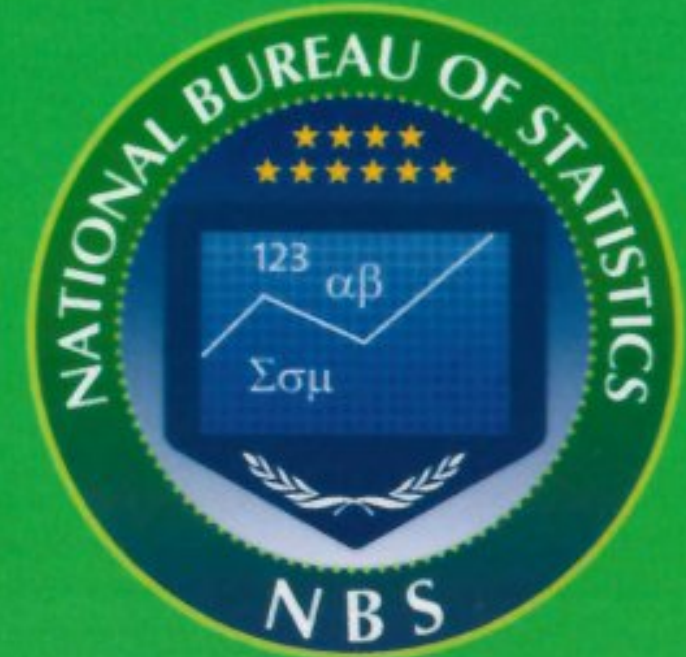


South Sudan Population Estimation Survey 2021: Summary Report Modelled Estimates



April, 2023 Juba, South Sudan



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Forward

It is my pleasure to present this booklet of Population Estimation Survey (PES) 2021. The booklet is intended to serve today's Launch of Modelled Population Estimates from the PES by the Vice President of the Republic of South Sudan and Chairman of Economic Cluster, HE. Dr James Wani Igga. This launch follows the recent approval of PES results by the Council of Ministers chaired by H.E Salva Kiir Mayardit, the President of the Republic of South Sudan, in its regular meeting held on 10th March, 2023. The conduct of the PES came as a result of an urgent need for high-quality, timely and credible evidence-based statistics necessary for decision-making and policy-formulation for implementing the Revitalized Agreement on Conflict Resolution in South Sudan (R-ACRSS).

You may be aware that the last National Population and Housing census was conducted in 2008 and the Country has been relying on the population projections to inform development planning. However, the data from the census was outdated and overtaken by events. Due to lack of resources and insecurity, the country has not conducted a recent population and housing census. It is against this background; the PES was undertaken to provide the much-needed population data and information. The PES used the recent advances including satellite imagery, ge-positioning tools and other statistical methods that have computational power which enables the development and application of approaches that can estimate population distributions at spatial scales across entire country. This booklet is a summary of modelled population estimates at national, state, county and payam levels.

The NBS lends gratitude to the National Government, State and Administrative Area Governments for their support and cooperation in conducting the survey as well as the government institutions represented on the technical committee for providing technical oversight during the whole process of the survey. The NBS greatly values the technical and financial support particularly from United Nations Population Fund (UNFPA) and other UN Agencies (UNDP, WFP, FAO, UNWOMEN, UNAIDS, UNICEF) for financial and in-kind contribution in form of tablets as well as bilateral donors like Sweden, Norway, Irish Aid that provided financial support through UNFPA. The NBS is particularly grateful to all field staffs at Headquarters and State levels for their relentless efforts in making the PES 2021 a reality. The support from UNFPA Hqs, Bill and Melinda Gates, UKaid, WorldPop/Flowmider.org for supporting the Geo-Referenced Infrastructure and Demographic Data for Development (GRID³) project that resulted in the conduct of the PES is highly appreciated.

Without your collective efforts, I must sincerely acknowledge, the PES 2021 would not have seen the light of the day. This PES data and information, therefore, will be available for policy makers and other end users to access and use data so as to make South Sudan a better place to live and work. The next step will be the compilation of the detailed report that provides analysis of demographic and socio-economic characteristics, dissemination and use of the data to generate user cases, including the demographic dividend modelling.

Isaiah Chol Aruai,

Chairperson National Bureau of Statistics (NBS)

Juba, South Sudan



1.0 Introduction

Population numbers at local levels are fundamental data for many applications, including the delivery and planning of services, election preparation, and response to disasters. National population and housing censuses are the primary source for such data, but in resource-poor settings and when facing security challenges, recent and reliable demographic data at subnational levels can be a challenge to collect. National population and housing census data can be outdated, inaccurate, or missing key groups or areas, while registry data might be lacking or incomplete. Moreover, at local scales, accurate boundary data are often limited, and high rates of migration and urban growth make existing data quickly outdated. Here we review past and ongoing work aimed at producing local-scale population estimates, and discuss how new technologies are enabling robust and cost-effective solutions.

Recent advances in the availability of detailed satellite imagery, geo-positioning tools for field surveys, statistical methods, and computational power are enabling the development and application of approaches that can estimate population distributions at fine spatial scales across entire countries. This document outlines a proposal for a new data collection and population modeling effort to support South Sudan.

1.1 Background

The Republic of South Sudan was formerly Southern Sudan, an autonomous region of Sudan during the period 2005 to 2011, formed as a result of the Comprehensive Peace Agreement (CPA) in 2005. On July 9, 2011, South Sudan became an independent country, after the historic referendum on self-determination on January 9, 2011, when people of the region voted overwhelmingly for separation. According to the 2008 Census, the population of South Sudan was 8.26 million. Of this, 4.29 million were male and 3.97 million were female (National Bureau of Statistics, 2012).

The population distribution of South Sudan has substantially changed in recent years, including displacement internally and externally across borders, and particularly in the period following the renewed outbreak of conflict in 2013 and 2016. The Revitalized Peace Agreement for the Resolution of Conflict in South Sudan, signed in late 2018, has created a new dynamic in terms of population movement. There are now indications that displaced populations are returning to previously abandoned areas and other parts of South Sudan. Conflict and insecurity have long limited large-scale data collection activities in the country. The scarcity of population data has resulted in significant uncertainty about the number of current and future populations, and a greater need for intercensal estimates.

1.2 The Population Estimation Survey in South Sudan

The Government of South Sudan through the National Bureau of Statistics and support from UNFPA and other partners conducted a National Population Estimate Survey from 28th May to 15th June 2021 in all 10 States and three Administrative Areas with Survey reference night was midnight of 27th May 2021. The Survey was to provide accurate population estimates and other demographic and Socio-economic characteristics of the inhabitants. The information generated would contribute to evidence-based decision-making in matters of national and sub-national development planning.

1.3 PES Objectives

The specific objectives of the PES were to:

- ✦ Generate reliable Modelled population estimates on population density and basic demographic characteristics for all levels of administration;
- ✦ Generate indicators for monitoring and evaluation of programs prior to population and Housing census, Demographic & Health Survey and Demographic Dividend Study are conducted in South Sudan;
- ✦ Strengthened the capacity of NBS in the use of Computer Assisted Personal Interview (CAPI) applications & high-resolution satellite imagery and how to analyze large datasets obtained from such Surveys;
- ✦ Provide information to be used for development of advocacy materials for policy makers.

1.4 Expected benefits of PES

The Modelled Population Estimates will provide data and information that can be used for:

- ✦ Determining census frame for the 2020 round of national census and other national surveys;
- ✦ National and sector planning for decision making on provision of services;
- ✦ Monitoring the performance of National Development Strategy as well as the Sustainable Development Goals;
- ✦ Drafting policy briefs for policy makers;
- ✦ Reference points for Research and dissemination.

1.5 Methodology

A total 1,536 sample sites have been selected in areas across South Sudan using a two-stage stratified random sampling. The Population Estimation Survey was designed based on satellite-derived information and a system of equally sized grid squares. Densely settled and sparsely settled sampling domains are created based on the density of building structures extracted from satellite imagery in order to provide the most up-to-date definition of densely settled areas. The target population will be all households, household members and residents within the bounds of the sites. The population estimate is a combination of a baseline population modelled from the PES household data and the estimates of internally displaced persons from Displacement Tracking Matrix.

The population estimation approach used in South Sudan is a two-step method (Bottom-up) to first predict a baseline population and then adjust that distribution to reflect the likely internal displacement:

- ✦ Baseline population model- to estimate the population in a location before the addition of IDPs, hence only counts of usual residents;
- ✦ Predicting the population outside the small sites enumerated during the PES draws on information in the structure of the statistical models as well as from the modelled relationships with covariate data;
- ✦ Adjusted population estimate-This is a baseline Pop model that additionally accounts for the IDPs;

- ✦ Aggregate population totals-The baseline population predictions and IDP adjustments were made on a regular grid at a spatial resolution of approximately 100 m x 100 m (Densely settled) where in sparsely settled (200mx200m) to account for the larger population area;
- ✦ Age and sex distribution- In addition to the total population, the age and sex structure were statistically modelled.

1.6 Technical partners for PES

Under the leadership of the National Bureau of Statistics and other partners that provided technical inputs into the design, conduct and analysis of the PES include:

- ✦ Ministries Departments and Agencies of the Republic of South Sudan
- ✦ Academic institutions (University of Juba, University of Upper Nile)
- ✦ University of Southampton
- ✦ World Pop
- ✦ UNFPA and other UN Partners
- ✦ Columbia University

1.7 Financial and Logistical Support

Financial support for the PES was provided by UNFPA, Sweden, Irish Aid, Norway, UNDP, UN Women, UNAIDS, WFP. Other UNG agencies, including UNICEF, WFP, UNHCR, IOM and UNFAO provided logistical support in form of tablets and vehicles.

2.0 Challenges of PES

The challenges encountered by the PES include:

- ✦ Insufficient budget from government and development partners led to the delay in the finalization of the population estimation process;
- ✦ Flooding, local insecurity posed challenges related to EAs accessibility during the data collection;
- ✦ During PES data collection, some technical, logistical, security boundary and political hitches affected timely finalization of the Survey.

3.0 Results

3.1 Population Eestimates for States and Administrative areas

State/Administrative Area	Modelled Population Estimates
Upper Nile State	790,147
Jonglei State	791,105
Unity State	892,780
Western Bhar El Ghazal State	562,555
Northern Bar El Ghazal State	1,924,342
Warrap State	2,639,484
Lakes State	1,265,473
Western Equatoria State	663,233
Central Equatoria	1,324,521
Eastern Equatoria	981,902
Greater Pibor Administrative Area	240,102
Ruweng Administrative Area	234,416
Abyei Administrative Area	133,955
Total for South Sudan	12,444,018

3.2 Population Modelled estimates by Counties

State	County	Modelled Population Estimates
Upper Nile State	Akoka	7,823
	Baliet	21,927
	Fashoda	52,384
	Longachuk	44,205
	Luakiny/Nasir	71,781
	Maban	267,494
	Maiwut	35,840
	Malakal	76,231
	Manyo	19,859
	Melut	65,141
	Panyikang	29,778
	Renk	38,976
	Ulang	58,708

Total Upper Nile		790,147
Jonglei State	Akobo	90,840
	Ayod	114,077
	Bor South	160,878
	Pigi	29,720
	Duk	56,186
	Nyirol	63,179
	Old Fagak	109,657
	Twic East	51,269
	Uror	115,297
Total Jonglei		791,105
Unity State	Guit	49,581
	KOch	55,477
	Leer	92,228
	Mayendit	66,163
	Mayom	181,438
	Panyijiar	189,209
	Rubkuna	308,684
Total of Unity		892,780
Greater Pibor Administrative Area	Pibor	219,745
	Pochalla	20,357
Total of G. Pibor Admin. Area		240,102
Ruweng Administrative Area	Abiemnhom	40,766
	Pariang	193,650
Total of Ruweng Admin. Area		133,955
Western Bhar El Ghazal State	Jur River	245,724
	Raja	108,344
	Wau	208,487
Total of Western Bhar El Gazal		562,555
Northern Bhar El Ghazal State	Aweil Center	124,989
	Aweil East	807,041
	Aweil North	362,132
	Aweil South	239,810
	Aweil West	390,370
Total of NBG		1,924,342
Warrap State	Gogrial East	273,977
	Gogrial West	582,379
	Tonji East	405,663
	Tonj North	651,354
	Tonj South	292,316
	Twic	433,795
Total of Warrap		2,639,484
Lakes State	Awerial	144,680
	Cueibet	296,844
	Rumbek Centre	134,572
	Rumbek East	227,973
	Rumbek North	73,963

Total Upper Nile		790,147
Jonglei State	Akobo	90,840
	Ayod	114,077
	Bor South	160,878
	Pigi	29,720
	Duk	56,186
	Nyirol	63,179
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Total of Warrap		2,639,484
Lakes State	Awerial	144,680
	Cueibet	296,844
	Rumbek Centre	134,572
	Rumbek East	227,973
	Rumbek North	73,963

	Wulu	69,428
	Yirol East	136,988
	Yirol West	181,025
Total of Lakes		1,265,473
Abyei Administrative Area		133,958
Central Equatoria State	Juba	690,918
	Kajo-keji	86,973
	Lainya	82,153
	Morobo	39,644
	Trerkeka	242,992
	Yei	181,841
Total of Central Equatoria		1,324,521
Western Equatoria State	Ezo	49,341
	Ibba	34,992
	Maridi	87,140
	Mundri East	80,189
	Mundri West	52,385
	Mvolo	65,339
	Nagero	26,738
	Nzara	69,045
	Tambura	59,088
	Yambio	138,976
Total of Western Equatoria		663,233
Eastern Equatoria State	Budi	101,474
	Ikotos	61,228
	Kapoeta East	319,112
	Kapoeta North	103,175
	Kapoeta South	67,826
	Lafon/Lopa	85,212
	Magwi	145,384
	Torit	98,491
Total of Eastern Equatoria		981,902

3.3 PES Payam Modelled Population Estimates 2021

State	County	Payam	Payam modelled population estimates
Upper Nille	Akoka		7823
	Baliet	Abwong	173
	Baliet	Adong	1272
	Baliet	Akotweng	5471
	Baliet	Gel Achiel	1361
	Baliet	Kuel	104
	Baliet	Nyongkuach	1335
	Baliet	Nyongrial	2446
	Baliet	Rom	5034
	Baliet	Wunthow	4732
	Fashoda	Dethok	13673
	Fashoda	Kodok	16520
	Fashoda	Kodok Town	5582
	Fashoda	Lul	16609
	Longochuk	Dajo	3934
	Longochuk	Guelguk	8225
	Longochuk	Longochuk	1398
	Longochuk	Malual	11171
	Longochuk	Pamach	10920
	Longochuk	Wudier	8557
	Luakpiny/Nasir	Dingkar	8186
	Luakpiny/Nasir	Jikmir	14333
	Luakpiny/Nasir	Kiech Kuon	12695
	Luakpiny/Nasir	Kuerenge-Ke	12002
	Luakpiny/Nasir	Mading	7693
	Luakpiny/Nasir	Maker	7078
	Luakpiny/Nasir	Nasir	2169
	Luakpiny/Nasir	Roam	7624
	Maban	Banashowa	42323
	Maban	Boung	29741
	Maban	Jinkuata	151453
	Maban	Jinmakda	25650
	Maban	Khor El Amer	18327
	Maiwut	Jekow	8017
	Maiwut	Jotoma	6611
	Maiwut	Kigila	2091
	Maiwut	Maiwut	10048
	Maiwut	Olang	5262
	Maiwut	Pagak	3810
	Malakal	Central Malakal	5884
	Malakal	Eastern Malakal	2605

	Malakal	Lelo	42247
	Malakal	Northern Malakal	18273
	Malakal	Ogot	1973
	Malakal	Southern Malakal	5249
	Manyo	Adhidwoi	8130
	Manyo	Kaka	7069
	Manyo	Magenist	2175
	Manyo	Wedakona	2486
	Melut	Bimachuk	5913
	Melut	Galdora	18059
	Melut	Melut	14318
	Melut	Paloch	18518
	Melut	Panomdit	1506
	Melut	Wunamum	6828
	Panyikang	Anakdiar	1201
	Panyikang	Dheteim	2235
	Panyikang	Pakang	732
	Panyikang	Panyidwoi	521
	Panyikang	Panyikang	5629
	Panyikang	Tonga	19461
	Renk	Chemmedi	5507
	Renk	Geger	6234
	Renk	Jalhak	12727
	Renk	North Renk	11210
	Renk	South Renk	3298
	Ulang	Doma	12096
	Ulang	Kurmuot	12896
	Ulang	Ulang	17549
	Ulang	Yomding	16167
Jonglei	Akobo	Alali	899
	Akobo	Barmach	10106
	Akobo	Bilkey	27233
	Akobo	Buong	7075
	Akobo	Dengjok	14424
	Akobo	Diror	17954
	Akobo	Nyandit	3107
	Akobo	Walgak	10041
	Ayod	Ayod	4998
	Ayod	Kuach-deng	10263
	Ayod	Kurwai	14394
	Ayod	Mogok	19447
	Ayod	Pagil	14914
	Ayod	Pajiek	27490
	Ayod	Wau	22571
	Bor South	Anyidi	10045
	Bor South	Baidit	13112

	Bor South	Bor	97900
Jonglei	Bor South	Jalle	14050
	Bor South	Kolnyang	14773
	Bor South	Makuach	10998
	Pigi	Alam	264
	Pigi	Atar	10514
	Pigi	Belewach	NA
	Pigi	Kaldak	3045
	Pigi	Korwach	11481
	Pigi	Mareng	1002
	Pigi	Nyainthokmalual	3343
	Pigi	Wunlem	72
	Duk	Ageer	12967
	Duk	Dongchak	6195
	Duk	Padiet	19188
	Duk	Pagak	7567
	Duk	Panyang	7926
	Duk	Payuel	2344
	Nyirol	Chuil	6409
	Nyirol	Nyambor	10095
	Nyirol	Pading	11658
	Nyirol	Pulturuk	9114
	Nyirol	Thol	16102
	Nyirol	Waat	9802
	Old Fangak	Manajang	43711
	Old Fangak	Mareang	9830
	Old Fangak	Old Fangak	18513
	Old Fangak	Paguer	32250
	Old Fangak	Phom	5353
	Twic East	Ajuong	7582
	Twic East	Kongor	11793
	Twic East	Lith	2417
	Twic East	Nyuak	18256
	Twic East	Pakeer	11221
	Uror	Karam	8945
	Uror	Motot	17468
	Uror	Pathai	21207
	Uror	Payai	16321
	Uror	Pieri	19593
	Uror	Puolchuol	7557
	Uror	Tiam	7173
	Uror	Wuror	17032

State	County	Payam	Payam modelled population estimates
Unity	Guit	Guit	2592
	Guit	Kedad	16605
	Guit	Kuach	11580
Unity	Guit	Kuerguini	2719
	Guit	Niemni	6601
	Guit	Nyathoar	2623
	Guit	Wathnyona	6862
	Koch	Boaw	10289
	Koch	Gany	2509
	Koch	Jaak	13074
	Koch	Kuachlual	12355
	Koch	Ngony	13327
	Koch	Norbor	2102
	Koch	Pakur	1822
	Leer	Adok	23212
	Leer	Bou	8585
	Leer	Dok	20581
	Leer	Guat	5907
	Leer	Juong Kang	4200
	Leer	Padeah	8294
	Leer	Pilieny	5104
	Leer	Yang	16344
	Mayendit	Bor	8557
	Mayendit	Dablual	15423
	Mayendit	Luom	5677
	Mayendit	Maal	6628
	Mayendit	Pabuong	1343
	Mayendit	Rubkuay	15607
	Mayendit	Thaker	7557
	Mayendit	Tharjiath	759
	Mayendit	Tutnyang	4612
	Mayom	Bieh	7297
	Mayom	Kuerbuone	23159
	Mayom	Kueryiek	11061
	Mayom	Mankien	19340
	Mayom	Ngop	12322
	Mayom	Pup	34469
	Mayom	Riak	23302
	Mayom	Ruathnyibuol	8338
	Mayom	Wangbuor I	1042
	Mayom	Wangbuor II	NA
	Mayom	Wangbuor III	18358
	Mayom	Wangkei	22749
	Panyijiar	Ganyliel	26627

	Panyijiar	Kol	13216
	Panyijiar	Mayom	5029
	Panyijiar	Nyal	23754
	Panyijiar	Pachaar	20739
	Panyijiar	Pachak	7445
Unity	Panyijiar	Pachienjok	7311
	Panyijiar	Panyijiar	7000
	Panyijiar	Thoarnhoum	15682
	Panyijiar	Tiap	12405
	Rubkona	Bentiu Town	45986
	Rubkona	Budaang	44786
	Rubkona	Dhorbor	21832
	Rubkona	Kaljak	11941
	Rubkona	Ngop	2487
	Rubkona	Nhialdiu	27008
	Rubkona	Panhiany	6760
	Rubkona	Rubkona	145379
	Rubkona	Wathjaak	2504
Administrative Area	County	Payam	Payam modelled population estimates
Greater Pibor Admin Area	Pibor	Boma	9434
	Pibor	Gumuruk	56647
	Pibor	Kiziongora	16464
	Pibor	Lekuangole	73140
	Pibor	Marow	7001
	Pibor	Miwono	1192
	Pibor	Pibor	38078
	Pibor	Verteth	17788
	Pochalla	Adongo	7951
	Pochalla	Akiela	373
	Pochalla	Burator	1618
	Pochalla	Omiela	1066
	Pochalla	Pochalla	9349
Ruweng Admin Area	Abiemnhom	Abiemnhom	18569
	Abiemnhom	Aworpiny	2282
	Abiemnhom	Manjoga	15403
	Abiemnhom	Panyang	4511
	Pariang	Aliiny	108171
	Pariang	Biu	16389
	Pariang	Jamjang	27597
	Pariang	Nyeel	6144
	Pariang	Pariang	13226
	Pariang	Werthen	16945
	Pariang	Wunkur	5177

State	County	Payam	Payam modelled population estimates
Western Bahr el Ghazal	Jur River	Kangi	48255
	Jur River	Kuajiena	53145
	Jur River	Marial Bai	45452
	Jur River	Rocrocdong	36371
Western Bahr el Ghazal	Jur River	Udici	34025
	Jur River	Wau Bai	28477
	Raga	Ere	29839
	Raga	Kafakengi	55933
	Raga	Raga	8881
	Raga	Ringi	4865
	Raga	Uyujuku	8825
	Wau	Bagari	42542
	Wau	Besselia	21386
	Wau	Kpaile	5270
	Wau	Wau North	77572
	Wau	Wau South	61716
			Payam modelled population estimates
State	County	Payam	Payam modelled population estimates
Northern Bahr el Ghazal	Aweil Centre	Abul	7059
	Aweil Centre	Achana	2124
	Aweil Centre	Aroyo	17042
	Aweil Centre	Awiil	28326
	Aweil Centre	Bar Mayen	30131
	Aweil Centre	Chel South	16532
	Aweil Centre	Nyalath	23775
	Aweil East	Baach	230476
	Aweil East	Madhol	135866
	Aweil East	Malual-bai	109385
	Aweil East	Mangar-tong I	67130
	Aweil East	Mangar-tong II	30706
	Aweil East	Mangok	54106
	Aweil East	Wunlang	101471
	Aweil East	Yargot	77900
	Aweil North	Ariath	33730
	Aweil North	Malual Centre	51357
	Aweil North	Malual East	140335
	Aweil North	Malual North	98910
	Aweil North	Malual West	37799
	Aweil South	Ayai	16919
	Aweil South	Gakrol	26470
	Aweil South	Nyieth	18166
	Aweil South	Nyocawany I	15414
	Aweil South	Nyocawany II	22756

	Aweil South	Panthou	41912
	Aweil South	Tar-weng	28249
	Aweil South	Tiar-aleit	42554
	Aweil South	Wathmuok	27370
	Aweil West	Achana	8557
	Aweil West	Aweil Town	65695
	Aweil West	Ayat Centre	20632
	Aweil West	Ayat East	41488
	Aweil West	Ayat West	35094
	Aweil West	Gomjuer Centre	96261
	Aweil West	Gomjuer East	21092
	Aweil West	Gomjuer West	12632
	Aweil West	Mariem East	46876
	Aweil West	Mariem West	42044
			Payam modelled population estimates
State	County	Payam	
Warrap	Gogrial East	Nyang	14052
Warrap	Gogrial East	Pathuon East	38793
Warrap	Gogrial East	Pathuon West	83195
Warrap	Gogrial East	Toch East	76516
Warrap	Gogrial East	Toch North	33883
Warrap	Gogrial East	Toch West	27538
Warrap	Gogrial West	Akon North	23969
Warrap	Gogrial West	Akon South	51257
Warrap	Gogrial West	Alek North	80399
Warrap	Gogrial West	Alek South	68213
Warrap	Gogrial West	Alek West	42252
Warrap	Gogrial West	Gogrial	44614
Warrap	Gogrial West	Kuac North	140467
Warrap	Gogrial West	Kuac South	77387
Warrap	Gogrial West	Riau	53821
Warrap	Tonj East	Ananatak	66835
Warrap	Tonj East	Makuac	38674
Warrap	Tonj East	Malualcum	32405
Warrap	Tonj East	Maparah	29133
Warrap	Tonj East	Mayen	22720
Warrap	Tonj East	Pagor	5556
Warrap	Tonj East	Palal	33151
Warrap	Tonj East	Paliang	40671
Warrap	Tonj East	Pannhial	28320
Warrap	Tonj East	Paweng	32731
Warrap	Tonj East	Wun-liit	75467
Warrap	Tonj North	Akop	68587
Warrap	Tonj North	Alabek	97275
Warrap	Tonj North	Aliek	94006
Warrap	Tonj North	Awuul	71532

Warrap	Tonj North	Kirik	59216
Warrap	Tonj North	Manloor	115417
Warrap	Tonj North	Marial-lou	43949
Warrap	Tonj North	Pagol	41083
Warrap	Tonj North	Rual-bet	44140
Warrap	Tonj North	Warrap	16150
Warrap	Tonj South	Jak	26837
Warrap	Tonj South	Manyang-ngok	38289
Warrap	Tonj South	Thiet	74007
Warrap	Tonj South	Tonj	110742
Warrap	Tonj South	Wath-alel	42442
Warrap	Twic	Ajak-kuac	39275
Warrap	Twic	Akoc	60348
Warrap	Twic	Aweeng	60667
Warrap	Twic	Pannyok	80269
Warrap	Twic	Turalei	97025
Warrap	Twic	Wunrok	96212
			Payam modelled population estimates
State	County	Payam	
Lakes	Awerial	Abuyong	11934
	Awerial	Alel I	5280
	Awerial	Alel II	5055
	Awerial	Bun-agok	18771
	Awerial	Dor	16871
	Awerial	Magok	1825
	Awerial	Nile	19745
	Awerial	Puluk	65199
	Cueibet	Abiriu	90497
	Cueibet	Citcok	22492
	Cueibet	Duony	31209
	Cueibet	Malou Pec	109258
	Cueibet	Ngap	25087
	Cueibet	Pagor	18302
	Rumbek Centre	Amongpiny	23098
	Rumbek Centre	Jiir	60959
	Rumbek Centre	Malek	1272
	Rumbek Centre	Matangai	47437
	Rumbek Centre	Mayom	1806
	Rumbek East	Aduel	38317
	Rumbek East	Akot	19871
	Rumbek East	Atiaba	46513
	Rumbek East	Cueicok	34996
	Rumbek East	Maleng-agok	23510
	Rumbek East	Pacong	46804
	Rumbek East	Paloch	17961
	Rumbek North	Aloor	11223

	Rumbek North	Madol	3144
	Rumbek North	Malueeth	24410
	Rumbek North	Maper	7588
	Rumbek North	Mayen	20341
Lakes	Rumbek North	Wun-rieng	7257
	Wulu	Bargel	20233
	Wulu	Domoloto	20928
	Wulu	Makundi	3843
	Wulu	Wulu	24424
	Yirol East	Adior	17547
	Yirol East	Lekakedu	44535
	Yirol East	Malek	20747
	Yirol East	Pagarau	18222
	Yirol East	Tinagau	11460
	Yirol East	Yali	24477
	Yirol West	Abang	50488
	Yirol West	Aluakluak	29528
	Yirol West	Anuol	18930
	Yirol West	Geng-geng	22550
	Yirol West	Gher	12704
	Yirol West	Mapuordit	14797
	Yirol West	Yirol	32029
Administrative	County	Payam	Payam modelled population estimates
Abyei Administrative Area	Abyei	Abyei	6962
	Abyei	Alel	22022
	Abyei	Ameth-aguok	55128
	Abyei	Mijak	10904
	Abyei	Rumameer	38942
State	County	Payam	Payam modelled population estimates
Western Equatoria	Ezo	Andari	6033
	Ezo	Bagidi	1967
	Ezo	Bariguna	1910
	Ezo	Ezo Centre	26337
	Ezo	Naandi	9051
	Ezo	Yangiri	4043
	Ibba	Ibba Centre	9896
	Ibba	Madebe	11572
	Ibba	Maniakara	7779
	Ibba	Maruko	1422
	Ibba	Nabanga	4323
	Maridi	Kozi	6769
	Maridi	Landili	1209
	Maridi	Mambe	7738

	Maridi	Maridi	67693
	Maridi	Ngamunde	3731
	Mundri East	Kediba	24602
	Mundri East	Lakamadi	4806
Western Equatoria	Mundri East	Lozoh	19217
	Mundri East	Minga	6331
	Mundri East	Witto	25234
	Mundri West	Amadi	5703
	Mundri West	Bangolo	3367
	Mundri West	Kotobi	11720
	Mundri West	Mundri	31596
	Mvolo	Bagori	3663
	Mvolo	Bahr El Grindi	11827
	Mvolo	Dari	1364
	Mvolo	Kokori	18887
	Mvolo	Lessi	1233
	Mvolo	Mvolo	18987
	Mvolo	Yeri	9378
	Nagero	Nagero	8816
	Nagero	Namutina	17922
	Nzara	Basukangbi	2894
	Nzara	Nzara Centre	44556
	Nzara	Ringasi	1913
	Nzara	Sakure	12144
	Nzara	Sangua	7537
	Tambura	Mupoi	8462
	Tambura	Source Yubu	14345
	Tambura	Tambura	36282
	Yambio	Bangasu	21208
	Yambio	Gangura	14995
	Yambio	Nadiangere	621
	Yambio	Ri-rangu	4764
	Yambio	Yambio Town	97388
			Payam modelled population estimates
Central Equatoria	Juba	Bungu	1150
	Juba	Dolo	25615
	Juba	Ganji	2014
	Juba	Gondokoro	32734
	Juba	Juba Town	38653
	Juba	Kator	47618
	Juba	Lirya	10385
	Juba	Lobonok	4956
	Juba	Lokiliri	6159
	Juba	Mangala South	7657
	Juba	Munuki	84434
State	County	Payam	

	Juba	Northern Bari	320555
	Juba	Rejaf	81474
	Juba	Rokon	12793
	Juba	Tijor	7560
Central Equatoria	Juba	Wonduruba	7163
	Kajo-Keji	Kangapo I	15850
	Kajo-Keji	Kangapo II	31887
	Kajo-Keji	Lire	29971
	Kajo-Keji	Liwolo	7122
	Kajo-Keji	Nyepo	2143
	Lainya	Kenyi	7115
	Lainya	Kupera	6813
	Lainya	Lainya	41365
	Lainya	Mukaya	14257
	Lainya	Wuji	12603
	Morobo	Gulumbi	10370
	Morobo	Kimba	3477
	Morobo	Lujulo	8062
	Morobo	Panyume	6954
	Morobo	Wudabi	10779
	Terekeka	Gameiza	2541
	Terekeka	Mangala North	45752
	Terekeka	Muni	29400
	Terekeka	Nyori	15799
	Terekeka	Reggo	70097
	Terekeka	Rijong	5534
	Terekeka	Tali	22638
	Terekeka	Terekeka	27531
	Terekeka	Tindilo	13967
	Terekeka	Tombek	9732
	Yei	Lasu	30637
	Yei	Mugwo	23353
	Yei	Otogo	45715
	Yei	Tore	4532
	Yei	Yei Town	77604
			Payam modelled population estimates
Eastern Equatoria	Budi	Kimotong	6098
	Budi	Komori	25822
	Budi	Loriyok	12453
	Budi	Lotukei	13360
	Budi	Loudo	8497
	Budi	Nagishot	14788
	Budi	Napak	6859
	Budi	Nauro	13596
	Ikotos	Hatire	5019

	Ikotos	Ikotos	18330
	Ikotos	Imotong	4200
	Ikotos	Lomohidang North	15790
Eastern Equatoria	Ikotos	Lomohidang South	11384
	Ikotos	Losite	6506
	Kapoeta East	Jie	13482
	Kapoeta East	Katodori	54373
	Kapoeta East	Kauto	122282
	Kapoeta East	Lotimor	30459
	Kapoeta East	Mogos	32880
	Kapoeta East	Narus	62737
	Kapoeta East	Natinga	2900
	Kapoeta North	Chumakori	14259
	Kapoeta North	Karukomuge	42013
	Kapoeta North	Lomeyen	13893
	Kapoeta North	Mosingo	11835
	Kapoeta North	Najie	8904
	Kapoeta North	Paringa	12272
	Kapoeta South	Kapoeta Town	14836
	Kapoeta South	Longeleya	12615
	Kapoeta South	Machi I	17067
	Kapoeta South	Machi II	9688
	Kapoeta South	Pwata	13621
	Lafon/Lopa	Arihilo	10694
	Lafon/Lopa	Burgilo	20819
	Lafon/Lopa	Imehejek	10551
	Lafon/Lopa	Kurumi	8194
	Lafon/Lopa	Lohutok	11273
	Lafon/Lopa	Longiro	14038
	Lafon/Lopa	Marguna	6273
	Lafon/Lopa	Pachidi	3368
	Magwi	Lobone	5825
	Magwi	Magwi	38671
	Magwi	Mugali	7080
	Magwi	Nimule	58188
	Magwi	Pageri	19463
	Magwi	Pajok	16157
	Torit	Bur	13902
	Torit	Himodonge	6957
	Torit	Hiyala	16572
	Torit	Ifwotu	10148
	Torit	Imurok	5342
	Torit	Kudo	9500
	Torit	Torit	36070
South Sudan Total.			12,444,017

