determining the amount of Super Tax payable. The Super Tax survived until income year 1958 (with some changes under the provisions of the Income Tax Act of 1941), when it was provided that a fraction of dividends received (ranging from 0% for taxable incomes below R2,600, to 66.6% for taxable incomes above R4,600) would be included in the Normal Tax base.

From 1959, block rates took the place of the progressive-rate formula that had been applied before. There was also a change in the year of assessment. Until income year 1961–1962, the year of assessment covered the twelve months between 1st July of year t and 30th June of year t+1. Since income year 1963–1964, the assessment year covers the twelve months between 1st March of year t and the end of February of year t+1. Due to the change in timing, there was a shorter transitional income year of eight months between 1st July 1962 and 28th February 1963, for which no income tabulations were produced. This coincided with the transition to the pay-as-you-earn system of tax collection.

In the twenty-first century, the Personal Income tax is the government's main source of income and is still levied in terms of the Income Tax Act of 1962. Tax is applied on taxable income that, in essence, consists of gross income less exemptions and allowable deductions. More than 95% of the tax comes from a pay-as-you-earn schedule. The Standard Income Tax on Employees (SITE) is not a separate kind of tax but a payment towards the employee's income tax liability: as it is the case in many countries, employees receiving only labour income below a given threshold are not required to file a tax return, as SITE is their full and final liability. Taxed income includes labour income (cash remuneration, cash allowances and non-cash fringe benefits), pensions, capital income (interest from bank accounts above a given threshold, dividends from foreign companies; dividends from South African to varying degrees), business income and rents. One fourth of net capital gains are today included in the definition of income. In fact, although capital gains taxation has been broadly discussed over the last forty years (see South African Revenue Service (2009), Franzsen Commission (1968), Margo Commission (1987), Katz Commission (1995)), it was not introduced until 2001 through the Taxation Laws Amendment Bill (B17-2001) and the Taxation Law Amendment Act.

¹³ For an account of the evolution of income taxation in the first years of the Union, see Kock (1924).



Both the Normal Tax and the Super Tax were originally levied on the tax unit, treating the married couple as one unit. In the late 1980s, a process of eliminating gender discrimination started. In 1988, the salaries of married women only subject to the Standard Income Tax on Employees (SITE) began to be taxed separately; this affected mainly low earning women. In 1990, the incomes of married women became subject to tax separately from her husband's income. Although taxed individually, until 1994 women faced a higher rate than their husbands': three different tax schedules affected married "persons", unmarried persons and married women.

The Income Tax Act defines a spouse in relation to any person as a partner in marriage, customary relationship or union recognised as a marriage; the definition also includes a same-sex relationship. For spouses married in community of property, income received by spouses is treated as being received in equal shares by each spouse; however, a salary from a third party is treated as being the income of the spouse who receives that salary, as well as benefits from pension, provident and retirement annuity funds; income earned from carrying on a trade jointly accrues to each partner according to the agreed profit-sharing ratio. Since 1995, a single tax rate structure is applicable to all individuals irrespective of gender or marital status.

Sources of income tax tabulations

The sources of income tax tabulations are listed in detail in Table 1. There are the following gaps in coverage:

- 1. 1951 and 1952, as a result of arrears of wartime work, no publication between Report 1951–52 (published in 1953) and Report 1953–56 (published in 1957);
- 2. 1960 and 1962 as a result of the introduction of PAYE;
- 3. 1966, 1968, 1970, 1973, 1976 and 1977;
- 4. 1994–2001.

Control totals for tax units and individuals

The sources for the three steps identified in the text are set out in Table 2, covering (1) total population (described in Sect. 3), (2) the age structure of the population and (3) marital status for women.

Data on the population by age has been interpolated from yearly figures obtained from publication P0302 (Table 6) for 2006, the censuses for 2001 (Table 4.3) and 1996 (Table 2.16), and data from the United Nations (1994), which give the age composition at 5-year intervals from 1990 back to 1950.

For the period prior to 1990, the number of tax units is obtained from the number of people aged 15 and over minus the estimated proportion who are married women. The ratio of married women to those aged 15 and over is taken from the census of population for those years where all races are covered: 1911, 1921, 1936, 1946, 1951, 1960, 1970, 1980 and 1991. It is simply assumed that the same proportion applies for the two "missing" groups: the under-enumerated and the TBVC states. The ratio is linearly interpolated.



Concerning the white population, the problems derived from under-enumeration and from the exclusion of the TBVC states are unsurprisingly much more limited. In the revision of estimates following the 1936 census mentioned in Sect. 2, the numbers for the white population remained virtually untouched when OYB 1938 (p. 1035) and OYB 1937 (p. 1047) are compared. At the moment of the 1991 census it was estimated that only 6000 white individuals lived in the TBVC states. However, the count of white individuals was not immune to the problems of the 1991 census: Statistics South Africa, 2009, Table 2.3 reports a 10% difference between enumerated individuals (4.522 million) and adjusted Figs. (5.068 million). There is also a large an evident discrepancy between this adjusted total and the mid-year estimate published in P0302 1998, Table 1.2, which reports a white population of 4328 million. Louis van Tonder, demographer at Statistics South Africa, has acknowledged that the mid-year estimates for 1991 published in 1998 were too low, the number having been subsequently revised to 4754 million. For our series, we have used the largest figure, but this does not affect the top share estimates among the white population, as these estimates stop in 1987.

For the period prior to 1990 and along the lines of the previous paragraphs, the number of tax units of white origin is obtained from the number of people aged 15 and over minus the proportion of married women. The total population, the fraction of married women and the percentage of those aged 15 and over is taken from the census of population for those years where Europeans were covered: 1911, 1918, 1921, 1926, 1936, 1946, 1951, 1960, 1970, 1980 and 1991. We also provide the number of white adults for 1991–2007, although our estimates of top income shares among the white population stop in 1987. In this case, the information comes form the censuses 1996 and 2001, and from the mid-year estimates for 2002–2014. Intermediate years have been linearly interpolated.

For the Cape of Good Hope, the population, the percentage aged 15 and over and the percentage of married women are based on the Census figures for 1904 (only total and white population available) and 1911. The estimates for individual years are interpolated linearly and extrapolated backwards to 1903. The percentage aged 15 and over and the percentage of married women for 1903 are set at the level of 1911.

Control totals for income

The control totals used here are derived by working backwards from the national accounts series for Households' Disposable Income plus the Taxes on Income and Wealth paid by households. The series for 1953–2007 are taken from the National Accounts of South Africa. The South African Reserve Bank webpage, Online Statistical Queries, provides the last updated figures. The national accounting methodology is described in South African Reserve Bank (2005).

For the years before 1953, a series for household disposable income does not exist. Consequently, we have linked the previous series backwards following the net national income from (i) Bureau of Census and Statistics (1956, page 157) for 1953–1954, and (ii) Bureau of Census and Statistics (1954, page 359). These are



mainly based on the research of Frankel (1941, 1943, 1944, Frankel and Neumark, 1940 and Frankel and Herzfeld, 1943). 14

The previous series have been extrapolated backwards to cover the years 1911 and 1917–1938 following the rate of change in the domestic income given in Franzsen (1954, Table 1), also based on the work of Frankel. The years 1912–1916 have been interpolated following the Net Domestic Product series in Stadler (1963), Table 5.

As the published series used for 1953-2007 refer to calendar years, the control totals have been adjusted to reflect the year of income tax assessment (i.e. for income years "t/t+1" from 1953/1954 to 1961/1962, the control total is the average of household income in calendar years t and t+1; we also take into account the change in the tax year from 1962). For years before 1953, the published figures refer to the same period of tax assessment, so no adjustments were required.

The price index

The price index (2014 = 100) has been constructed from the following sources:

- (i) From 1946 to 2014, the GDP deflator. The GDP in current prices and constant prices are taken from the South African Reserve Bank webpage, Online Statistical Queries.
- (ii) From 1913 to 1946, the previous series has been linked backwards following the evolution of the retail price index, from South African Statistics 1995.

Tables of control totals

Table 3 displays, for the period 1913–2014, the number of adults aged 15 and over, the number of tax units, the number of white tax units, the control total for income, the average income per adult in Rand 2014, the price index and the top marginal income tax rate. Table 4 gives the reference totals for population in the Cape of Good Hope for years 1903–1907.

See Tables 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 and 14.

¹⁴ Bureau of Census and Statistics (1954, 1956) use the fiscal year as time unit; therefore, the value of national income for fiscal year 1953/1954 is identified in the publications as 1954, whereas it is here referred to as 1953.



Table 1 Sources on income taxes data in cape colony, union of South Africa and South Africa 1903-2013

Year	Year Income year ending	Sources		Comments
Cape	Cape Colony			
1903	1903 30th June 1904	Report of the Commissioner of Taxes for the year 1905–1906	p. 13. First year of operation of income tax (non-definitive information in Report of the Commissioner of Taxes for the year 1904–1905, p. 18)	
1904	1904 30th June 1905	Report of the Commissioner of Taxes for the year 1906–1907	p. 8 (non-definitive data in Report of the Commissioner of Taxes for the year $1905-1906$, p. 14)	
1905	30th June 1906	Report of the Commissioner of Taxes for the year 1907–1908	p. 5 (non-definitive data in Report of the Commissioner of Taxes for the year 1906–1907, p. 9)	
1906	1906 30th June 1907	Report of the Commissioner of Taxes for the year 1907–1908	p. 6	
1907	1907 30th June 1908	Report of the Commissioner of Taxes for the year 1908–1909	p. 10	
Union	Union of South Africa			
1913	1913 30th June 1914	Report on the Working of the Income Tax Act, 1914, for the Year ended 30th June 1915, Union of South Africa	p. 9	Compiled+1 year
1914	1914 30th June 1915	Report of the Commissioner for Inland Revenue and Commissioner of Taxes for the year 1915–1916	Normal Tax, Statement G	Compiled+1 year
		Also in Official Yearbook of the Union No 4, 1921	Normal Tax, p. 608	Compiled+1 year
1915	1915 30th June 1916	Report of the Commissioner for Inland Revenue for the year 1916–1917	Normal Tax, Statement H; Super Tax, Statement O	Compiled+1 year
		Also in Official Yearbook of the Union No 2, 1918	Normal Tax, p. 684	Compiled+1 year
1916	30th June 1917	Report 1917–1918	Normal Tax, Statement J; Super Tax, Statement P	Compiled+1 year
		Also in Official Yearbook of the Union No 3, 1919	Normal Tax, p. 794	Compiled+1 year
1917	1917 30th June 1918	Annual Report of the Commissioner for Inland Revenue for the year 1918–19	Normal Tax, p. 25; Super Tax, p. 29	Compiled+1 year
1918	30th June 1919	Report 1919–20	Normal Tax, p. 20; same tabulation in in OY No 4, 1921, p. 814; Super Tax, p. 24	Compiled+1 year
1919	30th June 1920	Report 1920-21	Normal Tax, p. 23; Super Tax, p. 27	Compiled+1 year



O,	
_	

Year	Year Income year ending	Sources		Comments
1920	30th June 1921	Report 1921–22	Normal Tax, p. 24; Super Tax, p. 28	Compiled+1 year
1921	30th June 1922	Report 1922-23	Normal Tax, p. 22; Super Tax, Statement N	Compiled + 1 year
1922	30th June 1923	Report 1923–24	Normal Tax, p. 17; Super Tax, p. 21	Compiled + 1 year
1923	30th June 1924	Report 1924-25	Normal Tax, p. 17; Super Tax, p. 22	Compiled + 1 year
1924	30th June 1925	Report 1925-26	Normal Tax, p. 25; Super Tax, p. 30	Compiled + 1 year
1925	30th June 1926	Report 1926-27	Normal Tax, p. 30; Super Tax, p. 35	Compiled + 1 year
1926	30th June 1927	Report 1927–28	Normal Tax, p. 30; Super Tax, p. 36	Compiled + 1 year
1927	30th June 1928	Report 1928–29	Normal Tax, p. 30; Super Tax, p. 36	Compiled + 1 year
1928	30th June 1929	Report 1929–30	Normal Tax, p. 30;Super Tax, p. 36	Compiled + 1 year
1929	30th June 1930	Report 1930–31	Normal Tax, Statement XXIX; Super Tax, Statement XXXXV	Compiled + 1 year
1930	1930 30th June 1931	Report 1931–32	Normal Tax, Statement XXIX; Super Tax, Statement XXXXV	Compiled+1 year
1931	30th June 1932	Report 1932–33	Normal Tax, Statement XXX; Super Tax, Statement XXXXVI	Compiled+1 year
1932	30th June 1933	Report 1933-34	Normal Tax, Statement XXXI; Super Tax, Statement XXXXVII	Compiled+1 year
1933	30th June 1934	Report 1934–35	Normal Tax, Statement XXXI; Super Tax, Statement XXXXVII	Compiled+1 year
1934	30th June 1935	Report 1935–36	Normal Tax, Statement XXXI; Super Tax, Statement XXXXVII	Compiled+1 year
1935	1935 30th June 1936	Report 1936–37	Normal Tax, Statement XXX; Super Tax, Statement XXXXVI	Compiled+1 year
1936	1936 30th June 1937	Report 1937–38	Normal Tax, Statement XXX; Super Tax, Statement XXXXVI	Compiled + 1 year



Table 1 (continued)

Year	Income year ending	Sources		Comments
1937	30th June 1938	Report 1938–39	Normal Tax, Statement XXX; Super Tax, Statement XXXXVI	Compiled + 1 year
1938	1938 30th June 1939	Report 1939-40	Normal Tax, Statement XXX; Super Tax, Statement XXXXVI	Compiled + 1 year
1939	1939 30th June 1940	Report 1940-41	Normal Tax, Statement XXX; Super Tax, Statement XXXVI	Compiled + 1 year
1940	1940 30th June 1941	Report 1941-42	Normal Tax, Statement XXX; Super Tax, Statement XXXXVI	Compiled + 1 year
1941	1941 30th June 1942	Report 1942-43	Normal Tax, Statement XXX; Super Tax, Statement XXXXVI	Compiled + 1 year
1942	30th June 1943	Report 1943-44	Normal Tax, Statement XXX; Super Tax, Statement XXXXVI	Compiled + 1 year
1943	1943 30th June 1944	Report 1944-45	Normal Tax, Statement XXX; Super Tax, Statement XXXXVI	Compiled + 1 year
1944	1944 30th June 1945	Report 1945-46	Normal Tax, Statement XXVIII; Super Tax, Statement XXXXV	Compiled + 1 year
		Report 1946-47	Normal Tax, Statement XXXVIII; Super Tax, Statement XXXXIX	Compiled +2 years
1945	1945 30th June 1946	Report 1946-47	Normal Tax, Statement XXVIII; Super Tax, Statement XXXIV	Compiled + 1 year
		Report 1947–48	Normal Tax, Statement XXXVIII; Super Tax, Statement XXXIX	Compiled +2 years
1946	1946 30th June 1947	Report 1947–48	Normal Tax, Statement XVIII; Super Tax, Statement XXXIV	Compiled + 1 year
		Report 1949–50	Normal Tax, Statement XLI; Super Tax, Statement XLII	Compiled +3 years
1947	1947 30th June 1948	Report 1948-49	Normal Tax, Statement XXXII; Super Tax, Statement XXXIV	Compiled + 1 year



_
$\widehat{}$
ne
=
_
-=
=
ŏ
\approx
۳
_
_
Ð
=
므
Table
$\overline{}$

	(
Year	Income year ending	Sources		Comments
		Report 1949–50	Normal Tax, Statement XXXVII; Super Tax, Statement XXXVIII	Compiled +2 years
1948	1948 30th June 1949	Report 1949–50	Normal Tax, Statement XXVIII; Super Tax, Statement XXXIIV	Compiled + 1 year
		Report 1950–1951	Normal Tax, Statement XXXIX; Super Tax, Statement XXX	Compiled +2 years
		Report 1951–1952	Normal Tax, Statement XXXI; Super Tax, Statement XXXII	Compiled +3 years
1949	30th June 1950	Report 1950–1951	Normal Tax, Statement 27; Super Tax, Statement 28	Compiled +1 year
		Report 1951–1952	Normal Tax, Statement XXIX; Super Tax, Statement XXX Compiled +2 years	Compiled +2 years
1950	1950 30th June 1951	Report 1951–1952	Normal Tax, Statement XXVII; Super Tax, Statement XXVIII	Compiled +1 year
1951	1951 30th June 1952			No report published (see Report 1953– 1956, p. 1)
1952	1952 30th June 1953			No report published (see Report 1953– 1956, p. 1)
1953	30th June 1954	Report 1953-1956	Statement 11, number of taxpayers and tax amounts only	Compiled +2 years
		Report 1956-1957	Statement 12, number of taxpayers and tax amounts only	Compiled +3 years
1954	1954 30th June 1955	Report 1953–1956	Statement 12, number of Normal taxpayers and tax amounts only (not used); Statement 13 Classification of Rebates, total number of taxpayers; Statement 15, incomes classified according to source in groups of income, including dividends and other capital income	Compiled + 1 year



continued)
ಲ
_
<u>•</u>
Р
Та

Year Income year ending Sources Comments 1955 30th June 1956 Report 1956–1957 Compiled + 2 years amounts only four tack). Statement 15 milly Greunsstance, cital number of tacapacers: Statement 17, incomes classified according to source in groups of income. Compiled + 2 years amounts only four tack). Statement 16 Family Greunsstance, cital number of taxpapers: Statement 17, incomes classified according to source in groups of income. Compiled + 1 years amounts only four tack). Statement 16. Family Greunsstance, total number of taxpapers: Statement 18, incomes classified according to source in groups of income. Compiled + 1 years amounts only four tack). Statement 18, incomes classified according to source in groups of income. 1956 30th June 1957 Report 1957–1958 Statement 12, mumber of taxpapers: Statement 16, incomes classified according to source in groups of income. 1957 30th June 1957 Report 1957–1958 Statement 12, number of taxpapers: Statement 16, incomes classified according to source in groups of income. 1957 30th June 1957 Report 1957–1958 Statement 13, number of taxpapers and tax amounts only contract) statement 15 family Greunsstance, total number of taxpapers and classified according to source in groups of income. 1957 30th June 1958 Report 1957–1958 Statement 13, number of Normal taxpapers and tax amounts only contract). Statement 15 family Greunsstance and tax amounts only contracts). Statement 15, incomes classified according to source in groups of	2	(commuca)			
Report 1956–1957 Report 1956–1957 Statement 13, number of Normal taxpayers and tax amounts only (not used); Statement 17, incomes classified according to source in groups of income, including dividends and other capital income Statement 14, number of Normal taxpayers and tax amounts only (not used); Statement 16 Family Circumstance, total number of taxpayers; Statement 18, incomes classified according to source in groups of income, including dividends and other capital income Report 1957–1958 Statement 13, number of Normal taxpayers and tax amounts only (not used); Statement 16, incomes classified according dividends and other capital income Statement 13, number of Normal taxpayers and tax amounts only (not used); Statement 15 Family Circumstance, total number of taxpayers and tax amounts only (not used); Statement 17, incomes classified according to source in groups of income, including dividends and other capital income Statement 12, number of Normal taxpayers and tax amounts only (not used); Statement 14, incomes classified according to source in groups of income, including dividends and other capital income Statement 12, number of staxpayers and tax amounts only (not used); Statement 14, incomes classified according to source in groups of income, including dividends and other capital income Statement 12, number of taxpayers and tax amounts only (not used); Statement 13, incomes classified according to source in groups of income, including dividends and other capital income Statement 15, number of taxpayers and tax amounts only (not used); Statement 15, incomes classified according to source in groups of income, including dividends and other capital income	Year		Sources		Comments
Report 1956–1957 Statement 14, number of Normal taxpayers and tax amounts only (not used); Statement 16 Family Circumstance, total number of taxpayers; Statement 18, incomes classified according to source in groups of income, including dividends and other capital income Statement 12, number of Normal taxpayers and tax amounts only (not used); Statement 14 Family Circumstance, total number of taxpayers; Statement 16, incomes classified according to source in groups of income, including dividends and other capital income Report 1957–1958 Report 1957–1958 Report 1958–1959 Report 1958–1959 Statement 13, number of Normal taxpayers and tax amounts only (not used); Statement 15 Family Circumstance, total number of taxpayers and classification by ethnic origin; Statement 17, incomes classified according to source in groups of income, including dividends and other capital income Statement 12, number of Normal taxpayers and tax amounts only (not used); Statement 13 Family Circumstance, total number of taxpayers and classification by ethnic origin; Statement 14, incomes classified according to source in groups of income, including dividends and other capital income Statement 15, number of taxpayers and tax amounts only (not used); Statement 13 Family Circumstance, total number of taxpayers and classification by ethnic origin; Statement 14, incomes classified according to source in groups of income, including dividends and other capital income			Report 1956–1957	Statement 13, number of Normal taxpayers and tax amounts only (not used); Statement 15 Family Circumstance, total number of taxpayers; Statement 17, incomes classified according to source in groups of income including dividends and other capital income	Compiled + 2 years
Report 1957–1958 Statement 12, number of Normal taxpayers and tax amounts only (not used); Statement 14 Family Circumstance, total number of taxpayers; Statement 16, incomes classified according to source in groups of income, including dividends and other capital income Statement 13, number of Normal taxpayers and tax amounts only (not used); Statement 15 Family Circumstance, total number of taxpayers and classification by ethnic origin; Statement 17, incomes classified according to source in groups of income, including dividends and other capital income Statement 12, number of Normal taxpayers and tax amounts only (not used); Statement 13 Family Circumstance, total number of taxpayers and tax amounts only (not used); Statement 14 Family Circumstance, total number of taxpayers and classified according to source in groups of income, including dividends and other capital income	1955	30th June 1956	Report 1956–1957	Statement 14, number of Normal taxpayers and tax amounts only (not used); Statement 16 Family Circumstance, total number of taxpayers; Statement 18, incomes classified according to source in groups of income including dividends and other capital income	Compiled + 1 year
Report 1957–1958 Statement 13, number of Normal taxpayers and tax amounts only (not used); Statement 15 Family Circumstance, total number of taxpayers and classification by ethnic origin; Statement 17, incomes classified according to source in groups of income, including dividends and other capital income Statement 12, number of Normal taxpayers and tax amounts only (not used); Statement 13 Family Circumstance, total number of taxpayers and classification by ethnic origin; Statement 14, incomes classified according to source in groups of income, including dividends and other capital income			Report 1957–1958	Statement 12, number of Normal taxpayers and tax amounts only (not used); Statement 14 Family Circumstance, total number of taxpayers; Statement 16, incomes classified according to source in groups of income including dividends and other capital income	Compiled + 2 years
Report 1958–1959 Statement 12, number of Normal taxpayers and tax amounts only (not used); Statement 13 Family Circumstance, total number of taxpayers and classification by ethnic origin; Statement 14, incomes classified according to source in groups of income, including dividends and other capital income	1956	30th June 1957	Report 1957–1958	Statement 13, number of Normal taxpayers and tax amounts only (not used); Statement 15 Family Circumstance, total number of taxpayers and classification by ethnic origin; Statement 17, incomes classified according to source in groups of income, including dividends and other capital income	Compiled + 1 year
	1957	30th June 1958	Report 1958–1959	Statement 12, number of Normal taxpayers and tax amounts only (not used); Statement 13 Family Circumstance, total number of taxpayers and classification by ethnic origin; Statement 14, incomes classified according to source in groups of income, including dividends and other capital income	Compiled + 1 year



Table	Table 1 (continued)			
Year	Income year ending	Sources		Comments
1958	30th June 1959	Report 1959–1961	Statement 12A, number of Normal taxpayers and tax amounts only (not used); Statement 13A Family Circumstance, total number of taxpayers and classification by ethnic origin; Statement 14A, incomes classified according to source in groups of income, including dividends and other capital income	Compiled +2 years
1959	1959 30th June 1960	Report 1959–61	Statement 12B, number of Normal taxpayers and tax amounts only (not used); Statement 13B Family Circumstance, total number of taxpayers and classification by ethnic origin; Statement 14B, incomes classified according to source in groups of income, including dividends and other capital income	Compiled +1 year
1960				
Repu	Republic of South Africa			
1961	1961 30th June 1962	Report 1961–1962	Statement 12, number of taxpayers and tax amounts only (not used); Statement 13 Family Circumstance, total number of taxpayers by ethnic origin in 47 income ranges; Statement 14, incomes classified according to source in groups of income, including dividends and other capital income, in 24 income ranges	Compiled +1 year
1962				
1963	29th February 1964 Report 1963–1965	Report 1963–1965	Statement 12, number of taxpayers and tax amounts only (not used); Statement 13 Family Circumstance, total number of taxpayers by ethnic origin in 47 income ranges; Statement 14, incomes classified according to source in groups of income, including dividends and other capital income, in 21 income ranges	Compiled +1 year



continued)	
Table 1	

Year Income year ending	Sources		Comments
	Report 1965–1966	Statement 12, p.S1, number of taxpayers and tax amounts only (not used); Statement 13, p.S11 Family Circumstance, total number of taxpayers by ethnic origin in 47 income ranges; Statement 14, p.S36, incomes classified according to source in groups of income, including dividuals and other canital income in 21 income ranges.	Compiled + 2 years
	SAS 1970	p. T-10 has data for the number of white taxpayers only	
1964 28th February 1965 Report 1965–1966	Report 1965–1966	Statement 12, p.S111, number of taxpayers and tax amounts only (not used); Statement 13. p.S121 Family Circumstance, total number of taxpayers by ethnic origin in 47 income ranges; Statement 14, p.S146, incomes classified according to source in groups of income, including dividends and other capital income, in 21 income ranges.	Compiled + 1 year
	Report 1966–1967	Table 12, p.T46, number of taxpayers and tax amounts only (not used); Table 13, p. T56 Family Circumstance, total number of taxpayers by ethnic origin in 47 income ranges; Table 14, p. T82, incomes classified according to source in groups of income, including dividends and other capital income, in 21 income ranges	Compiled + 2 years
	SAS 1968	SAS 1968 has data on number of taxpayers by ethnic origin only (not used)	
	SAS 1970	p. T-10, number of white taxpayers only	



ō
\sim
$\overline{}$
$\overline{}$
$\overline{}$
$\overline{}$
_
_
_
_
_
ر ا
_
о 1
_ -
_ e1
ole 1
ole 1
ble 1(
ible 1
able 1
ro
ro
Table 1
ro

1965 28th February 1966 Report 1966–1967	Report 1966–1967	Table 12, p.T114, number of Normal taxpayers and tax amounts only (not used); Table 13, p. T124 Family Circumstance, total number of taxpayers by ethnic origin in 47 income ranges; Table 14, p. T150, incomes classified according to source in groups of income, including dividends and other capital income, in 21 income ranges (not used)	Compiled +2 years
	SAS 1970	p. T-11, number of taxpayers only, by ethnic origin	
1966 28th February 1967	SAS 1972	p. S-10, number of white taxpayers only	
1967 29th February 1968	SAS 1972	p. S-11, number of taxpayers only, by ethnic origin	
1968 28th February 1969	SAS 1974	p. 19.11, number of white taxpayers only	
1969 28th February 1970	SAS 1974	p. 19.12, number of taxpayers only, by ethnic origin	
1970 28th February 1971	SAS 1976	p. 19.11, number of white taxpayers only	
1971 29th February 1972	SAS 1976	p. 19.12, number of taxpayers only, by ethnic origin excluding African (the term used in the publication is "Bantu")	
1972 28th February 1973	SAS 1978	p. 19.11, number of white taxpayers only	
1973 28th February 1974	SAS 1978	p. 19.11, number of white taxpayers only	
1974 28th February 1975	SAS 1978	p. 19.12, number of taxpayers only, by ethnic origin excluding African (the term used in the publication is "Bantu")	
1975 29th February 1976 SAS	SAS 1980	p. 19.12, number of taxpayers only, by ethnic origin excluding African (the term used in the publication is "Bantu")	
1976 28th February 1977 SAS		p. 19.11, number of white taxpayers only	
1977 28th February 1978	SAS 1982	p. 19.11, number of white taxpayers only	



	_	_	
•	Continuino		
•	•	_	
-	ď	2	

Comments	p. 19.26, number of taxpayers only, by ethnic origin excluding African (the term used in the publication is "Blacks"). Older figures in SAS 1982, p. 19.12, number of taxpayers only, by ethnic origin, excluding African (the term used in the publication is "Blacks")	p. 19.25, number of taxpayers only, by ethnic origin, excluding blacks. SAS was not published for 1984 (see Preface to SAS 1986)	p. 19.24, number of taxpayers only, by ethnic origin, excluding African (the term used in the publication is "Blacks")	p. 19.23, number of taxpayers only, by ethnic origin, excluding African (the term used in the publication is "Blacks")	p. 19.23, number of taxpayers only, by ethnic origin, excluding African (the term used in the publication is "Blacks")	p. 10, number of taxpayers and tax assessed only	p. 19.21, number of taxpayers only. The numbers are lower than those reported in IRSB, but they include the break up by ethnic origin, excluding African (the term used in the publication is "Blacks")	p. 19.21, number of taxpayers only, by ethnic origin	p. 14, number of taxpayers and tax assessed only	p. 19.20, number of taxpayers only. The numbers are lower than those reported in IRSB, but they include the break up by ethnic origin	
ear ending Sources	28th February 1979 SAS 1986	ruary 1980 SAS 1986	ruary 1981 SAS 1986	ruary 1982 SAS 1986	ruary 1983 SAS 1986	ruary 1984 IRSB No. 4, 1986	SAS 1988	28th February 1985 SAS 1988	28th February 1986 IRSB No. 6, 1988	SAS 1988	
Year Income year ending	1978 28th Febru	1979 29th February 1980	1980 28th February 1981	1981 28th February 1982	1982 28th February 1983	1983 29th February 1984		1984 28th Febru	1985 28th Febru		



_	
ae	
٠,	
೨	
٣	
٣	
٣	
٣	
<u>ی</u>	
<u>ુ</u>	
<u>ی</u>	
<u>ی</u> –	
<u> </u>	
و د	
္ ၂	
<u>်</u>	
و او	
او 1 د	
ole 1	
ple 1	
ble 1	
able 1	
able 1 🤇	
Table 1 (c	
Table 1 (c	
Table 1 (c	
Table 1	

2	(communed)			
Year	Income year ending	Sources	Comm	Comments
1987	29th February 1988	SAS 1990	p. 19.27, number of taxpayers only, by ethnic origin	
1988	28th February 1989	SAS 1994	p. 19.21, number of taxpayers and tax collection only; also in SAS 1992	
1989	28th February 1990	SAS 1994	p. 19.21, number of taxpayers and tax collection only; also in SAS 1992	
066	1990 28th February 1991	SAS 1994	p. 19.20 number of taxpayers and tax collection only; also in SAS 1992	
1991	29th February 1992 SAS	SAS 1994	p. 19.20, number of taxpayers and tax collection only; also in SAS 1992	
1992	28th February 1993	SAS 1995	p. 19.18 number of taxpayers and tax collection only	
1993	28th February 1994 SAS	SAS 1995	p. 19.18 number of taxpayers and tax collection only	
1994				
1995				
1996				
1997				
1998				
1999				
2000				
2001				
2002		28th February 2003 2008 Tax Statistics, National Treasury and South African Revenue Service	Taxable income and number of taxpayers from Table 2.1.1	
2003	29th February 2004	2008 Tax Statistics, National Treasury and South African Revenue Service		
8	28th February 2005	2004 28th February 2005 2009 Tax Statistics, National Treasury and South African Revenue Service	Taxable income and number of taxpayers from Table A2.1.1	



Comments				
				Taxable income and number of taxpayers from Table A2.1.1; income before deductions from Table A2.1.2
Sources	2005 28th February 2006 2010 Tax Statistics, National Treasury and South African Revenue Service	2011 Tax Statistics, National Treasury and South African Revenue Service	2007 29th February 2008 2012 Tax Statistics, National Treasury and South African Revenue Service	2008 28th February 2009 2013 Tax Statistics, National Treasury and South African Revenue Service
Year Income year ending Sources	28th February 2006	2006 28th February 2007 2011 Re	29th February 2008	28th February 2009
Year	2005	2006	2007	2008

2009 28th February 2010 2014 Tax Statistics, National Treasury and South African

2015 Tax Statistics, National Treasury and South African 2015 Tax Statistics, National Treasury and South African Revenue Service Revenue Service 2012 28th February 2013 28th February 2014 2013

2015 Tax Statistics, National Treasury and South African

Revenue Service

2011 29th February 2012

2015 Tax Statistics, National Treasury and South African

Revenue Service

28th February 2011

Revenue Service

'Compiled + 2 year" means assessments included in the data are those compiled up to 24 month after the end of the tax year "Compiled + 3 year" means assessments included in the data are those compiled up to 36 month after the end of the tax year "Compiled +1 year" means assessments included in the data are those compiled up to 12 month after the end of the tax year SAS denotes South African Statistics; IRSB denotes Inland Revenue Statistical Bulletin



Africa
South
ı data,
ulation
of popu
Sources
Table 2

100 7 3 3 Cm	idale 2 Sources of population data, South Milea		
	Source of total population	Source of percentage aged 15 and over	Source of percentage of married women
	(1)	(2)	(3)
A. Total population	ation		
1904 to 1950	1904 to 1950 Feinstein (2005), p. 259		
1911		OYB 1921, pages 137, 153 and 157	OYB 1918, pages 170 and 172
1921			OYB 1937, pages 1058–9
1936		Mitchell, 2003, page 17	OYB 1940, page 1012
1946		Mitchell, 2003, page 17	SYB 1964, page A-19
1951			SYB 1964, page A-19
1960			SYB 1964, page A-19
1970			SAS 1976, page 1.28
1980			SAS 1982, page 1.21
1991			SAS 1992, page 1.11
1950 to 1991	UN Population Division website, World Population Prospects: the 2008 Revision, linked backwards from 1991	Interpolated from <i>The Sex and Age Distribution of the World Populations</i> (UN, 1994), page 726, which gives age composition at 5-year intervals from 1950	
1991 to 1998	P0302, 1998, Table 1	Interpolated between <i>Population Census 1996</i> Table 2.16 and 2001 Table 4.3	
1999	P0302, 1999, Table 1	See above	
2000	P0302, 2000, Table 2.1	See above	
2001	P0302, 2001, Table 2.1	Population Census 2001, Table 4.3	
2002	P0302, 2002, Table 2.1	Interpolated	
	Linked backwards from 2003 using UN population total described above		
2003	P0302, 2003, Table 2	Interpolated	
2004	P0302, 2004, Table 12	Interpolated	
2005	P0302, 2005, Table 8	Interpolated	
2006	P0302, 2006, Table 6	P0302, 2006, Table 6	



Table 2 (continued)

	Source of total population	Source of percentage aged 15 and over	Source of percentage of married women
2007	P0302, 2007, Table 4	Interpolated	
2008	P0302, 2008, Table 7	Interpolated	
2009	P0302, 2009, Table 12	P0302, 2009, Table 12	
2010	P0302, 2010, Table 11	P0302, 2010, Table 11	
2011	P0302, 2011, Table 11	P0302, 2011, Table 11	
B. White population	ulation		
1911	SAS 2009, Table 2.3	OYB 1918, page 166	OYB 1918, page 170
1918	OYB 1921, page 137	OYB 1921, page 156	OYB 1921, page 156
1921	SAS 2009, Table 2.3	OYB 1927–1928, page 882	OYB 1937, page 1058
1926	SAS 2009, Table 2.3	OYB 1927–1928, page 882	OYB 1937, page 1059
1931	OYB 1938, page 1034	OYB 1937, page 1058	OYB 1937, page 1059
1936	SAS 2009, Table 2.3	OYB 1938, page 1045	OYB 1938, page 1046
1946	SAS 2009, Table 2.3	SYB 1964, page A-17	SYB 1964, page A-19
1951	SAS 2009, Table 2.3	SYB 1964, page A-17	SYB 1964, page A-19
1960	SAS 2009, Table 2.3	SYB 1964, page A-17	SYB 1964, page A-19
1970	SAS 2009, Table 2.3	SAS 1976, page 1.25	SAS 1976, page 1–28
1980	SAS 2009, Table 2.3	SAS 1982, page 1.18	SAS 1982, page 1–21
1991	SAS 2009, Table 2.3	SAS 1993, page 1.10	
1996	Census 1996 Statistics South Africa webpage	Census 1996 Statistics South Africa webpage	
2001	P0302 2001	Census 2001 Statistics South Africa webpage	
2002	P0302 2002 Table 1.2	interpolated	
2003	P0302 2003 Table 2	P0302 2003 Table 2	
2004	P0302 2004 Table 12	P0302 2004 Table 12	
2005	P0302 2005 Table 8	P0302 2005 Table 8	
2006	P0302 2006	P0302 2006	



;	ξ	3
	5	_
	ţ	3
	Š	3
•	•	٧
	(U
	•	2
ı	2	V

	Source of total population	Source of percentage aged 15 and over	Source of percentage of married women
2007	P0302 2007	P0302 2007	
2008	P0302 2008	P0302 2008	
2009	P0302 2009	P0302 2009	
2010	P0302 2010	P0302 2010	
2011	P0302 2011	P0302 2011	
2012	interpolated	interpolated	
2013	P0302 2013	P0302 2013	
2014	P0302 2014	P0302 2014	
C. Total pop	C. Total population Cape of Good Hope		
1904	OYB 1918, page 152		
1911	OYB 1918, page 152	OYB 1918, pages 167 and 169	OYB 1918, pages 170 and 172
D. White po,	D. White population Cape of Good Hope		
1904	OYB 1918, page 150	SYB 1913, page 31	
1911	OYB 1918, page 150	OYB 1918, page 169	OYB 1918, page 170

OYB denotes Official Yearbook; SYB denotes Statistical Yearbook; SAS denotes South African Statistics; P0302 denotes Statistics South Africa: Statistical Release P0302 Mid-year population estimates



 Table 3
 Reference totals for population, income and inflation, South Africa 1913–2014

anieo	idule 3 reference totals for population, income and initiation, south Alifea 1913–2014	уриганоп, пісопіс а	and mination, som	II AIIICA 1913–2014			
	(1)	(2)	(3)	(4)	(5)	(9)	(7)
	# Adults aged 15 and over	# Tax units	# White tax units	Total reference income	Average income per adult	Price index	Highest marginal tax rate
	000	000	000	(million 2014 Rands)	(2014 Rands)	(2014 = 100)	(%)
					(4)/(1)		
1913	4393	2652	601	75,135	17,104	0.295	7.50
1914	4464	2694	604	69,69	15,614	0.310	7.50
1915	4534	2735	909	72,542	15,999	0.329	25.00
1916	4605	7777	809	75,164	16,324	0.361	25.00
1917	4675	2818	610	78,657	16,827	0.386	25.00
1918	4744	2859	612	80,466	16,960	0.427	25.00
1919	4707	2835	636	83,398	17,719	0.529	25.00
1920	4776	2876	629	76,683	16,058	0.479	25.00
1921	4843	2920	683	78,548	16,218	0.399	25.00
1922	4937	3006	704	95,511	19,347	0.388	35.00
1923	5023	3098	725	1,00,564	20,019	0.393	35.00
1924	5116	3189	746	1,04,567	20,440	0.392	35.00
1925	5206	3279	192	1,09,228	20,981	0.386	35.00
1926	5309	3371	788	1,14,341	21,537	0.388	35.00
1927	5403	3462	608	1,23,823	22,916	0.388	33.00
1928	5498	3555	831	1,24,356	22,619	0.387	33.00
1929	5591	3648	852	1,20,803	21,605	0.378	35.00
1930	9899	3742	874	1,15,144	20,251	0.364	35.00
1931	5782	3838	895	1,11,027	19,201	0.348	35.00
1932	5877	3937	912	1,23,319	20,982	0.338	35.00
1933	5974	4034	930	1,44,113	24,125	0.343	35.00



tinued)
3 (con
Table

lable 5	lable 3 (continued)						
	(1)	(2)	(3)	(4)	(5)	(9)	(7)
	# Adults aged 15 and over	# Tax units	# White tax units	Total reference income	Average income per adult	Price index	Highest marginal tax rate
	000	000	000	(million 2014 Rands)	(2014 Rands)	(2014 = 100)	(%)
					(4)/(1)		
1934	9909	4133	947	1,55,611	25,654	0.341	32.00
1935	6161	4234	964	1,70,799	27,721	0.342	32.00
1936	6293	4337	981	1,87,204	29,749	0.350	32.00
1937	6428	4445	266	1,83,541	28,553	0.363	33.00
1938	6564	4554	1012	1,94,128	29,575	0.362	32.00
1939	0029	4664	1027	2,05,596	30,685	0.375	42.00
1940	9839	4775	1043	2,15,783	31,564	0.393	52.50
1941	6973	4887	1058	2,22,940	31,971	0.426	52.50
1942	7109	4998	1073	2,26,795	31,904	0.451	80.38
1943	7247	5112	1089	2,35,888	32,552	0.467	80.38
1944	7384	5226	1104	2,44,576	33,121	0.480	60.38
1945	7524	5343	1119	2,58,000	34,290	0.487	64.88
1946	9992	5462	1135	2,61,582	34,124	0.507	64.88
1947	7735	5552	1151	2,74,219	35,452	0.548	66.83
1948	7940	5649	1167	2,82,914	35,630	0.564	75.50
1949	8078	5742	1183	3,04,132	37,647	0.593	75.50
1950	8192	5930	1199	3,35,449	40,949	0.653	75.50
1951	8343	9069	1216	3,29,001	39,434	0.678	75.50
1952	8503	6018	1236	3,43,257	40,370	0.705	81.79
1953	8670	6134	1255	3,50,614	40,441	0.767	51.27



Table 3 (continued)

C PIGE	(continued)						
	(1)	(2)	(3)	(4)	(5)	(9)	(7)
	# Adults aged 15 and over	# Tax units	# White tax units	Total reference income	Average income per adult	Price index	Highest marginal tax rate
	000	000	000	(million 2014 Rands)	(2014 Rands)	(2014 = 100)	(%)
					(4)/(1)		
1954	8842	6254	1275	3,70,150	41,863	0.775	51.27
1955	9018	6377	1295	3,93,164	43,596	0.773	51.27
1956	9205	8059	1315	4,07,980	44,322	0.789	55.73
1957	9397	6642	1335	4,20,589	44,758	0.798	55.73
1958	9594	6229	1355	4,34,577	45,296	0.800	44.58
1959	0086	6922	1375	4,54,174	46,346	0.810	50.00
1960	10,014	7072	1395	4,69,965	46,933	0.842	50.00
1961	10,246	7270	1513	5,01,747	48,970	0.854	50.00
1962	10,487	7476	1632	5,35,564	51,067	0.857	50.00
1963	10,736	6892	1751	5,41,182	50,407	0.884	50.00
1964	10,989	9062	1870	5,67,057	51,601	0.902	50.00
1965	11,245	8127	1988	6,02,614	53,588	0.928	50.00
1966	11,565	8397	2107	6,40,338	55,367	696.0	50.00
1967	11,891	8673	2226	6,75,299	56,789	1.008	50.00
1968	12,226	8958	2344	7,21,340	59,001	1.047	50.00
6961	12,573	9254	2463	7,23,917	57,575	1.127	50.00
1970	12,937	9564	2582	7,76,536	60,025	1.175	50.00
1971	13,288	3862	2654	8,56,679	64,469	1.246	50.00
1972	13,654	10,173	2725	8,67,369	63,524	1.383	50.00
1973	14,031	10,494	2797	8,32,201	59,312	1.636	50.00



I Table 3 (continued)

522

	(1)	(2)	(3)	(4)	(5)	(9)	(7)
	# Adults aged 15 and over	# Tax units	# White tax units	Total reference income	Average income per adult	Price index	Highest marginal tax rate
	000	000	000	(million 2014 Rands)	(2014 Rands)	(2014 = 100)	(%)
					(4)/(1)		
1974	14,413	10,822	2869	8,89,163	61,692	1.826	50.00
1975	14,796	11,152	2941	9,15,187	61,854	2.042	50.00
1976	15,207	11,505	3013	9,32,915	61,350	2.254	50.00
1977	15,619	11,863	3084	9,74,193	62,372	2.506	50.00
1978	16,038	12,227	3156	9,55,091	59,550	2.799	50.00
1979	16,471	12,605	3228	9,92,749	60,271	3.222	50.00
1980	16,923	13,000	3300	10,44,312	61,709	3.754	50.00
1981	17,367	13,342	3358	11,04,361	63,589	4.127	50.00
1982	17,829	13,698	3417	11,41,516	64,027	4.702	50.00
1983	18,300	14,061	3475	11,59,398	63,355	5.481	50.00
1984	18,769	14,423	3533	12,47,829	66,483	6.112	50.00
1985	19,229	14,777	3592	12,17,432	63,313	7.139	50.00
1986	19,787	15,208	3650	12,13,398	61,322	8.357	50.00
1987	20,339	15,633	3708	12,84,219	63,140	9.568	45.00
1988	20,898	16,065	3767	13,49,386	64,570	11.021	45.00
1989	21,485	16,517	3825	13,82,072	64,328	12.923	45.00
1990	22,113	22,113	4042	14,14,236	63,954	14.929	44.00
1991	22,917	22,917	3942	14,27,485	62,289	17.277	43.00
1992	23,690	23,690	3842	14,54,837	61,410	19.795	43.00
1993	25,023	25,023	3741	14,66,500	58,605	21.839	43.00



Table 3 (continued)

lables	idbie 5 (collullueu)						
	(1)	(2)	(3)	(4)	(5)	(9)	(7)
	# Adults aged 15 and over	# Tax units	# White tax units	Total reference income	Average income per adult	Price index	Highest marginal tax rate
	000	000	000	(million 2014 Rands)	(2014 Rands)	(2014 = 100)	(%)
					(4)/(1)		
1994	25,861	25,861	3641	15,06,283	58,246	23.935	46.33
1995	26,723	26,723	3541	15,56,480	58,245	26.388	46.66
1996	27,181	27,181	3441	16,21,916	59,671	28.523	45.00
1997	27,768	27,768	3497	16,83,415	60,625	30.835	45.00
1998	28,536	28,536	3554	16,96,671	59,458	33.213	45.00
1999	29,325	29,325	3610	17,40,356	59,348	35.562	45.00
2000	29,650	29,650	3666	17,91,642	60,426	38.365	42.00
2001	30,528	30,528	3723	18,17,022	59,519	41.283	42.00
2002	31,095	31,095	3724	18,06,698	58,103	46.336	40.00
2003	31,518	31,518	3470	18,61,895	59,074	49.021	40.00
2004	31,609	31,609	3554	19,57,977	61,943	52.220	40.00
2005	31,798	31,798	3565	20,67,330	65,014	55.066	40.00
2006	32,124	32,124	3573	21,77,380	67,780	58.510	40.00
2007	32,561	32,561	3581	22,51,159	69,136	63.688	40.00
2008	33,258	33,258	3675	23,16,657	859,69	69.313	40.00
2009	33,820	33,820	3670	23,08,047	68,245	74.514	40.00
2010	34,487	34,487	3761	23,65,828	009'89	79.247	40.00
2011	34,774	34,774	3738	24,43,118	70,256	84.518	40.00
2012	36,151	36,151	3759	25,31,281	70,020	89.177	40.00
2013	37,527	37,527	3781	25,87,408	68,947	94.515	40.00



$\overline{}$
Ö
2
Ξ
Ξ
듬
\sim
ع
<u>∪</u>
<u>ی</u>
) E a
ble 3
ple
Table 3 (c

	,						
	(1)	(2)	(3)	(4)	(5)	(9)	(7)
	# Adults aged 15 and over	# Tax units	# White tax units	Total reference income	Average income per adult	Price index	Highest marginal tax rate
	000	000	000	(million 2014 Rands)	(2014 Rands)	(2014 = 100)	(%)
					(4)/(1)		
2014	37,822	37,822	3741	26,32,713	809'69	100.000	40.00

Tax units for 1913-1989 estimated as the number of married couples and single adults aged 15 and over

Tax units for 1990-2014 estimated as the number of adults aged 15 and over



MICT INCIDING	design to the second of the second se		
	(1)	(2)	(3)
	# Adults aged 15 and over	# Tax units	# White Tax Units
	000	000	000
1903	1622	1153	267
1904	1637	1164	265
1905	1652	1174	263
1906	1667	1185	261
1907	1683	1196	260

Tax units estimated as number of married couples and single adults aged 15 and over



 Table 5
 Top income shares (excluding dividend income), South Africa 1913–1953

2	table a top income single care	comme o	7	dame arrian medine), countrinea 1715	c), court 13		1777							
	Top 5%	Top 1%	Top 0.5%	Top 0.25%	Top 0.1%	Top 0.05%	Top 0.01%	Top 5-1%	Top 1-0.5%	Top 0.5-0.25%	Top 0.25-0.1%	Top 0.1–0.05%	Top 0.05- 0.01%	Top 0.01%
	(1)	(2)	(3)	(4)	(5)	(9)	(7)	(8)	(6)	(10)	(11)	(12)	(13)	(14)
1913 (8	(a)				8.02	5.51	2.27					2.51	3.24	2.27
1914 (6	(a)	25.62	18.45	13.24	8.50	6.03	2.67		7.17	5.21	4.74	2.47	3.36	2.67
i) 2161	(a)	25.53	18.76	13.79	9.10	6.57	3.03		6.77	4.96	4.69	2.53	3.54	3.03
_	(a)	25.66	18.73	13.65	8.92	6.41	2.99		6.93	5.08	4.73	2.51	3.42	2.99
	(a)	26.62	19.74	14.65	9.84	7.26	3.57		88.9	5.09	4.81	2.58	3.69	3.57
3) 8161	(a)	24.54	17.50	12.54	7.97	5.63	2.51		7.04	4.95	4.58	2.34	3.11	2.51
_	(a)	22.21	15.99	11.41	7.22	5.12	2.36		6.22	4.58	4.19	2.10	2.76	2.36
1920 (3	(a)	23.62	16.48	11.52	7.05	4.77	1.88		7.14	4.96	4.47	2.28	2.89	1.88
	(a)	25.37	17.64	12.23	7.35	4.90	1.90		7.74	5.41	4.88	2.45	3.01	1.90
	(a)	22.35	15.62	10.84	6.50	4.34	1.67		6.73	4.78	4.34	2.16	2.67	1.67
1923 (3	a)	22.71	15.98	11.13	6.71	4.50	1.73		6.73	4.85	4.42	2.21	2.77	1.73
	a)	23.22	16.39	11.44	6.92	4.66	1.83		6.83	4.95	4.52	2.26	2.83	1.83
	(a)	23.97	16.97	11.86	7.14	4.79	1.89		7.00	5.11	4.72	2.35	2.90	1.89
	a)	23.49	16.71	11.73	7.07	4.73	1.84		6.78	4.98	4.66	2.34	2.90	1.84
	(a)	23.25	16.56	11.59	6.97	4.65	1.80		69.9	4.97	4.62	2.32	2.85	1.80
1928 (3	(a)	23.35	16.66	11.67	7.02	4.67	1.79		69.9	4.99	4.65	2.34	2.88	1.79
	(a)	23.43	16.56	11.52	88.9	4.54	1.67		6.87	5.03	4.64	2.34	2.87	1.67
_	a)	23.88	16.74	11.62	6.93	4.55	1.64		7.14	5.12	4.69	2.38	2.91	1.64
1931 (a	(a)	23.66	16.52	11.46	6.87	4.55	1.67		7.14	5.06	4.58	2.33	2.88	1.67
	(a)	22.99	16.40	11.67	7.31	5.04	2.16		6.59	4.73	4.36	2.27	2.88	2.16
1933 (a	(a)	22.63	16.53	11.93	7.60	5.35	2.45		6.10	4.59	4.34	2.25	2.91	2.45
	(a)	21.56	15.66	11.13	98.9	4.64	1.80		5.90	4.52	4.27	2.23	2.84	1.80
	(a)	21.94	15.91	11.34	6.97	4.72	1.84		6.03	4.57	4.36	2.25	2.88	1.84
1936 (a	(a)	21.51	15.64	11.18	6.87	4.65	1.81		5.87	4.46	4.31	2.22	2.84	1.81
	(a)	20.66	14.80	10.42	6.25	4.12	1.48		5.86	4.37	4.17	2.13	2.64	1.48
1938 (3	(a)	19.88	14.14	9.91	5.95	3.94	1.45		5.74	4.23	3.96	2.01	2.49	1.45



Table 5 (continued)

		(
		Top 5% Top 1%	Top 1%	Top 0.5%	Top 0.5% Top 0.25% Top 0.1%		Top 0.05%	Top 0.05% Top 0.01% Top 5-1%		Top 1-0.5%	Top 0.5-0.25%	Top 0.25–0.1%	Top 0.1–0.05%	Top 0.05- 0.01%	Top 0.01%
	-	(1) (2)	(2)	(3)	(4)	(5)	(9)	(7)	(8)	(6)	(10)	(11)	(12)	(13)	(14)
1939	(a)		18.63	13.18	9.18	5.50	3.65	1.36		5.45	4.00	3.68	1.85	2.29	1.36
1940	(p)														
1941	(p)														
1942	(p)														
1943	(p)														
1944	(c)		21.63	15.39	10.73	6.61	4.53	1.83		6.24	4.66	4.12	2.07	2.71	1.83
1945	(c)		24.31	17.93	12.91	8.13	5.66	2.30		6.38	5.03	4.78	2.47	3.35	2.30
1946	(p)		27.69	20.56	14.92	9.39	6.36	2.78		7.13	5.64	5.53	3.03	3.58	2.78
1947	(c)		24.68	18.10	12.99	8.11	5.53	2.11		6.57	5.11	4.88	2.58	3.42	2.11
1948	(p)		24.70	17.70	12.41	7.46	4.94	1.82		7.00	5.30	4.94	2.52	3.13	1.82
1949	(c)		20.51	14.63	10.24	6.16	4.09	1.52		5.88	4.39	4.08	2.07	2.57	1.52
1950	(p)														
1951															
1952															
1953	(e)	45.53	18.69	12.71	8.48	4.81	3.08		26.84	5.98	4.23	3.67	1.74		

(b) Estimates for 1940–1943 and 1950 are presented in Table 10 for illustrative purposes, as they are also based on assessments issued up to 12 months after the end of the (a) Estimates are based on assessments compiled up to 12 months after the end of the income year, which cover around 95% of total assessments income year but only cover 70-80% of total assessments

(d) Estimates are based on assessments compiled up to 36 months after the end of the income year and also cover around 95% of total assessments (c) Estimates are based on assessments compiled up to 24 months after the end of the income year and also cover around 95% of total assessments

(e) The results for 1953 are based on Pareto interpolation on the number of assessments by ranges of income only (the information on incomes by ranges is not available) compiled up to 36 months after the end of the income year. There is information on the number of assessments by income ranges compiled up to 24 months after the end of the tax year; top income shares, in this case, are the following: Top 5%: 36.06, Top 1%: 14.80%, Top 0.5%: 10.06%, Top 0.25%: 6.72%, Top 0.1%: 3.81%, Top 0.05%: 2.43%, a difference of around 1% (not 1% point) with respect of top shares estimated on assessments compiled up to 36 months after the end of the income year



 Table 6
 Top income shares (including dividend income), South Africa 1914–1993

	- Joi					, com											
		Top 10%	Top 5%	Top 1%	Top 0.5%	Top 0.25%	Top 0.1%	Top 0.05%	Top 0.01%	Top 10–5%	Top 5–1%	Top 1–0.5%	Top 0.5– 0.25%	Top 0.25– 0.1%	Top 0.1- 0.05%	Top 0.05– 0.01%	Top 0.01%
		(1)	(2)	(3)	(4)	(5)	(9)	(7)	(8)	(6)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
1914– 1915	(a)								3.32								3.32
1916	(a)							7.45	3.55							3.89	3.55
1917	(a)							8.42	4.18							4.24	4.18
1918	(a)							6.77	3.17							3.60	3.17
1919	(a)							6.01	2.83							3.18	2.83
1920	(a)							5.92	2.55							3.38	2.55
1921	(a)							90.9	2.58							3.48	2.58
1922	(a)							5.25	2.12							3.12	2.12
1923	(a)							5.73	2.44							3.29	2.44
1924	(a)							00.9	2.59							3.41	2.59
1925	(a)							5.93	2.48							3.45	2.48
1926	(a)							5.85	2.38							3.47	2.38
1927	(a)							5.58	2.26							3.32	2.26
1928	(a)							5.79	2.38							3.40	2.38
1929	(a)							5.66	2.25							3.41	2.25
1930	(a)							5.66	2.22							3.44	2.22
1931	(a)								2.12								2.12
1932	(a)								2.56								2.56
1933	(a)							6.43	3.02							3.41	3.02
1934	(a)							5.90	2.49							3.41	2.49
1935	(a)							90.9	2.58							3.47	2.58
1936	(a)						8.41	5.86	2.44						2.55	3.42	2.44
1937	(a)							5.40	2.18							3.22	2.18
1938	(a)							5.05	2.02							3.03	2.02



_
\circ
യ
a)

lable o	iable o (commuca)															
	Top 10%	Top 10% Top 5%	Top 1%	Top 0.5%	Top 0.25%	Top 0.1%	Top 0.05%	Top 0.01%	Top 10–5%	Top 5-1%	Top 1-0.5%	Top 0.5- 0.25%	Top 0.25- 0.1%	Top 0.1– 0.05%	Top 0.05- 0.01%	Top 0.01%
	(1)	(2)	(3)	(4)	(5)	(9)	(7)	(8)	(6)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
1939	(a)						4.82	2.02							2.80	2.02
1940	(b)															
1941	(p)															
1942	(p)															
1943	(p)															
1944	(c)		22.80	16.42	11.58	7.25	5.03	2.09			6.38	4.83	4.34	2.22	2.94	2.09
1945	(c)		25.55	18.98	13.75	8.75	6.14	2.55			6.57	5.23	5.00	2.61	3.59	2.55
1946	(p)		29.52	22.17	16.33	10.60	7.48	3.13			7.34	5.85	5.73	3.12	4.35	3.13
1947	(c)		26.61	19.78	14.40	9.18	6.36	2.54			6.83	5.38	5.23	2.82	3.82	2.54
1948	(p)		27.62	20.11	14.32	8.79	5.89	2.31			7.51	5.79	5.54	2.90	3.58	2.31
1949	(3)		22.17	16.05	11.39	7.00	4.73	1.84			6.13	4.66	4.39	2.27	2.88	1.84
1950																
1951																
1952																
1953																
1954	(c)	44.60	17.70	11.91	7.89	4.43	2.80			26.89	5.79	4.02	3.46	1.62		
1955	(c)	44.76	18.03	12.13	8.01	4.48	2.83			26.73	5.90	4.12	3.52	1.65		
1956	(e)	44.21	17.40	11.59	7.61	4.25	2.68			26.81	5.81	3.98	3.36	1.57		
1957	(e)	44.00	16.94	11.18	7.30	4.06	2.56			27.06	5.77	3.88	3.23	1.51		
1958	(e)	43.20	16.16	10.51	08.9	3.84	2.46			27.04	5.65	3.71	2.96	1.37		
1959	(e)	41.97	15.74	10.24	6.64	3.67	2.32			26.23	5.50	3.60	2.98	1.34		
1960																
1961	(e)	39.57	14.74	9.59	6.21	3.44	2.17			24.83	5.15	3.38	2.77	1.27		



ed)
ntinue
(con
e 6
<u>ap</u>
_

lable 6 (continued)	ontinued)															
	Top 10	Top 10% Top 5%	Top 1%	Top 0.5%	Top 0.25%	Top 0.1%	Top 0.05%	Top 0.01%	Top 10–5%	Top 5–1%	Top 1–0.5%	Top 0.5– 0.25%	Top 0.25- 0.1%	Top 0.1– 0.05%	Top 0.05- 0.01%	Top 0.01%
	(1)	(2)	(3)	(4)	(5)	(9)	(7)	(8)	(6)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
1962																
1963 (f	(f) 61.19	42.86	16.50	10.89	7.15	4.04	2.59		18.33	26.36	5.61	3.74	3.12	1.45		
1964 (f	(f) 63.84	44.57	17.09	11.27	7.39	4.16	2.66		19.28	27.48	5.82	3.88	3.23	1.50		
t) 5961	(f) 63.88	44.35	16.57	10.85	7.10	4.00	2.56		19.53	Z7.77	5.72	3.75	3.10	4.		
1966																
1967 (§	(g) 63.44	43.71	15.79	10.18	6.57	3.62	2.28		19.73	27.92	5.62	3.61	2.94	1.34		
1968																
1969	(g) 63.33	44.21	16.72	10.92	6.99	3.75			19.12	27.48	5.81	3.93	3.24			
1970																
1971	(g) 64.12	44.34	16.12	10.30	6.45	3.41			19.78	28.22	5.82	3.86	3.03			
1972																
1973																
1974 (§	(g)	43.54	16.17	10.44	99.9	3.68				27.37	5.73	3.78	2.99			
3) 5761	(g)	43.37	15.22	09.6	6.01	3.23				28.15	5.62	3.59	2.78			
9261																
1977																
3) 8/61	(g)	39.35	12.94	7.85	4.75					26.41	5.10	3.10				
3) 6261	(g)	37.23	12.41	7.60	4.65					24.82	4.81	2.95				
3) 0861	(g)	38.23	13.62	69.8	5.57	3.10				24.61	4.93	3.12	2.47			
3) 1861	(g)	40.27	14.19	60.6	5.89					26.08	5.10	3.20				
1982	(g)	41.47	15.00	62.6	6.53	3.90	2.68			26.47	5.20	3.27	2.63	1.22		
3) (83	(g)	38.65	14.18	9.32	6.27	3.78	2.60	1.12		24.48	4.86	3.05	2.49	1.18	1.48	1.12
1984 (§	(g)	39.05	14.12	9.22	6.14	3.63	2.45	1.00		24.93	4.90	3.09	2.50	1.18	1.45	1.00



Table 6 (continued)

2	(commune)															
	Top 10%	Top 10% Top 5%	Top 1%	Top 0.5%	Top 0.25%	Top 0.1%	Top 0.05%	Top 0.01%	Top 10–5%	Top 5-1%	Top 1-0.5%	Top 0.5- 0.25%	Top 0.25- 0.1%	Top 0.1- 0.05%	Top 0.05- 0.01%	Top 0.01%
	(1)	(2)	(3)	(4)	(5)	(9)	(7)	(8)	(6)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
1985	(g)	36.90	13.30	8.64	5.71	3.35	2.25			23.60	4.66	2.93	2.36	1.11		
1986	(g)	36.12	12.94	8.32	5.43	3.12	2.05	0.78		23.18	4.62	2.89	2.31	1.07	1.27	0.78
1987	(g)	31.69	10.97	6.85	4.34	2.42	1.57			20.72	4.12	2.51	1.92	0.85		
1988	(g)	32.92	12.35	8.03	5.26	3.02	1.99			20.57	4.32	2.77	2.24	1.04		
1989	(g)		8.99	5.59	3.50	1.92	1.23	0.45			3.41	2.09	1.58	69.0	0.79	0.45
1990	(g)	36.59	12.31	7.34	4.19					24.27	4.97	3.15				
1991	(g)	38.06	13.17	8.22						24.89	4.95					
1992	(g)	37.96	13.21	8.18	5.09					24.76	5.03	3.09				
1993	(g)	36.18	12.83	7.95	4.91					23.35	4.89	3.04				

(a) Estimates are based on assessments compiled up to 12 months after the end of the income year, which cover around 95% of total assessments. The estimate for 1914— 1915 is based on the average income of IY1914 and IY1915 (b) Estimates for 1940–1943 and 1950 are presented in Table 10 for illustrative purposes, as they are also based on assessments issued up to 12 months after the end of the income year, but only cover 70-80% of total assessments

(c) Estimates are based on assessments compiled up to 24 months after the end of the income year and also cover around 95% of total assessments

(d) Estimates are based on assessments compiled up to 36 months after the end of the income year and also cover around 95% of total assessments

(e) Estimates based on assessments compiled up to 12 months after the end of the tax year

(f) Estimates are based on Pareto interpolations on the number of tax assessments only, compiled up to 24 months after the end of the tax year

g) Estimates are based on Pareto interpolations on the number of tax assessments only. Exact compilation period unknown; it is presumed that they correspond to assessments compiled at least 24 months after the end of the income year, as they come from SAS. Estimates for 1989 are affected by an abnormally low number of tax assessements reported in the tabulations (52% of those assessed in 1988)

Even though the number of taxpayers is well above 10% of the control total for the population, the series for the top 10% income share is not given from 1971 to 2007, as the resulting P90 value is usually very close to (and sometimes below) the threshold under which employees are only subject to PAYE, and not included in the statistics used here (these workers are not required to file a tax return)



Table 7 Top income shares, South Africa 2002-2007

	4		F																	
	Top 10%	Top 5%	Top 1%	Top 0.5%	Top 0.25%	Top 0.1%	Top 0.05%	Top 0.01%	Pareto-Lorenz Coefficient	orenz	Inverted Pareto-Lorenz Coefficient	l Jorenz ent	Top 10–5%	Top 5–1%	Top 1-0.5%	Top 0.5- 0.25%	Top 0.25- 0.1%	Top 0.1- 0.05%	Top 0.05- 0.01%	Top 0.01%
									1%-	0.05%-	1%- 0.1%	0.05%-								
)	(1)	(2)	(3)	(4)	(5)	(9)	(7)	(8)	(6)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
2002		41.62	17.98	12.18	8.29	5.04	3.44	1.42	2.23	2.23	1.81	1.82		23.64	5.80	3.89	3.25	1.60	2.02	1.42
2003		42.57	18.31	12.36	8.33	4.98	3.35	1.31	2.30	2.39	1.77	1.72		24.26	5.95	4.03	3.35	1.63	2.03	1.31
2004		42.71	18.49	12.55	8.52	5.15	3.50	1.40	2.25	2.32	1.80	1.76		24.22	5.94	4.03	3.37	1.65	2.10	1.40
2005		44.21	19.45	13.36	9.18	5.63	3.86	1.59	2.17	2.22	1.86	1.82		24.76	60.9	4.18	3.55	1.77	2.27	1.59
2006		45.63	20.56	14.23	9.91	6.21	4.34	1.88	2.08	2.08	1.92	1.92		25.07	6.34	4.32	3.70	1.86	2.46	1.88
2007		47.44		15.25	10.73	6.85	4.89	2.27	2.00	1.91	2.00	2.10		25.74	6.45	4.52	3.88	1.97	2.62	2.27

(a) Preliminary results based on adjusted incomplete assessments

We estimate the Pareto-Lorenz coefficient based on the share of the top y% (Sy%) within the share of the top x% (Sx%) as $\alpha = 1/[1 - \log(Sx\%/Sy\%)/\log(10)]$. The inverted Pareto-Lorenz coefficient is $\beta = \alpha/(\alpha - 1)$ Even though the number of taxpayers is well above 10% of the control total for the population, the series for the top 10% income share is not given from 1971 to 2007, as the resulting P90 value is usually very close to (and sometimes below) the threshold under which employees are only subject to PAYE, and not included in the statistics used here (these workers are not required to file a tax return)



Table 8 Normal tax and super tax: number of tax assessments and tax assessed, South Africa 1913-1953

	Normal Tax	ax									Super Tax					
	(1) # tax assess- ments	(2) total tax	(3) # tax assessments	(4) (3)/ (1)	(5) total tax	(5)	(7) # tax assessments	£ 2 8	(9) total tax	(10)	(11) # tax assess- ments	(12) total tax	(13) # tax returns	(13)/	(15) total tax	(16) (15)/ (12)
	As of 1955	As of 1955	com- piled+12 months		com- piled+12 months		com- piled + 24 months		com- piled + 24 months		As of 1955	As of 1955	com- piled + 12 months		com- piled + 12 months	
	000	£000	000	%	000J	%	000	%	000 3	%	000	000Э	000	%	£000	%
1913	5.54	178	5.14	92.7	167.2	93.9										
1914	44.13	843	39.71	0.06	787.2	93.4										
1915	47.18	1,031	40.18	85.1	925.8	8.68					1.14	336				
1916	53.62	1,348	48.25	0.06	1,213	90.0					1.66	572				
1917	66.21	1,806	57.87	87.4	1,563	9.98					2.22	847	1.95	88.0	730	86.3
1918	79.56	1,924	71.23	89.5	1,653	85.9					2.38	400	2.03	85.4	909	85.4
1919	62.99	2,175	53.60	85.1	1,773	81.5					3.35	991	2.69	80.5	789	9.62
1920	106.65	2,132	96.45	90.4	1,913	89.7					2.52	1,080	2.23	88.7	1,009	93.4
1921	82.47	1,620	76.77	93.1	1,515	93.5					1.93	787	1.83	8.46	746	94.8
1922	81.77	1,645	78.30	95.8	1,562	95.0					2.03	785	1.95	96.5	744	94.8
1923	88.64	1,833	84.27	95.1	1,754	95.7					2.43	1,036	2.34	96.3	1,023	8.86
1924	88.79	1,924	85.73	9.96	1,859	9.96					2.65	1,146	2.55	96.4	1,166	8.101
1925	06.69	1,825	66.26	94.8	1,736	95.1					2.95	1,205	2.80	94.8	1,171	97.2
1926	71.73	1,915	67.43	94.0	1,790	93.5					3.12	1,313	2.99	0.96	1,222	93.1
1927	76.97	1,691	72.51	94.2	1,584	93.7					3.50	1,324	3.32	94.7	1,283	6.96
1928	71.14	1,593	02.99	93.8	1,479	92.8					3.49	1,456	3.36	96.2	1,359	93.4
1929	68.47	1,751	62:99	96.4	1,658	94.7					3.07	1,214	2.99	97.3	1,104	6.06
1930	85.79	1,745	82.72	96.4	1,675	0.96					2.56	868	2.51	0.86	882	98.2
1931	74.28	1,430	71.59	96.4	1,372	95.9					1.96	099	1.91	97.2	630	95.5
1932	69.81	1,516	68.05	97.5	1,469	6.96					2.15	965	2.08	2.96	925	95.8
1933	47.92	1,326	46.46	97.0	1,275	96.2					2.99	1,631	2.90	97.2	1,578	2.96
1934	99.09	1,166	48.54	95.8	1,097	94.1					3.42	1,603	3.28	95.7	1,469	91.7
1935	59.47	1,394	57.32	96.4	1,316	94.4					4.16	1,898	3.95	94.9	1,812	95.5



Table 8 (continued)

	Normal Tax	ax									Super Tax					
	(1) # tax assess- ments	(2) total tax	(3) # tax assessments	€ € €	(5) total tax	9 2 6	(7) # tax assess- ments	€ € €	(9) total tax	(10)	(11) # tax assess- ments	(12) total tax	(13) # tax returns	(13)/	(15) total tax	(16) (15)/ (12)
	As of 1955	As of 1955	com- piled+12 months		com- piled+12 months		com- piled + 24 months		com- piled+24 months		As of 1955	As of 1955	com- piled + 12 months		com- piled + 12 months	
	000	£000	000	%	000 3	%	000	%	000€	%	000	0003	000	%	£000	%
1936	69.15	1,664	65.17		1,543	92.7					4.95	2,284	4.66		2,122	92.9
1937	73.72	1,786	67.83	92.0	1,642	91.9					4.64	1,903	4.38	94.4	1,805	94.9
1938	77.55	1,604	73.12	94.3	1,465	91.3					4.58	1,849	4.28	93.3	1,705	92.2
1939	81.60	2,846	76.25	93.4	2,575	90.5					4.75	2,325	4.35	91.6	2,157	92.7
1940	158.17	9,000	135.68	85.8	4,687	78.1					9.41	5,745	7.00	74.4	4,281	74.5
1941	192.35	7,169	161.99	84.2	5,440	75.9					11.34	6,264	8.16	72.0	4,399	70.2
1942	214.77	9,324	172.59	80.4	6,683	71.7					13.60	7,332	9.01	6.99	4,899	8.99
1943	242.07	10,610	172.04	71.1	6,555	61.8					19.30	8,619	11.15	57.8	4,943	57.4
1944	269.54	11,565	156.44	58.0	6,011	52.0	254.08		10,516	90.9	20.46	8,997				
1945	317.43	15,723	178.22	56.1	7,284	46.3	291.81	91.9	9 14,098	89.7	25.29	15,242				
1946	332.16	18,377	189.47	57.0	9,101	49.5					29.58	20,528				
1947	267.50	14,012	131.98	49.3	6,024	43.0	247.23	92.4	4 12,750	91.0	33.68	17,189				
1948	314.71	17,895	159.44	50.7	7,760	43.4	281.84	9.68	5 15,572	87.0	37.52	19,701				
1949	335.31	18,078	162.40	48.4	7,666	42.4	300.69	89.7	7 15,827	87.5	37.94	19,101				
1950	393.62	25,526	191.57	48.7	10,941	42.9					48.58	28,175				
1951	505.14	23,805									53.05	21,192				
1952	570.77	27,626									58.44	19,529				
1953	544.85	26,188					544.85	100.0	0		63.21	19,096				
,	÷	. (11)		٠		-			1000		-	۱,				

Column (1) and (11) display the number of tax assessments to the Normal and Super taxes as of 1955, informed in the Report of the Commissioner for Inland Revenue 1953–1956. Columns (2) and (12) show the value of tax collected for those taxes by the same date. The table also reports the number of assessments to the Normal Tax, compiled up to 12 months (column 3) and up to 24 months (column 7) after the end of the income year, and the number of assessments to the Super tax (column 11) compiled up to 12 months after the end of the income year. The organisation of the information in the published tabulations does not allow to provide the number of assessments to the Super Tax compiled up to 24 months after the end of the income year after 1943. Columns (5), (9) and (15) give the amounts of tax collected



 Table 9
 Top shares and sensitivity to compilation period, South Africa 1944–1949

	•		,						
	Compilation period	Top 1%	Top 0.5%	Top 0.25%	Top~0.1%	$\mathrm{Top}\ 0.05\%$	Top 0.01%	% Assessments normal tax	% Total normal tax assessed
	(1)	(2)	(3)	(4)	(5)	(9)	(7)	(8)	(6)
1944	+12 months	15.90	11.31	8.07	5.10	3.60	1.58	58.04	51.98
	+24 months	21.63	15.39	10.73	6.61	4.53	1.83	94.26	90.93
1945	+12 months	16.13	11.63	8.47	5.43	3.85	1.72	56.14	46.33
	+24 months	24.31	17.93	12.91	8.13	5.66	2.30	91.93	99.68
1946	+12 months	18.24	13.38	9.81	6.36	4.51	1.93	57.04	49.53
	+36 months	27.69	20.56	14.92	9.39	6.36	2.78	98.30	98.00
1947	+12 months	16.07	11.74	8.53	5.39	3.75	1.53	49.34	42.99
	+24 months	24.68	18.10	12.99	8.11	5.53	2.11	92.42	66.06
1948	+12 months	15.73	11.22	8.01	4.97	3.39	1.34	50.66	43.36
	+24 months	23.18	16.66	11.71	7.07	4.70	1.74	89.56	87.02
	+36 months	24.70	17.70	12.41	7.46	4.94	1.82	98.25	09.76
1949	+12 months	13.87	9.75	6.91	4.25	2.89	1.15	48.43	42.40
	+24 months	20.51	14.63	10.24	6.16	4.09	1.52	89.68	87.55



lable 10 To	op income snares in so	Juli Ali ica, 1940–1945 al	Table 10 Top Income shares in South Africa, 1740–1745 and 1950. Assessments issued up to 12 months aref the end of the income year	up to 12 months after the	end of the income year	
	Top 1%	Top 0.5%	Top 0.25%	Top 0.1%	Top 0.05%	Top 0.01%
	(1)	(2)	(3)	(4)	(5)	(9)
A. Excludin	A. Excluding dividends					
1940	20.03	14.64	10.77	7.06	5.12	2.38
1941	19.44	14.12	10.21	6.56	4.67	2.07
1942	19.06	13.70	9.74	6.11	4.27	1.79
1943	17.52	12.56	8.91	5.55	3.89	1.68
B. Including dividends	; dividends					
1940				7.84	5.72	2.66
1941				7.22	5.18	2.33
1942				6.72	4.76	0.00
1943				6.05	4.29	1.90
1950	15.14	11.10	8.03	4.96	3.35	1.30



 Table 11
 Composition by race in top income groups, South Africa 1956–1987

		•	•		•)	•																	
	Top 5%	,a			Top 1%				Top 0.5%	9,		[Top 0.1%				Top 0.05%	2/2			Top 0.01%	%		
	White	Col- oured	Asian	Afri- can	White	Col- oured	Asian	Afri- can	White	Col- A	Asian	Afri- V	White C	Col- /	Asian	Afri- V	White C	Col- A	Asian	Afri- can	White	Col- oured	Asian	Afri- can
1956	98.38	0.44	1.13	0.05	98.49	60:0	1.37	0.04	98.81	0.07	1.10	0.03	99.12 (0.02	0.82	0.03	99.18	00.00	0.82	00.0	99.83	0.00	0.17	0.00
1957	98.32	0.48	1.13	0.07	98.48	0.00	1.38	90.0	98.85	0.08	1.02	0.05	99.29	0.06	0.59	0.05	99.37 (0.05 (0.49	0.09	99.92	0.00	0.08	0.00
1958	98.31	0.52	1.09	0.08	98.51	0.00	1.35	90.0	98.74	0.08	1.15	0.03	00.66	0.08	0.89	0.03	99.27	0.12	0.58	0.03	99.73	0.00	0.27	0.00
1959	98.26	09.0	1.06	0.08	98.64	0.09	1.23	0.05	98.84	0.06	1.05	0.04	03.07	0.03	0.88	0.02	99.37 (0.02	0.61	0.01	100.00	0.00	0.00	0.00
1960																								
1961	98.37	0.58	0.97	0.07	98.51	0.10	1.33	90.0	99.86	0.07	1.23 (0.04	99.38	0.02	0.57	0.03	99.65	0.03	0.35	0.00	100.00	0.00	0.00	0.00
1962																								
1963	98.22	0.53	1.15	0.10	98.36	0.11	1.44	60.0	98.50	0.08	1.34	80.0	99.13	0.07	0.74	90.0	96.36	0.09	0.50	0.05	99.60	60.0	0.26	0.04
1964	98.15	0.61	1.15	0.09	98.30	0.14	1.48	80.0	98.45	0.11	1.38 (90.0	99.19	0.05	0.70	90.0	99.51 (0.03	0.42	0.05	69.66	0.03	0.21	0.07
1965	98.24	0.58	1.09	0.08	98.33	0.15	1.43	60.0	98.53	0.12	1.27 (80.0	99.34 (0.04	0.58	0.05	99.61	0.00	0.34	0.05	99.78	0.00	0.19	0.03
1966																								
1967	98.29	0.57	1.05	0.09	98.55	0.12	1.23	0.10	98.61	0.11	1.18	0.10	99.20	90.0	0.69	0.05	99.47 (0.09	0.41	0.03	99.48	0.10	0.39	0.03
1968																								
1969	98.35	0.51	1.06	0.08	98.37	0.20	1.33	0.10	98.45	0.16	1.29	60.0	99.12 (0.08	0.75	0.04	99.28	0.06	0.65	0.01	99.28	90.0	0.65	0.01
1970																								
1971	98.27	0.63	1.10	0.00	98.34	0.21	1.45	0.00	98.28	0.21	1.50	0.00) 98.86	0.16	0.98	0.00	98.86	0.16	86.0	0.00	98.86	0.16	86.0	0.00
1972																								
1973																								
1974	97.84	0.83	1.33	na	98.10	0.21	1.69	na	98.15	0.16	1.69	na	99.17 (0.03	0.81	na	99.17 (0.03	0.81	na	99.17	0.03	0.81	na
1975	98.05	0.77	1.19	na	98.20	0.23	1.57	na	98.10	0.21	1.68	na) 96.86	90.0	0.98	na	98.96	90.0	0.98	na	96.86	90.0	86.0	na
1976																								
1977																								
1978	97.25	1.28	1.47	na	98.33	0.29	1.38	na	98.32	0.24	1.45	na	98.50 (0.24	1.26	na	98.50 (0.24	1.26	na	98.50	0.24	1.26	na
1979	97.01	1.50	1.49	na	98.30	0.29	1.41	na	98.24	0.23	1.52	na	98.55 (0.16	1.29	na	98.55 (0.16	1.29	na	98.55	0.16	1.29	na
1980	96.51	1.68	1.81	na	97.70	0.42	1.88	na	97.65	0.36	1.99	na	98.70 (0.22	1.08	na	98.78	0.19	1.03	na	98.78	0.19	1.03	na
1981	90.96	1.96	1.98	na	97.65	0.46	1.89	na	97.73	0.35	1.92	na	98.39 (0.21	1.40	na	98.39	0.21	1.40	na	98.39	0.21	1.40	na



Table 11 (continued)

	Top 5%				Top 1%				Top~0.5%	%			Top~0.1%	№			Top 0.05%	%			$\mathrm{Top}\ 0.01\%$	%		
	White	Col- oured	Asian Afri- can	Afri- can	White	Col- oured	Asian	Afri- can	White	Col- oured	Asian	Afri- can	White	Col- oured	Asian	Afri-	White	Col- oured	Asian	Afri-	White	Col- oured	Asian	Afri- can
1982	98.86	2.01	2.13	na	97.53	0.56	1.91	na	97.65	0.42	1.93	na	98.38	0.33	1.28	na	98.71	0.25	1.04	na	99.50	60.0	0.41	na
1983	95.55	2.30	2.15	na	97.73	0.51	1.76	na	97.80	0.33	1.87	na	98.33	0.21	1.45	na	86.86	90.0	0.95	na	99.53	0.00	0.47	na
1984	94.62	2.26	2.41	0.71	96.84	0.74	2.14	0.28	97.00	0.57	2.22	0.21	97.80	0.38	1.72	0.10	98.01	0.36	1.51	0.12	98.63	0.23	1.05	0.09
1985	94.43	2.37	2.40	0.80	97.04	0.75	1.88	0.33	97.37	0.47	1.93	0.23	97.93	0.37	1.57	0.14	98.04	0.29	1.54	0.13	98.33	0.14	1.19	0.34
1986	92.90	2.87	2.85	1.38	96.54	06.0	2.17	0.38	82.96	0.67	2.26	0.29	96.96	0.52	2.36	0.16	96.90	0.53	2.40	0.17	96.61	0.33	2.65	0.40
1987	90.55	3.88	3.11	2.46	96.65	1.15	1.69	0.50	97.15	0.78	1.69	0.38	97.46	0.46	1.92	0.17	97.52	0.36	1.94	0.18	98.08	0.22	1.30	0.41

The table reads as follows: in 1956, 98.37% of the top 5% income receivers were White, 0.44% were Coloured, 1.13% were Asian and 0.05% were African (the term used in the official reports is "Bantu")



Table 12 Top income shares within the white population (including dividend income), South Africa 1956–1987

Top Top <th></th>																	
(a) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (14) (15) (a) 2.59 1.743 6.66 4.77 2.69 1.43 8.53 10.77 2.39 1.58 1.26 (a) 2.55.9 1.706 6.44 4.13 2.59 1.37 8.53 10.62 2.32 1.58 1.22 (a) 2.416 1.58 5.74 3.62 2.52 1.13 8.43 1.01 2.13 1.15		Top 10%			Top 0.5%	Top 0.25%	Top 0.1%	Top 0.05%	Top 0.01%	Top 10–5%	Top 5-1%	Top 1–0.5%		Top 0.25- 0.1%	Top 0.1– 0.05%	Top 0.05- 0.01%	Top 0.01%
(a) 25.56 17.43 6.66 4.27 2.69 143 8.53 10.71 2.39 1.58 (a) 25.59 17.06 6.44 4.13 2.59 1.37 8.53 10.62 2.32 1.53 (a) 24.93 16.46 6.17 3.96 2.50 1.35 8.49 10.31 2.11 1.45 (a) 24.16 15.85 5.74 3.62 2.29 1.18 8.31 10.11 2.12 1.45 (a) 24.16 15.20 2.29 1.26 8.03 9.52 1.90 2.31 1.45 (b) 28.32 15.21 2.29 1.26 2.99 9.58 11.60 2.45 1.50 (c) 28.45 18.49 6.99 4.54 2.92 2.90 9.28 11.60 2.45 1.50 (c) 28.45 18.41 6.64 4.54 2.59 2.69 4.51 2.70 1.50 1.50 <th></th> <th>(1)</th> <th>(2)</th> <th>(3)</th> <th>4)</th> <th>(5)</th> <th>(9)</th> <th>(7)</th> <th>(8)</th> <th>(6)</th> <th>(10)</th> <th>(11)</th> <th>(12)</th> <th>(13)</th> <th>(14)</th> <th>(15)</th> <th>(16)</th>		(1)	(2)	(3)	4)	(5)	(9)	(7)	(8)	(6)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
(a) 2.5.9 17.06 6.44 4.13 2.59 137 8.53 10.62 2.32 1.53 (a) 2.4.93 16.47 6.17 3.96 2.50 1.35 8.46 10.31 2.21 1.45 (a) 2.4.16 15.85 5.74 3.62 2.52 1.18 8.43 10.11 2.12 1.45 (a) 2.4.16 15.85 3.59 2.29 1.26 8.03 9.52 1.99 1.37 1.37 (b) 2.6.77 17.72 6.73 4.37 2.81 2.80 9.54 1.50 2.36 1.37 (c) 2.8.45 18.49 6.99 4.40 2.81 1.02 9.58 11.66 2.45 1.56 (c) 2.8.45 18.41 6.64 4.52 2.69 2.69 2.69 1.26 2.70 1.56 1.56 1.56 1.56 1.56 1.56 1.56 1.56 1.56 1.56 1				99:9	4.27	2.69	1.43			8.53	10.77	2.39	1.58	1.26			
(a) 24.93 16.47 6.17 3.96 2.50 1.35 8.46 10.31 2.21 1.45 (a) 24.16 15.85 5.74 3.62 2.25 1.18 8.31 10.11 2.12 1.45 (a) 24.16 15.85 5.74 3.62 2.25 1.18 8.31 10.11 2.12 1.37 (a) 23.13 15.10 5.58 3.59 2.29 1.26 8.03 9.52 1.99 1.37 1.37 (b) 28.73 18.49 6.99 4.52 2.90 9.88 11.66 2.45 1.65 (c) 28.45 18.40 6.80 4.40 2.81 10.24 11.76 2.39 1.56 (c) 28.44 18.41 6.64 4.54				6.44	4.13	2.59	1.37			8.53	10.62	2.32	1.53	1.22			
(a) 24.16 15.85 5.74 3.62 2.25 1.18 8.31 10.11 2.12 1.37 (a) 23.13 15.10 5.58 3.59 2.29 1.26 8.03 9.52 1.99 1.30 (b) 28.03 18.49 6.99 4.52 2.90 9.54 11.50 2.46 1.56 (c) 28.45 18.46 6.89 4.54 2.92 9.88 11.66 2.45 1.63 (c) 28.45 18.46 6.80 4.40 2.81 10.24 11.76 2.45 1.62 (c) 28.45 18.46 6.80 4.40 2.81 2.69 1.024 11.76 2.45 1.62 (d) 28.64 18.41 6.64 4.55 2.69 1.25 1.25 2.70 1.26 (e) 29.46 19.15 6.91 4.11 4.11 4.11 1.24 2.25 (e) 28.64 18.15 <td></td> <td></td> <td></td> <td>6.17</td> <td>3.96</td> <td>2.50</td> <td>1.35</td> <td></td> <td></td> <td>8.46</td> <td>10.31</td> <td>2.21</td> <td>1.45</td> <td>1.15</td> <td></td> <td></td> <td></td>				6.17	3.96	2.50	1.35			8.46	10.31	2.21	1.45	1.15			
(a) 23.13 15.10 5.58 3.59 2.29 1.26 8.03 9.52 1.99 1.30 (b) 26.77 17.72 6.73 4.37 2.81 9.05 10.99 2.36 1.56 (c) 28.63 18.49 6.99 4.52 2.90 9.88 11.66 2.46 1.63 (c) 28.45 18.64 6.98 4.54 2.92 9.88 11.66 2.46 1.63 (c) 28.45 18.46 6.80 4.40 2.81 10.24 11.76 2.39 1.56 (c) 28.45 18.46 6.84 4.25 2.69 10.24 11.76 2.39 1.56 (c) 28.64 18.15 6.90 4.41 4.17 4.17 4.17 4.18 4.18 4.18 4.19 4.19 4.19 4.19 4.19 4.19 4.19 4.19 4.19 4.19 4.19 4.19 4.19 4.19 4.2				5.74	3.62	2.25	1.18			8.31	10.11	2.12	1.37	1.07			
(a) 23.13 15.10 5.58 3.59 1.26 8.03 9.52 1.99 1.30 (b) 26.77 17.72 6.73 4.37 2.81 9.65 11.50 2.46 1.50 (c) 28.45 18.49 6.99 4.52 2.90 9.88 11.66 2.45 1.63 (c) 28.45 18.40 6.89 4.54 2.92 9.88 11.66 2.45 1.63 (c) 28.45 18.40 6.89 4.40 2.81 10.24 11.76 2.45 1.63 (c) 28.64 18.41 6.64 4.52 2.69 10.24 11.76 2.39 1.56 (c) 29.46 19.74 4.17 4.17 4.17 4.17 4.17 4.17 4.17 4.17 4.17 4.17 4.11 4.12 4.12 4.12 4.12 4.12 4.12 4.12 4.12 4.12 4.12 4.12 4.12 4.1	0961																
(b) 26.77 17.72 6.73 4.37 2.81 9.05 10.99 2.36 (b) 28.03 18.49 6.99 4.52 2.90 9.54 11.50 2.46 (c) 28.52 18.64 6.98 4.54 2.92 9.88 11.66 2.45 (c) 28.54 18.46 6.80 4.40 2.81 10.24 11.76 2.39 1 (c) 28.64 18.41 6.64 4.25 2.69 10.24 11.76 2.39 1 (c) 29.06 19.74 4.74 4.74 4.74 4.17 10.62 12.57 2.57 (c) 29.46 19.15 6.90 4.41 4.17 10.49 11.94 2.32 27.77 17.31 5.66 3.49 2.94 9.73 10.62 1.91 25.20 15.47 4.85 2.93 9.73 10.62 1.91				5.58	3.59	2.29	1.26			8.03	9.52	1.99	1.30	1.03			
(b) 26.77 17.72 6.73 4.37 2.81 9.05 10.99 2.36 (b) 28.03 18.49 6.99 4.52 2.90 9.54 11.50 2.46 (c) 28.45 18.46 6.98 4.54 2.92 9.88 11.66 2.45 (c) 28.45 18.46 6.80 4.40 2.81 10.24 11.76 2.39 11.76 2.39 (c) 28.64 18.41 6.74 4.17 4.17 10.62 12.57 2.77 (c) 29.46 19.15 6.20 4.41 4.17 4.17 4.17 4.18 4.19 4.29 4.29 4.29 4.29 4.29 4.29 4.29 4.29	1962																
(b) 28.03 18.49 6.99 4.52 2.90 9.54 11.50 2.46 (c) 28.52 18.64 6.98 4.54 2.92 9.88 11.66 2.45 (c) 28.45 18.46 6.80 4.40 2.81 9.88 11.66 2.45 (c) 28.64 18.41 6.64 4.25 2.69 10.24 11.76 2.39 (c) 29.93 19.74 4.17 4.17 4.17 10.62 12.57 2.57 (c) 29.46 19.15 6.21 3.89 4.41 10.49 11.94 2.32 27.77 17.31 5.66 3.49 10.49 11.94 2.32 25.02 15.47 4.85 2.93 9.73 10.62 1.91				6.73	4.37	2.81				9.05	10.99	2.36	1.56				
(b) 28.52 18.64 6.98 4.54 2.92 9.88 11.66 2.45 (c) 28.45 18.46 6.80 4.40 2.81 10.24 11.76 2.39 (c) 28.64 18.41 6.64 4.25 2.69 10.24 11.76 2.39 (c) 29.93 19.74 4.17 4.17 4.17 10.62 12.57 2.57 (c) 29.46 19.15 6.21 3.89 4.41 10.49 11.94 2.32 (c) 28.64 18.15 6.21 3.89 2.94 10.49 11.94 2.32 27.77 17.31 5.66 3.49 2.52 10.49 11.54 2.32 25.02 15.40 4.85 2.93 2.93 9.73 10.62 1.91				66.9	4.52	2.90				9.54	11.50	2.46	1.63				
(c) 28.45 18.46 6.80 4.40 2.81 10.24 11.76 2.39 (c) 28.64 18.41 6.64 4.25 2.69 10.24 11.76 2.39 (c) 30.06 19.74 7.24 4.54 2.60 2.70 2.70 2.70 2.70 (c) 29.46 19.15 6.90 4.41 2.71 10.49 11.94 2.24 (c) 28.64 18.15 6.21 3.89 10.49 11.94 2.32 27.77 17.31 5.66 3.49 2.94 2.94 1.94 2.32 25.02 15.47 4.85 2.94 2.93 9.73 10.62 1.91				86.9	4.54	2.92				88.6	11.66	2.45	1.62				
(c) 28.64 18.41 6.64 4.25 2.69 10.24 11.76 2.39 (c) 30.06 19.74 7.24 4.54 4.54 10.32 12.50 2.70 (c) 29.93 19.31 6.74 4.17 10.62 12.57 2.57 (c) 29.46 19.15 6.90 4.41 10.31 12.25 2.49 (c) 28.64 18.15 6.21 3.89 10.49 11.94 2.32 27.77 17.31 5.66 3.49 2.94 2.94 10.62 1.91 2.32 (c) 25.02 15.47 4.85 2.93 9.73 10.62 1.91				08.9	4.40	2.81											
(c) 30.06 19.74 7.24 4.54 10.32 12.50 (d) 29.93 19.31 6.74 4.17 10.62 12.57 (e) 29.46 19.15 6.90 4.41 10.31 12.25 (f) 28.64 18.15 6.21 3.89 10.49 11.94 27.77 17.31 5.66 3.49 11.94 (c) 25.20 15.47 4.85 2.93 9.73 10.62				6.64	4.25	5.69				10.24	11.76	2.39	1.56				
(c) 30.06 19.74 7.24 4.54 10.32 12.50 (d) 29.93 19.31 6.74 4.17 10.62 12.57 (e) 29.46 19.15 6.20 4.41 10.39 10.49 11.94 (e) 28.64 18.15 6.21 3.89 10.49 11.94 (f) 25.02 15.40 4.86 2.94 9.73 10.62	896																
(c) 29.93 19.31 6.74 4.17 10.62 12.57 (c) 29.46 19.15 6.90 4.41 10.31 12.25 (c) 28.64 18.15 6.21 3.89 10.49 11.94 27.77 17.31 5.66 3.49 11.94 25.02 15.40 4.86 2.94 (c) 25.20 15.47 4.85 2.93 9.73 10.62				7.24	4.54					10.32	12.50	2.70					
(c) 29.93 19.31 6.74 4.17 10.62 12.57 (c) 29.46 19.15 6.90 4.41 10.31 12.25 (c) 28.64 18.15 6.21 3.89 10.49 11.94 27.77 17.31 5.66 3.49 11.94 25.02 15.40 4.86 2.94 9.73 10.62	970																
(c) 29.46 19.15 6.90 4.41 10.31 12.25 (c) 28.64 18.15 6.21 3.89 10.49 11.94 27.77 17.31 5.66 3.49 (c) 25.02 15.40 4.86 2.94 (c) 25.20 15.47 4.85 2.93 9.73 10.62				6.74	4.17					10.62	12.57	2.57					
(c) 29.46 19.15 6.90 4.41 10.31 12.25 (d) 28.64 18.15 6.21 3.89 10.49 11.94 27.77 17.31 5.66 3.49 25.02 15.40 4.86 2.94 (e) 25.20 15.47 4.85 2.93 9.73 10.62	972																
(c) 28.64 19.15 6.90 4.41 10.31 12.25 (c) 28.64 18.15 6.21 3.89 10.49 11.94 11.94 27.77 17.31 5.66 3.49 11.94 (c) 25.20 15.47 4.85 2.93 9.73 10.62	973																
(c) 28.64 18.15 6.21 3.89 10.49 11.94 27.77 17.31 5.66 3.49 (c) 25.20 15.40 4.86 2.93 9.73 10.62				06.9	4.41					10.31	12.25	2.49					
27.77 17.31 5.66 3.49 25.02 15.40 4.86 2.94 (c) 25.20 15.47 4.85 2.93 9.73 10.62				6.21	3.89					10.49	11.94	2.32					
(c) 25.02 15.40 4.86 2.94 9.73 10.62	916	27.7		5.66	3.49												
(c) 25.20 15.47 4.85 2.93 9.73 10.62	217	25.C		4.86	2.94												
				4.85	2.93					9.73	10.62	1.91					



Table 12 (continued)

	Top	Top 5%	Top 1%		Top	Top	Top	Top	Top	Top	Top	Top	Top	Top	Top	Top
	10%	10%	1	0.5%	0.25%	0.1%	0.05%	0.01%	10–5%	5-1%	1-0.5%	0.5- $0.25%$	0.25-0.1%	0.1-0.05%	0.05 - 0.01%	0.01%
	(1)	$(1) \qquad (2) \qquad (3)$	(3)	(4)	(5)	(9)	(7)	(8)	(6)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
(c) 626	23.84	14.71	4.72						9.13	66.6						
(c) 086	24.80	15.80	5.60	3.60					9.01	10.19	2.00					
981 (c)	25.85	16.38	5.88	3.85					9.47	10.50	2.04					
982 (c)	26.71	17.14	6.49	4.40	3.01	1.86	1.31		9.57	10.65	2.09	1.39	1.15	0.55		
983 (c)	23.04	14.54	5.25	3.51	2.38	1.44	1.00		8.50	9.29	1.74	1.13	0.94	0.44		
984 (c)	24.79	15.91	6.02	4.05	2.74	1.64	1.12		8.88	9.90	1.96	1.32	1.10	0.52		
985 (c)	22.38	14.18	5.13	3.40	2.26	1.33	0.89		8.21	9.05	1.73	1.13	0.94	0.44		
(c) 986	22.59	14.40	5.23	3.4	2.26	1.30	0.85		8.20	9.17	1.79	1.18	96.0	0.44		
(c) 284	19.57	12.23	4.16	2.67	1.73	0.98	0.64		7.34	8.07	1.49	0.94	0.75	0.34		

As tax statistics do not provide a decomposition of tax assessments by ethnic origin between 1913 and 1955, this table assumes that all taxpayers were white in those years. For 1956–1987, as only the number of taxpayers is decomposed by ethnic origin, estimates are base on Pareto interpolations

(a) Estimates are based on Pareto interpolations on the number of tax assessments only, compiled up to 12 months after the end of the tax year

(b) Estimates are based on Pareto interpolations on the number of tax assessments only, compiled up to 24 months after the end of the tax year

(c) Estimates are based on Pareto interpolations on the number of tax assessments only. Exact compilation period unknown. Given the publication dates of SAS, it is pressumed that they correspond to assessments compiled at least 24 months after the end of the income year



 Table 13
 Income composition in top income groups, South Africa 1954–1961

5		(J. 6)		•					ı											
	Top 5%				Top 1%				Top 0.5%				Top 0.1%				Top 0.05%	%		
	Busi- ness and Ser- vices Income	Employ- ment Income	Farm Income	Capital	Business and Services Income	Employ- ment Income	Farm	Capital	Busi- ness and Ser- vices Income	Employ- ment Income	Farm Income	Capital Income	Business and Services Income	Employ- ment Income	Farm Income	Capital	Business and Services Income	Employ- ment Income	Farm	Capital
1954	14.8	66.5	6.2	12.5	25.0	43.4	9.5	22.1	27.7	35.4	10.4	26.4	26.8	26.9	10.1	36.2	24.4	25.1	9.6	41.0
1955	14.8	64.4	7.9	12.8	24.8	41.0	11.5	22.7	26.5	34.3	12.4	26.8	25.6	26.9	10.9	36.7	23.5	25.2	6.6	41.3
1956	13.5	62.9	9.8	12.0	23.4	40.7	14.3	21.6	25.0	33.8	15.9	25.3	24.8	24.2	17.3	33.7	23.7	21.1	17.6	37.6
1957	13.3	67.5	6.9	12.3	22.2	4.4	10.8	22.6	23.8	37.5	11.7	26.9	23.1	28.8	11.4	36.7	20.7	27.0	9.01	41.8
1958	11.5	71.6	4.7	12.3	20.3	49.4	7.3	22.9	22.3	42.4	8.0	27.3	21.6	31.1	8.4	39.0	19.4	28.5	7.3	44.7
1959	11.3	71.9	5.3	11.6	19.8	50.9	8.2	21.1	22.3	43.5	0.6	25.2	22.6	32.6	9.4	35.5	21.5	29.5	0.6	40.0
1960																				
1961	7.6	72.8	0.9	11.5	17.8	51.9	7.6	20.6	20.6	43.0	11.0	25.4	20.3	32.6	11.6	35.6	18.7	30.2	10.9	40.3
	Top 5-1%	%			Top 1-0.5%	2%			Top 0.5-0.1%	0.1%			Top 0.1-0.05%	0.05%			Top 0.05%	%		
	Busi- ness and Ser- vices Income	Employ- ment Income	Farm Income	Capital	Business and Services Income	Employ- ment Income	Farm Income	Capital	Busi- ness and Ser- vices Income	Employ- ment Income	Farm Income	Capital Income	Busi- ness and Ser- vices Income	Employ- ment Income	Farm Income	Capital	Busi- ness and Ser- vices Income	Employ- ment Income	Farm	Capital
1954	8.1	81.6	4.1	6.2	19.4	59.7	7.6	13.3	28.3	40.3	10.6	20.8	30.9	30.1	11.1	27.9	24.4	25.1	9.6	41.0
1955	8.1	80.3	5.5	6.1	21.2	54.7	6.7	14.4	27.0	38.6	13.3	21.1	29.0	29.8	12.5	28.7	23.5	25.2	6.6	41.3
1956	7.0	82.2	5.0	5.8	20.2	54.3	11.1	14.4	25.2	39.4	15.1	20.4	26.6	29.5	16.9	27.0	23.7	21.1	17.6	37.6
1957	7.7	81.9	4.5	5.9	18.9	57.7	9.1	14.2	24.3	42.5	11.9	21.4	27.2	31.8	12.8	28.1	20.7	27.0	10.6	41.8
1958	6.2	84.7	3.1	0.9	16.7	62.5	0.9	14.8	22.7	48.8	7.8	20.7	25.3	35.6	10.2	28.9	19.4	28.5	7.3	44.7
1959	6.1	84.5	3.5	5.9	15.3	8.49	9.9	13.3	22.1	49.5	8.8	19.5	24.6	37.9	6.6	27.6	21.5	29.5	0.6	40.0
1960	4		,	4	;	;	,	;		4	1	,	;		;	;	1	;	,	9
1961	8.	85.3	3.9	0.9	12.6	68.5	7.2	11.7	20.8	48.9	10.7	9.61	22.9	36.6	12.8	27.7	18.7	30.2	10.9	40.3



Table 13 (continued)

Fractiles defined by size of total income. For each fractile, the first four columns (summing to 100%) give the percentage of business income and income from services and professions, employment income (wages and salaries), farming income and capital income (dividends, interest, rents and other investment income) in total income

Details on methodology are presented in "Appendix"

Source: Computations based on tax return statistics



Table 14 Top income shares within shares, Cape of Good Hope 1903–1907

Top 1% w	Top 1% within Top 0.5% within	within Top 0.1% within	Top 0.25% within	Top 0.05% within	Top 0.01% within	Top 0.01% within	Pareto-Lorenz	Pareto-Lorenz Inverted Pareto- Lorenz
Top 5%	Top 1%	Top 1%	$\mathrm{Top}\ 0.5\%$	$\mathrm{Top}\ 0.1\%$	Top~0.05%	$\mathrm{Top}\ 0.1\%$	Coefficient	Coefficient
(1)	(2)	(3)	(4)	(5)	(9)	(7)	(8)	(6)
A. Whole population	ion							
1903				0.69	0.39	0.27	2.35	1.74
1904				0.69	0.39	0.27	2.34	1.74
1905				0.70	0.42	0.29	2.17	1.85
9061				89.0	0.38	0.26	2.43	1.70
1907 0.44	0.70	0.28	89.0	0.65	0.33	0.21	3.08	1.48
B. White population	ion							
1903			69.0	99.0	0.37	0.24	2.61	1.62
1904			69.0	99.0	0.37	0.24	2.61	1.62
1905			0.70	89.0	0.41	0.28	2.22	1.82
1906			89.0	99.0	0.34	0.23	2.82	1.55
1907 0.42	99.0	0.23	0.65	0.61			2.89	1.53



Open Access This article is licensed under a Creative Commons Attribution 4.0 International License, which permits use, sharing, adaptation, distribution and reproduction in any medium or format, as long as you give appropriate credit to the original author(s) and the source, provide a link to the Creative Commons licence, and indicate if changes were made. The images or other third party material in this article are included in the article's Creative Commons licence, unless indicated otherwise in a credit line to the material. If material is not included in the article's Creative Commons licence and your intended use is not permitted by statutory regulation or exceeds the permitted use, you will need to obtain permission directly from the copyright holder. To view a copy of this licence, visit http://creativecommons.org/licenses/by/4.0/.

References

- Alvaredo F, Bergeron A, Cassan A (2017) Income Concentration in British India, 1885–1946. J Dev Econ 127:459–469
- Alvaredo F, Atkinson AB (2010) Colonial rule, apartheid and natural resources: top incomes in South Africa 1903–2007; CEPR DP 8155
- Alvaredo F, Atkinson AB, Piketty T, Saez E (2011–2015) The world top incomes database. Published on line between 2011 and 2015
- Atkinson AB (2005) Top incomes in the UK over the twentieth century. J R Stat Soc 168:325-343
- Atkinson AB, Leigh A (2008) Top incomes in New Zealand 1921–2005: understanding the effects of marginal tax rates, migration threat, and the macroeconomy. Rev Income Wealth 54(2):149–165
- Atkinson AB, Piketty T (2007) Top incomes over the twentieth century. Oxford University Press, Oxford
- Atkinson AB, Piketty T (2010) Top incomes: a global perspective. Oxford University Press, Oxford
- Atkinson AB (2015) Top incomes in central africa: historical evidence. WID.world WP 4/2015
- Atkinson AB (2007) The distribution of top incomes in the United Kingdom 1908–2000. In: Atkinson AB, Piketty T (eds) Chapter 4
- Atkinson AB, Leigh A (2007) The distribution of top incomes in Australia. In: Atkinson AB, Piketty T (eds) Chapter 7
- Atkinson AB, Leigh A (2007b) The distribution of top incomes in New Zealand. In: Atkinson AB, Piketty T (eds), Chapter 8
- Banerjee A, Piketty T (2010) Top Indian incomes 1922–2000. In: Atkinson AB, Piketty T (eds) Top incomes: a global perspective, Oxford University Press, chapter 1
- van der Berg S (2011) Current poverty and income distribution in the context of South African history. Econ Hist Dev Reg 26(1):120–140
- van der Berg S, Louw M (2004) Changing patterns of south african income distribution: towards time series estimates of distribution and poverty. South African J Econ 72(3):546–572
- Boshoff WH, Fourie J (2020) The South African economy in the twentieth century. In: Boshoff W (ed) Business cycles and structural change in south africa: advances in african economic, social and political development. Springer, Cham, pp 49–70
- Bureau of Census and Statistics (1954) The net national income of the Union of South Africa, 1952–53. South African J Econ 22(3):353–364
- Bureau of Census and Statistics (1956) National income of the Union of South Africa, 1954–55. South African J Econ 24(2):152–157
- Chatterjee A, Czajka L, Gethin A (2020) Estimating the distribution of household wealth in South Africa. WID.world WP 2020/06
- de Graaff J (1946) Fluctuations in income concentration, with special reference to changes in the concentration of supertaxable incomes in South Africa: July, 1915-June, 1943. South African J Econ 14(1):22–39
- de Kock MH (1924) An analysis of the finances of the union of South Africa. Juta & Co. LTD., Cape Town and Johannesburg
- Dollery B (2003) A history of inequality in South Africa, 1652–2002. South African J Econ 71(3):595–610
- Fedderke J, Simkins C (2012) Economic growth in South Africa. Econ Hist Dev Reg 27(1):176-208
- Feinstein CH (2005) An economic history of South Africa, conquest, discrimination and development. Cambridge University Press, Cambridge



Finn A, Leibbrandt M, Woolard I (2013) What happened to multidimensional poverty in South Africa between 1993 and 2010? Working Paper 99, Southern African Labour and Development Research Unit

Frankel SH (1941) Consumption, investment and war expenditure in relation to the South African national income. South African J Econ 9(4):445–448

Frankel SH (1943) Consumption, investment and war expenditure in relation to the South African national income. South African J Econ 11(1):75–77

Frankel SH, Herzfeld H (1943) European income distribution in the Union of South Africa and the effect thereon of income taxation. South African J Econ 11(2):121–136

Frankel SH, Neumark SD (1940) Note on the national income of the Union of South Africa, 1927/28, 1932/33, 1934/35. South African J Econ 8(1):78–81

Frankel SH (1944) An analysis of the growth of the national income of the Union in the period of prosperity before the War. South African J Econ 112–138

Franzsen DG (1954) National accounts and national income in the Union of South Africa since 1933. South African J Econ 22(1):115–126

Franzsen Commission (1968) Taxation in South Africa: First Report of the Commission of Enquiry into Fiscal and Monetary Policy in South Africa, Government Printer, Pretoria

Hellmann E (ed) (1949) Handbook on race relations in South Africa. Oxford University Press, Cape Town

Katz Commission (1995) Third Interim Report of the Commission of Inquiry into Certain Aspects of the Tax Structure of South Africa, The Government Printer, Pretoria

Katzen L (1964) Gold and the South African economy, A. A. Balkema, Cape Town

Klasen S (1997) Poverty, inequality and deprivation in South Africa: an analysis of the 1993 SALDRU survey. Soc Indic Res 41(1–3):51–94

Klasen S (2005) Measuring poverty and deprivation in South Africa. Rev Income Wealth 46(1):33-58

Kuznets S (1953) Shares of Upper income groups in income and savings. National Bureau of Economic Research, New York

Lehfeldt RA (1922) The National Resources of South Africa. University of the Witwatersrand Press, Johannesburg, and Longmans Green & Co., London

Leibbrandt M, Woolard I, Woolard C (2009) A long-run perspective on contemporary poverty and inequality dynamics. In: Aron J, Kahn B, Kingdon G (eds) South Africa economic policy under democracy, vol 10. Oxford University Press, Oxford

Leibbrandt M, Woolard I, Finn A, Argent J (2010) Trends in South African Income Distribution and Poverty since the Fall of Apartheid, OECD Social, Employment and Migration Working Papers n. 101

Leslie R (1935) The effect of the abandonment of the gold standard on the distribution of incomes in South Africa. South Africa J Econ 3(2):279–280

Leslie R (1936) The change in the distribution of incomes in south africa after the abandonment of the gold standard. South African J Econ 4(1):122

Leslie R (1937) Distribution of incomes in South Africa. South African J Econ 5(1):95

Margo Commission (1987) Report of the Commission of Inquiry into the Tax Structure of the Republic of South Africa, 20 November 1986, The Government Printer, RP34

McGrath MD, Whiteford A (1994) The distribution of income in South Africa, Human Science Research Council, Pretoria

McGrath MD (1983) The distribution of personal income in South Africa in selected years over the period from 1945 to 1980, Ph D thesis, University of Natal, Durban

National Treasury and South African Revenue Service (2009) 2008 Tax Statistics, Department of National Treasury, Pretoria

Nattrass N, Seekings J (1997) Citizenship and Welfare in South Africa: deracialisation and Inequality in a Labour-Surplus Economy. Can J African Stud 31(3):452–481

Nattrass N, Seekings J (2011) The Economy and poverty in the twentieth century. In: Ross R, Mager A, Nasson B (eds) The cambridge history of south Africa. Cambridge University Press, Cambridge, pp 518–572

Orkin FM, Lehohla PJ, Kahimbaara JA (1998) Social transformation and the relationship between users and producers of official statistics: the case of the 1996 population census in South Africa. Stat J United Nations 15(3–4):265–279

Read CL (1933) Presidential address: the union native and the witwatersrand gold mines. South African J Econ 1(4):397–404



Report of the Commissioner of Taxes for the Year (1904–5) G.32, Cape Times Limited, Government Printer, Cape Town

Saez E, Veall M (2007) The evolution of high incomes in Canada, 1920–2000. In: Atkinson A, Piketty T (eds) Chapter 6

Samuels LH (ed) (1963) African studies in income and wealth. Bowes and Bowes, Cambridge

Samuels LH (1963) The uses and limitations of national economic accounting, with special reference to South Africa. In: Samuels LH (ed), pp 162–181

Sonnabend H (1949) Population. In: Hellmann E (ed), Chapter 2

South African Reserve Bank (2005) South Africa's National Accounts 1946–2004. An Overview of Sources and Methods, Supplement to the South African Reserve Bank Quarterly Bulletin, June

South African Revenue Service (2009) Comprehensive guide to capital gains tax (issue 2)

Stadler JJ (1963) The gross domestic product of South Africa 1911–1959. South African J Econ 31(3):185–208

Terreblanche S (2002) A history of inequality in South Africa, 1652–2002. University of Natal Press, Pietermaritzburg

United Nations (1994) The sex and age distribution of the world populations. United Nations Population Division. New York

Wilson F (2011) Historical Roots of Inequality in South Africa. Econ Hist Dev Reg 26(1):1-15

Publisher's Note Springer Nature remains neutral with regard to jurisdictional claims in published maps and institutional affiliations.

Authors and Affiliations

Facundo Alvaredo 1,2,3 · A. B. Atkinson 2,4,5

- Paris School of Economics, Paris, France
- 2 INET at Oxford, Oxford, UK
- 3 IIEP-UBA-Conicet, Buenos Aires, Argentina
- London School of Economics, London, UK
- Nuffield College, Oxford, UK

