

# South Africa - Post Apartheid Labour Market Series 1993-2019

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# Overview

## Identification

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### ID NUMBER

ZAF\_1993-2019\_PALMS\_v01\_M

## Version

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### VERSION DESCRIPTION

v3.3: Edited, anonymised dataset for public distribution

### PRODUCTION DATE

2019-09-02

### NOTES

The current version of the Post Apartheid Labour Market Series (PALMS) is version 3.3 covering 1993-2019. Data from Statistics SA's Quarterly Labour Force Surveys 2018 and 2019 have been added to the data in this dataset. This version also contains the new the new calibrated weights for the data produced on the 4th of March 2020. This is a temporary solution to provision of the weights, which will be incorporated into PALMS version 3.4 currently being prepared by DataFirst.

Earlier versions of this dataset were:

Version 1.0.1:

The following derived variables were added to this version of the dataset:

enrollment3, enrolled: enrolment variables

hrslstwk: Hours worked in last week

employer1, businesstype1, businesstype2: questions about wage/self employment. More detailed in LFSs.

publicemp: a dummy for whether the individual is employed in the public sector

Changes in versions 1.0.2 and 1.0.3 were not recorded.

Version 1.0.4

The following derived variables were added to this version of the dataset:

Improved psu LFS 03:1 variable.

personnum in OHSs and LFSs to allow easier merging, on advice from Nicola Branson.

Extra EA/PSU variables in some years where these were missing.

numlabels, were also added, where these were missing.

Version 1.0.5

The following derived variables were added to this version of the dataset:

EA/PSU variables for both 2000 waves, both 2006 waves and both 2007 waves. EA variables may not always be consistent ACROSS waves but are correct WITHIN waves to allow for checks on the number of hh per ea, which look right in ALL LFS waves now.

Version 1.0.6.

In this version the 1994 income data from the OHS 1994 has been corrected, and the 1994 data no longer has the imputations and fixes from Statistics South Africa.

The OHS 1994 wage employment income is included as wageempincome2 and wageempincome3 (different for gross and net responses).

#### Version 1.0.7

This version has label changes (data signature is the same as version 1.0.6)

#### Version 1.0.8

In this version the variable uqnr\_orig has been added, which is a string version of the household id variable exactly as it appeared in each survey. This will assist those researchers who wish to merge in extra data from the OHSs or LFSs.

#### Version 1.0.9, October 2012

The following variables have been added to this version of the data:

- (i) The LFS variable for hours worked in last week
- (ii) An homogenised EA variable
- (iii) A variable indicating formality of firm an individual owns or works for
- (iv) Variables for number of workers for self-employed (worker numbers for OHS only): selfformalreg selfvatreg selfpaidemp selfunpaidemp wageformalreg formalreg

In this version the OHS 1997 industry variable has been corrected to include industry of the self-employed.

#### Version 2.0, August 2013

- (i) Included the QLFS up until March 2012 (inclusive)
- (ii) Reworked approach to labour income variable creation (see documentation for more information)

#### Version 2.1, September 2013 (modified September 2015)

- (i) Included a separate datafile with multiple imputations for labour income. This datafile is called "palmsv2.1miincomes" and can be used for analysis of trends in labour income over time. Details of the imputation process can be found in the document titled, "Multiply Imputed Labour Income Data,

#### PALMS v2.1 (1994-2012)"

- (ii) Also included with this version of the PALMS are the cross-entropy weights

Not all the files in this dataset are version 2.1. DataFirst versions at file level, so only the files which have been updated will be re-versioned in a new release. This prevents users having to download the files which have not been changed.

Some of the data files in this version of the dataset - the ones that remain unchanged - will therefore still be version 2. The dataset will receive the version number of the latest versioned file.

The PALMS 1994-2012 version 2.1 dataset consists of the following files:

The data files (unchanged version 2 files)

The cross-entropy weights (unchanged version 1.2 files)

The incomes data (unchanged version 2)

The imputed incomes data version 2.1

Version 3.1 includes data from the QLFS 2013-2015 and data from the 1993 survey "Project for Statistics on Living Standards and Development", conducted by SALDRU at UCT.

Version 3.2 had data from the QLFS 2016-2017 added to version 3.1

## Overview

### ABSTRACT

The Post-Apartheid Labour Market Series (PALMS) version 3.3 is a stacked cross sectional dataset created by DataFirst at the University of Cape Town. The data consists of microdata from 69 household surveys conducted by Statistics South Africa between 1994 and 2019, as well as the 1993 Project for Statistics on Living Standards and Development conducted by SALDRU at UCT. The Statistics South Africa surveys include the October Household Surveys from 1994 to 1999, the bi-annual Labour Force Surveys from 2000-2007, including the smaller LFS pilot survey from February 2000, and the Quarterly Labour Force Surveys from 2008-2019. The data is at individual level, but household level variables may be created using the household id variable uqnr. No attempt has been made to link individuals or households across waves, although there was a panel element to the earlier rounds of the LFS, as well as the QLFS.

### KIND OF DATA

Sample survey data [ssd]

### UNITS OF ANALYSIS

Households and individuals

## Scope

### NOTES

There are currently over 120 variables in the dataset and over 5.7 million observations, including concerning children and the elderly. The variables included are mainly those to do with the labour market, although some household variables, such as dwelling type and access to services, as well as access to government social grants, are also included.

### KEYWORDS

Employment, Income, Labour market, Social grants

## Coverage

### GEOGRAPHIC COVERAGE

National coverage

### GEOGRAPHIC UNIT

The lowest level of geographic aggregation in PALMS is province.

### UNIVERSE

The target population is all households. Coverage of workers' hostels, convents/monasteries, as well as institutions such as old age homes, hospitals, prisons and military barracks varied across the surveys. Data users will need to consult the individual OHS, LFS and QLFS datasets for information on the universe for each survey.

## Producers and Sponsors

### PRIMARY INVESTIGATOR(S)

Name	Affiliation
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Andrew Kerr	DataFirst, University of Cape Town
David Lam	University of Michigan
Martin Wittenberg	DataFirst, University of Cape Town

## OTHER ACKNOWLEDGEMENTS

Name	Affiliation	Role
Statistics South Africa		Producer of original datasets used to create the PALMS dataset

## Metadata Production

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## METADATA PRODUCED BY

Name	Abbreviation	Affiliation	Role
DataFirst		University of Cape Town	Metadata Producer

## DATE OF METADATA PRODUCTION

2020-05-03

## DDI DOCUMENT VERSION

Version 01: This survey metadata is identical to the same survey metadata (zaf-datafirst-palms-1993-2019-v3.3) available in the DataFirst website except Document ID and Study ID.

## DDI DOCUMENT ID

DDI\_ZAF\_1993-2019\_PALMS\_v01\_M

## Sampling

## Weighting

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PALMS v3+ includes several weight variables: the person weights released by Statistics South Africa/SALDRU, cross entropy weights created by Nicola Branson from SALDRU at the University of Cape Town, and a cross entropy weights created by Takwanisa Machemedze at DataFirst, UCT, who uses Branson's method but the 2008 model for the South African population from the Actuarial Society of South Africa (ASSA). Branson used the ASSA 2003 model. Cross entropy weights are included and are the weighting variables preferred by DataFirst because the Stats SA weights presented in the data are problematic for analyses over time, for two main reasons. First, the auxiliary data used as a benchmark in the post-stratification adjustment are unreliable and inconsistent over time and hence result in temporal inconsistencies even at the aggregate level. Second, since the adjustments were made at the person level until 2003, there is no hierarchical consistency between the person and household weighted series until 2003. Thus estimates at the household and person level may disagree. Branson's weights, created using entropy estimation, result in consistent demographic and geographic trends and can be used at both the person and household level. Machemedze's weights should be used as these update Branson's method using the newest ASSA model. For further details on the cross entropy approach see Branson and Wittenberg (2014).

Version 3.3. of PALMS includes a Stata data file with new weights for the data - "palms\_v1\_cewgt\_care\_model\_20200304" which will eventually be added to version 3.4 of PALMS.

The weights are calibrated to mid-year population estimates from the CARE model discussed in Dorrington, Machemedze and Kerr 2020. The CARE model population estimates are an improvement to the previously used ASSA model estimates as the new model is based on updated assumptions and is consistent with recent data. The CARE model population estimates are also available for an extended period of time (1991-2022) compared to mid-year population estimates from Statistics South Africa (2002-2019).

## Questionnaires

No content available

## Data Collection

### Data Collection Dates

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Start	End	Cycle
1993	2019	N/A

### Data Collection Mode

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Face-to-face [f2f]



## Data Processing

No content available

## Data Appraisal

No content available

## File Description

## Variable List

**palmsv3.3-stata11**

## Content

Cases 6022548

Variable(s) 86

Structure Type:  
Keys: ()

Version

Producer

Missing Data

**Variables**

ID	NAME	LABEL	TYPE	FORMAT	QUESTION
V1	uqnr	household id variable, as in original data	discrete	character	
V2	personnr	Person number	contin	numeric	
V3	year	Survey year	contin	numeric	
V4	wave	Survey wave, PSLSD 1993=0, OHS 1994=1, QLFS Dec 2015=54	discrete	numeric	
V5	ea	Primary Sampling Unit number	contin	numeric	
V6	stratum	stratum var to be used for svyset in Stata- group of stratum and wave	contin	numeric	
V7	province	Province	discrete	numeric	
V8	pweight	Original Stats SA/PSLSD person weight	contin	numeric	
V9	ceweight1	Cross Entropy weight: SSA 2019 midyear estimates	contin	numeric	
V10	hweight	Stats SA household weight	contin	numeric	
V11	urbrur	Area type, waves 0-15 (LFS 2004:1)	discrete	numeric	
V12	popgroup	Population group	discrete	numeric	
V13	gender	Gender (1=Male 2=Female)	discrete	numeric	
V14	age	Age	discrete	numeric	
V15	marstat	Marital Status (consistent coding for all waves)	discrete	numeric	
V16	educhigh0	Highest education level, OHSs only	discrete	numeric	
V17	empstat1	Employment status, official	discrete	numeric	
V18	empstat2	Employment status, expanded	discrete	numeric	
V19	employer	Who does ... work for in main job (LFS only)	discrete	numeric	
V20	employer1	Who does individual work for? (PSLSD+OHS only)	discrete	numeric	
V21	numworkers	Number of regular workers at job, LFS	discrete	numeric	
V22	jobstartmonth	Month started working for employer, LFS+QLFS only	discrete	numeric	
V23	jobstartyear	Year started working for employer, LFS+QLFS only	discrete	numeric	
V24	selfformalreg	Individual considers the business they operate formal (OHS only)	discrete	numeric	
V25	selfvatreg	Business operated by the individual is registered for VAT (OHS only)	discrete	numeric	
V26	selfpaidemp	Number of paid employees in own enterprise (OHS only)	contin	numeric	

V27	selfunpaidemp	Number of unpaid employees in own enterprise (OHS only)	contin	numeric
V28	wageformalreg	Employee considers the enterprise they work for formal (OHS only)	discrete	numeric
V29	formalreg0	LFS variable for wage/self/domestic: business is formal, registered	discrete	numeric
V30	regisvat	Business registered for VAT, all in LFS, only self-emp in QLFS	discrete	numeric
V31	jobindcode	Industry of employment, short code	discrete	numeric
V32	industry	3 digit industry SIC code, OHS 99+LFS	discrete	numeric
V33	industry2	3 digit industry SIC code OHS96-98 +QLFS	discrete	numeric
V34	indust2digit	2 digit Industry, OHS 94+95	discrete	numeric
V35	jobocccode	Occupation of main job, short code	discrete	numeric
V36	occupation	4 digit occ code OHS 96-LFS 2002:1	discrete	numeric
V37	occupation1	3 digit occupation code, OHS 94+95	contin	numeric
V38	occupation2	4 digit occ code LFS 2002:2 onwards	contin	numeric
V39	jobunion	Member of trade union, PSLSD, OHS+LFS+QLFS 2012 onwards only	discrete	numeric
V40	publicemp	Dummy: Employed by govt/public enterprise, PSLSD,LFS+QLFS only	discrete	numeric
V41	businesstype1	Type of business where person works (waves 00:1 to 01:1)	discrete	numeric
V42	businesstype2	Type of business where person works (waves 01:2 to 07:2)	discrete	numeric
V43	hrs1stwk	Hours worked in total in last 7 days	discrete	numeric
V44	hhdisablegrant	Household member receives a disability grant	discrete	numeric
V45	educhigh1	Highest level of Education, LFS only	discrete	numeric
V46	inperson	Is the person responding in person	discrete	numeric
V47	writtencontract	=1 if employee has written contract, LFS+QLFS	discrete	numeric
V48	urbrur2	Area type, waves 23-50 (QLFS 2008:1- 2014:4)	discrete	numeric
V49	urbrur3	Type of area, QLFS 2015 onwards	discrete	numeric
V50	metro	Metro	discrete	numeric
V51	educhigh2	Highest level of education (waves 04:2 to 2012:2)	discrete	numeric
V52	educhigh3	Highest level of education (waves 2012:3 to 2016:2)	discrete	numeric
V53	educhigh4	Highest level of education (waves 2016:3 to most recent QLFS)	discrete	numeric
V54	employer2	Employer (QLFS)	discrete	numeric
V55	businesstype3	Type of business where person works (QLFS)	discrete	numeric
V56	jobcontract2	Contract is written or verbal?	discrete	numeric
V57	registax	Business is registered for income tax (LFS and QLFS)	discrete	numeric
V58	numworkers2	Number of employees at place of work (QLFS)	discrete	numeric
V59	informal_sector_derived	DERIVED (by stats SA) variable : is job/business in formal sector, informal sect	discrete	numeric
V60	informal_emp_derived	DERIVED (by stats SA) variable : indiv is in informal employment (QLFS 2009:3 on	discrete	numeric

V61	formalreg1	Is the business formal, informal or private hh? 2008:1 until 2009:2	discrete	numeric
V62	uif	Does employer deducted unemployment insurance fund contributions?	discrete	numeric
V63	yrseduc	Years of education, derived variable	discrete	numeric
V64	publicemp2	Public employment dummy that includes OHS, as well as PSLSD,LFS+QLFS	discrete	numeric
V65	earnings	consistent monthly earnings (rand amt) variable for PALMSv2+	contin	numeric
V66	realearnings	consistent REAL monthly earnings (rand amt) variable for PALMSv2+	contin	numeric
V67	outlier	outlier flag based on regression+showing a studentised residual $\geq 5$	discrete	numeric
V68	employerAll	Wage worker or Self-employed - all waves	discrete	numeric
V69	pr_rand	Probability of giving actual Rand amount	discrete	numeric
V70	bracketweight	Weight to correct for bracket responses, now using Stats SA demographic model	contin	numeric
V71	dc	District Council/Municipality	discrete	numeric
V72	enrolled	More detailed enrollment status variable, for LFS only	discrete	numeric
V73	enrollment3	Enrollment status: PSLSD, OHS and LFS only	discrete	numeric
V74	dweltype	Type of Dwelling of Household	discrete	numeric
V75	watersource	Household's source of water	discrete	numeric
V76	toiletmaintype	Household's Main toilet	discrete	numeric
V77	hhpension	Household member receives an old age pension	discrete	numeric
V78	hhchildsuppgrant	Household member receives a child support grant	discrete	numeric
V79	hhcaredependgrant	Household member receives a care dependency grant	discrete	numeric
V80	hhfostercaregrant	Household member receives a foster care grant	discrete	numeric
V81	incpension	Indiv income past year from state old age pension	discrete	numeric
V82	incdisabgrnt	Indiv income past year from disability grant	discrete	numeric
V83	inctstmaint	Indiv income past year from state maintenance grant or child support grant	discrete	numeric
V84	incdepgrnt	Indiv income past year from care dependency (single care) grant	discrete	numeric
V85	incfostcrgnt	Indiv income past year from foster care grant	discrete	numeric
V86	employedpreferred	=1 if employed and NOT a self-employed agricultural worker	discrete	numeric

**palmsv3.3incomes-stata11**

## Content

Cases 6022548

Variable(s) 38

Structure Type:  
Keys: ()

Version

Producer

Missing Data

**Variables**

ID	NAME	LABEL	TYPE	FORMAT	QUESTION
V87	uqnr	household id variable, as in original data	discrete	character	
V88	personnr	Person number	contin	numeric	
V89	wave	Survey wave, PSLSD 1993=0, OHS 1994=1, QLFS Dec 2015=54	discrete	numeric	
V90	earnperiod_wage	Earnings Period, employees, OHS only	discrete	numeric	
V91	earnperiod_self	Earnings Period, self-employed, OHS only	discrete	numeric	
V92	earnperiod	Earnings Period	discrete	numeric	
V93	jobsalary	Earnings in wage or self-employment, LFSs	discrete	numeric	
V94	jobsalcat	Total salary at main job: category	discrete	numeric	
V95	wageempincome	Wage employment earnings in OHSs	discrete	numeric	
V96	wageempincome2	Total NET salary per month in employee main job. q3.13, OHS 94. Incl SSA imputes	contin	numeric	
V97	empsalcat1	Total salary at main job: category, for employees, OHS 96-99	discrete	numeric	
V98	empsalcat2	Total salary at main job: category, for employees, OHS 95	discrete	numeric	
V99	empsalcat3	Total MONTHLY NET salary at main job: category, for employees, OHS 94. As releas	discrete	numeric	
V100	selfempincome1	Self employment earnings in OHSs	discrete	numeric	
V101	selfempincome2	Self-employment income q 3.19, calc PER MONTH by SSA, OHS 94. Incl imputes.	discrete	numeric	
V102	imputed	The original net income figure is imputed, OHS 94. See Wittenberg (2008)	discrete	numeric	
V103	salary_impute	Est net income per month for employees, OHS 94. See Wittenberg (2008)	contin	numeric	
V104	impute_gross	The orig gross income from own acc figure is imputed, OHS 94. See Wittenberg (20	discrete	numeric	
V105	emp_impute	Est gross income p/month in own acct activities, OHS 94. See Wittenberg (2008)	contin	numeric	
V106	deduc1	Was salary/pay total pay or take home pay?	discrete	numeric	
V107	deducamt1	Deduction amount	contin	numeric	
V108	selfempinccat1	Total income at main job: category, for self-employed 99 OHS	discrete	numeric	



V109	selfempinccat2	Total income at main job: category, for self-employed 96-98 OHS	discrete	numeric
V110	selfempinccat3	Total income at main job: category, for self-employed 95 OHS	discrete	numeric
V111	selfempinccat4	Total MONTHLY income at main job: category, for self-employed 94 OHS	discrete	numeric
V112	selfempexpgoods	Expenses on goods in self-employment, OHS 96-98	contin	numeric
V113	selfempexprenum	Expenses on remuneration in self-employment, OHS 96-98	contin	numeric
V114	selfempexpoth	Other Expenses in self-employment, OHS 96-98	contin	numeric
V115	selfempexpall	Total Expenses in self-employment, OHS 94 and 95	contin	numeric
V116	jobsalperiod2	Salary time period for employees (QLFS only)	discrete	numeric
V117	tipscomm	Tips or Commission (QLFS only)	discrete	numeric
V118	monthlyjobsalary	Monthly salary/wage for employees (QLFS only, includes imputed values)	discrete	numeric
V119	salaryrefusedontknow	Employee refused or doesn't know salary amt (QLFS 2010 only)	discrete	numeric
V120	selfemppayperiod2	Earnings period for self-employed(QLFS only)	discrete	numeric
V121	monthlyjobearn	Monthly earnings for self-employed (QLFS only, includes imputed values)	discrete	numeric
V122	earningsrefusedontknow	Self-employed refused or doesn't know earnings amt (QLFS 2010 only)	discrete	numeric
V123	earningscat	Earnings category for wage and self-employed (QLFS only)	discrete	numeric
V124	pslsd_earnings		contin	numeric

**palmsv3.3miincomes-stata11**

## Content

Cases 1217213

Variable(s) 26

Structure Type:  
Keys: ()

Version

Producer

Missing Data

**Variables**

ID	NAME	LABEL	TYPE	FORMAT	QUESTION
V125	uqnr	household id variable, as in original data	discrete	character	
V126	personnr	Person number	contin	numeric	
V127	wave	Survey wave, PSLSD 1993=0, OHS 1994=1, QLFS Dec 2015=54	discrete	numeric	
V128	realearnings	Real monthly earnings, in Dec 2017 rands.	contin	numeric	
V129	imputed_real_v1		contin	numeric	
V130	imputed_real_v2		contin	numeric	
V131	imputed_real_v3		contin	numeric	
V132	imputed_real_v4		contin	numeric	
V133	imputed_real_v5		contin	numeric	
V134	imputed_real_v6		contin	numeric	
V135	imputed_real_v7		contin	numeric	
V136	imputed_real_v8		contin	numeric	
V137	imputed_real_v9		contin	numeric	
V138	imputed_real_v10		contin	numeric	
V139	imputed_real		contin	numeric	
V140	imputed_nom		contin	numeric	
V141	imputed_nom_v1		contin	numeric	
V142	imputed_nom_v2		contin	numeric	
V143	imputed_nom_v3		contin	numeric	
V144	imputed_nom_v4		contin	numeric	
V145	imputed_nom_v5		contin	numeric	
V146	imputed_nom_v6		contin	numeric	
V147	imputed_nom_v7		contin	numeric	
V148	imputed_nom_v8		contin	numeric	
V149	imputed_nom_v9		contin	numeric	
V150	imputed_nom_v10		contin	numeric	



household id variable, as in original data (uqnr)

File: palmsv3.3-stata11

#### Overview

Type: Discrete  
Format: character  
Width: 18

Valid cases: 6022548  
Invalid: 0

Person number (personnr)

File: palmsv3.3-stata11

#### Overview

Type: Continuous  
Format: numeric  
Width: 2  
Decimals: 0  
Range: 0-85

Valid cases: 6022548  
Invalid: 0  
Minimum: 0  
Maximum: 85  
Mean: 3.2

Survey year (year)

File: palmsv3.3-stata11

#### Overview

Type: Continuous  
Format: numeric  
Width: 4  
Decimals: 0  
Range: 1993-2019

Valid cases: 6022548  
Invalid: 0  
Minimum: 1993  
Maximum: 2019  
Mean: 2008.5

Survey wave, PSLSD 1993=0, OHS 1994=1, QLFS Dec 2015=54  
(wave)

File: palmsv3.3-stata11

#### Overview

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: 0-68

Valid cases: 6022548  
Invalid: 0  
Mean: 31.4

Primary Sampling Unit number (ea)

File: palmsv3.3-stata11

#### Overview

Type: Continuous  
Format: numeric  
Width: 9  
Decimals: 0  
Range: 1-984860250

Valid cases: 6022547  
Invalid: 1  
Minimum: 1  
Maximum: 984860250  
Mean: 59616366.3

stratum var to be used for svyset in Stata- group of stratum and wave (stratum)

File: palmsv3.3-stata11

#### Overview

Type: Continuous	Valid cases: 6022548
Format: numeric	Invalid: 0
Width: 5	Minimum: 1
Decimals: 0	Maximum: 17380
Range: 1-17380	Mean: 6324.1

Province (province)

File: palmsv3.3-stata11

#### Overview

Type: Discrete	Valid cases: 6022548
Format: numeric	Invalid: 0
Width: 1	Mean: 5.1
Decimals: 0	
Range: 1-9	

Original Stats SA/PSLSD person weight (pweight)

File: palmsv3.3-stata11

#### Overview

Type: Continuous	Valid cases: 6022546
Format: numeric	Invalid: 2
Width: 18	Minimum: 0.1
Decimals: 0	Maximum: 53718
Range: 0.0742899999022484-53717.9756	Mean: 574.4

Cross Entropy weight: SSA 2019 midyear estimates (ceweight1)

File: palmsv3.3-stata11

#### Overview

Type: Continuous	Valid cases: 6022548
Format: numeric	Invalid: 0
Width: 16	Minimum: 0
Decimals: 0	Maximum: 52818.5
Range: 0-52818.5332121314	Mean: 580.9

Stats SA household weight (hweight)

File: palmsv3.3-stata11

#### Overview

Type: Continuous	Valid cases: 1372187
Format: numeric	Invalid: 4650361
Width: 18	Minimum: 0.1
Decimals: 0	Maximum: 21533.2
Range: 0.0544900000095367-21533.18	Mean: 410.2

## Area type, waves 0-15 (LFS 2004:1) (urbrur)

File: palmsv3.3-stata11

**Overview**

Type: Discrete	Valid cases: 1573019
Format: numeric	Invalid: 4449529
Width: 1	Mean: 1.5
Decimals: 0	
Range: 1-2	

## Population group (popgroup)

File: palmsv3.3-stata11

**Overview**

Type: Discrete	Valid cases: 6021440
Format: numeric	Invalid: 1108
Width: 1	Mean: 1.4
Decimals: 0	
Range: 1-9	

## Gender (1=Male 2=Female) (gender)

File: palmsv3.3-stata11

**Overview**

Type: Discrete	Valid cases: 6022047
Format: numeric	Invalid: 501
Width: 1	Mean: 1.5
Decimals: 0	
Range: 1-9	

## Age (age)

File: palmsv3.3-stata11

**Overview**

Type: Discrete	Valid cases: 6020254
Format: numeric	Invalid: 2294
Width: 3	Mean: 28
Decimals: 0	
Range: -1-999	

## Marital Status (consistent coding for all waves) (marstat)

File: palmsv3.3-stata11

**Overview**

Type: Discrete	Valid cases: 6021704
Format: numeric	Invalid: 844
Width: 1	Mean: 3.1
Decimals: 0	
Range: 1-9	

## Highest education level, OHSs only (educhigh0)

File: palmsv3.3-stata11

**Overview**

Type: Discrete	Valid cases: 661405
Format: numeric	Invalid: 5361143
Width: 2	Mean: 8.1
Decimals: 0	
Range: 0-26	

## Employment status, official (empstat1)

File: palmsv3.3-stata11

**Overview**

Type: Discrete	Valid cases: 4107689
Format: numeric	Invalid: 1914859
Width: 1	Mean: 0.6
Decimals: 0	
Range: 0-2	

## Employment status, expanded (empstat2)

File: palmsv3.3-stata11

**Overview**

Type: Discrete	Valid cases: 4107689
Format: numeric	Invalid: 1914859
Width: 1	Mean: 0.8
Decimals: 0	
Range: 0-2	

## Who does ... work for in main job (LFS only) (employer)

File: palmsv3.3-stata11

**Overview**

Type: Discrete	Valid cases: 1104321
Format: numeric	Invalid: 4918227
Width: 1	Mean: 5.6
Decimals: 0	
Range: 1-9	

## Who does individual work for? (PSLSD+OHS only) (employer1)

File: palmsv3.3-stata11

**Overview**

Type: Discrete	Valid cases: 367194
Format: numeric	Invalid: 5655354
Width: 4	Mean: 1083.8
Decimals: 0	
Range: 0-8888	

## Number of regular workers at job, LFS (numworkers)

File: palmsv3.3-stata11

### Overview

Type: Discrete	Valid cases: 1104321
Format: numeric	Invalid: 4918227
Width: 1	Mean: 6.4
Decimals: 0	
Range: 1-9	

## Month started working for employer, LFS+QLFS only (jobstartmonth)

File: palmsv3.3-stata11

### Overview

Type: Discrete	Valid cases: 3619468
Format: numeric	Invalid: 2403080
Width: 2	Mean: 58.9
Decimals: 0	
Range: 0-99	

## Year started working for employer, LFS+QLFS only (jobstartyear)

File: palmsv3.3-stata11

### Overview

Type: Discrete	Valid cases: 3544810
Format: numeric	Invalid: 2477738
Width: 4	Mean: 6472.5
Decimals: 0	
Range: 1927-9999	

## Individual considers the business they operate formal (OHS only) (selfformalreg)

File: palmsv3.3-stata11

### Overview

Type: Discrete	Valid cases: 22421
Format: numeric	Invalid: 6000127
Width: 4	Mean: 1.7
Decimals: 0	
Range: 0-8888	

## Business operated by the individual is registered for VAT (OHS only) (selfvatreg)

File: palmsv3.3-stata11

### Overview

Type: Discrete	Valid cases: 17147
Format: numeric	Invalid: 6005401
Width: 4	Mean: 1.7
Decimals: 0	
Range: 0-8888	



## Number of paid employees in own enterprise (OHS only) (selfpaidemp) File: palmsv3.3-stata11

### Overview

Type: Continuous	Valid cases: 23228
Format: numeric	Invalid: 5999320
Width: 4	Minimum: 0
Decimals: 0	Maximum: 2000
Range: 0-2000	Mean: 2.2

## Number of unpaid employees in own enterprise (OHS only) (selfunpaidemp) File: palmsv3.3-stata11

### Overview

Type: Continuous	Valid cases: 22117
Format: numeric	Invalid: 6000431
Width: 4	Minimum: 0
Decimals: 0	Maximum: 1000
Range: 0-1000	Mean: 0.3

## Employee considers the enterprise they work for formal (OHS only) (wageformalreg) File: palmsv3.3-stata11

### Overview

Type: Discrete	Valid cases: 62138
Format: numeric	Invalid: 5960410
Width: 4	Mean: 1.2
Decimals: 0	
Range: 0-8888	

## LFS variable for wage/self/domestic: business is formal, registered (formalreg0) File: palmsv3.3-stata11

### Overview

Type: Discrete	Valid cases: 1104321
Format: numeric	Invalid: 4918227
Width: 1	Mean: 5.5
Decimals: 0	
Range: 1-9	

## Business registered for VAT, all in LFS, only self-emp in QLFS (regisvat) File: palmsv3.3-stata11

### Overview

Type: Discrete	Valid cases: 3169967
Format: numeric	Invalid: 2852581
Width: 1	Mean: 1.9
Decimals: 0	
Range: 0-9	

## Industry of employment, short code (jobindcode)

File: palmsv3.3-stata11

**Overview**

Type: Discrete	Valid cases: 1513919
Format: numeric	Invalid: 4508629
Width: 2	Mean: 6.4
Decimals: 0	
Range: 1-99	

## 3 digit industry SIC code, OHS 99+LFS (industry)

File: palmsv3.3-stata11

**Overview**

Type: Discrete	Valid cases: 1175313
Format: numeric	Invalid: 4847235
Width: 4	Mean: 1072.8
Decimals: 0	
Range: 0-9999	

## 3 digit industry SIC code OHS96-98 +QLFS (industry2)

File: palmsv3.3-stata11

**Overview**

Type: Discrete	Valid cases: 2574838
Format: numeric	Invalid: 3447710
Width: 3	Mean: 837.4
Decimals: 0	
Range: 0-999	

## 2 digit Industry, OHS 94+95 (indust2digit)

File: palmsv3.3-stata11

**Overview**

Type: Discrete	Valid cases: 207254
Format: numeric	Invalid: 5815294
Width: 2	Mean: 8.3
Decimals: 0	
Range: 0-50	

## Occupation of main job, short code (jobocccode)

File: palmsv3.3-stata11

**Overview**

Type: Discrete	Valid cases: 1513663
Format: numeric	Invalid: 4508885
Width: 2	Mean: 6.2
Decimals: 0	
Range: 1-99	

## 4 digit occ code OHS 96-LFS 2002:1 (occupation)

File: palmsv3.3-stata11

**Overview**

Type: Discrete	Valid cases: 515463
Format: numeric	Invalid: 5507085
Width: 4	Mean: 7783
Decimals: 0	
Range: 810-9999	

## 3 digit occupation code, OHS 94+95 (occupation1)

File: palmsv3.3-stata11

**Overview**

Type: Continuous	Valid cases: 207254
Format: numeric	Invalid: 5815294
Width: 3	Minimum: 0
Decimals: 0	Maximum: 934
Range: 0-934	Mean: 193.6

## 4 digit occ code LFS 2002:2 onwards (occupation2)

File: palmsv3.3-stata11

**Overview**

Type: Continuous	Valid cases: 3234662
Format: numeric	Invalid: 2787886
Width: 4	Minimum: 850
Decimals: 0	Maximum: 9999
Range: 850-9999	Mean: 8455.3

## Member of trade union, PSLSD, OHS+LFS+QLFS 2012 onwards only (jobunion)

File: palmsv3.3-stata11

**Overview**

Type: Discrete	Valid cases: 2012049
Format: numeric	Invalid: 4010499
Width: 1	Mean: 0.9
Decimals: 0	
Range: 0-9	

## Dummy: Employed by govt/public enterprise, PSLSD,LFS+QLFS only (publicemp)

File: palmsv3.3-stata11

**Overview**

Type: Discrete	Valid cases: 1360130
Format: numeric	Invalid: 4662418
Width: 1	Mean: 0.2
Decimals: 0	
Range: 0-1	

## Type of business where person works (waves 00:1 to 01:1) (business1)

File: palmsv3.3-stata11

### Overview

Type: Discrete	Valid cases: 177361
Format: numeric	Invalid: 5845187
Width: 1	Mean: 7.1
Decimals: 0	
Range: 1-9	

## Type of business where person works (waves 01:2 to 07:2) (business2)

File: palmsv3.3-stata11

### Overview

Type: Discrete	Valid cases: 935220
Format: numeric	Invalid: 5087328
Width: 2	Mean: 58.1
Decimals: 0	
Range: 1-99	

## Hours worked in total in last 7 days (hrs1stwk)

File: palmsv3.3-stata11

### Overview

Type: Discrete	Valid cases: 1664942
Format: numeric	Invalid: 4357606
Width: 3	Mean: 39.2
Decimals: 0	
Range: 0-999	

## Household member receives a disability grant (hhdisablegrant)

File: palmsv3.3-stata11

### Overview

Type: Discrete	Valid cases: 417569
Format: numeric	Invalid: 5604979
Width: 1	Mean: 1.9
Decimals: 0	
Range: 1-9	

## Highest level of Education, LFS only (educhigh1)

File: palmsv3.3-stata11

### Overview

Type: Discrete	Valid cases: 1628231
Format: numeric	Invalid: 4394317
Width: 2	Mean: 7.3
Decimals: 0	
Range: 0-99	

## Is the person responding in person (inperson)

File: palmsv3.3-stata11

**Overview**

Type: Discrete	Valid cases: 4825449
Format: numeric	Invalid: 1197099
Width: 1	Mean: 3.1
Decimals: 0	
Range: 1-9	

## =1 if employee has written contract, LFS+QLFS (writtencontract)

File: palmsv3.3-stata11

**Overview**

Type: Discrete	Valid cases: 1117084
Format: numeric	Invalid: 4905464
Width: 1	Mean: 0.7
Decimals: 0	
Range: 0-1	

## Area type, waves 23-50 (QLFS 2008:1- 2014:4) (urbrur2)

File: palmsv3.3-stata11

**Overview**

Type: Discrete	Valid cases: 2439657
Format: numeric	Invalid: 3582891
Width: 1	Mean: 2.4
Decimals: 0	
Range: 1-5	

## Type of area, QLFS 2015 onwards (urbrur3)

File: palmsv3.3-stata11

**Overview**

Type: Discrete	Valid cases: 1249452
Format: numeric	Invalid: 4773096
Width: 1	Mean: 1.4
Decimals: 0	
Range: 1-4	

## Metro (metro)

File: palmsv3.3-stata11

**Overview**

Type: Discrete	Valid cases: 3689109
Format: numeric	Invalid: 2333439
Width: 2	Mean: 21.5
Decimals: 0	
Range: 0-76	

## Highest level of education (waves 04:2 to 2012:2) (educhigh2)

File: palmsv3.3-stata11

**Overview**

Type: Discrete  
 Format: numeric  
 Width: 2  
 Decimals: 0  
 Range: 0-99

Valid cases: 1580778  
 Invalid: 4441770  
 Mean: 8

## Highest level of education (waves 2012:3 to 2016:2) (educhigh3)

File: palmsv3.3-stata11

**Overview**

Type: Discrete  
 Format: numeric  
 Width: 2  
 Decimals: 0  
 Range: 0-98

Valid cases: 1282327  
 Invalid: 4740221  
 Mean: 25

## Highest level of education (waves 2016:3 to most recent QLFS) (educhigh4)

File: palmsv3.3-stata11

**Overview**

Type: Discrete  
 Format: numeric  
 Width: 2  
 Decimals: 0  
 Range: 0-98

Valid cases: 826004  
 Invalid: 5196544  
 Mean: 24.1

## Employer (QLFS) (employer2)

File: palmsv3.3-stata11

**Overview**

Type: Discrete  
 Format: numeric  
 Width: 1  
 Decimals: 0  
 Range: 0-8

Valid cases: 2515148  
 Invalid: 3507400  
 Mean: 5.5

## Type of business where person works (QLFS) (businesstype3)

File: palmsv3.3-stata11

**Overview**

Type: Discrete  
 Format: numeric  
 Width: 1  
 Decimals: 0  
 Range: 1-9

Valid cases: 2515148  
 Invalid: 3507400  
 Mean: 6.1

## Contract is written or verbal? (jobcontract2)

File: palmsv3.3-stata11

**Overview**

Type: Discrete	Valid cases: 2451661
Format: numeric	Invalid: 3570887
Width: 1	Mean: 5.8
Decimals: 0	
Range: 0-8	

## Business is registered for income tax (LFS and QLFS) (registax)

File: palmsv3.3-stata11

**Overview**

Type: Discrete	Valid cases: 2161824
Format: numeric	Invalid: 3860724
Width: 1	Mean: 0.1
Decimals: 0	
Range: 0-9	

## Number of employees at place of work (QLFS) (numworkers2)

File: palmsv3.3-stata11

**Overview**

Type: Discrete	Valid cases: 2515146
Format: numeric	Invalid: 3507402
Width: 2	Mean: 56.9
Decimals: 0	
Range: 1-99	

## DERIVED (by stats SA) variable : is job/business in formal sector, informal sect (informal\_sector\_derived)

File: palmsv3.3-stata11

**Overview**

Type: Discrete	Valid cases: 2515148
Format: numeric	Invalid: 3507400
Width: 1	Mean: 0.5
Decimals: 0	
Range: 0-4	

## DERIVED (by stats SA) variable : indiv is in informal employment (QLFS 2009:3 on (informal\_emp\_derived)

File: palmsv3.3-stata11

**Overview**

Type: Discrete	Valid cases: 1955670
Format: numeric	Invalid: 4066878
Width: 1	Mean: 0.7
Decimals: 0	
Range: 0-8	

Is the business formal, informal or private hh? 2008:1 until 2009:2  
(formalreg1)

File: palmsv3.3-stata11

#### Overview

Type: Discrete  
Format: numeric  
Width: 1  
Decimals: 0  
Range: 1-8

Valid cases: 559478  
Invalid: 5463070  
Mean: 6.3

Does employer deducted unemployment insurance fund  
contributions? (uif)

File: palmsv3.3-stata11

#### Overview

Type: Discrete  
Format: numeric  
Width: 1  
Decimals: 0  
Range: 1-3

Valid cases: 1208221  
Invalid: 4814327  
Mean: 1.5

Years of education, derived variable (yrseduc)

File: palmsv3.3-stata11

#### Overview

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: 0-17

Valid cases: 5983895  
Invalid: 38653  
Mean: 6.6

Public employment dummy that includes OHS, as well as  
PSLSD,LFS+QLFS (publicemp2)

File: palmsv3.3-stata11

#### Overview

Type: Discrete  
Format: numeric  
Width: 1  
Decimals: 0  
Range: 0-1

Valid cases: 1443830  
Invalid: 4578718  
Mean: 0.2

consistent monthly earnings (rand amt) variable for PALMSv2+  
(earnings)

File: palmsv3.3-stata11

#### Overview



Type: Continuous  
 Format: numeric  
 Width: 8  
 Decimals: 0  
 Range: 0-86450000

Valid cases: 963492  
 Invalid: 5059056  
 Minimum: 0  
 Maximum: 86450000  
 Mean: 6275.2

consistent REAL monthly earnings (rand amt) variable for PALMSv2+  
 (realearnings)  
 File: palmsv3.3-stata11

#### Overview

Type: Continuous  
 Format: numeric  
 Width: 9  
 Decimals: 0  
 Range: 0-123600832

Valid cases: 963492  
 Invalid: 5059056  
 Minimum: 0  
 Maximum: 123600832  
 Mean: 8783.9

outlier flag based on regression+showing a studentised residual  $\geq 5$   
 (outlier)  
 File: palmsv3.3-stata11

#### Overview

Type: Discrete  
 Format: numeric  
 Width: 1  
 Decimals: 0  
 Range: 0-1

Valid cases: 963492  
 Invalid: 5059056  
 Mean: 0

Wage worker or Self-employed - all waves (employerAll)  
 File: palmsv3.3-stata11

#### Overview

Type: Discrete  
 Format: numeric  
 Width: 1  
 Decimals: 0  
 Range: 0-1

Valid cases: 1502786  
 Invalid: 4519762  
 Mean: 0.2

Probability of giving actual Rand amount (pr\_rand)  
 File: palmsv3.3-stata11

#### Overview

Type: Discrete  
 Format: numeric  
 Width: 1  
 Decimals: 0  
 Range: 0-1

Valid cases: 1134511  
 Invalid: 4888037  
 Mean: 0.8

## Weight to correct for bracket responses, now using Stats SA demographic model (bracketweight)

File: palmsv3.3-stata11

### Overview

Type: Continuous  
Format: numeric  
Width: 17  
Decimals: 0  
Range: 0.805410623550415-60798.46875

Valid cases: 1098521  
Invalid: 4924027  
Minimum: 0.8  
Maximum: 60798.5  
Mean: 746.4

## District Council/Municipality (dc)

File: palmsv3.3-stata11

### Overview

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: 1-55

Valid cases: 760420  
Invalid: 5262128  
Mean: 28.5

## More detailed enrollment status variable, for LFS only (enrolled)

File: palmsv3.3-stata11

### Overview

Type: Discrete  
Format: numeric  
Width: 1  
Decimals: 0  
Range: 1-9

Valid cases: 1627670  
Invalid: 4394878  
Mean: 5.6

## Enrollment status: PSLSD, OHS and LFS only (enrollment3)

File: palmsv3.3-stata11

### Overview

Type: Discrete  
Format: numeric  
Width: 1  
Decimals: 0  
Range: 1-9

Valid cases: 2332323  
Invalid: 3690225  
Mean: 2.3

## Type of Dwelling of Household (dwelltype)

File: palmsv3.3-stata11

### Overview

Type: Discrete  
Format: numeric  
Width: 1  
Decimals: 0  
Range: 1-7

Valid cases: 1434662  
Invalid: 4587886  
Mean: 2

## Household's source of water (watersource)

File: palmsv3.3-stata11

**Overview**

Type: Discrete	Valid cases: 1226816
Format: numeric	Invalid: 4795732
Width: 2	Mean: 3.1
Decimals: 0	
Range: 1-12	

## Household's Main toilet (toiletmaintype)

File: palmsv3.3-stata11

**Overview**

Type: Discrete	Valid cases: 904864
Format: numeric	Invalid: 5117684
Width: 2	Mean: 5.3
Decimals: 0	
Range: 1-13	

## Household member receives an old age pension (hhpension)

File: palmsv3.3-stata11

**Overview**

Type: Discrete	Valid cases: 417569
Format: numeric	Invalid: 5604979
Width: 1	Mean: 1.7
Decimals: 0	
Range: 1-9	

## Household member receives a child support grant (hhchildsuppgrant)

File: palmsv3.3-stata11

**Overview**

Type: Discrete	Valid cases: 417569
Format: numeric	Invalid: 5604979
Width: 1	Mean: 1.8
Decimals: 0	
Range: 1-9	

## Household member receives a care dependency grant (hhcaredependgrant)

File: palmsv3.3-stata11

**Overview**

Type: Discrete	Valid cases: 318802
Format: numeric	Invalid: 5703746
Width: 1	Mean: 2
Decimals: 0	
Range: 1-9	

## Household member receives a foster care grant (hhfostercaregrant)

File: palmsv3.3-stata11

**Overview**

Type: Discrete	Valid cases: 417569
Format: numeric	Invalid: 5604979
Width: 1	Mean: 2
Decimals: 0	
Range: 1-9	

## Indiv income past year from state old age pension (incpension)

File: palmsv3.3-stata11

**Overview**

Type: Discrete	Valid cases: 435705
Format: numeric	Invalid: 5586843
Width: 1	Mean: 2
Decimals: 0	
Range: 1-9	

## Indiv income past year from disability grant (incdisabgrnt)

File: palmsv3.3-stata11

**Overview**

Type: Discrete	Valid cases: 432666
Format: numeric	Invalid: 5589882
Width: 1	Mean: 2
Decimals: 0	
Range: 1-9	

## Indiv income past year from state maintenance grant or child support grant (inctstmaint)

File: palmsv3.3-stata11

**Overview**

Type: Discrete	Valid cases: 434093
Format: numeric	Invalid: 5588455
Width: 1	Mean: 2
Decimals: 0	
Range: 1-9	

## Indiv income past year from care dependency (single care) grant (incdepgrnt)

File: palmsv3.3-stata11

**Overview**

Type: Discrete	Valid cases: 434072
Format: numeric	Invalid: 5588476
Width: 1	Mean: 2
Decimals: 0	
Range: 1-9	

## Indiv income past year from foster care grant (incfostcgrnt)

File: palmsv3.3-stata11

### Overview

Type: Discrete  
Format: numeric  
Width: 1  
Decimals: 0  
Range: 1-9

Valid cases: 434057  
Invalid: 5588491  
Mean: 2

=1 if employed and NOT a self-employed agricultural worker  
(employedpreferred)

File: palmsv3.3-stata11

### Overview

Type: Discrete  
Format: numeric  
Width: 1  
Decimals: 0  
Range: 1-1

Valid cases: 1486985  
Invalid: 4535563  
Mean: 1

household id variable, as in original data (uqnr)

File: palmsv3.3incomes-stata11

#### Overview

Type: Discrete  
Format: character  
Width: 18

Valid cases: 6022548  
Invalid: 0

Person number (personnr)

File: palmsv3.3incomes-stata11

#### Overview

Type: Continuous  
Format: numeric  
Width: 2  
Decimals: 0  
Range: 0-85

Valid cases: 6022548  
Invalid: 0  
Minimum: 0  
Maximum: 85

Survey wave, PSLSD 1993=0, OHS 1994=1, QLFS Dec 2015=54  
(wave)

File: palmsv3.3incomes-stata11

#### Overview

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: 0-68

Valid cases: 6022548  
Invalid: 0

Earnings Period, employees, OHS only (earnperiod\_wage)

File: palmsv3.3incomes-stata11

#### Overview

Type: Discrete  
Format: numeric  
Width: 1  
Decimals: 0  
Range: 1-4

Valid cases: 116635  
Invalid: 5905913

Earnings Period, self-employed, OHS only (earnperiod\_self)

File: palmsv3.3incomes-stata11

#### Overview

Type: Discrete  
Format: numeric  
Width: 1  
Decimals: 0  
Range: 1-4

Valid cases: 19930  
Invalid: 6002618

## Earnings Period (earnperiod)

### File: palmsv3.3incomes-stata11

#### Overview

Type: Discrete  
Format: numeric  
Width: 1  
Decimals: 0  
Range: 1-4

Valid cases: 287124  
Invalid: 5735424

## Earnings in wage or self-employment, LFSs (jobsalary)

### File: palmsv3.3incomes-stata11

#### Overview

Type: Discrete  
Format: numeric  
Width: 7  
Decimals: 0  
Range: 0-9999999

Valid cases: 285541  
Invalid: 5737007

## Total salary at main job: category (jobsalcat)

### File: palmsv3.3incomes-stata11

#### Overview

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: 1-99

Valid cases: 1104321  
Invalid: 4918227

## Wage employment earnings in OHSs (wageempincome)

### File: palmsv3.3incomes-stata11

#### Overview

Type: Discrete  
Format: numeric  
Width: 6  
Decimals: 0  
Range: 1-920920

Valid cases: 58455  
Invalid: 5964093

## Total NET salary per month in employee main job. q3.13, OHS 94. Incl SSA imputes (wageempincome2)

### File: palmsv3.3incomes-stata11

#### Overview

Type: Continuous  
Format: numeric  
Width: 5  
Decimals: 0  
Range: 0-52500

Valid cases: 29988  
Invalid: 5992560  
Minimum: 0  
Maximum: 52500

Total salary at main job: category, for employees, OHS 96-99  
(empsalcat1)

File: palmsv3.3incomes-stata11

#### Overview

Type: Discrete  
Format: numeric  
Width: 4  
Decimals: 0  
Range: 0-8888

Valid cases: 116176  
Invalid: 5906372

Total salary at main job: category, for employees, OHS 95  
(empsalcat2)

File: palmsv3.3incomes-stata11

#### Overview

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: 0-30

Valid cases: 103332  
Invalid: 5919216

Total MONTHLY NET salary at main job: category, for employees, OHS  
94. As releas (empsalcat3)

File: palmsv3.3incomes-stata11

#### Overview

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: 0-12

Valid cases: 29988  
Invalid: 5992560

Self employment earnings in OHSs (selfempincome1)

File: palmsv3.3incomes-stata11

#### Overview

Type: Discrete  
Format: numeric  
Width: 7  
Decimals: 0  
Range: 1-2000000

Valid cases: 8387  
Invalid: 6014161

Self-employment income q 3.19, calc PER MONTH by SSA, OHS 94. Incl  
imputes. (selfempincome2)

File: palmsv3.3incomes-stata11

#### Overview



Type: Discrete  
 Format: numeric  
 Width: 6  
 Decimals: 0  
 Range: 0-888888

Valid cases: 103922  
 Invalid: 5918626

The original net income figure is imputed, OHS 94. See Wittenberg (2008) (imputed)  
 File: palmsv3.3incomes-stata11

#### Overview

Type: Discrete  
 Format: numeric  
 Width: 1  
 Decimals: 0  
 Range: 0-1

Valid cases: 103922  
 Invalid: 5918626

Est net income per month for employees, OHS 94. See Wittenberg (2008) (salary\_impute)  
 File: palmsv3.3incomes-stata11

#### Overview

Type: Continuous  
 Format: numeric  
 Width: 5  
 Decimals: 0  
 Range: 0-52500

Valid cases: 29988  
 Invalid: 5992560  
 Minimum: 0  
 Maximum: 52500

The orig gross income from own acc figure is imputed, OHS 94. See Wittenberg (2008) (impute\_gross)  
 File: palmsv3.3incomes-stata11

#### Overview

Type: Discrete  
 Format: numeric  
 Width: 1  
 Decimals: 0  
 Range: 0-1

Valid cases: 103922  
 Invalid: 5918626

Est gross income p/month in own acct activities, OHS 94. See Wittenberg (2008) (emp\_impute)  
 File: palmsv3.3incomes-stata11

#### Overview

Type: Continuous  
 Format: numeric  
 Width: 6  
 Decimals: 0  
 Range: 0-303333

Valid cases: 103897  
 Invalid: 5918651  
 Minimum: 0  
 Maximum: 303333

## Was salary/pay total pay or take home pay? (deduc1)

File: palmsv3.3incomes-stata11

**Overview**

Type: Discrete  
 Format: numeric  
 Width: 1  
 Decimals: 0  
 Range: 0-2

Valid cases: 103922  
 Invalid: 5918626

## Deduction amount (deducamt1)

File: palmsv3.3incomes-stata11

**Overview**

Type: Continuous  
 Format: numeric  
 Width: 5  
 Decimals: 0  
 Range: 0-12000

Valid cases: 103221  
 Invalid: 5919327  
 Minimum: 0  
 Maximum: 12000

## Total income at main job: category, for self-employed 99 OHS (selfempinccat1)

File: palmsv3.3incomes-stata11

**Overview**

Type: Discrete  
 Format: numeric  
 Width: 4  
 Decimals: 0  
 Range: 1-8888

Valid cases: 70715  
 Invalid: 5951833

## Total income at main job: category, for self-employed 96-98 OHS (selfempinccat2)

File: palmsv3.3incomes-stata11

**Overview**

Type: Discrete  
 Format: numeric  
 Width: 2  
 Decimals: 0  
 Range: 0-16

Valid cases: 5387  
 Invalid: 6017161

## Total income at main job: category, for self-employed 95 OHS (selfempinccat3)

File: palmsv3.3incomes-stata11

**Overview**

Type: Discrete  
 Format: numeric  
 Width: 2  
 Decimals: 0  
 Range: 0-30

Valid cases: 103332  
 Invalid: 5919216

## Total MONTHLY income at main job: category, for self-employed 94 OHS (selfempinccat4) File: palmsv3.3incomes-stata11

### Overview

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: 0-14

Valid cases: 103922  
Invalid: 5918626

## Expenses on goods in self-employment, OHS 96-98 (selfempexpgoods) File: palmsv3.3incomes-stata11

### Overview

Type: Continuous  
Format: numeric  
Width: 6  
Decimals: 0  
Range: 0-500000

Valid cases: 14191  
Invalid: 6008357  
Minimum: 0  
Maximum: 500000

## Expenses on remuneration in self-employment, OHS 96-98 (selfempexprenum) File: palmsv3.3incomes-stata11

### Overview

Type: Continuous  
Format: numeric  
Width: 6  
Decimals: 0  
Range: 0-450000

Valid cases: 14132  
Invalid: 6008416  
Minimum: 0  
Maximum: 450000

## Other Expenses in self-employment, OHS 96-98 (selfempexpoth) File: palmsv3.3incomes-stata11

### Overview

Type: Continuous  
Format: numeric  
Width: 6  
Decimals: 0  
Range: 0-500000

Valid cases: 14112  
Invalid: 6008436  
Minimum: 0  
Maximum: 500000

## Total Expenses in self-employment, OHS 94 and 95 (selfempexpall) File: palmsv3.3incomes-stata11

### Overview

Type: Continuous  
Format: numeric  
Width: 5  
Decimals: 0  
Range: 0-99998

Valid cases: 206724  
Invalid: 5815824  
Minimum: 0  
Maximum: 99998

## Salary time period for employees (QLFS only) (jobsalperiod2)

File: palmsv3.3incomes-stata11

**Overview**

Type: Discrete  
 Format: numeric  
 Width: 1  
 Decimals: 0  
 Range: 0-9

Valid cases: 1083606  
 Invalid: 4938942

## Tips or Commission (QLFS only) (tipscomm)

File: palmsv3.3incomes-stata11

**Overview**

Type: Discrete  
 Format: numeric  
 Width: 1  
 Decimals: 0  
 Range: 0-9

Valid cases: 1036781  
 Invalid: 4985767

## Monthly salary/wage for employees (QLFS only, includes imputed values) (monthlyjobsalary)

File: palmsv3.3incomes-stata11

**Overview**

Type: Discrete  
 Format: numeric  
 Width: 7  
 Decimals: 0  
 Range: 0-2253333

Valid cases: 498178  
 Invalid: 5524370

## Employee refused or doesn't know salary amt (QLFS 2010 only) (salaryrefusedontknow)

File: palmsv3.3incomes-stata11

**Overview**

Type: Discrete  
 Format: numeric  
 Width: 1  
 Decimals: 0  
 Range: 0-2

Valid cases: 342470  
 Invalid: 5680078

## Earnings period for self-employed(QLFS only) (selfemppayperiod2)

File: palmsv3.3incomes-stata11

**Overview**

Type: Discrete  
 Format: numeric  
 Width: 1  
 Decimals: 0  
 Range: 0-9

Valid cases: 745711  
 Invalid: 5276837

Monthly earnings for self-employed (QLFS only, includes imputed values) (monthlyjobearn)

File: palmsv3.3incomes-stata11

#### Overview

Type: Discrete  
Format: numeric  
Width: 8  
Decimals: 0  
Range: 0-88888888

Valid cases: 89728  
Invalid: 5932820

Self-employed refused or doesn't know earnings amt (QLFS 2010 only) (earningsrefusedontknow)

File: palmsv3.3incomes-stata11

#### Overview

Type: Discrete  
Format: numeric  
Width: 1  
Decimals: 0  
Range: 0-2

Valid cases: 342470  
Invalid: 5680078

Earnings category for wage and self-employed (QLFS only) (earningscat)

File: palmsv3.3incomes-stata11

#### Overview

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: 0-99

Valid cases: 1152917  
Invalid: 4869631

(pslstd\_earnings)

File: palmsv3.3incomes-stata11

#### Overview

Type: Continuous  
Format: numeric  
Width: 6  
Decimals: 0  
Range: 0-180000

Valid cases: 8592  
Invalid: 6013956  
Minimum: 0  
Maximum: 180000

household id variable, as in original data (uqnr)

File: palmsv3.3miincomes-stata11

#### Overview

Type: Discrete  
Format: character  
Width: 18

Valid cases: 1217213  
Invalid: 0

Person number (personnr)

File: palmsv3.3miincomes-stata11

#### Overview

Type: Continuous  
Format: numeric  
Width: 2  
Decimals: 0  
Range: 1-27

Valid cases: 1217213  
Invalid: 0  
Minimum: 1  
Maximum: 27

Survey wave, PSLSD 1993=0, OHS 1994=1, QLFS Dec 2015=54  
(wave)

File: palmsv3.3miincomes-stata11

#### Overview

Type: Discrete  
Format: numeric  
Width: 2  
Decimals: 0  
Range: 0-68

Valid cases: 1217213  
Invalid: 0

Real monthly earnings, in Dec 2017 rands. (realearnings)

File: palmsv3.3miincomes-stata11

#### Overview

Type: Continuous  
Format: numeric  
Width: 10  
Decimals: 0  
Range: 0-1547212.25  
Invalid: 10000001

Valid cases: 960203  
Invalid: 257010  
Minimum: 0  
Maximum: 1547212.3

(imputed\_real\_v1)

File: palmsv3.3miincomes-stata11

#### Overview

Type: Continuous  
Format: numeric  
Width: 10  
Decimals: 0  
Range: 0-1547212.25  
Invalid: 10000001

Valid cases: 1176146  
Invalid: 41067  
Minimum: 0  
Maximum: 1547212.3

(imputed\_real\_v2)

File: palmsv3.3miincomes-stata11

**Overview**

Type: Continuous  
 Format: numeric  
 Width: 10  
 Decimals: 0  
 Range: 0-1547212.25  
 Invalid: 10000001

Valid cases: 1176146  
 Invalid: 41067  
 Minimum: 0  
 Maximum: 1547212.3

(imputed\_real\_v3)

File: palmsv3.3miincomes-stata11

**Overview**

Type: Continuous  
 Format: numeric  
 Width: 10  
 Decimals: 0  
 Range: 0-1547212.25  
 Invalid: 10000001

Valid cases: 1176146  
 Invalid: 41067  
 Minimum: 0  
 Maximum: 1547212.3

(imputed\_real\_v4)

File: palmsv3.3miincomes-stata11

**Overview**

Type: Continuous  
 Format: numeric  
 Width: 10  
 Decimals: 0  
 Range: 0-1547212.25  
 Invalid: 10000001

Valid cases: 1176146  
 Invalid: 41067  
 Minimum: 0  
 Maximum: 1547212.3

(imputed\_real\_v5)

File: palmsv3.3miincomes-stata11

**Overview**

Type: Continuous  
 Format: numeric  
 Width: 10  
 Decimals: 0  
 Range: 0-1547212.25  
 Invalid: 10000001

Valid cases: 1176146  
 Invalid: 41067  
 Minimum: 0  
 Maximum: 1547212.3

(imputed\_real\_v6)

File: palmsv3.3miincomes-stata11

**Overview**

Type: Continuous  
 Format: numeric  
 Width: 10  
 Decimals: 0  
 Range: 0-1547212.25  
 Invalid: 10000001

Valid cases: 1176146  
 Invalid: 41067  
 Minimum: 0  
 Maximum: 1547212.3

(imputed\_real\_v7)

File: palmsv3.3miincomes-stata11

**Overview**

Type: Continuous  
 Format: numeric  
 Width: 10  
 Decimals: 0  
 Range: 0-1547212.25  
 Invalid: 10000001

Valid cases: 1176146  
 Invalid: 41067  
 Minimum: 0  
 Maximum: 1547212.3

(imputed\_real\_v8)

File: palmsv3.3miincomes-stata11

**Overview**

Type: Continuous  
 Format: numeric  
 Width: 10  
 Decimals: 0  
 Range: 0-1547212.25  
 Invalid: 10000001

Valid cases: 1176146  
 Invalid: 41067  
 Minimum: 0  
 Maximum: 1547212.3

(imputed\_real\_v9)

File: palmsv3.3miincomes-stata11

**Overview**

Type: Continuous  
 Format: numeric  
 Width: 10  
 Decimals: 0  
 Range: 0-1547212.25  
 Invalid: 10000001

Valid cases: 1176146  
 Invalid: 41067  
 Minimum: 0  
 Maximum: 1547212.3

(imputed\_real\_v10)

File: palmsv3.3miincomes-stata11

**Overview**

Type: Continuous  
 Format: numeric  
 Width: 10  
 Decimals: 0  
 Range: 0-1547212.25  
 Invalid: 10000001

Valid cases: 1176146  
 Invalid: 41067  
 Minimum: 0  
 Maximum: 1547212.3

(imputed\_real)

File: palmsv3.3miincomes-stata11

**Overview**

Type: Continuous  
 Format: numeric  
 Width: 10  
 Decimals: 0  
 Range: 0-1547212.25  
 Invalid: 10000001

Valid cases: 956860  
 Invalid: 260353  
 Minimum: 0  
 Maximum: 1547212.3



(imputed\_nom)

File: palmsv3.3miincomes-stata11

**Overview**

Type: Continuous	Valid cases: 956860
Format: numeric	Invalid: 260353
Width: 7	Minimum: 0
Decimals: 0	Maximum: 1570500
Range: 0-1570500	

(imputed\_nom\_v1)

File: palmsv3.3miincomes-stata11

**Overview**

Type: Continuous	Valid cases: 1176146
Format: numeric	Invalid: 41067
Width: 7	Minimum: 0
Decimals: 0	Maximum: 1570500
Range: 0-1570500	

(imputed\_nom\_v2)

File: palmsv3.3miincomes-stata11

**Overview**

Type: Continuous	Valid cases: 1176146
Format: numeric	Invalid: 41067
Width: 7	Minimum: 0
Decimals: 0	Maximum: 1570500
Range: 0-1570500	

(imputed\_nom\_v3)

File: palmsv3.3miincomes-stata11

**Overview**

Type: Continuous	Valid cases: 1176146
Format: numeric	Invalid: 41067
Width: 7	Minimum: 0
Decimals: 0	Maximum: 1570500
Range: 0-1570500	

(imputed\_nom\_v4)

File: palmsv3.3miincomes-stata11

**Overview**

Type: Continuous	Valid cases: 1176146
Format: numeric	Invalid: 41067
Width: 7	Minimum: 0
Decimals: 0	Maximum: 1570500
Range: 0-1570500	

(imputed\_nom\_v5)

File: palmsv3.3miincomes-stata11

**Overview**

Type: Continuous	Valid cases: 1176146
Format: numeric	Invalid: 41067
Width: 7	Minimum: 0
Decimals: 0	Maximum: 1570500
Range: 0-1570500	

(imputed\_nom\_v6)

File: palmsv3.3miincomes-stata11

**Overview**

Type: Continuous	Valid cases: 1176146
Format: numeric	Invalid: 41067
Width: 7	Minimum: 0
Decimals: 0	Maximum: 1570500
Range: 0-1570500	

(imputed\_nom\_v7)

File: palmsv3.3miincomes-stata11

**Overview**

Type: Continuous	Valid cases: 1176146
Format: numeric	Invalid: 41067
Width: 7	Minimum: 0
Decimals: 0	Maximum: 1570500
Range: 0-1570500	

(imputed\_nom\_v8)

File: palmsv3.3miincomes-stata11

**Overview**

Type: Continuous	Valid cases: 1176146
Format: numeric	Invalid: 41067
Width: 7	Minimum: 0
Decimals: 0	Maximum: 1570500
Range: 0-1570500	

(imputed\_nom\_v9)

File: palmsv3.3miincomes-stata11

**Overview**

Type: Continuous	Valid cases: 1176146
Format: numeric	Invalid: 41067
Width: 7	Minimum: 0
Decimals: 0	Maximum: 1570500
Range: 0-1570500	

(imputed\_nom\_v10)

File: palmsv3.3miincomes-stata11

#### Overview

Type: Continuous  
Format: numeric  
Width: 7  
Decimals: 0  
Range: 0-1570500

Valid cases: 1176146  
Invalid: 41067  
Minimum: 0  
Maximum: 1570500

# Documentation

## Technical documents

### A Guide to version 3.3 of the Post-Apartheid Labour Market Series

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Title	A Guide to version 3.3 of the Post-Apartheid Labour Market Series
Author(s)	Kerr, Andrew
Date	2019-01-01
Country	South Africa
Language	English
Publisher(s)	DataFirst
Description	This document describes the PALMS version 3.3 (1994-2019). It replaces the original guide for version 3.3, and provides information on an error in version 3.2 which was corrected in version v3.3.
Filename	palms-v3.3-1993-2019-guide-v3.pdf

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### Codebooks and Labels for PALMS

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Title	Codebooks and Labels for PALMS
Country	South Africa
Language	English
Filename	codebooks and labels for PALMSv3.3.zip

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## Other materials

### Stata Do-files for PALMS

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Title	Stata Do-files for PALMS
Country	South Africa
Language	English
Filename	Do files for PALMSv3.3.zip

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