

**Federal  
Republic of**



**Democratic  
Ethiopia**

**Ministry of Water and Energy**



**PART III**

**Urban Water Supply Universal Access Plan  
(UWSPUAP)**

**2011-2015**



**MoWE**

**UAP ETHIOPIA**

**December 2011**

**Addis Ababa**

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## List of Acronyms and Abbreviations

AfDB	African Development Bank
CSA	Central Statistical Agency
CSD 14	14 <sup>th</sup> meeting of Commission for Sustainable Development, in New York
DFID	Department for International development
GTP	Growth and Transformation plan
IDA	International Development Association
ISI	Immediate Service Improvement
JTR	Joint Technical Review
M&E	Monitoring and Evaluation
MIS	Management Information System
MoH	Ministry of Health
MoWR	Ministry of Water Resources
MOWE	Ministry of Water and Energy
MSF	Multi Stakeholder Forum
NHSSAP	National Hygiene and Sanitation Strategic Action Plan
O&M	Operation and maintenance
PASDEP	Plan for Accelerated Sustainable Development for Eradicating Poverty
RWRB	Regional Water Resources Board
SNNPNRS	Southern Nations and Nationalities Peoples National Regional State
TA	Technical assistance
TWB	Town Water Board
TWO	Town Water Operator
TSG	Town Support Group
TVETCs	Technical Vocational Education Training Colleges

UAP	Universal Access Plan
USD	United states Dollar
WaSH	Water Supply, Sanitation and Hygiene
WIF	WaSH Implementation Framework

## Executive Summary

The country has been actively working in achieving universal access in rural and urban areas since 2005 following the global launching of the rights approach in the commission for sustainable development (CSD 14) meeting held in New York, USA in the same year. Since then a concerted effort was done to mobilize resources from local, donor and international bank sources. Accordingly, stepped water supply and sanitation activities were carried out in 66 small and 25 medium size towns with the assistance of IDA/DFID. Other achievements include the Water supply and sanitation activities that are being undertaken in:

- 15 towns through EU assistance
- 6 towns through soft loan
- Dozens of towns through water fund and the regions.

In addition to the above, the Harari water supply and sanitation project financed by AfDB was completed in 2011 raising the water supply access to 98%.

Furthermore expansion and improvement of water supply and sanitation works are being undertaken in Jima, Mekele, Gondar and Addis Ababa.

The effort that has continued in addressing more and more towns, is expected to be accelerated and scaled up to enable the nation achieve the universal access plan in urban areas in addition to rural areas.

Side by side with the UAP implementation capacity building activities were being undertaken through establishing pool fund, undertaking various trainings, and developing WaSH M&E-MIS. Water quality, environment and self-supply related capacities were also enhanced. Various national documents like the Wash Implementation framework (WIF), updated rural water supply UAP, National hygiene and sanitation strategic action plan are prepared for facilitating accelerated WaSH implementation.

Moreover, the national WaSH Inventory which will help in refining baseline data of the sector's plans was on the verge of completion at the end of 2011.

This Urban UAP attempts to align targets and resource requirements with the Growth and Transformation Plan through relevant updated approaches outlined in the national water supply and sanitation framework and PASDEP.

It is physically planned to upgrade water supply services from the current coverage of 93 %<sup>1</sup> to 100% by the year 2015 at a cost of about 599 million USD. Of the total 599 million USD, about 27.4 million USD will be required as seed money for environmental safe guard and 19.2 million USD for program management. The remaining 547.4 million USD would be required for study & design, immediate service improvement, capacity building and project implementation.

3302 management experts, 31,335 skilled staff & professionals and about 16,000 labourers will be required to undertake urban UAP activities.

Furthermore a total of 213 TSGs, 64 consultants, 213 contractors and 77 drilling companies with rigs of adequate capacity would be required to meet targets.

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<sup>1</sup> Estimated Overall urban water supply access in 2011

## 1. Introduction

The country has been actively working in achieving universal access in rural and urban areas since 2005 following the global launching of the rights approach in the commission for sustainable development (CSD 14) meeting held in New York, USA in the same year. Since then a concerted effort was done to mobilize resources from local, donor and international bank sources. Accordingly, stepped water supply and sanitation activities were carried out in 66 small and 25 medium size towns with the assistance of IDA/DFID. Other achievements include the Water supply and sanitation activities that are being undertaken in:

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This Urban UAP attempts to align targets and resource requirements with the Growth and Transformation Plan through relevant updated approaches outlined in the national water supply and sanitation framework and PASDEP.

## 2. Background

Based on the 2010 statistical abstract published by CSA there are 970 towns in Ethiopia, 45% of the urban population live in 907 towns with less than 30,000 population. 55 % the urban population live in 63 towns with greater than 30,000 population. They all need piped water supply systems, and local utilities to oversee and operate them. The strategic action is to construct facilities that are well managed and can be expanded to meet the needs of a growing population. (For details of Projected Population 2011-2020 see Annex 1)

**Table 2-1: Number of Towns with Population Category**

Population Range	No of towns	Total population 2011
<1000	25	18,907
1000 to 5000	420	1,257,352
5000 to 15,000	382	3,194,923

Population Range	No of towns	Total population 2011
15,000 to 20,000	39	682,367
20,000 to 30,000	41	994,023
30,000 to 50,000	28	1,041,825
50,000 to 100,000	21	1,410,082
100,000 to 200,000	9	1,194,027
200,000 to 500,000	4	944,896
500,000 to 1,000,000	0	-
>1,000,000	1	2,979,086
	970	13,717,488

As regards to the characteristics of towns, it could be said that

- On average towns are growing fast. They are doubling in population every 15-20 years.
- Towns are not uniform. They typically have a relatively dense centre with a more sparsely populated fringe area, and sometimes satellite settlements or rural communities nearby.

As a result urban water supply is complex in nature as compared to rural water supply in terms of study, design, operation & maintenance, management and implementation. To this end a new model that categorizes towns into population categories and takes account of recent resource requirements of towns in various regions shall be used in determining resource requirements.

The System Design to be considered in the preparation of such an ambitious plan that aspires to achieve 100% access by the year 2015 shall focus on meeting the target in a cost effective manner. It is therefore found better to consider 2020 population as a design population (i.e. 2015 plus five years' growth). Towns can extend their distribution and add connections every year with their own resources. Consumers should choose the service level that they can afford through a cost effective design process. Standard design criteria shall be modified in such a way that systems to be designed will be affordable by the community. Expansions to surrounding areas shall take account of source and system capacity in existing systems for not compromising reliable service. In new schemes or expansions a well prepared business plan that takes account of sources, the system as a whole, water tariff, plan for improvement of service levels, growth in number of customers, high reduction of unaccounted for water, operation and maintenance efficiency etc is required.

In regard to management arrangements, the following conditions shall be met in line with the water resources management policy:

- Sustainable and reliable provision of water supply can best be ensured by decentralizing oversight and operations to the town level.
- Management decisions should be made by a group responsible for the town water supply (i.e. the water board and utility management team), based on what will provide good quality, affordable water to an expanding population.
- Revenues should be ring fenced, and reinvested in the town to pay salaries, operate/maintain facilities, and expand the system.



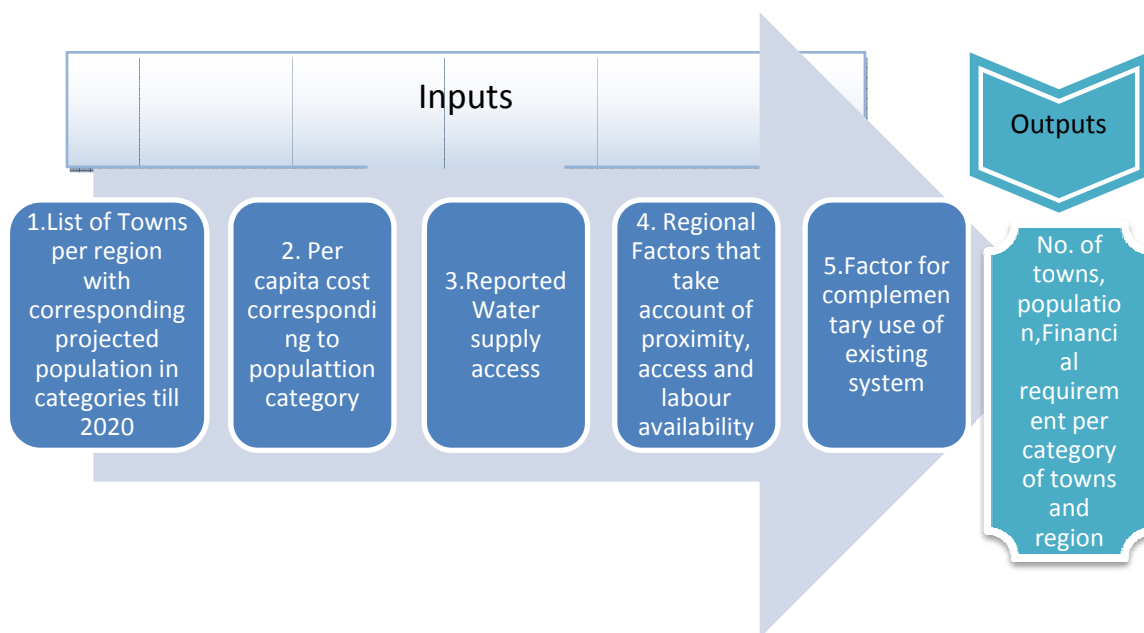
- Utility operators in collaboration with the water boards should be able to hire/fire staff, set attractive salaries, offer performance incentives, disconnect both public and private non-payers, and be free to improve and expand services.
- Towns should be monitored, evaluated and assisted from time to time by specialists (i.e. TSGs and business planners, etc.) to improve their technical and financial efficiency, solve problems, and plan expansion.
- Transparency and accountability need to be exercised through the ongoing reform process for gaining and keeping the trust of users. In so doing clear roles and responsibilities, independent audits, disclosure of information and consultation with consumers shall be made part of the utilities working culture.

In regard to financial viability regions every effort shall be organized and consolidated to make systems cost effective in order to minimize subsidy. As observed from the recent water tariff analyses of dozens of towns it is only towns with greater than 30,000 population i.e. 63 towns that can quickly move towards full cost recovery tariff. With strict cost effective design towns b/n 15,000 and 30,000 populations i.e. 80 towns can move towards covering depreciation and O& M cost. It could take some time before towns with less than 15,000 can go beyond covering O&M cost. Therefore measures like aggregation of nearby towns, incorporation of nearby rural settlements, looking into multi village gravity scheme model wherever applicable etc. should be done to optimize the situation.

### 3. The Urban UAP model and Assumptions

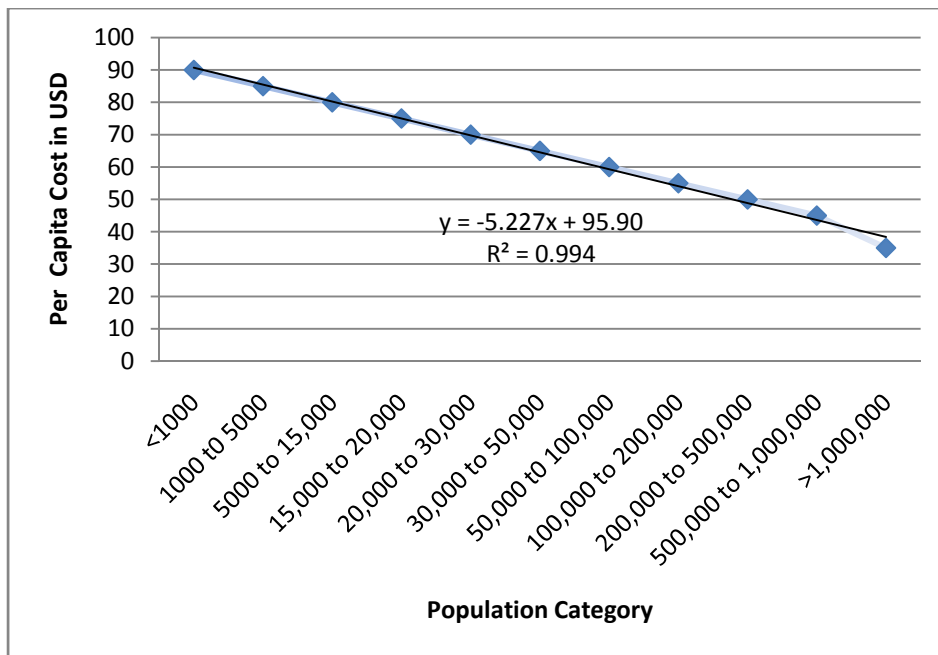
The urban UAP model categorizes towns based on populations as shown in table 1. The model lists all in all 970 towns by population category and regions. The model takes the following inputs for determining, number of towns, population and financial requirements per category of towns and region.

**Figure 1: The Urban UAP Model**



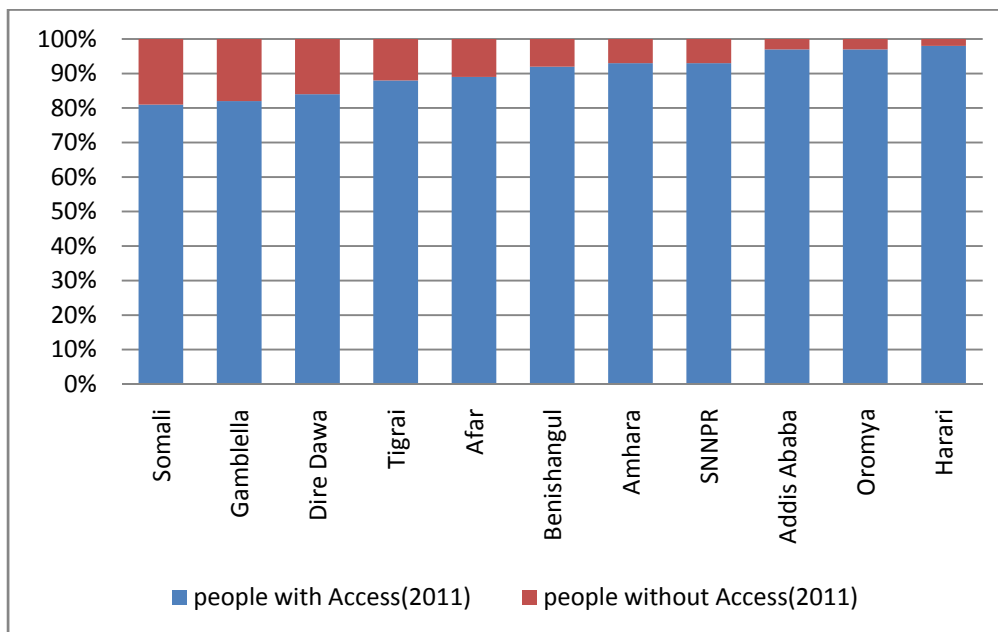
Accordingly, the list of towns per region with projected population till 2020 is shown in Annex 1. Per capita costs assumed in determining financial requirements were derived from recent contract amounts of dozens of towns and assigned to population categories as shown in figure below.

**Figure 2; Estimated Per Capita Cost in USD**



Reported water supply access of the regions used in the model for calculating resource requirements are shown in figure below.

**Figure 3: Urban Water Supply Access - 2011**



Regional factors that take account of proximity, access and labor availability are assumed as in table below.

Table 3-1: Regional Factors That Take Account of Proximity, Accessibility and Skilled Manpower Availability

Region	Regional Factor
Afar	1.15
Gambella	1.1
Harari	1
Addis Ababa	1
Diredawa	1
Benishangul	1.1
somali	1.15
Amhara	1
Oromya	1
SNNPNRS	1
Tigrai	1
National(Weighted Average)	1.02

Factors depicting complementary use of existing systems corresponding to population categories as derived from prevailing conditions like reported access of towns are as shown below.

Table 3-2: Factors for Complementary use of Existing Systems

Population Category	Derived Per Capita Cost in USD	Factor for complementary use of Existing system
<1000	90	0.35
1000 to 5000	85	0.35
5000 to 15,000	80	0.35
15,000 to 20,000	75	0.35
20,000 to 30,000	70	0.40
30,000 to 50,000	65	0.45
50,000 to 100,000	60	0.50
100,000 to 200,000	55	0.50
200,000 to 500,000	50	0.60
500,000 to 1,000,000	45	0.60
>1,000,000	35	0.65
National	58.78	0.47

Factors for complementary use of existing systems are directly affected with prevailing conditions like access and standard of the system. In smaller towns, access and the standard of the system are usually lower i.e. a dead end piped system with public taps and few connections as compared to larger towns where access and standard of the system are higher i.e. a looped system with higher number connections, public taps, bigger reservoirs, chlorination units, pumping stations etc. It could therefore be deduced that factors for complementary use of existing system get bigger and bigger as we go from smaller towns to bigger towns.

Annual escalation factors of 1% are used for escalating Annual financial requirements as indicated below. The escalation percent is made low since the currency used is USD and strong signs for regulating costs of construction materials are being observed.

**Table 3-3: Financial Requirement Escalation Factors**

Year	Escalation Factor
2011	1
2012	1.01
2013	1.01
2014	1.01
2015	1.01

#### 4. Sector policy and Strategy

There is a strong national water supply and sanitation policy and key agencies have clear roles and strategies. The National policy is set by the Ministry of Water Energy (MoWE), formerly the Ministry of Water Resources (MoWR) for water supply and by the Ministry of Health (MoH) for sanitation.

In 2006 the government adopted a Universal Access Plan (UAP) to achieve 98% access for rural water supply and 100% access for urban water supply and sanitation by 2012. Its cost was estimated at US\$2.5bn. During the first phase until 2012 the focus is on affordable and appropriate technologies, with the following service standards:

##### Setting Per capita consumption Service radius

Rural	15 liter/capita/day	1.5km
Urban	20 liter/capita/day	0.5km

The target year is moved to 2015 in this updated UAP document.

In October 2006 a Memorandum of Understanding<sup>2</sup> has been signed by the Ministry of Water Resources, the Ministry of Health and the Ministry of the Education, to clearly define the roles and responsibilities of each Ministry in the implementation of the Universal Access Plan. Regional Water

<sup>2</sup> The updated MoU was undersigning at the end of 2011 when this document was under preparation

Bureaus and Woreda Water Desks are in charge of investment planning, monitoring and technical assistance to service providers. Their capacity to fulfill these tasks is sometimes limited.

### **Water supply**

Formally the MoWE's mandate covers only water resources management and it has no legal mandate concerning drinking water supply. Nevertheless, de facto it is the entity in charge of setting policies for water supply and to channel donor funds in the sector to local government entities.

In 2001 the government adopted a National Water Strategy prepared by MoWR. The overall strategy includes a water resources strategy, a hydropower development strategy, a water supply and sanitation strategy, and an irrigation strategy.

Concerning water supply and sanitation, the strategy aims at:

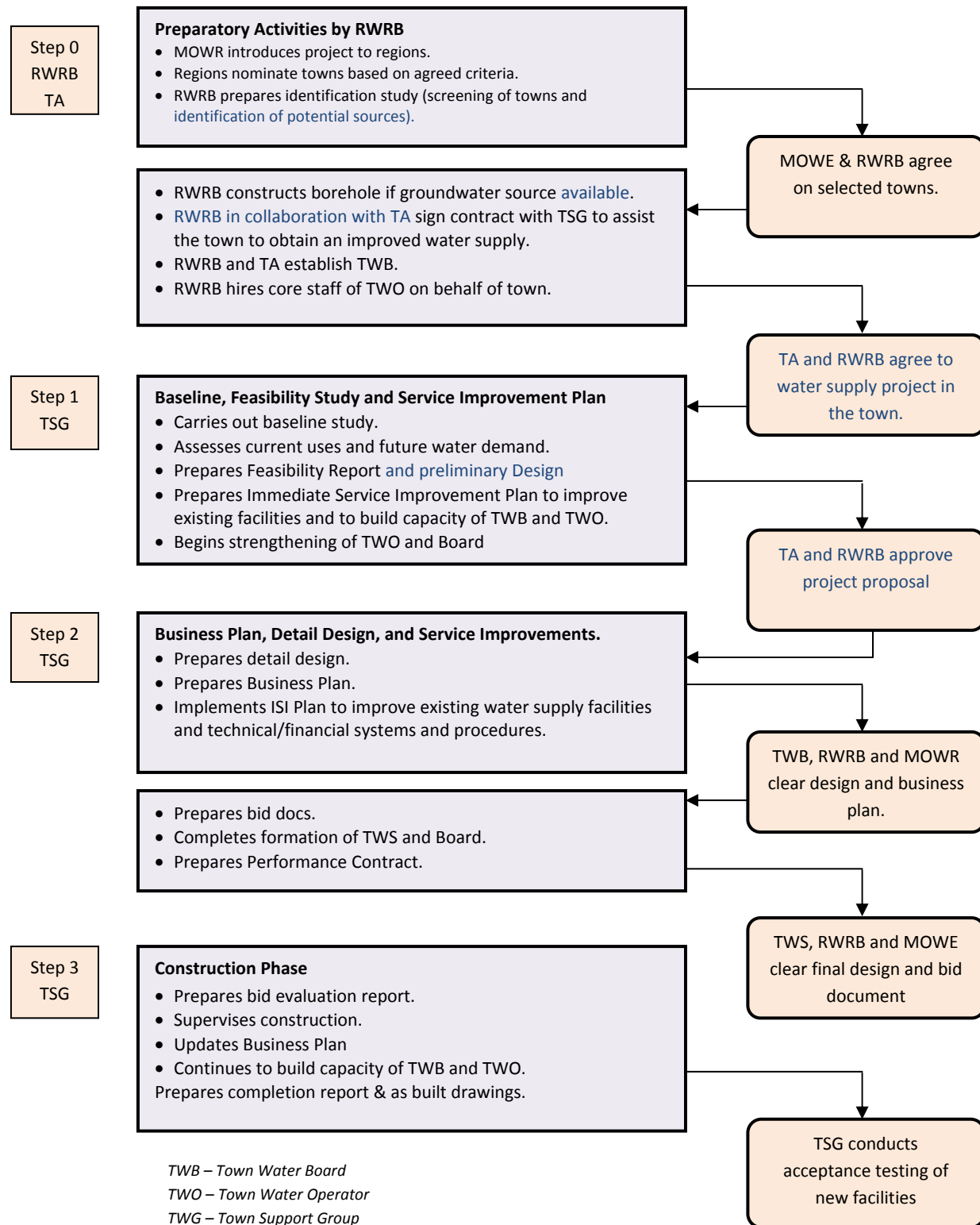
- More decentralized decision-making
- Promoting the involvement of all stakeholders, including the private sector
- Increasing levels of cost recovery
- Integrating water supply, sanitation and hygiene promotion activities.

The strategy document does not include a diagnostic of the current situation. The water and sanitation part of the strategy alone includes 44 recommendations concerning technical, institutional, capacity building, social, economic and environmental issues. The strategy document was concise and looking forward towards preparing documents like the UAP, manuals and guidelines that enable the translation of the policy.

### **Implementation strategy**

The ongoing town water supply program is now made to go through accelerated steps shown below.

**Figure 4: Planning and Construction Process Flow Chart**



## Sanitation

The Ministry of Health is in charge of policies related to sanitation and hygiene promotion. It has adopted a Sanitation and Hygiene Promotion Strategy. De facto sewers in urban areas are under the responsibility of the MoWR, while the promotion of on-site sanitation is the responsibility of the Ministry of Health. The Sanitation and Hygiene Promotion Strategy has re-focused government resources on the promotion of pro-poor, low-cost practices community led interventions as outlined in the recent national sanitation and hygiene strategic action plan finalized at the end of 2011.

## 5. Cross cutting Issues

The cross cutting issues like Gender, Catchment management and HIV aids will be given adequate focus during the implementation of the UAP. Accordingly at least 50% of the stakeholders organized and to be organized will be women. All urban water sources will be protected by combining efforts with the national catchment management intervention being spearheaded by the Ministry of Agriculture. Besides bringing WaSH services closer to HIV positive citizens ways for facilitating the comfortable and affordable use of WaSH services will be sought in collaboration with stakeholders.

## 6. Physical Plan

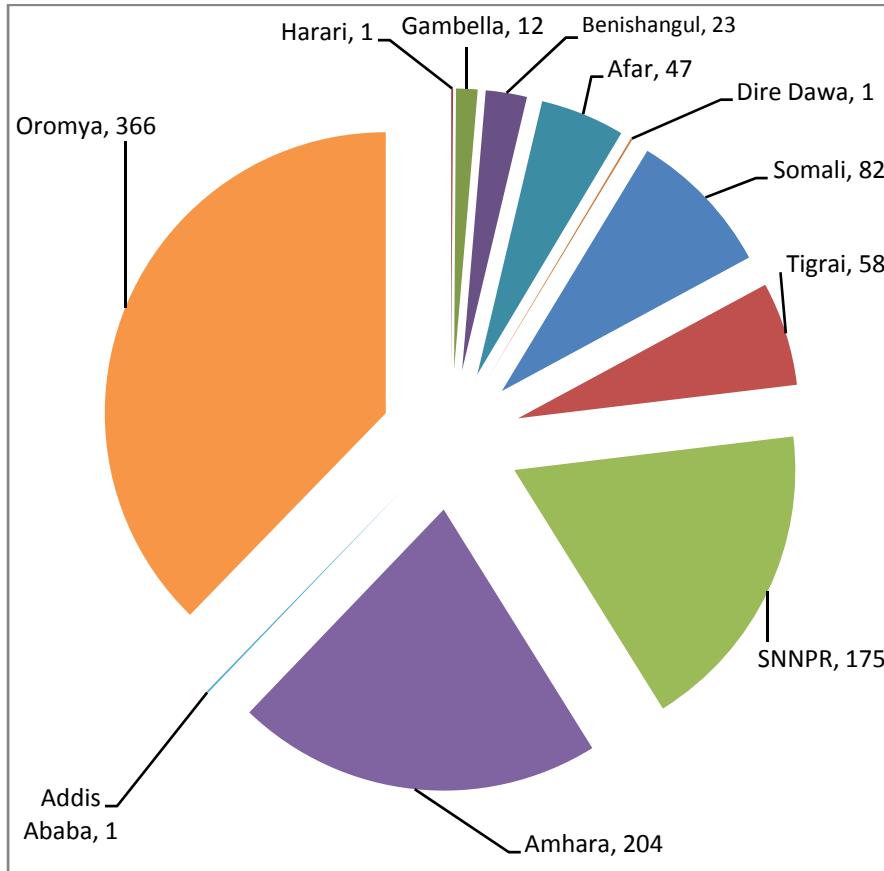
The physical regional plan for achieving 100% access by the year 2015 is given below.

**Table 6-1: Planned Number of Schemes by Region and Population Category**

Region	Physical plan 2011-2015				
	2011	2012	2013	2014	2015
<b>Harari</b>	0.1	0.25	0.3	0.25	0.1
<b>Gambella</b>	1.2	3	3.6	3	1.2
<b>Benishangul</b>	2.3	5.75	6.9	5.75	2.3
<b>Afar</b>	4.7	11.75	14.1	11.75	4.7
<b>Dire Dawa</b>	0.1	0.25	0.3	0.25	0.1
<b>Somali</b>	8.2	20.5	24.6	20.5	8.2
<b>Tigray</b>	5.8	14.5	17.4	14.5	5.8
<b>SNNPNRS</b>	17.5	43.75	52.5	43.75	17.5
<b>Amhara</b>	20.4	51	61.2	51	20.4
<b>Addis Ababa</b>	0.1	0.25	0.3	0.25	0.1
<b>Oromya</b>	36.6	91.5	109.8	91.5	36.6
<b>Total</b>	97	242.5	291	242.5	97

The number of towns in the respective regions and administrations in which the physical plans are to be implemented are as indicated below.

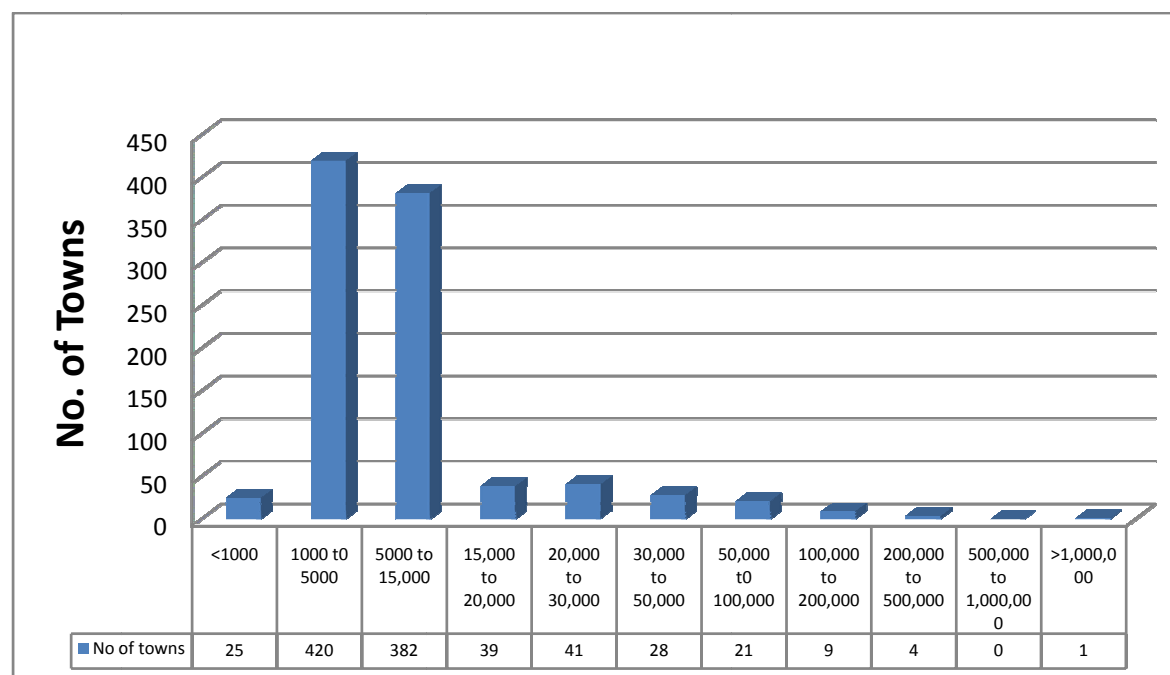
**Figure 5: Number of Towns by Region**



As shown in figure below 104 towns have population equal to 30,000 and above while 866 towns have populations less than 30,000 showing that a lot needs to be done to make towns commercially viable due to low economy of scale.



**Figure 6: No of towns By Population Category**



## 7. Financial Plan

### 7.1. Financial plan for Project Implementation

The financial requirement that amounts to about 547.4 million USD for stepped activities that include study & design, capacity building, immediate service improvement and project implementation is as shown in table below. The total requirement including the 27.4 million USD<sup>3</sup> and the 19.2 million USD<sup>4</sup> required for environmental safeguard and program management respectively will be about 594 million USD.

**Table 7-1; Urban Financial Plan for Stepped Water Supply Activities 2011-2015**

Region	Stepped Activities	2011	2012	2013	2014	2015	Total
Harari	Study and Design	8,501.85	21,467.16	25,760.59	21,467.16	8,586.86	85,783.62
	Capacity Building	12,752.77	32,200.74	38,640.89	32,200.74	12,880.30	128,675.42
	Immediate Service Improvement	42,509.23	107,335.79	128,802.95	107,335.79	42,934.32	428,918.08
	Project implementation	361,328.41	912,354.24	1,094,825.09	912,354.24	364,941.70	3,645,803.68

<sup>3</sup> See table 7-2 below for details on financial requirement for environmental safeguard.

<sup>4</sup> See table 7-3 below for details on financial requirement for program management

URBAN WATER  
SUPPLY UAP

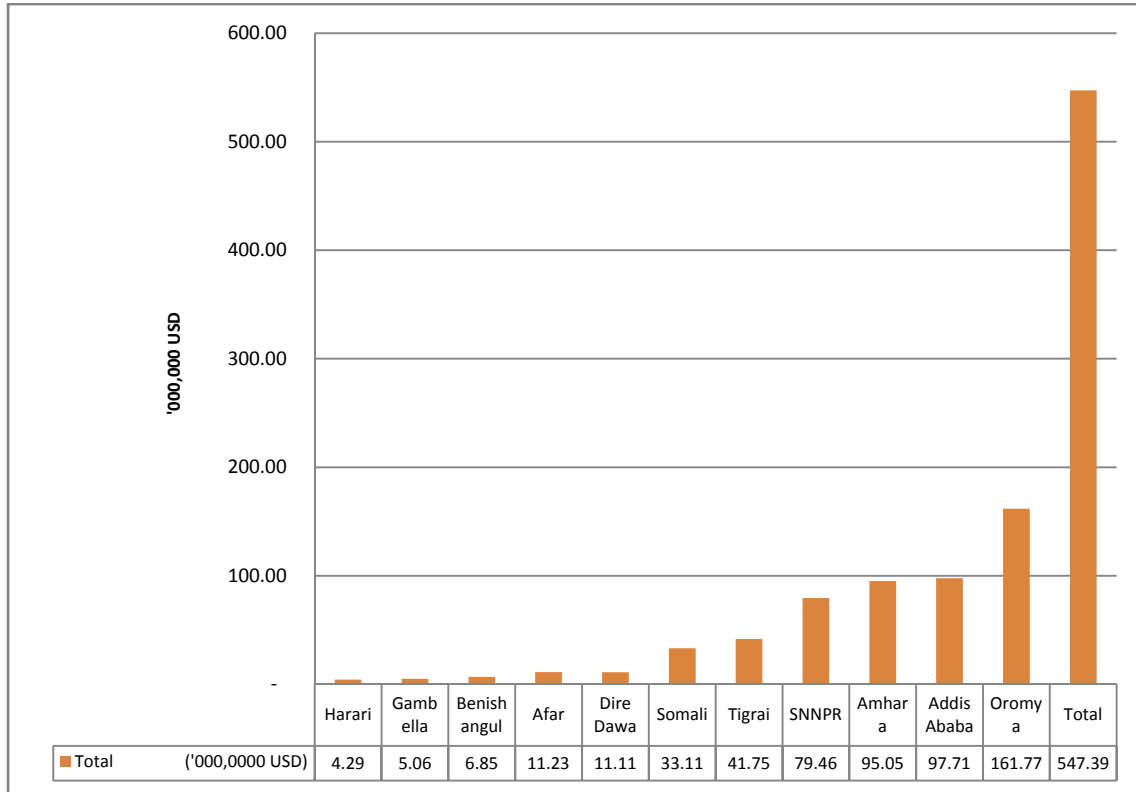
<b>Gambella</b>	Study and Design	10,039.47	25,349.66	30,419.59	25,349.66	10,139.86	101,298.23
	Capacity Building	15,059.20	38,024.48	45,629.38	38,024.48	15,209.79	151,947.35
	Immediate Service Improvement	50,197.34	126,748.28	152,097.94	126,748.28	50,699.31	506,491.16
	Project implementation	426,677.39	1,077,360.40	1,292,832.48	1,077,360.40	430,944.16	4,305,174.82
<b>Benishangul</b>	Study and Design	13,584.68	34,301.31	41,161.58	34,301.31	13,720.53	137,069.41
	Capacity Building	20,377.02	51,451.97	61,742.37	51,451.97	20,580.79	205,604.11
	Immediate Service Improvement	67,923.39	171,506.57	205,807.88	171,506.57	68,602.63	685,347.05
	Project implementation	577,348.85	1,457,805.84	1,749,367.01	1,457,805.84	583,122.34	5,825,449.89
<b>Afar</b>	Study and Design	22,268.88	56,228.92	67,474.71	56,228.92	22,491.57	224,693.00
	Capacity Building	33,403.32	84,343.38	101,212.06	84,343.38	33,737.35	337,039.50
	Immediate Service Improvement	111,344.40	281,144.61	337,373.53	281,144.61	112,457.84	1,123,465.00
	Project implementation	946,427.40	2,389,729.19	2,867,675.03	2,389,729.19	955,891.68	9,549,452.48
<b>Dire Dawa</b>	Study and Design	22,012.44	55,581.41	66,697.69	55,581.41	22,232.56	222,105.52
	Capacity Building	33,018.66	83,372.12	100,046.54	83,372.12	33,348.85	333,158.28
	Immediate Service Improvement	110,062.20	277,907.06	333,488.47	277,907.06	111,162.82	1,110,527.60
	Project implementation	935,528.70	2,362,209.97	2,834,651.96	2,362,209.97	944,883.99	9,439,484.58
<b>Somali</b>	Study and Design	65,622.33	165,696.37	198,835.65	165,696.37	66,278.55	662,129.27
	Capacity Building	98,433.49	248,544.56	298,253.47	248,544.56	99,417.82	993,193.91
	Immediate Service Improvement	328,111.63	828,481.87	994,178.24	828,481.87	331,392.75	3,310,646.37
	Project implementation	2,788,948.87	7,042,095.90	8,450,515.08	7,042,095.90	2,816,838.36	28,140,494.11
<b>Tigray</b>	Study and Design	82,760.61	208,970.53	250,764.64	208,970.53	83,588.21	835,054.52
	Capacity Building	124,140.91	313,455.80	376,146.96	313,455.80	125,382.32	1,252,581.79
	Immediate Service Improvement	413,803.04	1,044,852.66	1,253,823.20	1,044,852.66	417,941.07	4,175,272.62
	Project implementation	3,517,325.80	8,881,247.64	10,657,497.17	8,881,247.64	3,552,499.06	35,489,817.30
<b>SNNPNS</b>	Study and Design	157,502.69	397,694.29	477,233.15	397,694.29	159,077.72	1,589,202.15
	Capacity Building	236,254.04	596,541.44	715,849.73	596,541.44	238,616.58	2,383,803.23

URBAN WATER  
SUPPLY UAP

	Immediate Service Improvement	787,513.46	1,988,471.47	2,386,165.77	1,988,471.47	795,388.59	7,946,010.76
	Project implementation	6,693,864.37	16,902,007.53	20,282,409.03	16,902,007.53	6,760,803.01	67,541,091.47
<b>Amhara</b>	Study and Design	188,404.68	475,721.83	570,866.19	475,721.83	190,288.73	1,901,003.27
	Capacity Building	282,607.03	713,582.74	856,299.29	713,582.74	285,433.10	2,851,504.90
	Immediate Service Improvement	942,023.42	2,378,609.14	2,854,330.97	2,378,609.14	951,443.66	9,505,016.33
	Project implementation	8,007,199.09	20,218,177.71	24,261,813.25	20,218,177.71	8,087,271.08	80,792,638.83
<b>Addis Ababa</b>	Study and Design	193,669.75	489,016.12	586,819.34	489,016.12	195,606.45	1,954,127.77
	Capacity Building	290,504.62	733,524.17	880,229.01	733,524.17	293,409.67	2,931,191.65
	Immediate Service Improvement	968,348.75	2,445,080.58	2,934,096.70	2,445,080.58	978,032.23	9,770,638.84
	Project implementation	8,230,964.33	20,783,184.94	24,939,821.93	20,783,184.94	8,313,273.98	83,050,430.11
<b>Oromya</b>	Study and Design	320,655.79	809,655.87	971,587.04	809,655.87	323,862.35	3,235,416.92
	Capacity Building	480,983.69	1,214,483.80	1,457,380.57	1,214,483.80	485,793.52	4,853,125.38
	Immediate Service Improvement	1,603,278.95	4,048,279.35	4,857,935.22	4,048,279.35	1,619,311.74	16,177,084.61
	Project implementation	13,627,871.08	34,410,374.46	41,292,449.36	34,410,374.46	13,764,149.79	137,505,219.15
<b>National</b>	Study and Design	1,085,023.16	2,739,683.48	3,287,620.17	2,739,683.48	1,095,873.39	10,947,883.68
	Capacity Building	1,627,534.74	4,109,525.22	4,931,430.26	4,109,525.22	1,643,810.09	16,421,825.52
	Immediate Service Improvement	5,425,115.80	13,698,417.39	16,438,100.87	13,698,417.39	5,479,366.96	54,739,418.40
	Project implementation	46,113,484.28	116,436,547.81	139,723,857.38	116,436,547.81	46,574,619.13	465,285,056.42
<b>National Grand Total</b>		<b>54,251,157.98</b>	<b>136,984,173.90</b>	<b>164,381,008.68</b>	<b>136,984,173.90</b>	<b>54,793,669.56</b>	<b>547,394,184.02</b>

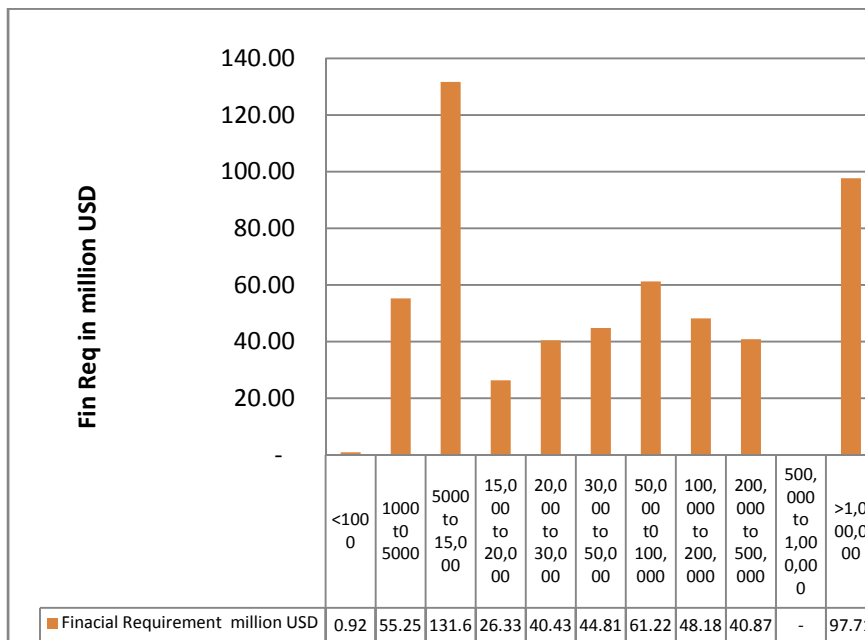
The total financial requirement that shows regional variation in ascending order is shown in figure below. As shown in the figure the financial requirement varies from 4.29 million USD for Harari town to 161.7 million USDS for Oromya region with 366 towns.

**Figure 7: Total Financial Requirement by Region (2011-2015)**



The total financial requirement by population category is given in figure below.

**Figure 8: Financial Requirement in million USD by Population Category**



## 7.2. Financial Plan for Environmental Safeguard

Environmental safeguard that includes the cost of delineating sanitary zones is crucially important for providing safe and reliable water supply service. Environmental safeguard could be integrated with community led catchment management being undertaken by the ministry of agriculture. The seed money of USD 27,369,709.20 which is about 5% of the total financial requirement is required to undertake safeguard activities. The regional financial requirement during the planning years is as shown in table below.

**Table 7-2: Regional Financial Requirement for Environmental Safeguard**

Region	2011	2012	2013	2014	2015	Total
Harari	21,254.61	53,667.90	64,401.48	53,667.90	21,467.16	214,459.04
Gambella	25,098.67	63,374.14	76,048.97	63,374.14	25,349.66	253,245.58
Benishangul	33,961.70	85,753.28	102,903.94	85,753.28	34,301.31	342,673.52
Afar	55,672.20	140,572.31	168,686.77	140,572.31	56,228.92	561,732.50
Dire Dawa	55,031.10	138,953.53	166,744.23	138,953.53	55,581.41	555,263.80
Somali	164,055.82	414,240.94	497,089.12	414,240.94	165,696.37	1,655,323.18
Tigray	206,901.52	522,426.33	626,911.60	522,426.33	208,970.53	2,087,636.31
SNNPR	393,756.73	994,235.74	1,193,082.88	994,235.74	397,694.29	3,973,005.38
Amhara	471,011.71	1,189,304.57	1,427,165.49	1,189,304.57	475,721.83	4,752,508.17
Addis Ababa	484,174.37	1,222,540.29	1,467,048.35	1,222,540.29	489,016.12	4,885,319.42
Oromya	801,639.48	2,024,139.67	2,428,967.61	2,024,139.67	809,655.87	8,088,542.30
<b>Total</b>	<b>2,712,557.90</b>	<b>6,849,208.69</b>	<b>8,219,050.43</b>	<b>6,849,208.69</b>	<b>2,739,683.48</b>	<b>27,369,709.20</b>

## 7.3. Financial Plan for Program Management

Urban water supply Program management is complex and requires the strengthening of the national and regional WaSH coordination offices in terms of logistics, skill and human power. A situation where the water sector is attractive for building skills and accomplishing well organized tasks should be created in order to compete with other sectors and meet UAP objectives. It is estimated about 19.2 million dollars are required for this purpose during the planning period as indicated in table below.

**Table 7-3: Financial Requirement for Program management**

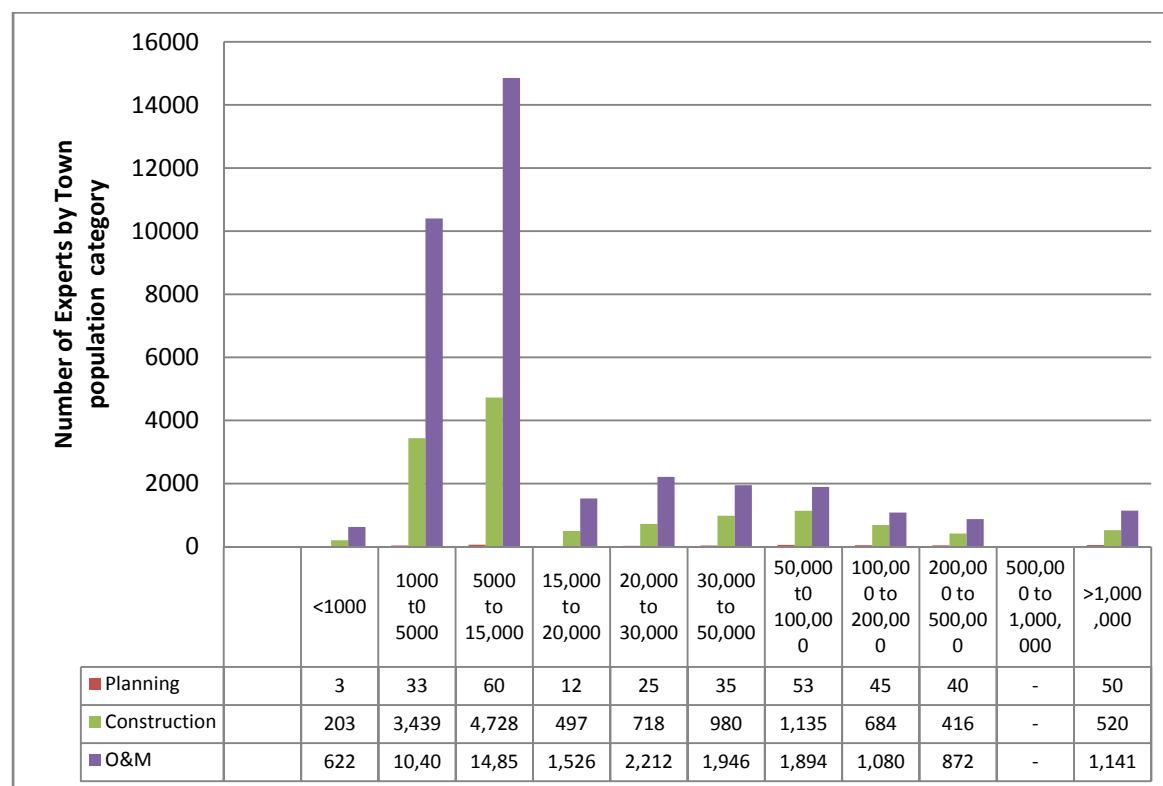
Region	2011	2012	2013	2014	2015	Total
Harari	14,878.23	37,567.53	45,081.03	37,567.53	15,027.01	150,121.33
Gambella	17,569.07	44,361.90	53,234.28	44,361.90	17,744.76	177,271.90
Benishangul	23,773.19	60,027.30	72,032.76	60,027.30	24,010.92	239,871.47
Afar	38,970.54	98,400.61	118,080.74	98,400.61	39,360.25	393,212.75
Dire Dawa	38,521.77	97,267.47	116,720.96	97,267.47	38,906.99	388,684.66
Somali	114,839.07	289,968.65	347,962.39	289,968.65	115,987.46	1,158,726.23
Tigray	144,831.06	365,698.43	438,838.12	365,698.43	146,279.37	1,461,345.42

Region	2011	2012	2013	2014	2015	Total
SNNPR	275,629.71	695,965.02	835,158.02	695,965.02	278,386.01	2,781,103.77
Amhara	329,708.20	832,513.20	999,015.84	832,513.20	333,005.28	3,326,755.72
Addis Ababa	338,922.06	855,778.20	1,026,933.84	855,778.20	342,311.28	3,419,723.59
Oromya	561,147.63	1,416,897.77	1,700,277.33	1,416,897.77	566,759.11	5,661,979.61
<b>Total</b>	<b>1,898,790.53</b>	<b>4,794,446.09</b>	<b>5,753,335.30</b>	<b>4,794,446.09</b>	<b>1,917,778.43</b>	<b>19,158,796.44</b>

## 8. Human resources requirement

The human resource requirement is estimated based on a combination of water supply and sanitation master plan and recent human power estimate assumptions. As per the water supply and sanitation master plan (2003) the staff needs in urban water sector were projected to increase from 23,000 in the year 2000 to nearly 50,000 in the year 2025 when it was assumed 100% coverage would be attained. In this accelerated urban UAP plan the total number of staffs and laborers is estimated to grow to 50,222 by 2015 considering 970 towns<sup>5</sup> as per CSA 2010 statistical abstract. The number experts categorized under planning, construction and O& M is given in figure below for towns falling in different population categories.

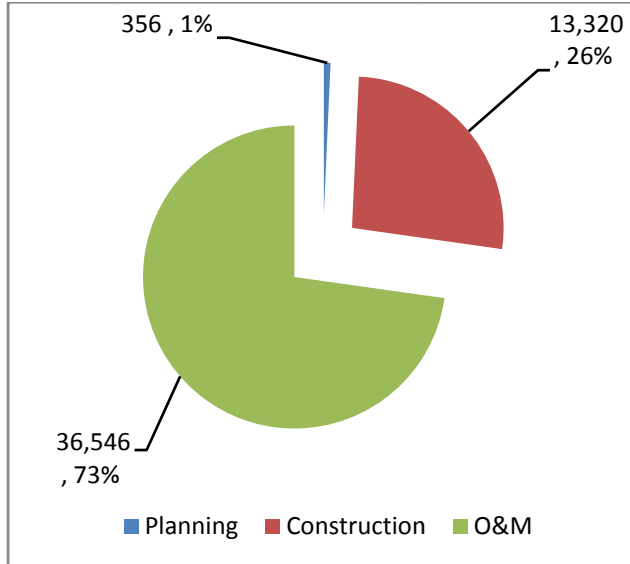
**Figure 9: Human Resource Requirement for Planning, Construction and O&M**



<sup>5</sup> The water supply and sanitation master plan considered 932 towns as per CSA 1994 census.

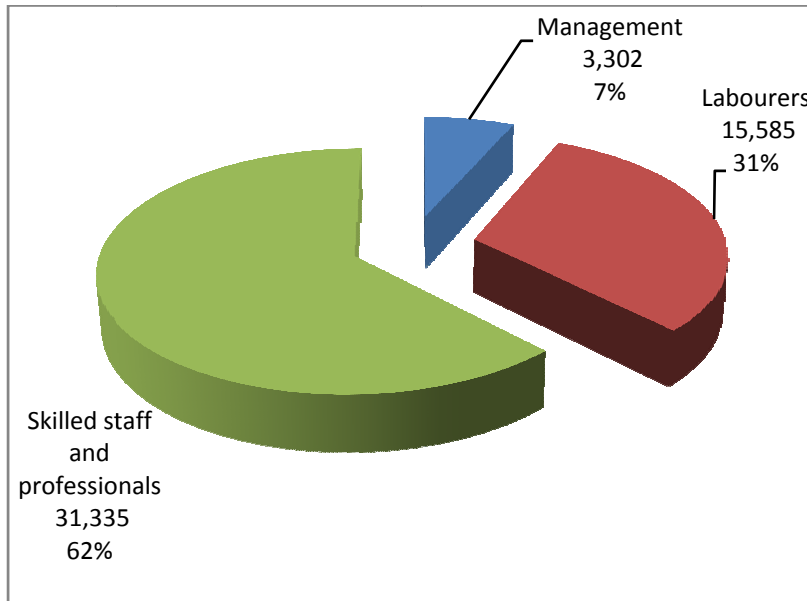
Planning, construction and O& M teams will consist of 1%, 26% and 73% of the aggregate human resources requirement as shown in figure below.

**Figure 10: Percentage Distribution of Human Resource Requirement**



The percentage distribution of the management team, laborers and skilled staff & professionals account for 7%, 31% and 62% of the human resources requirement respectively.

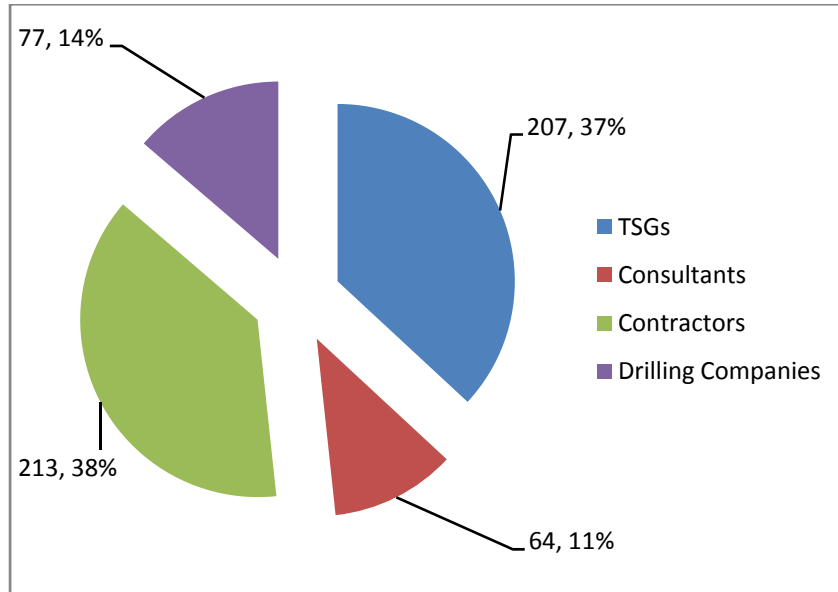
**Figure 11: Human power Requirement in terms of Management, Skilled staff & professional and Laborers**



An indicative requirement of TSGs, Consultants, contractors and drilling companies is estimated based on water supply and sanitation master plan assumptions and recent trends of program implementation.

Accordingly, a total of 213 TSGs, 64 consultants, 213 contractors and 77 drilling companies are required for implementing the urban UAP in time as shown in figure below.

**Figure 12: Requirements in terms of TSGs, Consultants, Contractors and Drilling Companies**



## 9. Opportunities and Risks

Risks can be encountered in any social service development due to not meeting targets in terms of generating resources and efficiency of program execution. It is therefore crucial to optimally exploit opportunities as briefly presented below.

### 9.1. Opportunities

The following opportunities could be severally utilized to achieve the urban UAP targets by 2015:

- Increased awareness on town water supply provision by regional level and town administration officials
- Better environment for integration and harmonization of WaSH intervention in towns and regions
- The Joint technical review of the WaSh program by all stakeholders and the ongoing dialogue of stakeholders in the successive MSFs provides favorable ground for generating resources
- The signing of the WaSH implementation Framework(WIF) by stakeholders
- The WaSH coordination offices at all levels are getting stronger from time to time
- The capacity building pool fund is expected to enhance capacity in the process of the intervention



- The results of the evaluations done on UAP implementation in general and WaSH program in particular would be helpful in refining strategies and approaches. Accordingly the water supply package produced has been disseminated to the management team at the regional, zonal and woreda levels
- The supply chain arrangement expected to be implemented soon will ease out the supply process required for the UAP intervention
- The ongoing fluoride mitigation study being carried out in the rift valley is expected to improve water quality for about 15 million people residing in the valley
- The ongoing capacity building of urban water supply and sewerage utilities will lay a good ground for accelerated implementation
- The nationwide infrastructure development will be an asset in faster access and communication during the intervention
- The possibility of obtaining the human resources required for the intervention is very high due to the fact that tens of thousands of professionals are graduating from the 23 universities, numerous colleges and TVETCs
- The ongoing domestic financial mobilization that enabled the country to generate billions of Birr in a few months time for the renaissance dam could be extended towards achieving the UAP targets
- The national and international level focus on environmental protection could serve as a guarantee for water sources development in the course of the UAP intervention. Some places like Tigray where extensive catchment management has been introduced have shown up to 60 % improvement of water resources.

## 9.2. Risks

- The economic recession that is affecting the capacity of donor nations in financially supporting the UAP
- The slow financial disbursement process of donors and banks
- The price escalation of construction materials and labor
- The limited implementation of the sector
- The limited Coordination capacity of the WaSH Program
- The limited number of qualified professionals in urban water supply and sewerage utilities
- High turn of professionals and skilled workers
- The uncontrolled growth of urban population that is not compatible with available resources
- Water sources are being diminished due to climate change
- Hesitation on scaling up local action by stakeholders

## 10. Conclusion

The objective of the urban UAP is to provide reliable and sustainable water supply and sanitation services to multitude Ethiopians residing in urban areas. An overall estimated amount of 594 million USD<sup>6</sup> is required for achieving 100% water supply access by 2015. Of the overall amount 547.4 million USD will be used for program implementation, 27.4 million USD for environmental safeguard and 19.2 million USD for program management as indicated above. A committed Participatory monitoring and evaluation system shall be put in place at all levels so that timely measures for keeping pace with the ambitious but achievable targets. In other words the WaSH M&E should be at the core of the woreda, zonal, regional and federal administrations since providing reliable and sustainable WaSH services is the key to the nation's productivity and development.

## 11. The way forward

The water sector shall keep on strengthening coordination and implementation capacity by taking lessons from the transport, hydropower and building sectors which created local capacity by creating an enabling environment for skill transfer. The MSF and JTR shall further be used in scaling up integration and harmonization of WaSH intervention in the years to come. Stakeholders shall undertake WaSH activities based on the signed WaSH implementation framework which will be the umbrella of the universal access plan and the national hygiene and sanitation strategic action plan. Higher learning institutes shall actively be used in developing appropriate technologies and contribute their part in generating cost effective design and construction approaches. The design criteria being used so far needs to be revised quickly in order to ensure cost effective design. Guidelines ,Implementation manuals and standards also need to be updated and expanded in such a way cost effective study and design could be speeded up, The use of materials like epoxy and enamel painted spirally welded steel pipes, HDPE pipes etc needs to be encouraged for accelerating procurement process as such materials can easily be manufactured locally. A situation whereby water boards manage town water supply and sewerage utilities based on signed performance contract in a commercially viable way shall be the way to go for during the planning period and beyond.

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<sup>6</sup> *The amount is slightly higher than the PASDEP II amount of USD 588,879,600 using an exchange rate of 1USD= 14ETB (rounded) in August 2010 when the document was finalized. Though details are not readily available, the above amount incorporated in the PASDEP II document was directly taken from the regional plans with some corrections wherever required. The fact that the figure obtained from the model is close to the stated amount justifies the GTP figures adopted from PASDEP II.*

## 12. References

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Annexes

**Annex 1: Population Projection of Towns by Region**

a) Afar Region

I.No	Region	Zone	Woreda	Town	Base Population	Projected population									
						2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
	Growth rate					4.20%	4.20%	4.20%	4.20%	4.00%	4.00%	4.00%	4.00%	4.00%	3.80%
1	Afar	Zone 1	DUBTI	DUBTI	19,192	19,998	20,838	21,713	22,582	23,485	24,424	25,401	26,417	27,421	
2				Logiya	18,309	19,078	19,879	20,714	21,543	22,405	23,301	24,233	25,202	26,160	
3				Date Bahri	2,037	2,123	2,212	2,305	2,397	2,493	2,593	2,697	2,805	2,912	
4				Samera	3,423	3,567	3,717	3,873	4,028	4,189	4,357	4,531	4,712	4,891	
5			ELIDAR	Manda	2,157	2,248	2,342	2,440	2,538	2,640	2,746	2,856	2,970	3,083	
6				Bure	1,600	1,667	1,737	1,810	1,882	1,957	2,035	2,116	2,201	2,285	
7				Elidar	2,137	2,227	2,321	2,418	2,515	2,616	2,721	2,830	2,943	3,055	
8				Dichoto	3,035	3,162	3,295	3,433	3,570	3,713	3,862	4,016	4,177	4,336	
9				Dobi	2,082	2,169	2,260	2,355	2,449	2,547	2,649	2,755	2,865	2,974	
10				Wuha Limat	197	205	214	223	232	241	251	261	271	281	
11				Sa'ala	728	759	791	824	857	891	927	964	1,003	1,041	
12				Galafi	756	788	821	855	889	925	962	1,000	1,040	1,080	
13			ASAYITA	ASAYITA	20,936	21,815	22,731	23,686	24,633	25,618	26,643	27,709	28,817	29,912	
14			AFAMBO	AFAMBO	1,072	1,117	1,164	1,213	1,262	1,312	1,364	1,419	1,476	1,532	
15			MILE	MILE	11,500	11,983	12,486	13,010	13,530	14,071	14,634	15,219	15,828	16,429	
16				Eliwuha-	7,030	7,325	7,633	7,954	8,272	8,603	8,947	9,305	9,677	10,045	

URBAN WATER  
SUPPLY UAP

I.No	Region	Zone	Woreda	Town	Base Population	Projected population								
17			CHIFERA	CHIFERA	11,911	12,411	12,932	13,475	14,014	14,575	15,158	15,764	16,395	17,018
18		ZONE 2	ERABTI	Lakora	977	1,018	1,061	1,106	1,150	1,196	1,244	1,294	1,346	1,397
19			KONABA	KONABA	3,953	4,119	4,292	4,472	4,651	4,837	5,030	5,231	5,440	5,647
20			ABALA	ABALA	13,435	13,999	14,587	15,200	15,808	16,440	17,098	17,782	18,493	19,196
21			MEGALE	Lile	916	954	994	1,036	1,077	1,120	1,165	1,212	1,260	1,308
22			BERAHILE	BERAHILE	7,953	8,287	8,635	8,998	9,358	9,732	10,121	10,526	10,947	11,363
23			DALOL	Adkuwa	2,291	2,387	2,487	2,591	2,695	2,803	2,915	3,032	3,153	3,273
24			AFDERA	AFDERA	4,667	4,863	5,067	5,280	5,491	5,711	5,939	6,177	6,424	6,668
25		ZONE 3	AMIBARA	Melka Werer	10,195	10,623	11,069	11,534	11,995	12,475	12,974	13,493	14,033	14,566
26				Melka Sedi	7,163	7,464	7,777	8,104	8,428	8,765	9,116	9,481	9,860	10,235
27				Andido	713	743	774	807	839	873	908	944	982	1,019
28				Awash Sheleko	7,342	7,650	7,971	8,306	8,638	8,984	9,343	9,717	10,106	10,490
29				Awash Arba	6,578	6,854	7,142	7,442	7,740	8,050	8,372	8,707	9,055	9,399
30				Serkam	2,517	2,623	2,733	2,848	2,962	3,080	3,203	3,331	3,464	3,596
31				Kifil Sost	1,735	1,808	1,884	1,963	2,042	2,124	2,209	2,297	2,389	2,480
32				Berta	456	475	495	516	537	558	580	603	627	651
33			AWASH FENTALE	Sabure	2,568	2,676	2,788	2,905	3,021	3,142	3,268	3,399	3,535	3,669
34				Awash Sidist Kilo	19,407	20,222	21,071	21,956	22,834	23,747	24,697	25,685	26,712	27,727
35			GEWANE	GEWANE	7,807	8,135	8,477	8,833	9,186	9,553	9,935	10,332	10,745	11,153
36			DULECHA	DULECHA	1,552	1,617	1,685	1,756	1,826	1,899	1,975	2,054	2,136	2,217

URBAN WATER  
SUPPLY UAP

I.N o	Region	Zone	Woreda	Town	Base Populati on	Projected population								
37			ARGOBA SPECIAL	Gachine	2,825	2,944	3,068	3,197	3,325	3,458	3,596	3,740	3,890	4,038
38		ZONE 4	AWURA	Derayitu-	2,154	2,244	2,338	2,436	2,533	2,634	2,739	2,849	2,963	3,076
39			EWA	Aele Sulula	1,613	1,681	1,752	1,826	1,899	1,975	2,054	2,136	2,221	2,305
40			TERU	Alelo	2,397	2,498	2,603	2,712	2,820	2,933	3,050	3,172	3,299	3,424
41			YALO	Gebdora	1,031	1,074	1,119	1,166	1,213	1,262	1,312	1,364	1,419	1,473
42			GOLINA	Keliwan	5,119	5,334	5,558	5,791	6,023	6,264	6,515	6,776	7,047	7,315
43		ZONE 5	TELALAK	Namelafen	2,543	2,650	2,761	2,877	2,992	3,112	3,236	3,365	3,500	3,633
44			SEMUROBIN A GELAL	Kumame	1,219	1,270	1,323	1,379	1,434	1,491	1,551	1,613	1,678	1,742
45			DAWE	Wedarage	2,973	3,098	3,228	3,364	3,499	3,639	3,785	3,936	4,093	4,249
46			DALIFAGI	Dalifagi	6,494	6,767	7,051	7,347	7,641	7,947	8,265	8,596	8,940	9,280
47			HADELEALA	Hadeleala	2,764	2,880	3,001	3,127	3,252	3,382	3,517	3,658	3,804	3,949
	<b>Total</b>				<b>241,459</b>	<b>251,599</b>	<b>262,164</b>	<b>273,176</b>	<b>284,102</b>	<b>295,467</b>	<b>307,286</b>	<b>319,578</b>	<b>332,360</b>	<b>344,993</b>

b) Gambella Region

URBAN WATER  
SUPPLY UAP

I.No	Region	Zone	Woreda	Town	Base Populatio n	Projected population									
						2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
	Growth rate					4.20%	4.20%	4.20%	4.20%	4.00%	4.00%	4.00%	4.00%	4.00%	3.80%
1	Gambella	AGNEWAK	GAMBELLA ZURIYA	Abol	1,536	1,601	1,668	1,738	1,808	1,880	1,955	2,033	2,114	2,194	
2			ABOBO	Abobo	5,733	5,974	6,225	6,486	6,745	7,015	7,296	7,588	7,892	8,192	
3			GOG	Pigniwedo	7,873	8,204	8,549	8,908	9,264	9,635	10,020	10,421	10,838	11,250	
4			JOR	Shintawa	887	924	963	1,003	1,043	1,085	1,128	1,173	1,220	1,266	
5			DIMA	Dima	2,947	3,071	3,200	3,334	3,467	3,606	3,750	3,900	4,056	4,210	
6			GAMBELA	Gambela	54,691	56,988	59,381	61,875	64,350	66,924	69,601	72,385	75,280	78,141	
7		NUWER	LARE	Kowerneng	9,179	9,565	9,967	10,386	10,801	11,233	11,682	12,149	12,635	13,115	
8			JIKAWO	Nginngang	3,169	3,302	3,441	3,586	3,729	3,878	4,033	4,194	4,362	4,528	
9			WANTAWO	Metar	3,996	4,164	4,339	4,521	4,702	4,890	5,086	5,289	5,501	5,710	
10			AKOBO	Tergol	848	884	921	960	998	1,038	1,080	1,123	1,168	1,212	
11		MEJENGER	GODARE	GODARE	10,007	10,427	10,865	11,321	11,774	12,245	12,735	13,244	13,774	14,297	
12		ETANG SPECIAL- WEREDA	ETANG	Etang	8,351	8,702	9,067	9,448	9,826	10,219	10,628	11,053	11,495	11,932	
	<b>Total</b>				<b>109,217</b>	<b>113,806</b>	<b>118,586</b>	<b>123,566</b>	<b>128,507</b>	<b>133,648</b>	<b>138,994</b>	<b>144,552</b>	<b>150,335</b>	<b>156,047</b>	

c) Harari



URBAN WATER  
SUPPLY UAP

I.No	Region	Zone	Woreda	Town	Base Population	Projected population								
						2011	2012	2013	2014	2015	2016	2017	2018	2019
	Growth rate				4.20%	4.20%	4.20%	4.20%	4.00%	4.00%	4.00%	4.00%	4.00%	3.80%
1	Harari			HARAR	108,188	112,732	117,467	122,401	127,297	132,389	137,685	143,192	148,920	154,579
<b>Total</b>					<b>108,188</b>	<b>112,732</b>	<b>117,467</b>	<b>122,401</b>	<b>127,297</b>	<b>132,389</b>	<b>137,685</b>	<b>143,192</b>	<b>148,920</b>	<b>154,579</b>

d) Addis Ababa

I.No	Region	Zone	Woreda	Town	Base Population	Projected population								
						2011	2012	2013	2014	2015	2016	2017	2018	2019
	Growth rate				4.20%	4.20%	4.20%	4.20%	4.00%	4.00%	4.00%	4.00%	4.00%	3.80%
1	ADDIS ABABA CITY ADMINISTRATION			Addis Abab	2,979,086	3,104,208	3,234,585	3,370,438	3,505,256	3,645,466	3,791,285	3,942,936	4,100,653	4,256,478
<b>Total</b>					<b>2,979,086</b>	<b>3,104,208</b>	<b>3,234,585</b>	<b>3,370,438</b>	<b>3,505,256</b>	<b>3,645,466</b>	<b>3,791,285</b>	<b>3,942,936</b>	<b>4,100,653</b>	<b>4,256,478</b>

e) Dire Dawa

I.No	Region	Zone	Woreda	Town	Base Population	Projected population								
						2011	2012	2013	2014	2015	2016	2017	2018	2019
	Growth rate				4.20%	4.20%	4.20%	4.20%	4.00%	4.00%	4.00%	4.00%	4.00%	3.80%
1	Dire Dawa CITY ADMINISTRATION			Dire Dawa	256,774	267,559	278,796	290,505	302,125	314,210	326,778	339,849	353,443	366,874
	<b>Total</b>				<b>256,774</b>	<b>267,559</b>	<b>278,796</b>	<b>290,505</b>	<b>302,125</b>	<b>314,210</b>	<b>326,778</b>	<b>339,849</b>	<b>353,443</b>	<b>366,874</b>

f) Benishangul Gumuz

I.No	Region	Zone	Woreda	Town	Base Population	Projected population								
						2011	2012	2013	2014	2015	2016	2017	2018	2019
	Growth rate				4.20%	4.20%	4.20%	4.20%	4.00%	4.00%	4.00%	4.00%	4.00%	3.80%
1	BENISHANGUL GUMZ	METEKEL	DANGUR	Manibuk	11,835	12,332	12,850	13,390	13,926	14,483	15,062	15,664	16,291	16,910
2			GUBA	Mankush	3,315	3,454	3,599	3,750	3,900	4,056	4,218	4,387	4,562	4,735
3			WENBERA	Debire Zeyit	7,760	8,086	8,426	8,780	9,131	9,496	9,876	10,271	10,682	11,088
4			MANDURA	Genete Mariam	6,456	6,727	7,010	7,304	7,596	7,900	8,216	8,545	8,887	9,225
5				Gelgel Beles	4,197	4,373	4,557	4,748	4,938	5,136	5,341	5,555	5,777	5,997
6			DIBATE	Dibate	10,485	10,925	11,384	11,862	12,336	12,829	13,342	13,876	14,431	14,979
7			BULEN	Bulen	9,255	9,644	10,049	10,471	10,890	11,326	11,779	12,250	12,740	13,224
8		ASOSA	MENGE	Menge	1,560	1,626	1,694	1,765	1,836	1,909	1,985	2,064	2,147	2,229
9			KURMUK	Hore Azahab	784	817	851	887	922	959	997	1,037	1,078	1,119
10			ASOSA	Asosa	34,313	35,754	37,256	38,821	40,374	41,989	43,669	45,416	47,233	49,028
11			SHERKOLE	Sherkole	1,279	1,333	1,389	1,447	1,505	1,565	1,628	1,693	1,761	1,828

## URBAN WATER SUPPLY UAP

I.No	Region	Zone	Woreda	Town	Base Population	Projected population								
						2011	2012	2013	2014	2015	2016	2017	2018	2019
12			BAMBASI	Bambasi	12,960	13,504	14,071	14,662	15,248	15,858	16,492	17,152	17,838	18,516
13			ODA BILIDIGILU	Bilidigilu	4,485	4,673	4,869	5,073	5,276	5,487	5,706	5,934	6,171	6,405
14			HOMOSHA	Homosha	1,240	1,292	1,346	1,403	1,459	1,517	1,578	1,641	1,707	1,772
15		KAMASHI	YASO	Yaso	2,008	2,092	2,180	2,272	2,363	2,458	2,556	2,658	2,764	2,869
16			SIRBA ABAY	Koncho	3,862	4,024	4,193	4,369	4,544	4,726	4,915	5,112	5,316	5,518
17			KAMASHI	Kamishi	8,385	8,737	9,104	9,486	9,865	10,260	10,670	11,097	11,541	11,980
18			AGALO METI	Meti	2,938	3,061	3,190	3,324	3,457	3,595	3,739	3,889	4,045	4,199
19			BELOJIGANFO	Soge	3,914	4,078	4,249	4,427	4,604	4,788	4,980	5,179	5,386	5,591
20		PAWE SPECIAL	PAWE SPECIAL	Alimu	4,636	4,831	5,034	5,245	5,455	5,673	5,900	6,136	6,381	6,623
21				Adis Alem	5,963	6,213	6,474	6,746	7,016	7,297	7,589	7,893	8,209	8,521
22				Felege Selam	3,667	3,821	3,981	4,148	4,314	4,487	4,666	4,853	5,047	5,239
23		MAO KOMO SPECIAL	MAO KOMO SPECIAL	Tongo	4,806	5,008	5,218	5,437	5,654	5,880	6,115	6,360	6,614	6,865
<b>Total</b>					<b>150,103</b>	<b>156,405</b>	<b>162,974</b>	<b>169,817</b>	<b>176,609</b>	<b>183,674</b>	<b>191,019</b>	<b>198,662</b>	<b>206,608</b>	<b>214,460</b>

### g) Somali Region

I.No	Region	Zone	Woreda	Town	Base Population	Projected population									
						2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
						2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
						4.20%	4.20%	4.20%	4.20%	4.00%	4.00%	4.00%	4.00%	4.00%	3.80%
1	Somali	SHINILE	AYISHA	Ayisha	3,863	4,025	4,194	4,370	4,545	4,727	4,916	5,113	5,318	5,520	
2				Dewelee	5,158	5,375	5,601	5,836	6,069	6,312	6,564	6,827	7,100	7,370	
3			DENBEL	Denbel	1,484	1,546	1,611	1,679	1,746	1,816	1,889	1,965	2,044	2,122	
4				Semekab	5,488	5,718	5,958	6,208	6,456	6,714	6,983	7,262	7,552	7,839	
5				Dure	2,226	2,319	2,416	2,517	2,618	2,723	2,832	2,945	3,063	3,179	
6				Biyo Bahe	1,740	1,813	1,889	1,968	2,047	2,129	2,214	2,303	2,395	2,486	
7				Harmukale	1,586	1,653	1,722	1,794	1,866	1,941	2,019	2,100	2,184	2,267	
8				Arabi	2,923	3,046	3,174	3,307	3,439	3,577	3,720	3,869	4,024	4,177	

URBAN WATER  
SUPPLY UAP

I.No	Region	Zone	Woreda	Town	Base Population	Projected population								
9			SHINILE	Shinile	9,380	9,774	10,185	10,613	11,038	11,480	11,939	12,417	12,914	13,405
10				Adigala	6,604	6,881	7,170	7,471	7,770	8,081	8,404	8,740	9,090	9,435
11				Harewa	4,342	4,524	4,714	4,912	5,108	5,312	5,524	5,745	5,975	6,202
12				Milo	2,084	2,172	2,263	2,358	2,452	2,550	2,652	2,758	2,868	2,977
13			ERER	Erer	4,653	4,848	5,052	5,264	5,475	5,694	5,922	6,159	6,405	6,648
14				Asbuli	683	712	742	773	804	836	869	904	940	976
15				Ayidora	4,735	4,934	5,141	5,357	5,571	5,794	6,026	6,267	6,518	6,766
16				Hurso	4,254	4,433	4,619	4,813	5,006	5,206	5,414	5,631	5,856	6,079
17			MULO	Mulo	1,022	1,065	1,110	1,157	1,203	1,251	1,301	1,353	1,407	1,460
18			AFDEM	Afdem	1,759	1,833	1,910	1,990	2,070	2,153	2,239	2,329	2,422	2,514
19				Bike	7,000	7,294	7,600	7,919	8,236	8,565	8,908	9,264	9,635	10,001
20				Alejer	1,751	1,825	1,902	1,982	2,061	2,143	2,229	2,318	2,411	2,503
21		JIJIGA	BABILE	Babile	1,441	1,502	1,565	1,631	1,696	1,764	1,835	1,908	1,984	2,059
22			GURSUM	Fafem	1,696	1,767	1,841	1,918	1,995	2,075	2,158	2,244	2,334	2,423
23				Bombas	1,666	1,736	1,809	1,885	1,960	2,038	2,120	2,205	2,293	2,380
24			JIJIGA	Jijiga	142,470	148,454	154,689	161,186	167,633	174,338	181,312	188,564	196,107	203,559
25			AWUBERE	Awubere	12,238	12,752	13,288	13,846	14,400	14,976	15,575	16,198	16,846	17,486
26				Derwonaji	12,927	13,470	14,036	14,626	15,211	15,819	16,452	17,110	17,794	18,470
27				Lefeisa	3,484	3,630	3,782	3,941	4,099	4,263	4,434	4,611	4,795	4,977
28				Togo Chale	16,341	17,027	17,742	18,487	19,226	19,995	20,795	21,627	22,492	23,347
29			KEBRI BEYAH	Kebri Beyah	12,994	13,540	14,109	14,702	15,290	15,902	16,538	17,200	17,888	18,568
30				Hartishek	15,859	16,525	17,219	17,942	18,660	19,406	20,182	20,989	21,829	22,659
31			HARSHIN	Harshin	9,311	9,702	10,109	10,534	10,955	11,393	11,849	12,323	12,816	13,303
32		DEGEHABUR	DEGEHAMEDO	Degehamedo	1,431	1,491	1,554	1,619	1,684	1,751	1,821	1,894	1,970	2,045
33			DEGEHABUR	Degehabur	33,986	35,413	36,900	38,450	39,988	41,588	43,252	44,982	46,781	48,559
34			AWARE	Aware	5,548	5,781	6,024	6,277	6,528	6,789	7,061	7,343	7,637	7,927
35				Derur	3,995	4,163	4,338	4,520	4,701	4,889	5,085	5,288	5,500	5,709
36				Aboker	4,579	4,771	4,971	5,180	5,387	5,602	5,826	6,059	6,301	6,540

# URBAN WATER SUPPLY UAP

I.No	Region	Zone	Woreda	Town	Base Population	Projected population								
37				Rabas	4,575	4,767	4,967	5,176	5,383	5,598	5,822	6,055	6,297	6,536
38			GASHAMO	GASHAMO	2,401	2,502	2,607	2,716	2,825	2,938	3,056	3,178	3,305	3,431
39				Gewlele	5,136	5,352	5,577	5,811	6,043	6,285	6,536	6,797	7,069	7,338
40			GUNAGUDO	GUNAGUDO	9,183	9,569	9,971	10,390	10,806	11,238	11,688	12,156	12,642	13,122
41		WARDER	DANOT	DANOT	1,305	1,360	1,417	1,477	1,536	1,597	1,661	1,727	1,796	1,864
42			BOH	BOH	4,896	5,102	5,316	5,539	5,761	5,991	6,231	6,480	6,739	6,995
43				Dimeryad	1,701	1,772	1,846	1,924	2,001	2,081	2,164	2,251	2,341	2,430
44				Merkan	3,819	3,979	4,146	4,320	4,493	4,673	4,860	5,054	5,256	5,456
45			GELADIN	GELADIN	10,432	10,870	11,327	11,803	12,275	12,766	13,277	13,808	14,360	14,906
46			WARDER	WARDER	10,425	10,863	11,319	11,794	12,266	12,757	13,267	13,798	14,350	14,895
47			SHEKOSH	SHEKOSH	3,862	4,024	4,193	4,369	4,544	4,726	4,915	5,112	5,316	5,518
48				Birkot	760	792	825	860	894	930	967	1,006	1,046	1,086
49			KEBRIDEHAR	KEBRIDEHAR	33,096	34,486	35,934	37,443	38,941	40,499	42,119	43,804	45,556	47,287
50			SHILABO	SHILABO	5,573	5,807	6,051	6,305	6,557	6,819	7,092	7,376	7,671	7,962
51			DEBEWOIN	Harad	10,593	11,038	11,502	11,985	12,464	12,963	13,482	14,021	14,582	15,136
52		FIK	SELEHAD	Gelelcha	938	977	1,018	1,061	1,103	1,147	1,193	1,241	1,291	1,340
53			FIK	FIK	13,708	14,284	14,884	15,509	16,129	16,774	17,445	18,143	18,869	19,586
54			GERBO	Gerbi	7,630	7,950	8,284	8,632	8,977	9,336	9,709	10,097	10,501	10,900
55			HAMERO	HAMERO	1,377	1,435	1,495	1,558	1,620	1,685	1,752	1,822	1,895	1,967
56			SEGEG	SEGEG	5,067	5,280	5,502	5,733	5,962	6,200	6,448	6,706	6,974	7,239
57			DIHUN	DIHUN	2,508	2,613	2,723	2,837	2,950	3,068	3,191	3,319	3,452	3,583
58			LEGEHIDA	LEGEHIDA	2,467	2,571	2,679	2,792	2,904	3,020	3,141	3,267	3,398	3,527
59			MEYU MULUKE	MEYU MULUKE	4,705	4,903	5,109	5,324	5,537	5,758	5,988	6,228	6,477	6,723
60		GODE	IMIBERI	Misrak Imi	12,906	13,448	14,013	14,602	15,186	15,793	16,425	17,082	17,765	18,440
61			ADADILO	ADADILO	6,320	6,585	6,862	7,150	7,436	7,733	8,042	8,364	8,699	9,030
62			DANAN	DANAN	6,944	7,236	7,540	7,857	8,171	8,498	8,838	9,192	9,560	9,923
63			GODE	GODE	48,933	50,988	53,129	55,360	57,574	59,877	62,272	64,763	67,354	69,913
64			KELAFO	KELAFO	12,842	13,381	13,943	14,529	15,110	15,714	16,343	16,997	17,677	18,349

## URBAN WATER SUPPLY UAP

I.No	Region	Zone	Woreda	Town	Base Population	Projected population								
						2011	2012	2013	2014	2015	2016	2017	2018	2019
65			MUSTAHL	MUSTAHL	6,988	7,281	7,587	7,906	8,222	8,551	8,893	9,249	9,619	9,985
66			FERFER	FERFER	2,359	2,458	2,561	2,669	2,776	2,887	3,002	3,122	3,247	3,370
67				Burkur	4,112	4,285	4,465	4,653	4,839	5,033	5,234	5,443	5,661	5,876
68		AFDER	GURADAMOLE	GURADAMOLE	1,094	1,140	1,188	1,238	1,288	1,340	1,394	1,450	1,508	1,565
69			WEYIB	Cherti	5,831	6,076	6,331	6,597	6,861	7,135	7,420	7,717	8,026	8,331
70			GORO BEKEKSA	GORO BEKEKSA	4,648	4,843	5,046	5,258	5,468	5,687	5,914	6,151	6,397	6,640
71			SERER	Elkere	2,011	2,095	2,183	2,275	2,366	2,461	2,559	2,661	2,767	2,872
72			MIRAB IMI	MIRAB IMI	8,938	9,313	9,704	10,112	10,516	10,937	11,374	11,829	12,302	12,769
73			AFKER	Guda Asebo	1,430	1,490	1,553	1,618	1,683	1,750	1,820	1,893	1,969	2,044
74				Hargele	6,426	6,696	6,977	7,270	7,561	7,863	8,178	8,505	8,845	9,181
75			BARE	BARE	9,187	9,573	9,975	10,394	10,810	11,242	11,692	12,160	12,646	13,127
76			DOLOBAY	Woldeya	8,119	8,460	8,815	9,185	9,552	9,934	10,331	10,744	11,174	11,599
77			KERSA DULA	KERSA DUL	4,110	4,283	4,463	4,650	4,836	5,029	5,230	5,439	5,657	5,872
78		LIBEN	FILTU	FILTU	5,627	5,863	6,109	6,366	6,621	6,886	7,161	7,447	7,745	8,039
79			DOLO ODO	Dolo	29,793	31,044	32,348	33,707	35,055	36,457	37,915	39,432	41,009	42,567
80				Buramino	4,033	4,202	4,378	4,562	4,744	4,934	5,131	5,336	5,549	5,760
81				Bokol May	8,508	8,865	9,237	9,625	10,010	10,410	10,826	11,259	11,709	12,154
82			UDET	UDET	5,112	5,327	5,551	5,784	6,015	6,256	6,506	6,766	7,037	7,304
<b>Total</b>					<b>705,129</b>	<b>734,742</b>	<b>765,599</b>	<b>797,757</b>	<b>829,664</b>	<b>862,848</b>	<b>897,363</b>	<b>933,261</b>	<b>970,593</b>	<b>1,007,474</b>

### h) Amhara

I.No	Region	Zone	Woreda	Town	Base Population	Projected population									
						2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
						2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
		Growth rate				4.20%	4.20%	4.20%	4.20%	4.00%	4.00%	4.00%	4.00%	4.00%	3.80%
1	Amhara	NORTH GONDAR	ADI ARKAY	ADI ARKAY	7,063	7,360	7,669	7,991	8,311	8,643	8,989	9,349	9,723	10,092	
2				Zarima	4,360	4,543	4,734	4,933	5,130	5,335	5,548	5,770	6,001	6,229	
3			BEYEDA	Dil Yibza	3,644	3,797	3,956	4,122	4,287	4,458	4,636	4,821	5,014	5,205	

## URBAN WATER SUPPLY UAP

I.No	Region	Zone	Woreda	Town	Base Population	Projected population								
4			JANAMORA	Mekane Berhan	5,578	5,812	6,056	6,310	6,562	6,824	7,097	7,381	7,676	7,968
5			DEBARK	DEBARK	22,940	23,903	24,907	25,953	26,991	28,071	29,194	30,362	31,576	32,776
6			DABAT	DABAT	13,846	14,428	15,034	15,665	16,292	16,944	17,622	18,327	19,060	19,784
7				Weken	3,581	3,731	3,888	4,051	4,213	4,382	4,557	4,739	4,929	5,116
8			MIRAB ARMACHIHO	Abreha Jara	4,610	4,804	5,006	5,216	5,425	5,642	5,868	6,103	6,347	6,588
9				Abderafi	11,761	12,255	12,770	13,306	13,838	14,392	14,968	15,567	16,190	16,805
10			TEGEDE	Kirakir	3,021	3,148	3,280	3,418	3,555	3,697	3,845	3,999	4,159	4,317
11				Soroka	2,858	2,978	3,103	3,233	3,362	3,496	3,636	3,781	3,932	4,081
12			LAY ARMACHO	Tikil Dingay	13,848	14,430	15,036	15,668	16,295	16,947	17,625	18,330	19,063	19,787
13			WEGERA	Gedebigie	7,167	7,468	7,782	8,109	8,433	8,770	9,121	9,486	9,865	10,240
14				Amba Giyorgis	13,382	13,944	14,530	15,140	15,746	16,376	17,031	17,712	18,420	19,120
15			GONDER ZURIYA	Maksegnit	12,532	13,058	13,606	14,177	14,744	15,334	15,947	16,585	17,248	17,903
16				Degoma	2,696	2,809	2,927	3,050	3,172	3,299	3,431	3,568	3,711	3,852
17				Enfranz	4,941	5,149	5,365	5,590	5,814	6,047	6,289	6,541	6,803	7,062
18			DEMBIA	Chuahit	7,495	7,810	8,138	8,480	8,819	9,172	9,539	9,921	10,318	10,710
19				Koladiba	13,318	13,877	14,460	15,067	15,670	16,297	16,949	17,627	18,332	19,029
20				Gorgora	2,118	2,207	2,300	2,397	2,493	2,593	2,697	2,805	2,917	3,028
21				Ayimba	2,747	2,862	2,982	3,107	3,231	3,360	3,494	3,634	3,779	3,923
22			CHILGA	Seraba	2,996	3,122	3,253	3,390	3,526	3,667	3,814	3,967	4,126	4,283
23				Ayikel	16,641	17,340	18,068	18,827	19,580	20,363	21,178	22,025	22,906	23,776
24				Negade Bahir	3,199	3,333	3,473	3,619	3,764	3,915	4,072	4,235	4,404	4,571
25			METEMA	Metema Yohanis	11,118	11,585	12,072	12,579	13,082	13,605	14,149	14,715	15,304	15,886
26				Shehedi	1,668	1,738	1,811	1,887	1,962	2,040	2,122	2,207	2,295	2,382
27				Shinfa	4,284	4,464	4,651	4,846	5,040	5,242	5,452	5,670	5,897	6,121
28				Kokit	2,953	3,077	3,206	3,341	3,475	3,614	3,759	3,909	4,065	4,219
29				Genda Wuha	12,371	12,891	13,432	13,996	14,556	15,138	15,744	16,374	17,029	17,676
30			QUARA	Gulegu	5,167	5,384	5,610	5,846	6,080	6,323	6,576	6,839	7,113	7,383
31			ALEFA	Gomenge	2,345	2,443	2,546	2,653	2,759	2,869	2,984	3,103	3,227	3,350

# URBAN WATER SUPPLY UAP

I.No	Region	Zone	Woreda	Town	Base Population	Projected population								
32				Esey Debr	1,726	1,798	1,874	1,953	2,031	2,112	2,196	2,284	2,375	2,465
33				Dengel Ber	3,749	3,906	4,070	4,241	4,411	4,587	4,770	4,961	5,159	5,355
34				Shahura	4,995	5,205	5,424	5,652	5,878	6,113	6,358	6,612	6,876	7,137
35			MIRAB BELESA	Aribaya	8,400	8,753	9,121	9,504	9,884	10,279	10,690	11,118	11,563	12,002
36			MISRRAK BELESA	Hamusit	7,507	7,822	8,151	8,493	8,833	9,186	9,553	9,935	10,332	10,725
37				Gwehila	6,796	7,081	7,378	7,688	7,996	8,316	8,649	8,995	9,355	9,710
38			GONDER	GONDER	227,115	236,654	246,593	256,950	267,228	277,917	289,034	300,595	312,619	324,499
39			TACH ARMACHOHO	Sanja	9,468	9,866	10,280	10,712	11,140	11,586	12,049	12,531	13,032	13,527
40				Masero Denb	3,997	4,165	4,340	4,522	4,703	4,891	5,087	5,290	5,502	5,711
41			TAKUSA	Delgi	7,790	8,117	8,458	8,813	9,166	9,533	9,914	10,311	10,723	11,130
42			EBINAT	EBINAT	13,187	13,741	14,318	14,919	15,516	16,137	16,782	17,453	18,151	18,841
43		SOUTH GONDAR	LIBOKEMKEM	Adis Zemen	17,582	18,320	19,089	19,891	20,687	21,514	22,375	23,270	24,201	25,121
44				Yafiga	4,455	4,642	4,837	5,040	5,242	5,452	5,670	5,897	6,133	6,366
45				Ambo Meda	2,068	2,155	2,246	2,340	2,434	2,531	2,632	2,737	2,846	2,954
46			FOGERA	Wereta	23,200	24,174	25,189	26,247	27,297	28,389	29,525	30,706	31,934	33,147
47				Amedber	4,360	4,543	4,734	4,933	5,130	5,335	5,548	5,770	6,001	6,229
48			FARTA	Kimir Dingay	5,314	5,537	5,770	6,012	6,252	6,502	6,762	7,032	7,313	7,591
49				Gasay	2,087	2,175	2,266	2,361	2,455	2,553	2,655	2,761	2,871	2,980
50			LAY GAYINT	Nefas Mewicha	21,485	22,387	23,327	24,307	25,279	26,290	27,342	28,436	29,573	30,697
51				Gohgob	1,860	1,938	2,019	2,104	2,188	2,276	2,367	2,462	2,560	2,657
52				Sali	1,660	1,730	1,803	1,879	1,954	2,032	2,113	2,198	2,286	2,373
53			TACH GAYINT	Arb Gebeya	8,776	9,145	9,529	9,929	10,326	10,739	11,169	11,616	12,081	12,540
54			SIMADA	Wegada	11,273	11,746	12,239	12,753	13,263	13,794	14,346	14,920	15,517	16,107
55			MISRRAK ESTE	Este	15,174	15,811	16,475	17,167	17,854	18,568	19,311	20,083	20,886	21,680
56			DERA	Hamusit	7,835	8,164	8,507	8,864	9,219	9,588	9,972	10,371	10,786	11,196
57				Anibesema	6,859	7,147	7,447	7,760	8,070	8,393	8,729	9,078	9,441	9,800
58				Arib Gebeya	3,704	3,860	4,022	4,191	4,359	4,533	4,714	4,903	5,099	5,293
59			DEBRETABOR	DEBRETA BOR	60,758	63,310	65,969	68,740	71,490	74,350	77,324	80,417	83,634	86,812



# URBAN WATER SUPPLY UAP

I.No	Region	Zone	Woreda	Town	Base Population	Projected population								
60			MIRAB ESTE	Jara Gedo	2,394	2,495	2,600	2,709	2,817	2,930	3,047	3,169	3,296	3,421
61			KOBO	KOBO	27,172	28,313	29,502	30,741	31,971	33,250	34,580	35,963	37,402	38,823
62		NORTH WELLO		Robit	6,226	6,487	6,759	7,043	7,325	7,618	7,923	8,240	8,570	8,896
63				Gobeye	2,849	2,969	3,094	3,224	3,353	3,487	3,626	3,771	3,922	4,071
64			GIDAN	Muja	4,982	5,191	5,409	5,636	5,861	6,095	6,339	6,593	6,857	7,118
65				Kulmesk	3,481	3,627	3,779	3,938	4,096	4,260	4,430	4,607	4,791	4,973
66			MEKET	Filakit	12,866	13,406	13,969	14,556	15,138	15,744	16,374	17,029	17,710	18,383
67			WADLA	Kon	4,723	4,921	5,128	5,343	5,557	5,779	6,010	6,250	6,500	6,747
68			DELANTA	Wegel Tena	8,578	8,938	9,313	9,704	10,092	10,496	10,916	11,353	11,807	12,256
69			GUBALAFTO	Hara	5,349	5,574	5,808	6,052	6,294	6,546	6,808	7,080	7,363	7,643
70			HABRU	Mersa	17,615	18,355	19,126	19,929	20,726	21,555	22,417	23,314	24,247	25,168
71				Wergesa	6,017	6,270	6,533	6,807	7,079	7,362	7,656	7,962	8,280	8,595
72			WOLDIYA	WOLDIYA	50,413	52,530	54,736	57,035	59,316	61,689	64,157	66,723	69,392	72,029
73			LASTA	Lalibela	19,072	19,873	20,708	21,578	22,441	23,339	24,273	25,244	26,254	27,252
74			DAWUNT	Kurba	581	605	630	656	682	709	737	766	797	827
75			MEKDELA	Masha	5,620	5,856	6,102	6,358	6,612	6,876	7,151	7,437	7,734	8,028
76		SOUTH WELLO	TENTA	TENTA	3,018	3,145	3,277	3,415	3,552	3,694	3,842	3,996	4,156	4,314
77				Ajebar	6,800	7,086	7,384	7,694	8,002	8,322	8,655	9,001	9,361	9,717
78			KUTABER	KUTABER	5,396	5,623	5,859	6,105	6,349	6,603	6,867	7,142	7,428	7,710
79			AMBASEL	Wuchale	6,443	6,714	6,996	7,290	7,582	7,885	8,200	8,528	8,869	9,206
80			TEHULEDERE	Hayk	13,784	14,363	14,966	15,595	16,219	16,868	17,543	18,245	18,975	19,696
81				Sulula	1,039	1,083	1,128	1,175	1,222	1,271	1,322	1,375	1,430	1,484
82				Paso Mile	1,274	1,328	1,384	1,442	1,500	1,560	1,622	1,687	1,754	1,821
83			WEREBABO	Bestima	4,431	4,617	4,811	5,013	5,214	5,423	5,640	5,866	6,101	6,333
84				Bokekessa	2,930	3,053	3,181	3,315	3,448	3,586	3,729	3,878	4,033	4,186
85			KALU	Degan	4,988	5,197	5,415	5,642	5,868	6,103	6,347	6,601	6,865	7,126
86				Ancharo	753	785	818	852	886	921	958	996	1,036	1,075
87				Gerba	4,035	4,204	4,381	4,565	4,748	4,938	5,136	5,341	5,555	5,766

URBAN WATER  
SUPPLY UAP

I.No	Region	Zone	Woreda	Town	Base Population	Projected population								
88				Harbu	11,875	12,374	12,894	13,436	13,973	14,532	15,113	15,718	16,347	16,968
89			ALBUKO	Segno Gebeya	2,346	2,445	2,548	2,655	2,761	2,871	2,986	3,105	3,229	3,352
90				Degaga	1,462	1,523	1,587	1,654	1,720	1,789	1,861	1,935	2,012	2,088
91			LEGAMBO	Akesta	5,182	5,400	5,627	5,863	6,098	6,342	6,596	6,860	7,134	7,405
92				Genete	2,826	2,945	3,069	3,198	3,326	3,459	3,597	3,741	3,891	4,039
93			SAYINT	Ajibar	5,969	6,220	6,481	6,753	7,023	7,304	7,596	7,900	8,216	8,528
94			DEBRESINA	Mekane Selam	662	690	719	749	779	810	842	876	911	946
95				Seyo	8,828	9,199	9,585	9,988	10,388	10,804	11,236	11,685	12,152	12,614
96			KELELA	Kelala	6,120	6,377	6,645	6,924	7,201	7,489	7,789	8,101	8,425	8,745
97				Liguama	2,237	2,331	2,429	2,531	2,632	2,737	2,846	2,960	3,078	3,195
98			JAMA	Degolu	6,641	6,920	7,211	7,514	7,815	8,128	8,453	8,791	9,143	9,490
99			WERE ILU	WERE ILU	9,966	10,385	10,821	11,275	11,726	12,195	12,683	13,190	13,718	14,239
100				Kabe	2,498	2,603	2,712	2,826	2,939	3,057	3,179	3,306	3,438	3,569
101			WOGIDI	Mahidere Selam	4,942	5,150	5,366	5,591	5,815	6,048	6,290	6,542	6,804	7,063
102			KOMBOLCHA	KOMBOLCHA	64,248	66,946	69,758	72,688	75,596	78,620	81,765	85,036	88,437	91,798
103			DESSIE	DESSIE	131,640	137,169	142,930	148,933	154,890	161,086	167,529	174,230	181,199	188,085
104			LEGAHIDA	Woyin Amba	2,273	2,368	2,467	2,571	2,674	2,781	2,892	3,008	3,128	3,247
105			MIDA WOREMO	Rema	4,125	4,298	4,479	4,667	4,854	5,048	5,250	5,460	5,678	5,894
106		NORTH SHEWA		Meranga	3,596	3,747	3,904	4,068	4,231	4,400	4,576	4,759	4,949	5,137
107			MERHABETE	Alem Ketema	11,381	11,859	12,357	12,876	13,391	13,927	14,484	15,063	15,666	16,261
108				Fetira	2,962	3,086	3,216	3,351	3,485	3,624	3,769	3,920	4,077	4,232
109			ENSARO	Lemi	3,473	3,619	3,771	3,929	4,086	4,249	4,419	4,596	4,780	4,962
110			MORETNA JURU	Enewari	7,398	7,709	8,033	8,370	8,705	9,053	9,415	9,792	10,184	10,571
111				Jihur	2,454	2,557	2,664	2,776	2,887	3,002	3,122	3,247	3,377	3,505
112			MENZ GERA MIDIR	Mehal Meda	12,110	12,619	13,149	13,701	14,249	14,819	15,412	16,028	16,669	17,302
113			GISHE	Rabel	3,021	3,148	3,280	3,418	3,555	3,697	3,845	3,999	4,159	4,317
114			ANTSOKIYAN A GEMZA	Mekoye	7,241	7,545	7,862	8,192	8,520	8,861	9,215	9,584	9,967	10,346
115				Majete	6,489	6,762	7,046	7,342	7,636	7,941	8,259	8,589	8,933	9,272

# URBAN WATER SUPPLY UAP

I.No	Region	Zone	Woreda	Town	Base Population	Projected population								
116			EF RATANA GIDIM	Kara Kore	4,036	4,206	4,383	4,567	4,750	4,940	5,138	5,344	5,558	5,769
117				Ataye	12,689	13,222	13,777	14,356	14,930	15,527	16,148	16,794	17,466	18,130
118			MENZ MAMA MIDIR	Molale	7,131	7,431	7,743	8,068	8,391	8,727	9,076	9,439	9,817	10,190
119			TARMA BER	Mezezo	1,793	1,868	1,946	2,028	2,109	2,193	2,281	2,372	2,467	2,561
120				Debre Sina	9,514	9,914	10,330	10,764	11,195	11,643	12,109	12,593	13,097	13,595
121			MOJANA WODERA	Sela Dngay	2,709	2,823	2,942	3,066	3,189	3,317	3,450	3,588	3,732	3,874
122			KEWET	Shewa Robit	19,183	19,989	20,829	21,704	22,572	23,475	24,414	25,391	26,407	27,410
123			ANGOLALA TERA	Chacha	4,723	4,921	5,128	5,343	5,557	5,779	6,010	6,250	6,500	6,747
124				Kotu	1,477	1,539	1,604	1,671	1,738	1,808	1,880	1,955	2,033	2,110
125			ASAGIRT	Ginager	1,395	1,454	1,515	1,579	1,642	1,708	1,776	1,847	1,921	1,994
126			ANKOBER	Aliyo Amba	2,115	2,204	2,297	2,393	2,489	2,589	2,693	2,801	2,913	3,024
127				Gorbela	2,722	2,836	2,955	3,079	3,202	3,330	3,463	3,602	3,746	3,888
128			HAGERE MARIAM	Sholagebey a	2,388	2,488	2,592	2,701	2,809	2,921	3,038	3,160	3,286	3,411
129			BEREHET	Meteteh Bila	4,355	4,538	4,729	4,928	5,125	5,330	5,543	5,765	5,996	6,224
130			MINJARNA SHENKORA	Balchi	2,212	2,305	2,402	2,503	2,603	2,707	2,815	2,928	3,045	3,161
131				Arerti	11,173	11,642	12,131	12,641	13,147	13,673	14,220	14,789	15,381	15,965
132			BASONA WERANA	Gudobert	1,340	1,396	1,455	1,516	1,577	1,640	1,706	1,774	1,845	1,915
133			DEBRE BREHAN	DEBRE BREHAN	71,422	74,422	77,548	80,805	84,037	87,398	90,894	94,530	98,311	102,047
134			MENZ KEYA GEBREAL	Zemero	2,866	2,986	3,111	3,242	3,372	3,507	3,647	3,793	3,945	4,095
135			SAYA DEBERNA WAYU	Deneba	4,946	5,154	5,370	5,596	5,820	6,053	6,295	6,547	6,809	7,068
136			BIBUGN	Digua Tsion	5,614	5,850	6,096	6,352	6,606	6,870	7,145	7,431	7,728	8,022
137		EAST GOJAM		Woyin Wuha	1,207	1,258	1,311	1,366	1,421	1,478	1,537	1,598	1,662	1,725
138			HULET EJ ENESE	Keranio	1,879	1,958	2,040	2,126	2,211	2,299	2,391	2,487	2,586	2,684
139				Side	2,963	3,087	3,217	3,352	3,486	3,625	3,770	3,921	4,078	4,233
140				Mota	28,552	29,751	31,001	32,303	33,595	34,939	36,337	37,790	39,302	40,795
141			GONCHA SISO ENESE	Gend Wen	8,403	8,756	9,124	9,507	9,887	10,282	10,693	11,121	11,566	12,006
142			ENEBSE SAR MIDIR	Merito Lemariyam	13,415	13,978	14,565	15,177	15,784	16,415	17,072	17,755	18,465	19,167
143			ENARJ ENAWGA	Debireweri k	7,647	7,968	8,303	8,652	8,998	9,358	9,732	10,121	10,526	10,926

# URBAN WATER SUPPLY UAP

I.No	Region	Zone	Woreda	Town	Base Population	Projected population								
144				Felege Birihan	7,300	7,607	7,926	8,259	8,589	8,933	9,290	9,662	10,048	10,430
145			ENEMAY	Bichena	17,710	18,454	19,229	20,037	20,838	21,672	22,539	23,441	24,379	25,305
146				Yetimen	2,938	3,061	3,190	3,324	3,457	3,595	3,739	3,889	4,045	4,199
147			DEBAY TILATGIN	Kuy	5,493	5,724	5,964	6,214	6,463	6,722	6,991	7,271	7,562	7,849
148			DEBRE ELIAS	Eliyas	8,681	9,046	9,426	9,822	10,215	10,624	11,049	11,491	11,951	12,405
149			MACHAKEL	Amanuel-	9,534	9,934	10,351	10,786	11,217	11,666	12,133	12,618	13,123	13,622
150			GOZAMIN	Yebokila	2,843	2,962	3,086	3,216	3,345	3,479	3,618	3,763	3,914	4,063
151			BASO LIBEN	Yejube	7,056	7,352	7,661	7,983	8,302	8,634	8,979	9,338	9,712	10,081
152			AWABEL	Wejel	2,836	2,955	3,079	3,208	3,336	3,469	3,608	3,752	3,902	4,050
153				Lumame	10,098	10,522	10,964	11,424	11,881	12,356	12,850	13,364	13,899	14,427
154			DEJEN	DEJEN	9,536	9,937	10,354	10,789	11,221	11,670	12,137	12,622	13,127	13,626
155			SHEBEL BERENTA	Yed Wuha	4,635	4,830	5,033	5,244	5,454	5,672	5,899	6,135	6,380	6,622
156			DEBERE MARKOS	DEBERE MARKOS	68,502	71,379	74,377	77,501	80,601	83,825	87,178	90,665	94,292	97,875
157			SINAN WEREDA	Rob Gebeya	4,984	5,193	5,411	5,638	5,864	6,099	6,343	6,597	6,861	7,122
158			ANEDED	Amber	1,960	2,042	2,128	2,217	2,306	2,398	2,494	2,594	2,698	2,801
159			SEMEN ACHEFER	Kunizila	5,112	5,327	5,551	5,784	6,015	6,256	6,506	6,766	7,037	7,304
160		WEST GOJAM		Yismala	7,716	8,040	8,378	8,730	9,079	9,442	9,820	10,213	10,622	11,026
161				Fendika	4,225	4,402	4,587	4,780	4,971	5,170	5,377	5,592	5,816	6,037
162			YILMANA DENSA	Adet	20,934	21,813	22,729	23,684	24,631	25,616	26,641	27,707	28,815	29,910
163			MECHA	Wetet Abay	4,398	4,583	4,775	4,976	5,175	5,382	5,597	5,821	6,054	6,284
164				Merawi	20,356	21,211	22,102	23,030	23,951	24,909	25,905	26,941	28,019	29,084
165			SEKELA	Gishe Abay	7,404	7,715	8,039	8,377	8,712	9,060	9,422	9,799	10,191	10,578
166			QUARIT	Gebeze Mariyam	5,172	5,389	5,615	5,851	6,085	6,328	6,581	6,844	7,118	7,388
167			DEGA DAMOT	Feres Bet	7,293	7,599	7,918	8,251	8,581	8,924	9,281	9,652	10,038	10,419
168			DEMBECHA	Yechereka	1,222	1,273	1,326	1,382	1,437	1,494	1,554	1,616	1,681	1,745
169				Dembecha	14,406	15,011	15,641	16,298	16,950	17,628	18,333	19,066	19,829	20,583
170				Adis Alem	3,949	4,115	4,288	4,468	4,647	4,833	5,026	5,227	5,436	5,643
171			JABI TEHINAN	Jiga	5,054	5,266	5,487	5,717	5,946	6,184	6,431	6,688	6,956	7,220

URBAN WATER  
SUPPLY UAP

I.No	Region	Zone	Woreda	Town	Base Population	Projected population								
						9,122	9,505	9,904	10,300	10,712	11,140	11,586	12,049	12,507
172				Mankusa	8,754	9,122	9,505	9,904	10,300	10,712	11,140	11,586	12,049	12,507
173			BURE	BURE	22,270	23,205	24,180	25,196	26,204	27,252	28,342	29,476	30,655	31,820
174				Kuchi	6,115	6,372	6,640	6,919	7,196	7,484	7,783	8,094	8,418	8,738
175			WENBERMA	Shendi	11,615	12,103	12,611	13,141	13,667	14,214	14,783	15,374	15,989	16,597
176			GONJQOLOLA	GONJQOL OLA	4,634	4,829	5,032	5,243	5,453	5,671	5,898	6,134	6,379	6,621
177			DEBUB ACHEFER	Durbete	12,898	13,440	14,004	14,592	15,176	15,783	16,414	17,071	17,754	18,429
178			FINOTE SELAM	FINOTE SELAM	28,293	29,481	30,719	32,009	33,289	34,621	36,006	37,446	38,944	40,424
179			ZIQUALA	Tsitsika	3,721	3,877	4,040	4,210	4,378	4,553	4,735	4,924	5,121	5,316
180		HIMRA	DEHANA	Amed Werk	4,642	4,837	5,040	5,252	5,462	5,680	5,907	6,143	6,389	6,632
181			SEKOTA	SEKOTA	24,483	25,511	26,582	27,698	28,806	29,958	31,156	32,402	33,698	34,979
182			DANGILA	DANGILA	27,124	28,263	29,450	30,687	31,914	33,191	34,519	35,900	37,336	38,755
183		AWI		Chara	2,391	2,491	2,596	2,705	2,813	2,926	3,043	3,165	3,292	3,417
184			BANJA SHEKUDAD	Injebara	23,000	23,966	24,973	26,022	27,063	28,146	29,272	30,443	31,661	32,864
185				Kessa	1,550	1,615	1,683	1,754	1,824	1,897	1,973	2,052	2,134	2,215
186			ANKASHA GUAGUSA	Gimija Bet	11,927	12,428	12,950	13,494	14,034	14,595	15,179	15,786	16,417	17,041
187				Azena	5,922	6,171	6,430	6,700	6,968	7,247	7,537	7,838	8,152	8,462
188			GUANGUA	Chagni	25,427	26,495	27,608	28,768	29,919	31,116	32,361	33,655	35,001	36,331
189				Menta Wuha	4,622	4,816	5,018	5,229	5,438	5,656	5,882	6,117	6,362	6,604
190				Zigem	4,413	4,598	4,791	4,992	5,192	5,400	5,616	5,841	6,075	6,306
191			FAGITA LEKOMA	Addis Kidam	9,745	10,154	10,580	11,024	11,465	11,924	12,401	12,897	13,413	13,923
192			JAWI	Dek	1,813	1,889	1,968	2,051	2,133	2,218	2,307	2,399	2,495	2,590
193				Fendika	6,621	6,899	7,189	7,491	7,791	8,103	8,427	8,764	9,115	9,461
194			GUAGUSA SHIKUDA	Tilili	9,894	10,310	10,743	11,194	11,642	12,108	12,592	13,096	13,620	14,138
195			DAWA CHEFA	Welede	3,161	3,294	3,432	3,576	3,719	3,868	4,023	4,184	4,351	4,516
196		OROMIYA	BATI	BATI	18,361	19,132	19,936	20,773	21,604	22,468	23,367	24,302	25,274	26,234
197			JILE TIMUGA	Senbete	5,554	5,787	6,030	6,283	6,534	6,795	7,067	7,350	7,644	7,934
198			ARTUMA FURSI	Chefa Robit	6,494	6,767	7,051	7,347	7,641	7,947	8,265	8,596	8,940	9,280
199			DAWA HAREWA	Bora	1,868	1,946	2,028	2,113	2,198	2,286	2,377	2,472	2,571	2,669

## URBAN WATER SUPPLY UAP

I.No	Region	Zone	Woreda	Town	Base Population	Projected population								
						2009	2010	2011	2012	2013	2014	2015	2016	2017
200			KEMISE	KEMISE	21,201	22,091	23,019	23,986	24,945	25,943	26,981	28,060	29,182	30,291
201			BAHIR DAR	BAHIR DAR	170,267	177,418	184,870	192,635	200,340	208,354	216,688	225,356	234,370	243,276
202		BAHIR DAR SPECIAL		Zege	3,425	3,569	3,719	3,875	4,030	4,191	4,359	4,533	4,714	4,893
203				Meshenti	4,689	4,886	5,091	5,305	5,517	5,738	5,968	6,207	6,455	6,700
204				Tis Abay	18,948	19,744	20,573	21,437	22,294	23,186	24,113	25,078	26,081	27,072
<b>Total</b>					<b>2,313,280</b>	<b>2,410,436</b>	<b>2,511,672</b>	<b>2,617,163</b>	<b>2,721,857</b>	<b>2,830,735</b>	<b>2,943,968</b>	<b>3,061,733</b>	<b>3,184,208</b>	<b>3,305,210</b>

### i) Oromya

I.No	Region	Zone	Woreda	Town	Base Population	Projected population									
						2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
						2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
						4.20%	4.20%	4.20%	4.20%	4.00%	4.00%	4.00%	4.00%	4.00%	3.80%
1	OROMIA Region	WEST WELLEGA	MENE SIBU	Mendi	16,578	17,274	18,000	18,756	19,506	20,286	21,097	21,941	22,819	23,686	
2			NEJO	Nejo	22,483	23,427	24,411	25,436	26,453	27,511	28,611	29,755	30,945	32,121	
3				Were Jiru	3,085	3,215	3,350	3,491	3,631	3,776	3,927	4,084	4,247	4,408	
4				Gori	3,432	3,576	3,726	3,882	4,037	4,198	4,366	4,541	4,723	4,902	
5			LALO ASABI	Inango	9,463	9,860	10,274	10,706	11,134	11,579	12,042	12,524	13,025	13,520	
6				Dengoro	2,810	2,928	3,051	3,179	3,306	3,438	3,576	3,719	3,868	4,015	
7			QILTU KARA	QILTU KARA	6,221	6,482	6,754	7,038	7,320	7,613	7,918	8,235	8,564	8,889	
8			BOJI DERMEJI	Bila	8,629	8,991	9,369	9,762	10,152	10,558	10,980	11,419	11,876	12,327	
9			GULISO	GULISO	9,310	9,701	10,108	10,533	10,954	11,392	11,848	12,322	12,815	13,302	
10			JARSO	Geba Dafeno	4,290	4,470	4,658	4,854	5,048	5,250	5,460	5,678	5,905	6,129	
11			QONDALA	Geba Defeno	3,688	3,843	4,004	4,172	4,339	4,513	4,694	4,882	5,077	5,270	
12			BOJI CHEQORSA	Chekorsa	1,750	1,824	1,901	1,981	2,060	2,142	2,228	2,317	2,410	2,502	
13			BABO GEMBEL	Debeqa	4,399	4,584	4,777	4,978	5,177	5,384	5,599	5,823	6,056	6,286	
14			YUBDO	YUBDO	2,758	2,874	2,995	3,121	3,246	3,376	3,511	3,651	3,797	3,941	
15			GENJI	GENJI	3,989	4,157	4,332	4,514	4,695	4,883	5,078	5,281	5,492	5,701	
16			HARU	Guyi	5,764	6,006	6,258	6,521	6,782	7,053	7,335	7,628	7,933	8,234	

# URBAN WATER SUPPLY UAP

LN o	Region	Zone	Woreda	Town	Base Populatio n	Projected population								
17			NOLE KABA	Bube	6,031	6,284	6,548	6,823	7,096	7,380	7,675	7,982	8,301	8,616
18			BEGI	BEGI	6,305	6,570	6,846	7,134	7,419	7,716	8,025	8,346	8,680	9,010
19				Kokor	3,038	3,166	3,299	3,438	3,576	3,719	3,868	4,023	4,184	4,343
20			GIMBI	GIMBI	36,664	38,204	39,809	41,481	43,140	44,866	46,661	48,527	50,468	52,386
21			SEYO NOLE	Debeso	2,760	2,876	2,997	3,123	3,248	3,378	3,513	3,654	3,800	3,944
22			HOMA	HOMA	2,939	3,062	3,191	3,325	3,458	3,596	3,740	3,890	4,046	4,200
23			AYIRA	AYIRA	7,194	7,496	7,811	8,139	8,465	8,804	9,156	9,522	9,903	10,279
24		EAST WELLEGA	LIMU	Gelila	4,935	5,142	5,358	5,583	5,806	6,038	6,280	6,531	6,792	7,050
25			EBANTU	Hinde	3,300	3,439	3,583	3,733	3,882	4,037	4,198	4,366	4,541	4,714
26			GIDA KEREMU	Gida Ayana	12,457	12,980	13,525	14,093	14,657	15,243	15,853	16,487	17,146	17,798
27				Kiremu	3,489	3,636	3,789	3,948	4,106	4,270	4,441	4,619	4,804	4,987
28				Gutin	16,143	16,821	17,527	18,263	18,994	19,754	20,544	21,366	22,221	23,065
29			BONEYA BUSHE	Bilo	3,214	3,349	3,490	3,637	3,782	3,933	4,090	4,254	4,424	4,592
30			GUDEYA BILA	Jere	4,809	5,011	5,221	5,440	5,658	5,884	6,119	6,364	6,619	6,871
31				Bila	2,090	2,178	2,269	2,364	2,459	2,557	2,659	2,765	2,876	2,985
32			GOBU SEYO	Ano	5,624	5,860	6,106	6,362	6,616	6,881	7,156	7,442	7,740	8,034
33			SIBU SIRE	Sire	12,122	12,631	13,162	13,715	14,264	14,835	15,428	16,045	16,687	17,321
34			DIGA	Efa	8,020	8,357	8,708	9,074	9,437	9,814	10,207	10,615	11,040	11,460
35				Arjo Gudetu	1,894	1,974	2,057	2,143	2,229	2,318	2,411	2,507	2,607	2,706
36			SASIGA	Galo	3,045	3,173	3,306	3,445	3,583	3,726	3,875	4,030	4,191	4,350
37			LEQA DULECHA	Getema	4,800	5,002	5,212	5,431	5,648	5,874	6,109	6,353	6,607	6,858
38			JIMMA ARJO	Arjo	10,855	11,311	11,786	12,281	12,772	13,283	13,814	14,367	14,942	15,510
39			NUNU QUMBA	Nunu	5,730	5,971	6,222	6,483	6,742	7,012	7,292	7,584	7,887	8,187
40			NEKEMTE	NEKEMTE	89,018	92,757	96,653	100,712	104,740	108,930	113,287	117,818	122,531	127,187
41		ILU ABA BORA	DARIMU	Dupa	5,023	5,234	5,454	5,683	5,910	6,146	6,392	6,648	6,914	7,177
42			ALGE SACHI	ALGE SACHI	5,091	5,305	5,528	5,760	5,990	6,230	6,479	6,738	7,008	7,274
43				Suphe	3,613	3,765	3,923	4,088	4,252	4,422	4,599	4,783	4,974	5,163
44			CHORA	Kumbabe	9,131	9,515	9,915	10,331	10,744	11,174	11,621	12,086	12,569	13,047

# URBAN WATER SUPPLY UAP

LN o	Region	Zone	Woreda	Town	Base Populatio n	Projected population								
45			DIGA	Dega	3,576	3,726	3,882	4,045	4,207	4,375	4,550	4,732	4,921	5,108
46			DABO HANA	Kone	4,934	5,141	5,357	5,582	5,805	6,037	6,278	6,529	6,790	7,048
47			GECHI	GECHI	6,440	6,710	6,992	7,286	7,577	7,880	8,195	8,523	8,864	9,201
48			BORECHA	Yanef	3,226	3,361	3,502	3,649	3,795	3,947	4,105	4,269	4,440	4,609
49			DEDESA	Dembe	6,685	6,966	7,259	7,564	7,867	8,182	8,509	8,849	9,203	9,553
50			YAYU	YAYU	8,943	9,319	9,710	10,118	10,523	10,944	11,382	11,837	12,310	12,778
51			ALE	Gore	10,708	11,158	11,627	12,115	12,600	13,104	13,628	14,173	14,740	15,300
52			BURE	BURE	4,111	4,284	4,464	4,651	4,837	5,030	5,231	5,440	5,658	5,873
53				Sibo	2,370	2,470	2,574	2,682	2,789	2,901	3,017	3,138	3,264	3,388
54			NONO SELE	Berbersa	2,064	2,151	2,241	2,335	2,428	2,525	2,626	2,731	2,840	2,948
55			BECHO	BECHO	1,841	1,918	1,999	2,083	2,166	2,253	2,343	2,437	2,534	2,630
56			BILO NOPHA	NOPHA	2,380	2,480	2,584	2,693	2,801	2,913	3,030	3,151	3,277	3,402
57			HURUMU	HURUMU	5,348	5,573	5,807	6,051	6,293	6,545	6,807	7,079	7,362	7,642
58			DIDU	Lalo	1,376	1,434	1,494	1,557	1,619	1,684	1,751	1,821	1,894	1,966
59			HALU	Huka	1,994	2,078	2,165	2,256	2,346	2,440	2,538	2,640	2,746	2,850
60			METU	METU	34,062	35,493	36,984	38,537	40,078	41,681	43,348	45,082	46,885	48,667
61			BEDELE	BEDELE	23,098	24,068	25,079	26,132	27,177	28,264	29,395	30,571	31,794	33,002
62			CHEWAQA	Ilu Harer	1,240	1,292	1,346	1,403	1,459	1,517	1,578	1,641	1,707	1,772
63		JIMMA	LIMU SEKA	Atinago	6,136	6,394	6,663	6,943	7,221	7,510	7,810	8,122	8,447	8,768
64			LIMU KOSA	Limu Genet	11,826	12,323	12,841	13,380	13,915	14,472	15,051	15,653	16,279	16,898
65				Ambuye	2,901	3,023	3,150	3,282	3,413	3,550	3,692	3,840	3,994	4,146
66				Babu	2,838	2,957	3,081	3,210	3,338	3,472	3,611	3,755	3,905	4,053
67			SOKORU	SOKORU	7,377	7,687	8,010	8,346	8,680	9,027	9,388	9,764	10,155	10,541
68				Deneba	7,681	8,004	8,340	8,690	9,038	9,400	9,776	10,167	10,574	10,976
69			TIRO AFETA	Dmetu	3,601	3,752	3,910	4,074	4,237	4,406	4,582	4,765	4,956	5,144
70				Ako	2,682	2,795	2,912	3,034	3,155	3,281	3,412	3,548	3,690	3,830
71			KERSA	Siribo	6,421	6,691	6,972	7,265	7,556	7,858	8,172	8,499	8,839	9,175
72			MANA	Yebu	5,199	5,417	5,645	5,882	6,117	6,362	6,616	6,881	7,156	7,428



URBAN WATER  
SUPPLY UAP

LN o	Region	Zone	Woreda	Town	Base Populatio n	Projected population								
73			GOMMA	Choche	4,636	4,831	5,034	5,245	5,455	5,673	5,900	6,136	6,381	6,623
74				Gembe	7,167	7,468	7,782	8,109	8,433	8,770	9,121	9,486	9,865	10,240
75				Limushay	3,309	3,448	3,593	3,744	3,894	4,050	4,212	4,380	4,555	4,728
76			GERA	Chira	5,617	5,853	6,099	6,355	6,609	6,873	7,148	7,434	7,731	8,025
77			SEKA CHEKORSA	Seka	8,319	8,668	9,032	9,411	9,787	10,178	10,585	11,008	11,448	11,883
78			DEDO	Shek	6,811	7,097	7,395	7,706	8,014	8,335	8,668	9,015	9,376	9,732
79			OMONADA	Asendabo	8,426	8,780	9,149	9,533	9,914	10,311	10,723	11,152	11,598	12,039
80				Nada	6,029	6,282	6,546	6,821	7,094	7,378	7,673	7,980	8,299	8,614
81			SIGMO	SIGMO	6,522	6,796	7,081	7,378	7,673	7,980	8,299	8,631	8,976	9,317
82			SETEMA	Gatira	5,596	5,831	6,076	6,331	6,584	6,847	7,121	7,406	7,702	7,995
83			SHEBE SENBO	Shebe	6,231	6,493	6,766	7,050	7,332	7,625	7,930	8,247	8,577	8,903
84			CHORA BOTER	Kara	1,235	1,287	1,341	1,397	1,453	1,511	1,571	1,634	1,699	1,764
85			GUMA	Toba	6,235	6,497	6,770	7,054	7,336	7,629	7,934	8,251	8,581	8,907
86			AGARO	Agaro	30,128	31,393	32,712	34,086	35,449	36,867	38,342	39,876	41,471	43,047
87		WEST SHEWA	GINDE BERET	Kachise	13,115	13,666	14,240	14,838	15,432	16,049	16,691	17,359	18,053	18,739
88			JELDU	Gojo	11,292	11,766	12,260	12,775	13,286	13,817	14,370	14,945	15,543	16,134
89				Shekute	3,764	3,922	4,087	4,259	4,429	4,606	4,790	4,982	5,181	5,378
90				Chabi	1,966	2,049	2,135	2,225	2,314	2,407	2,503	2,603	2,707	2,810
91			AMBO	Meti	1,023	1,066	1,111	1,158	1,204	1,252	1,302	1,354	1,408	1,462
92			MIDAKEGNI	Balemi	2,460	2,563	2,671	2,783	2,894	3,010	3,130	3,255	3,385	3,514
93			CHELIA	Gedo	13,318	13,877	14,460	15,067	15,670	16,297	16,949	17,627	18,332	19,029
94				Babich	2,983	3,108	3,239	3,375	3,510	3,650	3,796	3,948	4,106	4,262
95				Ejaji	10,616	11,062	11,527	12,011	12,491	12,991	13,511	14,051	14,613	15,168
96			BAKO TIBE	Tibe	3,731	3,888	4,051	4,221	4,390	4,566	4,749	4,939	5,137	5,332
97				Shoboka	3,851	4,013	4,182	4,358	4,532	4,713	4,902	5,098	5,302	5,503
98				Bako	19,462	20,279	21,131	22,019	22,900	23,816	24,769	25,760	26,790	27,808
99			DANO	Seyo	7,186	7,488	7,802	8,130	8,455	8,793	9,145	9,511	9,891	10,267
100			NONO	Silkamba	4,206	4,383	4,567	4,759	4,949	5,147	5,353	5,567	5,790	6,010

URBAN WATER  
SUPPLY UAP

LN o	Region	Zone	Woreda	Town	Base Populatio n	Projected population								
101			TIKUR ENCHINI	Enchini	5157	5,374	5,600	5,835	6,068	6,311	6,563	6,826	7,099	7,369
102			DENDI	Ginichi	21,461	22,362	23,301	24,280	25,251	26,261	27,311	28,403	29,539	30,661
103				Olonkomi	6,577	6,853	7,141	7,441	7,739	8,049	8,371	8,706	9,054	9,398
104				Ehud Gebeya	1,929	2,010	2,094	2,182	2,269	2,360	2,454	2,552	2,654	2,755
105			EJERIE	Addis Alem	11,918	12,419	12,941	13,485	14,024	14,585	15,168	15,775	16,406	17,029
106			WELMERA	Menagesha	3,967	4,134	4,308	4,489	4,669	4,856	5,050	5,252	5,462	5,670
107			ADA'A BERGA	Muger	6,697	6,978	7,271	7,576	7,879	8,194	8,522	8,863	9,218	9,568
108				Muger Cement Factory	3,519	3,667	3,821	3,981	4,140	4,306	4,478	4,657	4,843	5,027
109				Inchini	8,647	9,010	9,388	9,782	10,173	10,580	11,003	11,443	11,901	12,353
110			META ROBI	Sheno	4,766	4,966	5,175	5,392	5,608	5,832	6,065	6,308	6,560	6,809
111			AMBO	AMBO	57,008	59,402	61,897	64,497	67,077	69,760	72,550	75,452	78,470	81,452
112			ABUNA GINDEBERET	Beke Qelate	3,201	3,335	3,475	3,621	3,766	3,917	4,074	4,237	4,406	4,573
113			TOKE KUTAYE	Guder	17,447	18,180	18,944	19,740	20,530	21,351	22,205	23,093	24,017	24,930
114				Toke	1,432	1,492	1,555	1,620	1,685	1,752	1,822	1,895	1,971	2,046
115			JIBAT	Shenen	4,294	4,474	4,662	4,858	5,052	5,254	5,464	5,683	5,910	6,135
116			ELIFATA	Beke	2,246	2,340	2,438	2,540	2,642	2,748	2,858	2,972	3,091	3,208
117			HOLETA	HOLETA	27,570	28,728	29,935	31,192	32,440	33,738	35,088	36,492	37,952	39,394
118		NORTH SHEWA	WERE JARSO	Filiklik	1,742	1,815	1,891	1,970	2,049	2,131	2,216	2,305	2,397	2,488
119				Goha Tsiyon	8,597	8,958	9,334	9,726	10,115	10,520	10,941	11,379	11,834	12,284
120				Tulu Milki	2,125	2,214	2,307	2,404	2,500	2,600	2,704	2,812	2,924	3,035
121			DERA	Gundo Meskel	9,424	9,820	10,232	10,662	11,088	11,532	11,993	12,473	12,972	13,465
122			HIDABU ABOTE	Ejere	7,568	7,886	8,217	8,562	8,904	9,260	9,630	10,015	10,416	10,812
123			KUYU	Gerbe Guracha-	23,517	24,505	25,534	26,606	27,670	28,777	29,928	31,125	32,370	33,600
124			DEGEM	Ali Doro	1,491	1,554	1,619	1,687	1,754	1,824	1,897	1,973	2,052	2,130
125				Hamibiso	5,688	5,927	6,176	6,435	6,692	6,960	7,238	7,528	7,829	8,127
126			DEBRE LIBANOS	Wusha Gedel	5,052	5,264	5,485	5,715	5,944	6,182	6,429	6,686	6,953	7,217

URBAN WATER  
SUPPLY UAP

LN o	Region	Zone	Woreda	Town	Base Populatio n	Projected population								
127				Debre Tsige	5,546	5,779	6,022	6,275	6,526	6,787	7,058	7,340	7,634	7,924
128			WUCHALE	Muke Turi	7,605	7,924	8,257	8,604	8,948	9,306	9,678	10,065	10,468	10,866
129			ABICHUNA GNEA	Mendida	5,989	6,241	6,503	6,776	7,047	7,329	7,622	7,927	8,244	8,557
130			KIMBIBIT	Hamus Gebeya	13,056	13,604	14,175	14,770	15,361	15,975	16,614	17,279	17,970	18,653
131				Sheno	907	945	985	1,026	1,067	1,110	1,154	1,200	1,248	1,295
132			SULULTA	Chancho	10,341	10,775	11,228	11,700	12,168	12,655	13,161	13,687	14,234	14,775
133				Sululta	7,582	7,900	8,232	8,578	8,921	9,278	9,649	10,035	10,436	10,833
134			FICHE	FICHE	32,537	33,904	35,328	36,812	38,284	39,815	41,408	43,064	44,787	46,489
135			YAYA GULELE	Fital	3,085	3,215	3,350	3,491	3,631	3,776	3,927	4,084	4,247	4,408
136			MULO	MULO	2,717	2,831	2,950	3,074	3,197	3,325	3,458	3,596	3,740	3,882
137			ALELTU	Fiche Gelila	1,085	1,131	1,179	1,229	1,278	1,329	1,382	1,437	1,494	1,551
138				Aeltu	3,472	3,618	3,770	3,928	4,085	4,248	4,418	4,595	4,779	4,961
139			SENDAFA	SENDAFA	14,554	15,165	15,802	16,466	17,125	17,810	18,522	19,263	20,034	20,795
140		EAST SHEWA	FENTALE	Metehara	11,177	11,646	12,135	12,645	13,151	13,677	14,224	14,793	15,385	15,970
141				Haro Adi	13,110	13,661	14,235	14,833	15,426	16,043	16,685	17,352	18,046	18,732
142			BOSET	Doni	4,959	5,167	5,384	5,610	5,834	6,067	6,310	6,562	6,824	7,083
143				Bole	4,713	4,911	5,117	5,332	5,545	5,767	5,998	6,238	6,488	6,735
144				Bofa	3,738	3,895	4,059	4,229	4,398	4,574	4,757	4,947	5,145	5,341
145				Welenchiti	17,968	18,723	19,509	20,328	21,141	21,987	22,866	23,781	24,732	25,672
146			ADAMA	Awash Melkasa	5,000	5,210	5,429	5,657	5,883	6,118	6,363	6,618	6,883	7,145
147				Wonji Gefersa	16,640	17,339	18,067	18,826	19,579	20,362	21,176	22,023	22,904	23,774
148				Wonji Shewa Alemtena	7615	7,935	8,268	8,615	8,960	9,318	9,691	10,079	10,482	10,880
149				Sire Robe	1,896	1,976	2,059	2,145	2,231	2,320	2,413	2,510	2,610	2,709
150			LOMME	Qoqa	5,386	5,612	5,848	6,094	6,338	6,592	6,856	7,130	7,415	7,697
151				Mojo	34,968	36,437	37,967	39,562	41,144	42,790	44,502	46,282	48,133	49,962
152				Ejere	1,918	1,999	2,083	2,170	2,257	2,347	2,441	2,539	2,641	2,741
153				Ejersa	3,612	3,764	3,922	4,087	4,250	4,420	4,597	4,781	4,972	5,161
154			GIMBICHU	Chefedonsa	7,492	7,807	8,135	8,477	8,816	9,169	9,536	9,917	10,314	10,706

URBAN WATER  
SUPPLY UAP

LN o	Region	Zone	Woreda	Town	Base Populatio n	Projected population								
155			DUGDA	Meki	42,902	44,704	46,582	48,538	50,480	52,499	54,599	56,783	59,054	61,298
156			ADAMI TULU JIDO KOMBOLCHA	Abosa	2,853	2,973	3,098	3,228	3,357	3,491	3,631	3,776	3,927	4,076
157				Adami Tulu	10,747	11,198	11,668	12,158	12,644	13,150	13,676	14,223	14,792	15,354
158				Bulbula	9,031	9,410	9,805	10,217	10,626	11,051	11,493	11,953	12,431	12,903
159				Jido	2,130	2,219	2,312	2,409	2,505	2,605	2,709	2,817	2,930	3,041
160			BISHOFTU	BISHOFTU	118,260	123,227	128,403	133,796	139,148	144,714	150,503	156,523	162,784	168,970
161			BORA	Alem Tena	13,495	14,062	14,653	15,268	15,879	16,514	17,175	17,862	18,576	19,282
162			LIBEN	Adulala	3,468	3,614	3,766	3,924	4,081	4,244	4,414	4,591	4,775	4,956
163			AKAKI	Dukem	7,894	8,226	8,571	8,931	9,288	9,660	10,046	10,448	10,866	11,279
164			ZEWAY/BATU	ZEWAY/BATU	51,669	53,839	56,100	58,456	60,794	63,226	65,755	68,385	71,120	73,823
165		ARSI	MERTI	Abomsa	17,344	18,072	18,831	19,622	20,407	21,223	22,072	22,955	23,873	24,780
166			ASEKO	ASEKO	4,719	4,917	5,124	5,339	5,553	5,775	6,006	6,246	6,496	6,743
167			GOLOLCHA	Chancho	4,109	4,282	4,462	4,649	4,835	5,028	5,229	5,438	5,656	5,871
168			JEJU	Arboye	6,496	6,769	7,053	7,349	7,643	7,949	8,267	8,598	8,942	9,282
169				Bolo	1,411	1,470	1,532	1,596	1,660	1,726	1,795	1,867	1,942	2,016
170			DODOTA	Dera	17,499	18,234	19,000	19,798	20,590	21,414	22,271	23,162	24,088	25,003
171				Awash Melkasa	5,141	5,357	5,582	5,816	6,049	6,291	6,543	6,805	7,077	7,346
172			ZEWAY DUGDA	Ogolcho	5,332	5,556	5,789	6,032	6,273	6,524	6,785	7,056	7,338	7,617
173			HITOSA	Eteya	17,734	18,479	19,255	20,064	20,867	21,702	22,570	23,473	24,412	25,340
174				Burjawi	4,137	4,311	4,492	4,681	4,868	5,063	5,266	5,477	5,696	5,912
175			SUDE	Kula	3,349	3,490	3,637	3,790	3,942	4,100	4,264	4,435	4,612	4,787
176			CHOLE	CHOLE	7,985	8,320	8,669	9,033	9,394	9,770	10,161	10,567	10,990	11,408
177			AMIGNA	Adele	7,604	7,923	8,256	8,603	8,947	9,305	9,677	10,064	10,467	10,865
178			SERU	SERU	3,756	3,914	4,078	4,249	4,419	4,596	4,780	4,971	5,170	5,366
179			ROBE	ROBE	17,952	18,706	19,492	20,311	21,123	21,968	22,847	23,761	24,711	25,650
180				Sediqa	2,810	2,928	3,051	3,179	3,306	3,438	3,576	3,719	3,868	4,015
181				Habe	3,712	3,868	4,030	4,199	4,367	4,542	4,724	4,913	5,110	5,304

URBAN WATER  
SUPPLY UAP

LN o	Region	Zone	Woreda	Town	Base Populatio n	Projected population								
182			TENA	Ticho	5,867	6,113	6,370	6,638	6,904	7,180	7,467	7,766	8,077	8,384
183				Kela	1,532	1,596	1,663	1,733	1,802	1,874	1,949	2,027	2,108	2,188
184			SHIRKA	Gobessa	13,212	13,767	14,345	14,947	15,545	16,167	16,814	17,487	18,186	18,877
185				Gadoguna	1,574	1,640	1,709	1,781	1,852	1,926	2,003	2,083	2,166	2,248
186			DIGELUNA TIJO	Tijo	2,441	2,544	2,651	2,762	2,872	2,987	3,106	3,230	3,359	3,487
187				Sagure	14,222	14,819	15,441	16,090	16,734	17,403	18,099	18,823	19,576	20,320
188			TIYO	Gonde	3,067	3,196	3,330	3,470	3,609	3,753	3,903	4,059	4,221	4,381
189				Qulumissa	2036	2,122	2,211	2,304	2,396	2,492	2,592	2,696	2,804	2,911
190				Ketar	2,619	2,729	2,844	2,963	3,082	3,205	3,333	3,466	3,605	3,742
191			MUNESA	Ego	2,705	2,819	2,937	3,060	3,182	3,309	3,441	3,579	3,722	3,863
192				Kersa	13,305	13,864	14,446	15,053	15,655	16,281	16,932	17,609	18,313	19,009
193				Kanchare	1,944	2,026	2,111	2,200	2,288	2,380	2,475	2,574	2,677	2,779
194			LIMUNA BILBILO	Bokoji	20,996	21,878	22,797	23,754	24,704	25,692	26,720	27,789	28,901	29,999
195				Meraro	3,639	3,792	3,951	4,117	4,282	4,453	4,631	4,816	5,009	5,199
196				Robe Gerjeda	2,987	3,112	3,243	3,379	3,514	3,655	3,801	3,953	4,111	4,267
197			GUNA	Moyo	1,828	1,905	1,985	2,068	2,151	2,237	2,326	2,419	2,516	2,612
198				Aba Jimma	4,751	4,951	5,159	5,376	5,591	5,815	6,048	6,290	6,542	6,791
199			SIRE	SIRE	9,912	10,328	10,762	11,214	11,663	12,130	12,615	13,120	13,645	14,164
200			LODE HETOSA	Arbe Gabeya	2,406	2,507	2,612	2,722	2,831	2,944	3,062	3,184	3,311	3,437
201				Hurta	15,698	16,357	17,044	17,760	18,470	19,209	19,977	20,776	21,607	22,428
202			DEKSIS	Bulala	1,032	1,075	1,120	1,167	1,214	1,263	1,314	1,367	1,422	1,476
203				Deksis	8,263	8,610	8,972	9,349	9,723	10,112	10,516	10,937	11,374	11,806
204			BELE GASGAR	Bale	6,998	7,292	7,598	7,917	8,234	8,563	8,906	9,262	9,632	9,998
205			ENKELO WABE	Siltana	5,887	6,134	6,392	6,660	6,926	7,203	7,491	7,791	8,103	8,411
206				Mechitu	2,164	2,255	2,350	2,449	2,547	2,649	2,755	2,865	2,980	3,093
207			ASELA	ASELA	79,610	82,954	86,438	90,068	93,671	97,418	101,315	105,368	109,583	113,747
208		WEST HARARGE	MIESO	MIESO	15,786	16,449	17,140	17,860	18,574	19,317	20,090	20,894	21,730	22,556
209				Asebot	9,284	9,674	10,080	10,503	10,923	11,360	11,814	12,287	12,778	13,264

## URBAN WATER SUPPLY UAP

LN o	Region	Zone	Woreda	Town	Base Populatio n	Projected population								
210				Kora	2,349	2,448	2,551	2,658	2,764	2,875	2,990	3,110	3,234	3,357
211				Boridede	2,626	2,736	2,851	2,971	3,090	3,214	3,343	3,477	3,616	3,753
212			DOBA	DOBA	3,872	4,035	4,204	4,381	4,556	4,738	4,928	5,125	5,330	5,533
213			TULO	Hirna	13,787	14,366	14,969	15,598	16,222	16,871	17,546	18,248	18,978	19,699
214				Debaso	2,506	2,611	2,721	2,835	2,948	3,066	3,189	3,317	3,450	3,581
215			MESELA	MESELA	5,432	5,660	5,898	6,146	6,392	6,648	6,914	7,191	7,479	7,763
216			CHIRO	CHIRO	39,847	41,521	43,265	45,082	46,885	48,760	50,710	52,738	54,848	56,932
217			ANCHAR	Bedayu	2,631	2,742	2,857	2,977	3,096	3,220	3,349	3,483	3,622	3,760
218				Cheleleka	3,282	3,420	3,564	3,714	3,863	4,018	4,179	4,346	4,520	4,692
219				Deay	1,769	1,843	1,920	2,001	2,081	2,164	2,251	2,341	2,435	2,528
220			GUBA QORICHA	Komona	3,402	3,545	3,694	3,849	4,003	4,163	4,330	4,503	4,683	4,861
221			HABRO	Gelemso	19,508	20,327	21,181	22,071	22,954	23,872	24,827	25,820	26,853	27,873
222				Wachu	8,740	9,107	9,489	9,888	10,284	10,695	11,123	11,568	12,031	12,488
223				Belbalti	1,614	1,682	1,753	1,827	1,900	1,976	2,055	2,137	2,222	2,306
224			DARO LEBU	Mechara	10,941	11,401	11,880	12,379	12,874	13,389	13,925	14,482	15,061	15,633
225				Micheta	9,014	9,393	9,788	10,199	10,607	11,031	11,472	11,931	12,408	12,880
226			BOKE	BOKE	7,924	8,257	8,604	8,965	9,324	9,697	10,085	10,488	10,908	11,323
227			GEMECHIS	Kuni	4,571	4,763	4,963	5,171	5,378	5,593	5,817	6,050	6,292	6,531
228			BEDESA	BEDESA	21,524	22,428	23,370	24,352	25,326	26,339	27,393	28,489	29,629	30,755
229		EAST HARARGE	KOMBOLCHA	Melka Rafa	14,929	15,556	16,209	16,890	17,566	18,269	19,000	19,760	20,550	21,331
230			JARSO	Ijersa Goro	4,651	4,846	5,050	5,262	5,472	5,691	5,919	6,156	6,402	6,645
231			GURSUM	Funyan Bira	14,258	14,857	15,481	16,131	16,776	17,447	18,145	18,871	19,626	20,372
232			BABILE	BABILE	20,962	21,842	22,759	23,715	24,664	25,651	26,677	27,744	28,854	29,950
233			FEDIS	Boko	5,413	5,640	5,877	6,124	6,369	6,624	6,889	7,165	7,452	7,735
234			HAROMAYA	HAROMAYA	36,365	37,892	39,483	41,141	42,787	44,498	46,278	48,129	50,054	51,956
235				Bate	8,003	8,339	8,689	9,054	9,416	9,793	10,185	10,592	11,016	11,435
236				Adele	5,747	5,988	6,239	6,501	6,761	7,031	7,312	7,604	7,908	8,209
237				Aweday	9,096	9,478	9,876	10,291	10,703	11,131	11,576	12,039	12,521	12,997

URBAN WATER  
SUPPLY UAP

LN o	Region	Zone	Woreda	Town	Base Populatio n	Projected population								
238			KURFA CHELE	KURFA CHELE	3,778	3,937	4,102	4,274	4,445	4,623	4,808	5,000	5,200	5,398
239				Dawo	3,044	3,172	3,305	3,444	3,582	3,725	3,874	4,029	4,190	4,349
240			QERSA	Lange	5,069	5,282	5,504	5,735	5,964	6,203	6,451	6,709	6,977	7,242
241				Qersa	3,763	3,921	4,086	4,258	4,428	4,605	4,789	4,981	5,180	5,377
242				Weter	4,644	4,839	5,042	5,254	5,464	5,683	5,910	6,146	6,392	6,635
243			META	Chelenko	11,926	12,427	12,949	13,493	14,033	14,594	15,178	15,785	16,416	17,040
244				Kulubi	6,060	6,315	6,580	6,856	7,130	7,415	7,712	8,020	8,341	8,658
245			GORO GUTU	Kara Mile	8,799	9,169	9,554	9,955	10,353	10,767	11,198	11,646	12,112	12,572
246				Boreda	3,114	3,245	3,381	3,523	3,664	3,811	3,963	4,122	4,287	4,450
247			DEDER	Kobo	6,704	6,986	7,279	7,585	7,888	8,204	8,532	8,873	9,228	9,579
248				Deder	15,346	15,991	16,663	17,363	18,058	18,780	19,531	20,312	21,124	21,927
249				Soka	4,231	4,409	4,594	4,787	4,978	5,177	5,384	5,599	5,823	6,044
250			MELKA BELO	Hare Wacha	5,875	6,122	6,379	6,647	6,913	7,190	7,478	7,777	8,088	8,395
251				Jeje	5,181	5,399	5,626	5,862	6,096	6,340	6,594	6,858	7,132	7,403
252			BEDENO	BEDENO	9,260	9,649	10,054	10,476	10,895	11,331	11,784	12,255	12,745	13,229
253				Farda	1,531	1,595	1,662	1,732	1,801	1,873	1,948	2,026	2,107	2,187
254			MIDEGA TOLA	Midega	7,166	7,467	7,781	8,108	8,432	8,769	9,120	9,485	9,864	10,239
255			CHINAKSEN	CHINAKSEN	14,511	15,120	15,755	16,417	17,074	17,757	18,467	19,206	19,974	20,733
256			GIRAWA	GIRAWA	6,974	7,267	7,572	7,890	8,206	8,534	8,875	9,230	9,599	9,964
257			GOLE ODA	Burka	6,575	6,851	7,139	7,439	7,737	8,046	8,368	8,703	9,051	9,395
258			MEYU MULEKE	Huse	3,770	3,928	4,093	4,265	4,436	4,613	4,798	4,990	5,190	5,387
259		BALE	AGARFA	AGARFA	10,114	10,539	10,982	11,443	11,901	12,377	12,872	13,387	13,922	14,451
260				Ali	5,161	5,378	5,604	5,839	6,073	6,316	6,569	6,832	7,105	7,375
261			GOLOLCHA	Jara	6,869	7,157	7,458	7,771	8,082	8,405	8,741	9,091	9,455	9,814
262			GASERA	GASERA	5,677	5,915	6,163	6,422	6,679	6,946	7,224	7,513	7,814	8,111
263			BELTU	BELTU	2,386	2,486	2,590	2,699	2,807	2,919	3,036	3,157	3,283	3,408
264			GINIR	GINIR	20,239	21,089	21,975	22,898	23,814	24,767	25,758	26,788	27,860	28,919
265				Delosebro	3,662	3,816	3,976	4,143	4,309	4,481	4,660	4,846	5,040	5,232

URBAN WATER  
SUPPLY UAP

LN o	Region	Zone	Woreda	Town	Base Populatio n	Projected population								
266			ARENA BULUQ	Angetu	5,792	6,035	6,288	6,552	6,814	7,087	7,370	7,665	7,972	8,275
267			DELO MENA	Mena	12,616	13,146	13,698	14,273	14,844	15,438	16,056	16,698	17,366	18,026
268			MEDA WELABU	Bidre	3,537	3,686	3,841	4,002	4,162	4,328	4,501	4,681	4,868	5,053
269			BERBERE	Haro Dumal	6,687	6,968	7,261	7,566	7,869	8,184	8,511	8,851	9,205	9,555
270			GURA DAMOLE	Raytu Anole	1,502	1,565	1,631	1,700	1,768	1,839	1,913	1,990	2,070	2,149
271			GORO	GORO	6,270	6,533	6,807	7,093	7,377	7,672	7,979	8,298	8,630	8,958
272				Meliyu	3,826	3,987	4,154	4,328	4,501	4,681	4,868	5,063	5,266	5,466
273			RAYTU	Dhedecha Bela'a	3,791	3,950	4,116	4,289	4,461	4,639	4,825	5,018	5,219	5,417
274			SEWEYNA	Micha Biliso	4,467	4,655	4,851	5,055	5,257	5,467	5,686	5,913	6,150	6,384
275			ROBE	ROBE	52,524	54,730	57,029	59,424	61,801	64,273	66,844	69,518	72,299	75,046
276			GOBA	GOBA	37,900	39,492	41,151	42,879	44,594	46,378	48,233	50,162	52,168	54,150
277			DAWE QACHEN	Mio	820	854	890	927	964	1,003	1,043	1,085	1,128	1,171
278			DINSHO	DINSHO	3,510	3,657	3,811	3,971	4,130	4,295	4,467	4,646	4,832	5,016
279		BORENA	BULE HORA	Hagere Mariyam	32,924	34,307	35,748	37,249	38,739	40,289	41,901	43,577	45,320	47,042
280				Gerba	8,787	9,156	9,541	9,942	10,340	10,754	11,184	11,631	12,096	12,556
281			YABELO	YABELO	20,707	21,577	22,483	23,427	24,364	25,339	26,353	27,407	28,503	29,586
282			ARERO	Meta Gefersa	3,555	3,704	3,860	4,022	4,183	4,350	4,524	4,705	4,893	5,079
283			DIRE	Mega	7,260	7,565	7,883	8,214	8,543	8,885	9,240	9,610	9,994	10,374
284			TELTELE	Milema	5,768	6,010	6,262	6,525	6,786	7,057	7,339	7,633	7,938	8,240
285			ABAYA	Gwanigwa	5,409	5,636	5,873	6,120	6,365	6,620	6,885	7,160	7,446	7,729
286			DUGDA DAWA	Foncha	6,580	6,856	7,144	7,444	7,742	8,052	8,374	8,709	9,057	9,401
287			MEYO	Hidlola	4,664	4,860	5,064	5,277	5,488	5,708	5,936	6,173	6,420	6,664
288			GELANA	Tore	4,144	4,318	4,499	4,688	4,876	5,071	5,274	5,485	5,704	5,921
289		SOUTH WEST SHEWA	AMEYA	Ginido	7,405	7,716	8,040	8,378	8,713	9,062	9,424	9,801	10,193	10,580
290			WONCHI	Chitu	2,254	2,349	2,448	2,551	2,653	2,759	2,869	2,984	3,103	3,221
291			WELISO	Dilala	3,058	3,186	3,320	3,459	3,597	3,741	3,891	4,047	4,209	4,369
292			DAWO	Busa	4,472	4,660	4,856	5,060	5,262	5,472	5,691	5,919	6,156	6,390
293			ILU-WEREDA	Asigori	4,010	4,178	4,353	4,536	4,717	4,906	5,102	5,306	5,518	5,728



URBAN WATER  
SUPPLY UAP

LN o	Region	Zone	Woreda	Town	Base Populatio n	Projected population								
294				Teji	4,848	5,052	5,264	5,485	5,704	5,932	6,169	6,416	6,673	6,927
295			SEBETA HAWAS	Awash Melkakunture	4,525	4,715	4,913	5,119	5,324	5,537	5,758	5,988	6,228	6,465
296				Tefiki	4,185	4,361	4,544	4,735	4,924	5,121	5,326	5,539	5,761	5,980
297			KERSANA MALIMA	Lemen	7,735	8,060	8,399	8,752	9,102	9,466	9,845	10,239	10,649	11,054
298			TOLE	Banitu	3,426	3,570	3,720	3,876	4,031	4,192	4,360	4,534	4,715	4,894
299			BECHO	Tulu Bolo	17,132	17,852	18,602	19,383	20,158	20,964	21,803	22,675	23,582	24,478
300			SEDEN SODO	Herbuchulule	3,488	3,634	3,787	3,946	4,104	4,268	4,439	4,617	4,802	4,984
301			WELISO	WELISO	44,827	46,710	48,672	50,716	52,745	54,855	57,049	59,331	61,704	64,049
302			GORO	GORO	459	478	498	519	540	562	584	607	631	655
303				Gurura	3,936	4,101	4,273	4,452	4,630	4,815	5,008	5,208	5,416	5,622
304			SODO DACHA	Tere	3,233	3,369	3,510	3,657	3,803	3,955	4,113	4,278	4,449	4,618
305			SEBETA	SEBETA	58,381	60,833	63,388	66,050	68,692	71,440	74,298	77,270	80,361	83,415
306		GUIJ	URAGA	Solomo	9,049	9,429	9,825	10,238	10,648	11,074	11,517	11,978	12,457	12,930
307			BORE	BORE	10,360	10,795	11,248	11,720	12,189	12,677	13,184	13,711	14,259	14,801
308				Yerba Muda	1,780	1,855	1,933	2,014	2,095	2,179	2,266	2,357	2,451	2,544
309			WADERA	WADERA	5,596	5,831	6,076	6,331	6,584	6,847	7,121	7,406	7,702	7,995
310			ODO SHAKISO	Shakiso	27,137	28,277	29,465	30,703	31,931	33,208	34,536	35,917	37,354	38,773
311				Megado	4,077	4,248	4,426	4,612	4,796	4,988	5,188	5,396	5,612	5,825
312				Hiyadima	2,747	2,862	2,982	3,107	3,231	3,360	3,494	3,634	3,779	3,923
313				Reji	2,059	2,145	2,235	2,329	2,422	2,519	2,620	2,725	2,834	2,942
314				Kenticha	2,299	2,396	2,497	2,602	2,706	2,814	2,927	3,044	3,166	3,286
315				Dawa	1,496	1,559	1,624	1,692	1,760	1,830	1,903	1,979	2,058	2,136
316			QERCHA	QERCHA	11,697	12,188	12,700	13,233	13,762	14,312	14,884	15,479	16,098	16,710
317			LIBEN	Harekelo	1,639	1,708	1,780	1,855	1,929	2,006	2,086	2,169	2,256	2,342
318			DIMA	Afele Kola	1,703	1,775	1,850	1,928	2,005	2,085	2,168	2,255	2,345	2,434
319			HAMBELA WAMENA	WEREDA Dimtu	1,999	2,083	2,170	2,261	2,351	2,445	2,543	2,645	2,751	2,856
320			GIRJA	Haren Fema	1,156	1,205	1,256	1,309	1,361	1,415	1,472	1,531	1,592	1,652
321			NEGELE	NEGELE	41,734	43,487	45,313	47,216	49,105	51,069	53,112	55,236	57,445	59,628

# URBAN WATER SUPPLY UAP

I.N o	Region	Zone	Woreda	Town	Base Populatio n	Projected population								
322			ADOLA	ADOLA	27,147	28,287	29,475	30,713	31,942	33,220	34,549	35,931	37,368	38,788
323		ADAMA SPECIAL	ADAMA	ADAMA	260,611	271,557	282,962	294,846	306,640	318,906	331,662	344,928	358,725	372,357
324		JIMMA TOWN SPECIAL	JIMMA	JIMMA	143,151	149,163	155,428	161,956	168,434	175,171	182,178	189,465	197,044	204,532
325		WEST ARSI	SIRARO	Ropi	6,121	6,378	6,646	6,925	7,202	7,490	7,790	8,102	8,426	8,746
326			SHALA	Aje	9,089	9,471	9,869	10,283	10,694	11,122	11,567	12,030	12,511	12,986
327			ARSIS NEGELE	ARSIS NEGELE	55,968	58,319	60,768	63,320	65,853	68,487	71,226	74,075	77,038	79,965
328				Golije	5,022	5,233	5,453	5,682	5,909	6,145	6,391	6,647	6,913	7,176
329			KOFELE	KOFELE	15,957	16,627	17,325	18,053	18,775	19,526	20,307	21,119	21,964	22,799
330				Wabe Gefersa	2,325	2,423	2,525	2,631	2,736	2,845	2,959	3,077	3,200	3,322
331			QORE	QORE	6,382	6,650	6,929	7,220	7,509	7,809	8,121	8,446	8,784	9,118
332			GEDEB ASASA	ASASA	24,458	25,485	26,555	27,670	28,777	29,928	31,125	32,370	33,665	34,944
333			DODOLA	DODOLA	24,652	25,687	26,766	27,890	29,006	30,166	31,373	32,628	33,933	35,222
334				Harero	6,026	6,279	6,543	6,818	7,091	7,375	7,670	7,977	8,296	8,611
335				Edo Megala	3,265	3,402	3,545	3,694	3,842	3,996	4,156	4,322	4,495	4,666
336				Negele Metema	3,460	3,605	3,756	3,914	4,071	4,234	4,403	4,579	4,762	4,943
337				Serofta	3,014	3,141	3,273	3,410	3,546	3,688	3,836	3,989	4,149	4,307
338			KOKOSA	KOKOSA	3,816	3,976	4,143	4,317	4,490	4,670	4,857	5,051	5,253	5,453
339			NENSEBO	Werka	7,181	7,483	7,797	8,124	8,449	8,787	9,138	9,504	9,884	10,260
340			ADABA	ADABA	14,319	14,920	15,547	16,200	16,848	17,522	18,223	18,952	19,710	20,459
341			SHASHEMENE	SHASHEMENE	118,883	123,876	129,079	134,500	139,880	145,475	151,294	157,346	163,640	169,858
342			SHASHEMENE ZURIA	Kuyera	12,063	12,570	13,098	13,648	14,194	14,762	15,352	15,966	16,605	17,236
343		KELEM WELLEGA	HAWA GELAN-	Rob Gebeya	6,583	6,859	7,147	7,447	7,745	8,055	8,377	8,712	9,060	9,404
344			YEMALOGI WELEL	Tejo	1,900	1,980	2,063	2,150	2,236	2,325	2,418	2,515	2,616	2,715
345			DALE WABERA	Kake	8,964	9,340	9,732	10,141	10,547	10,969	11,408	11,864	12,339	12,808
346				Chenka	7,728	8,053	8,391	8,743	9,093	9,457	9,835	10,228	10,637	11,041
347			GAWO QEBE	Qebe	2,049	2,135	2,225	2,318	2,411	2,507	2,607	2,711	2,819	2,926
348			DEMBI DOLO	DEMBI DOLO	34,850	36,314	37,839	39,428	41,005	42,645	44,351	46,125	47,970	49,793
349			ANFILO	Mugi	9,294	9,684	10,091	10,515	10,936	11,373	11,828	12,301	12,793	13,279

URBAN WATER  
SUPPLY UAP

I.No	Region	Zone	Woreda	Town	Base Population	Projected population								
						2011	2012	2013	2014	2015	2016	2017	2018	2019
350			DALE SEDI	Haro Sebu	5,587	5,822	6,067	6,322	6,575	6,838	7,112	7,396	7,692	7,984
351			GIDAMI	GIDAMI	6,630	6,908	7,198	7,500	7,800	8,112	8,436	8,773	9,124	9,471
352			JIMMA HORO	Nunu	3,367	3,508	3,655	3,809	3,961	4,119	4,284	4,455	4,633	4,809
353			LALO KILE	Lalo	3,320	3,459	3,604	3,755	3,905	4,061	4,223	4,392	4,568	4,742
354		HORO GUDRU WELLEGA	HORO	Sekela	4,342	4,524	4,714	4,912	5,108	5,312	5,524	5,745	5,975	6,202
355			SHAMBU	SHAMBU	17,746	18,491	19,268	20,077	20,880	21,715	22,584	23,487	24,426	25,354
356			GUDURU	Kombolcha	7,697	8,020	8,357	8,708	9,056	9,418	9,795	10,187	10,594	10,997
357			HABABO GUDURU	Dedu	2,797	2,914	3,036	3,164	3,291	3,423	3,560	3,702	3,850	3,996
358			ABAY CHOMEN	Fincha	11,172	11,641	12,130	12,639	13,145	13,671	14,218	14,787	15,378	15,962
359			JIMMA GENETI	Hareto	6,883	7,172	7,473	7,787	8,098	8,422	8,759	9,109	9,473	9,833
360				Biqiltu Qidame	1,361	1,418	1,478	1,540	1,602	1,666	1,733	1,802	1,874	1,945
361			JIMMA RARE	Wayu	7,832	8,161	8,504	8,861	9,215	9,584	9,967	10,366	10,781	11,191
362				Goben	2,385	2,485	2,589	2,698	2,806	2,918	3,035	3,156	3,282	3,407
363			JARDGA JARTE	Alibo	5,629	5,865	6,111	6,368	6,623	6,888	7,164	7,451	7,749	8,043
364			AMURU	Abora	5,789	6,032	6,285	6,549	6,811	7,083	7,366	7,661	7,967	8,270
365			ABE DENGORO	Tulu Wayo	2,981	3,106	3,236	3,372	3,507	3,647	3,793	3,945	4,103	4,259
366		BURAYU SPECIAL	BURAYU	BURAYU	57,842	60,271	62,802	65,440	68,058	70,780	73,611	76,555	79,617	82,642
		<b>Total</b>			<b>3,926,059</b>	<b>4,090,959</b>	<b>4,262,785</b>	<b>4,441,814</b>	<b>4,619,483</b>	<b>4,804,263</b>	<b>4,996,437</b>	<b>5,196,296</b>	<b>5,404,144</b>	<b>5,609,508</b>

J)SNNPNRS

I.No	Region	Zone	Woreda	Town	Base Population	Projected population									
						2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
						2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
						4.20%	4.20%	4.20%	4.20%	4.00%	4.00%	4.00%	4.00%	4.00%	3.80%
1	S.N.N.	GURAGE	EZHA	Agena	4,731	4,930	5,137	5,353	5,567	5,790	6,022	6,263	6,514	6,762	

URBAN WATER  
SUPPLY UAP

I.No	Region P R	Zone	Woreda	Town	Base Populatio n	Projected population								
2			KOKIR GEDEBANO	Mehal Amba	1,777	1,852	1,930	2,011	2,091	2,175	2,262	2,352	2,446	2,539
3				Anige	591	616	642	669	696	724	753	783	814	845
4			SODO	Buei	8,884	9,257	9,646	10,051	10,453	10,871	11,306	11,758	12,228	12,693
5				Kela	4,488	4,676	4,872	5,077	5,280	5,491	5,711	5,939	6,177	6,412
6				Tiya	2,470	2,574	2,682	2,795	2,907	3,023	3,144	3,270	3,401	3,530
7				Suten	1,655	1,725	1,797	1,872	1,947	2,025	2,106	2,190	2,278	2,365
8			MESKAN	Enseno	14,523	15,133	15,769	16,431	17,088	17,772	18,483	19,222	19,991	20,751
9			MAREQO	Koshe	8,774	9,143	9,527	9,927	10,324	10,737	11,166	11,613	12,078	12,537
10			ENDEGAGN	Dinkela	977	1,018	1,061	1,106	1,150	1,196	1,244	1,294	1,346	1,397
11			GUMER	Arekit	3,728	3,885	4,048	4,218	4,387	4,562	4,744	4,934	5,131	5,326
12			CHEHA	Endibir	8,274	8,622	8,984	9,361	9,735	10,124	10,529	10,950	11,388	11,821
13				Gubire	3,193	3,327	3,467	3,613	3,758	3,908	4,064	4,227	4,396	4,563
14			ENEMORNA ENER	Gunchire	6,271	6,534	6,808	7,094	7,378	7,673	7,980	8,299	8,631	8,959
15				Kose	2,134	2,224	2,317	2,414	2,511	2,611	2,715	2,824	2,937	3,049
16			MUHOR NA AKLIL	Hawariyat	922	961	1,001	1,043	1,085	1,128	1,173	1,220	1,269	1,317
17			WELKITE	WELKITE	36,813	38,359	39,970	41,649	43,315	45,048	46,850	48,724	50,673	52,599
18			BUTAJIRA	BUTAJIRA	42,602	44,391	46,255	48,198	50,126	52,131	54,216	56,385	58,640	60,868
19		HADIYA	MISHA	Morsito	5,107	5,321	5,544	5,777	6,008	6,248	6,498	6,758	7,028	7,295
20				Geja	2,467	2,571	2,679	2,792	2,904	3,020	3,141	3,267	3,398	3,527
21			GIBE	Homocho	6,460	6,731	7,014	7,309	7,601	7,905	8,221	8,550	8,892	9,230
22			LEMO	Lisana	1,598	1,665	1,735	1,808	1,880	1,955	2,033	2,114	2,199	2,283
23				Belesa	1,015	1,058	1,102	1,148	1,194	1,242	1,292	1,344	1,398	1,451
24			SHASHAGO	Bonesha	8,082	8,421	8,775	9,144	9,510	9,890	10,286	10,697	11,125	11,548
25				Dosha	2,399	2,500	2,605	2,714	2,823	2,936	3,053	3,175	3,302	3,427
26			MISRAK BADAWOCH O	Shone	19,915	20,751	21,623	22,531	23,432	24,369	25,344	26,358	27,412	28,454

## URBAN WATER SUPPLY UAP

I.No	Region	Zone	Woreda	Town	Base Population	Projected population								
27			SORO	Gimbicho	10,911	11,369	11,846	12,344	12,838	13,352	13,886	14,441	15,019	15,590
28				Dajura	8,100	8,440	8,794	9,163	9,530	9,911	10,307	10,719	11,148	11,572
29				Jecho	2,523	2,629	2,739	2,854	2,968	3,087	3,210	3,338	3,472	3,604
30			DUNA	Anso	7,368	7,677	7,999	8,335	8,668	9,015	9,376	9,751	10,141	10,526
31			ANALIMO	Fonko	3,035	3,162	3,295	3,433	3,570	3,713	3,862	4,016	4,177	4,336
32			MIRAB BADAWOCHO	Wada	2,696	2,809	2,927	3,050	3,172	3,299	3,431	3,568	3,711	3,852
33			HOSAENA	HOSAENA	89,263	93,012	96,919	100,990	105,030	109,231	113,600	118,144	122,870	127,539
34		KEMBATA TIBARO	TIBARO	Mudula	7,874	8,205	8,550	8,909	9,265	9,636	10,021	10,422	10,839	11,251
35				Kalate	1,838	1,915	1,995	2,079	2,162	2,248	2,338	2,432	2,529	2,625
36			ANIGACHA	ANIGACHA	8,697	9,062	9,443	9,840	10,234	10,643	11,069	11,512	11,972	12,427
37			KEDIDA GAMELA	Adilo	5,942	6,192	6,452	6,723	6,992	7,272	7,563	7,866	8,181	8,492
38			KACHA BIRA	Shinshicho	18,217	18,982	19,779	20,610	21,434	22,291	23,183	24,110	25,074	26,027
39				Hobichaka	1,993	2,077	2,164	2,255	2,345	2,439	2,537	2,638	2,744	2,848
40			HADERO TUNITO	Hadero	22,740	23,695	24,690	25,727	26,756	27,826	28,939	30,097	31,301	32,490
41				Tunto	7,279	7,585	7,904	8,236	8,565	8,908	9,264	9,635	10,020	10,401
42			DOYO GENA	DOYO GENA	8,573	8,933	9,308	9,699	10,087	10,490	10,910	11,346	11,800	12,248
43			DANIBOYA	Diniboya	10,358	10,793	11,246	11,718	12,187	12,674	13,181	13,708	14,256	14,798
44			DURAME	DURAME	31,209	32,520	33,886	35,309	36,721	38,190	39,718	41,307	42,959	44,591
45		SIDAMA	SHEBEDINO	Leku	15,088	15,722	16,382	17,070	17,753	18,463	19,202	19,970	20,769	21,558
46			ARBEGONA	Yaya	8,602	8,963	9,339	9,731	10,120	10,525	10,946	11,384	11,839	12,289
47			DALE	Yirga Alem	38,702	40,327	42,021	43,786	45,537	47,358	49,252	51,222	53,271	55,295
48			ALETA WONDO	ALETA WONDO	28,175	29,358	30,591	31,876	33,151	34,477	35,856	37,290	38,782	40,256
49			DARA	Kebado	9,351	9,744	10,153	10,579	11,002	11,442	11,900	12,376	12,871	13,360
50				Teferi Kela	4,243	4,421	4,607	4,800	4,992	5,192	5,400	5,616	5,841	6,063
51			HULA	Hagere Selam	8,174	8,517	8,875	9,248	9,618	10,003	10,403	10,819	11,252	11,680
52			BENSA	Daye	14,777	15,398	16,045	16,719	17,388	18,084	18,807	19,559	20,341	21,114

URBAN WATER  
SUPPLY UAP

I.No	Region	Zone	Woreda	Town	Base Population	Projected population								
53			ARORESA	Mejo	3,799	3,959	4,125	4,298	4,470	4,649	4,835	5,028	5,229	5,428
54			BORICHA	Yirba	5,300	5,523	5,755	5,997	6,237	6,486	6,745	7,015	7,296	7,573
55				Darara	3,223	3,358	3,499	3,646	3,792	3,944	4,102	4,266	4,437	4,606
56				Bolela	4,741	4,940	5,147	5,363	5,578	5,801	6,033	6,274	6,525	6,773
57			GORCHE	GORCHE	3,808	3,968	4,135	4,309	4,481	4,660	4,846	5,040	5,242	5,441
58			MALGA	Manicho	5,123	5,338	5,562	5,796	6,028	6,269	6,520	6,781	7,052	7,320
59			WENSHO	Bokasa	2,600	2,709	2,823	2,942	3,060	3,182	3,309	3,441	3,579	3,715
60			LOKO ABEYA	Hanitate	1,351	1,408	1,467	1,529	1,590	1,654	1,720	1,789	1,861	1,932
61			CHERE	CHERE	3,006	3,132	3,264	3,401	3,537	3,678	3,825	3,978	4,137	4,294
62			BURSA	BURSA	2,938	3,061	3,190	3,324	3,457	3,595	3,739	3,889	4,045	4,199
63			CHEKO	CHEKO	7,235	7,539	7,856	8,186	8,513	8,854	9,208	9,576	9,959	10,337
64			BONA ZURIA	Bona	7,672	7,994	8,330	8,680	9,027	9,388	9,764	10,155	10,561	10,962
65			WENDO GENET	Chuko	23,551	24,540	25,571	26,645	27,711	28,819	29,972	31,171	32,418	33,650
66				Kela	5,941	6,191	6,451	6,722	6,991	7,271	7,562	7,864	8,179	8,490
67		GEDEO	WENAGO	WENAGO	10,803	11,257	11,730	12,223	12,712	13,220	13,749	14,299	14,871	15,436
68			YIRGA CHEFE	YIRGA CHEFE	19,280	20,090	20,934	21,813	22,686	23,593	24,537	25,518	26,539	27,547
69			KOCHIRE	Chelelektu	8,814	9,184	9,570	9,972	10,371	10,786	11,217	11,666	12,133	12,594
70				Fiseha Genet	4,711	4,909	5,115	5,330	5,543	5,765	5,996	6,236	6,485	6,731
71			BULE	BULE	7,021	7,316	7,623	7,943	8,261	8,591	8,935	9,292	9,664	10,031
72			GEDEB	GEDEB	11,389	11,867	12,365	12,884	13,399	13,935	14,492	15,072	15,675	16,271
73			DILA	DILA	75,432	78,600	81,901	85,341	88,755	92,305	95,997	99,837	103,830	107,776
74		WOLAYITA	BOLOSO SORE	Areka	40,054	41,736	43,489	45,316	47,129	49,014	50,975	53,014	55,135	57,230
75			DAMOT GALE	Bodite	30,776	32,069	33,416	34,819	36,212	37,660	39,166	40,733	42,362	43,972
76			DAMOT WOYIDE	Bedesa	6,762	7,046	7,342	7,650	7,956	8,274	8,605	8,949	9,307	9,661
77			HUMBO	Tebela	7,967	8,302	8,651	9,014	9,375	9,750	10,140	10,546	10,968	11,385
78			KINDO KOYISHA	Bele	8,404	8,757	9,125	9,508	9,888	10,284	10,695	11,123	11,568	12,008

URBAN WATER  
SUPPLY UAP

I.No	Region	Zone	Woreda	Town	Base Population	Projected population								
79			OFA	Gesuba	6,919	7,210	7,513	7,829	8,142	8,468	8,807	9,159	9,525	9,887
80			BOLOSO BONIBE	Bonibe	1,348	1,405	1,464	1,525	1,586	1,649	1,715	1,784	1,855	1,925
81			DAMOT SORE	Gunino	7,810	8,138	8,480	8,836	9,189	9,557	9,939	10,337	10,750	11,159
82			KINDO DIDAYE	Halele	1,820	1,896	1,976	2,059	2,141	2,227	2,316	2,409	2,505	2,600
83			DAMOT PULASA	Shanto	6,817	7,103	7,401	7,712	8,020	8,341	8,675	9,022	9,383	9,740
84			DEGUNA FANIGO	Bitena	2,170	2,261	2,356	2,455	2,553	2,655	2,761	2,871	2,986	3,099
85				Dimtu	2,170	2,261	2,356	2,455	2,553	2,655	2,761	2,871	2,986	3,099
86			SODO	SODO	96,985	101,058	105,302	109,725	114,114	118,679	123,426	128,363	133,498	138,571
87		SOUTH OMO	SELAMAGO	Hanna	1,572	1,638	1,707	1,779	1,850	1,924	2,001	2,081	2,164	2,246
88			DEBUB ARI	Tolta	2,373	2,473	2,577	2,685	2,792	2,904	3,020	3,141	3,267	3,391
89				Wubhamer	6,663	6,943	7,235	7,539	7,841	8,155	8,481	8,820	9,173	9,522
90				Gazer	4,618	4,812	5,014	5,225	5,434	5,651	5,877	6,112	6,356	6,598
91				Jinka	25,846	26,932	28,063	29,242	30,412	31,628	32,893	34,209	35,577	36,929
92			SEMEN ARI	Gelila	3,002	3,128	3,259	3,396	3,532	3,673	3,820	3,973	4,132	4,289
93			HAMER	Dimeka	2,580	2,688	2,801	2,919	3,036	3,157	3,283	3,414	3,551	3,686
94				Turmi	1,517	1,581	1,647	1,716	1,785	1,856	1,930	2,007	2,087	2,166
95			BENA TSEMAY	Key Afer	2,747	2,862	2,982	3,107	3,231	3,360	3,494	3,634	3,779	3,923
96			DASENECH	Omorate	3,011	3,137	3,269	3,406	3,542	3,684	3,831	3,984	4,143	4,300
97			MALE	Lemo Genito	1,166	1,215	1,266	1,319	1,372	1,427	1,484	1,543	1,605	1,666
98		SHEKA	MASHA	MASHA	8,655	9,019	9,398	9,793	10,185	10,592	11,016	11,457	11,915	12,368
99			ANDERACHA	Gecha	3,330	3,470	3,616	3,768	3,919	4,076	4,239	4,409	4,585	4,759
100			YEKI	Tapi	31,664	32,994	34,380	35,824	37,257	38,747	40,297	41,909	43,585	45,241
101		KEFA-	SAYILEM	Yadota	2,582	2,690	2,803	2,921	3,038	3,160	3,286	3,417	3,554	3,689
102			GESHA DEKA	Daka	4,378	4,562	4,754	4,954	5,152	5,358	5,572	5,795	6,027	6,256
103			GEWATA	Konda	1,837	1,914	1,994	2,078	2,161	2,247	2,337	2,430	2,527	2,623
104			GIMBO	Bufa	5,129	5,344	5,568	5,802	6,034	6,275	6,526	6,787	7,058	7,326

URBAN WATER  
SUPPLY UAP

I.No	Region	Zone	Woreda	Town	Base Population	Projected population								
105				Gojob	3,675	3,829	3,990	4,158	4,324	4,497	4,677	4,864	5,059	5,251
106				Dire	650	677	705	735	764	795	827	860	894	928
107				Wushwush	2,802	2,920	3,043	3,171	3,298	3,430	3,567	3,710	3,858	4,005
108			MENJIWO	Kaka Ediget	3,644	3,797	3,956	4,122	4,287	4,458	4,636	4,821	5,014	5,205
109			TELO	Ada	4,475	4,663	4,859	5,063	5,266	5,477	5,696	5,924	6,161	6,395
110			CHETA	Shama	1,871	1,950	2,032	2,117	2,202	2,290	2,382	2,477	2,576	2,674
111			DECHA	Chiri	6,963	7,255	7,560	7,878	8,193	8,521	8,862	9,216	9,585	9,949
112			CHENA	Wacha	13,390	13,952	14,538	15,149	15,755	16,385	17,040	17,722	18,431	19,131
113				Sheshsnda	1,441	1,502	1,565	1,631	1,696	1,764	1,835	1,908	1,984	2,059
114			BITA	BITA	3,502	3,649	3,802	3,962	4,120	4,285	4,456	4,634	4,819	5,002
115			BONGA	BONGA	26,599	27,716	28,880	30,093	31,297	32,549	33,851	35,205	36,613	38,004
116		GAMO GOFA	MELEKOZA	Leha	4,179	4,355	4,538	4,729	4,918	5,115	5,320	5,533	5,754	5,973
117			KUCHA	Selamber	6,533	6,807	7,093	7,391	7,687	7,994	8,314	8,647	8,993	9,335
118			BOREDA	Zefgne	3,521	3,669	3,823	3,984	4,143	4,309	4,481	4,660	4,846	5,030
119			MIRAB ABAYA	Birbir	7,440	7,752	8,078	8,417	8,754	9,104	9,468	9,847	10,241	10,630
120			CHENICHA	CHENICHA	13,040	13,588	14,159	14,754	15,344	15,958	16,596	17,260	17,950	18,632
121				Ezo	2,325	2,423	2,525	2,631	2,736	2,845	2,959	3,077	3,200	3,322
122				Dorze	1,602	1,669	1,739	1,812	1,884	1,959	2,037	2,118	2,203	2,287
123			DITA	Zada	3,790	3,949	4,115	4,288	4,460	4,638	4,824	5,017	5,218	5,416
124			DERAMALO	Wacha	4,106	4,278	4,458	4,645	4,831	5,024	5,225	5,434	5,651	5,866
125			ZALA	Galam	2,725	2,839	2,958	3,082	3,205	3,333	3,466	3,605	3,749	3,891
126			UBA DEBRETSEHAY	Beto	5,668	5,906	6,154	6,412	6,668	6,935	7,212	7,500	7,800	8,096
127			KEMBA	KEMBA	5,997	6,249	6,511	6,784	7,055	7,337	7,630	7,935	8,252	8,566
128			BONKE	Gerese	8,094	8,434	8,788	9,157	9,523	9,904	10,300	10,712	11,140	11,563
129			GEZE GOFA	Bulki	7,322	7,630	7,950	8,284	8,615	8,960	9,318	9,691	10,079	10,462
130			ARBA MINCH	ARBA MINCH	95,492	99,503	103,682	108,037	112,358	116,852	121,526	126,387	131,442	136,437



URBAN WATER  
SUPPLY UAP

I.No	Region	Zone	Woreda	Town	Base Population	Projected population								
131			SAWULA	SAWULA	28,954	30,170	31,437	32,757	34,067	35,430	36,847	38,321	39,854	41,368
132		BENCH MAJI	SHEKO	SHEKO	6,154	6,412	6,681	6,962	7,240	7,530	7,831	8,144	8,470	8,792
133			GURAFERDA	Biftu	6,365	6,632	6,911	7,201	7,489	7,789	8,101	8,425	8,762	9,095
134			DEBUB BENCH	Mukutin	11,047	11,511	11,994	12,498	12,998	13,518	14,059	14,621	15,206	15,784
135			SHAY BENCH	SHAY BENCH	5,630	5,866	6,112	6,369	6,624	6,889	7,165	7,452	7,750	8,045
136			MEINIT GOLDEYA	Bachuma	3,248	3,384	3,526	3,674	3,821	3,974	4,133	4,298	4,470	4,640
137			MEINIT SHASHA	Jemu	3,544	3,693	3,848	4,010	4,170	4,337	4,510	4,690	4,878	5,063
138			MAJI	Tumi	3,926	4,091	4,263	4,442	4,620	4,805	4,997	5,197	5,405	5,610
139				Maji	2,243	2,337	2,435	2,537	2,638	2,744	2,854	2,968	3,087	3,204
140			BERO	Jeba	2,369	2,468	2,572	2,680	2,787	2,898	3,014	3,135	3,260	3,384
141			SURIMA	Kibishi	1,166	1,215	1,266	1,319	1,372	1,427	1,484	1,543	1,605	1,666
142			SEMEN BENCH	Bri	6,798	7,084	7,382	7,692	8,000	8,320	8,653	8,999	9,359	9,715
143			MIZAN AMAN	Mizan	29,515	30,755	32,047	33,393	34,729	36,118	37,563	39,066	40,629	42,173
144				Aman	13,947	14,533	15,143	15,779	16,410	17,066	17,749	18,459	19,197	19,926
145		YEM SPECIAL	YEM SPECIAL	Fofa	6,325	6,591	6,868	7,156	7,442	7,740	8,050	8,372	8,707	9,038
146				Saja	3,815	3,975	4,142	4,316	4,489	4,669	4,856	5,050	5,252	5,452
147		AMARO SPECIAL	AMARO SPECIAL	Kele	11,009	11,471	11,953	12,455	12,953	13,471	14,010	14,570	15,153	15,729
148		BURJI SPECIAL	BURJI SPECIAL	Soyama	8,001	8,337	8,687	9,052	9,414	9,791	10,183	10,590	11,014	11,433
149		KONSO SPECIAL	KONSO SPECIAL	Karat	7,381	7,691	8,014	8,351	8,685	9,032	9,393	9,769	10,160	10,546
150				Segen	4,626	4,820	5,022	5,233	5,442	5,660	5,886	6,121	6,366	6,608
151		DERASHE SPECIAL	DERASHE SPECIAL	Gidole	16,814	17,520	18,256	19,023	19,784	20,575	21,398	22,254	23,144	24,023
152		DAWURO	TOCHA	Tocha Edget	5,545	5,778	6,021	6,274	6,525	6,786	7,057	7,339	7,633	7,923
153				Alem Gena	2,889	3,010	3,136	3,268	3,399	3,535	3,676	3,823	3,976	4,127
154			MAREKA	Tercha	11,579	12,065	12,572	13,100	13,624	14,169	14,736	15,325	15,938	16,544
155				Waka	12,635	13,166	13,719	14,295	14,867	15,462	16,080	16,723	17,392	18,053
156			LOMA	Gesa	5,100	5,314	5,537	5,770	6,001	6,241	6,491	6,751	7,021	7,288

URBAN WATER  
SUPPLY UAP

I.No	Region	Zone	Woreda	Town	Base Population	Projected population								
157			GENA BOSA	Kerawo	1,802	1,878	1,957	2,039	2,121	2,206	2,294	2,386	2,481	2,575
158			ISARA	Bale	5,139	5,355	5,580	5,814	6,047	6,289	6,541	6,803	7,075	7,344
159		BASKETO SPECIAL	BASKETO SPECIAL	Laska	6,651	6,930	7,221	7,524	7,825	8,138	8,464	8,803	9,155	9,503
160		KONTA SPECIAL	KONTA SPECIAL	Ameya	6,160	6,419	6,689	6,970	7,249	7,539	7,841	8,155	8,481	8,803
161				Choda Ediget	4,370	4,554	4,745	4,944	5,142	5,348	5,562	5,784	6,015	6,244
162		SILTIE	ALICHO WERERO	Kawakota	998	1,040	1,084	1,130	1,175	1,222	1,271	1,322	1,375	1,427
163			SILTIE	Kibat	7,241	7,545	7,862	8,192	8,520	8,861	9,215	9,584	9,967	10,346
164				Alkeso	1,311	1,366	1,423	1,483	1,542	1,604	1,668	1,735	1,804	1,873
165				Werabe	12,089	12,597	13,126	13,677	14,224	14,793	15,385	16,000	16,640	17,272
166			LANFURO	Tora	11,691	12,182	12,694	13,227	13,756	14,306	14,878	15,473	16,092	16,703
167				Mito	4,183	4,359	4,542	4,733	4,922	5,119	5,324	5,537	5,758	5,977
168			MIRAB AZERNET BERBERE	Lera	3,587	3,738	3,895	4,059	4,221	4,390	4,566	4,749	4,939	5,127
169				Duna	2,833	2,952	3,076	3,205	3,333	3,466	3,605	3,749	3,899	4,047
170			DALOCHA	DALOCHA	8,663	9,027	9,406	9,801	10,193	10,601	11,025	11,466	11,925	12,378
171			SANKURA	Alem Gebeya	4,663	4,859	5,063	5,276	5,487	5,706	5,934	6,171	6,418	6,662
172			WILBAREG	Kerate	2,803	2,921	3,044	3,172	3,299	3,431	3,568	3,711	3,859	4,006
173		ALABA SPECIAL	ALABA SPECIAL	Alaba Kulito	34,263	35,702	37,201	38,763	40,314	41,927	43,604	45,348	47,162	48,954
174		HAWASSA CITY ADMINISTRATION	HAWASSA CITY ADMINISTRATION	HAWASSA CITY ADMINISTRATION	200,396	208,813	217,583	226,721	235,790	245,222	255,031	265,232	275,841	286,323
175				Tula	944	984	1,025	1,068	1,111	1,155	1,201	1,249	1,299	1,348
					<b>1,907,246</b>	<b>1,987,350</b>	<b>2,070,817</b>	<b>2,157,798</b>	<b>2,244,109</b>	<b>2,333,872</b>	<b>2,427,226</b>	<b>2,524,312</b>	<b>2,625,286</b>	<b>2,725,050</b>

k)Tigray

URBAN WATER  
SUPPLY UAP

I. No	Region/ Zone	Zone	Woreda	Town	Base Populatio n	Projected population								
						2011	2012	2013	2014	2015	2016	2017	2018	2019
					4.20%	4.20%	4.20%	4.20%	4.00%	4.00%	4.00%	4.00%	4.00%	3.80%
1	TIGRAY- REGION	NORTH WEST TIGRAY	TAHTAY ADIYABO	Adi Hageray	7,714	8,038	8,376	8,728	9,077	9,440	9,818	10,211	10,619	11,023
2			LAELAY ADIYABO	Adi Daero	9,716	10,124	10,549	10,992	11,432	11,889	12,365	12,860	13,374	13,882
3			MEDEBA Y ZANA	Selekileha	8,800	9,170	9,555	9,956	10,354	10,768	11,199	11,647	12,113	12,573
4				Zana-Town	3,933	4,098	4,270	4,449	4,627	4,812	5,004	5,204	5,412	5,618
5			ASEGEDE TSIMBILA	Endaba Guna	12230	12,744	13,279	13,837	14,390	14,966	15,565	16,188	16,836	17,476
6			TSELEMT I	May Tsebri	10430	10,868	11,324	11,800	12,272	12,763	13,274	13,805	14,357	14,903
7			SHIRE ENIDASIL ASE	Shire Enidasilase	57194	59,596	62,099	64,707	67,295	69,987	72,786	75,697	78,725	81,717
8			SHIRARO	Shiraro	20,618	21,484	22,386	23,326	24,259	25,229	26,238	27,288	28,380	29,458
9		CENTRAL TIGRAY	MEREB LEHE	Rama	9,569	9,971	10,390	10,826	11,259	11,709	12,177	12,664	13,171	13,671
10			AHIFERO M	Gerihu Semay	7,619	7,939	8,272	8,619	8,964	9,323	9,696	10,084	10,487	10,886
11				Inticho	12,456	12,979	13,524	14,092	14,656	15,242	15,852	16,486	17,145	17,797
12				Diobdibo	3,022	3,149	3,281	3,419	3,556	3,698	3,846	4,000	4,160	4,318
13				Feres May	5,233	5,453	5,682	5,921	6,158	6,404	6,660	6,926	7,203	7,477
14			WERE LEHE	Nebelata	4,169	4,344	4,526	4,716	4,905	5,101	5,305	5,517	5,738	5,956
15				Idagarbi	10,368	10,803	11,257	11,730	12,199	12,687	13,194	13,722	14,271	14,813
16				Maykinatil	5,452	5,681	5,920	6,169	6,416	6,673	6,940	7,218	7,507	7,792
17			TAHTAY MAYCHE W	Chila	3,635	3,788	3,947	4,113	4,278	4,449	4,627	4,812	5,004	5,194
18				Wukro Marya	9,897	10,313	10,746	11,197	11,645	12,111	12,595	13,099	13,623	14,141
19			NADER ADET	Semema	2,228	2,322	2,420	2,522	2,623	2,728	2,837	2,950	3,068	3,185

URBAN WATER  
SUPPLY UAP

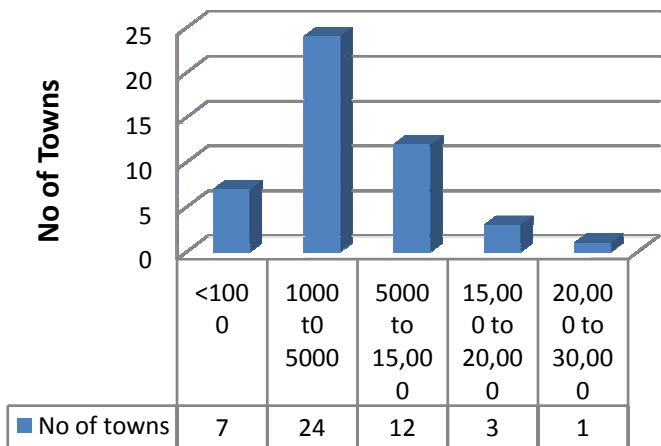
I. No	Region/ Zone	Zone	Woreda	Town	Base Populatio n	Projected population								
20			DEGUA TEMBEN	Hagere Selam	8,794	9,163	9,548	9,949	10,347	10,761	11,191	11,639	12,105	12,565
21			TANQUA ABERGEL E	Mearay	8,510	8,867	9,239	9,627	10,012	10,412	10,828	11,261	11,711	12,156
22			ABIYI ADI	Abiyi Adi	19,492	20,311	21,164	22,053	22,935	23,852	24,806	25,798	26,830	27,850
23			ADWA	Adwa	48,988	51,045	53,189	55,423	57,640	59,946	62,344	64,838	67,432	69,994
24			AXUM	Axum	54,004	56,272	58,635	61,098	63,542	66,084	68,727	71,476	74,335	77,160
25		<b>EASTERN TIGRAY</b>	GULO MEHEDA	Zalambesa	9,075	9,456	9,853	10,267	10,678	11,105	11,549	12,011	12,491	12,966
26				Fatsi	3,144	3,276	3,414	3,557	3,699	3,847	4,001	4,161	4,327	4,491
27			EROB	Dawuhan	2,529	2,635	2,746	2,861	2,975	3,094	3,218	3,347	3,481	3,613
28			SAESI TSADAM BA	Edega Hamus	14,520	15,130	15,765	16,427	17,084	17,767	18,478	19,217	19,986	20,745
29				Fireweyini	8,382	8,734	9,101	9,483	9,862	10,256	10,666	11,093	11,537	11,975
30			GANTA AFESHUM	Bazet	4,399	4,584	4,777	4,978	5,177	5,384	5,599	5,823	6,056	6,286
31			HAWUZE N	Hawuzen	9,136	9,520	9,920	10,337	10,750	11,180	11,627	12,092	12,576	13,054
32			KLITE AWLALO	Agula	5,816	6,060	6,315	6,580	6,843	7,117	7,402	7,698	8,006	8,310
33			ATSBI WENBER TA	Atsbi Endasilasie	9,657	10,063	10,486	10,926	11,363	11,818	12,291	12,783	13,294	13,799
34				Hayka Mesahil	3,823	3,984	4,151	4,325	4,498	4,678	4,865	5,060	5,262	5,462
35			ADIGRAT	Adigrat	69,658	72,584	75,633	78,810	81,962	85,240	88,650	92,196	95,884	99,528
36			WUKRO	Wukro	36,542	38,077	39,676	41,342	42,996	44,716	46,505	48,365	50,300	52,211
37		<b>OUTHERN TIGRAY</b>	SEHARTI SAMRE	Gijet	5,392	5,618	5,854	6,100	6,344	6,598	6,862	7,136	7,421	7,703
38				Samira	5,723	5,963	6,213	6,474	6,733	7,002	7,282	7,573	7,876	8,175
39			HINTALO WAJIRAT	Adi Gudom	9,705	10,113	10,538	10,981	11,420	11,877	12,352	12,846	13,360	13,868
40				Hiwane	4,732	4,931	5,138	5,354	5,568	5,791	6,023	6,264	6,515	6,763

URBAN WATER  
SUPPLY UAP

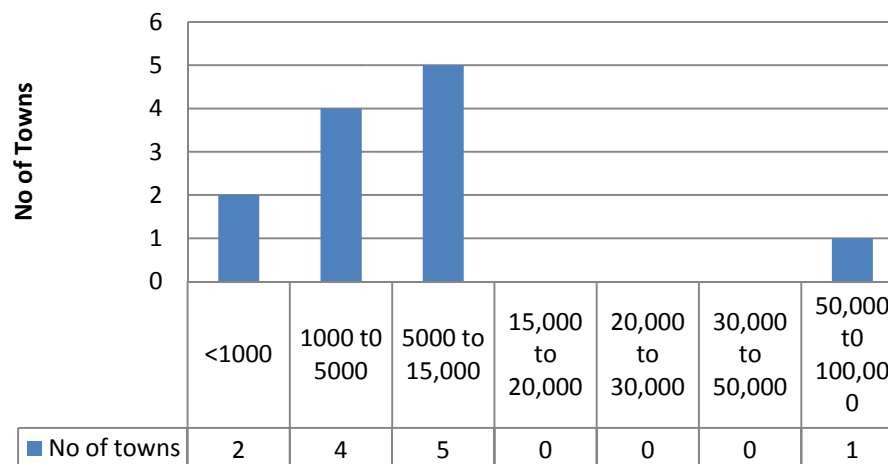
I. No	Region/ Zone	Zone	Woreda	Town	Base Populatio n	Projected population								
41			ALAJE	Adishohu	9,154	9,538	9,939	10,356	10,770	11,201	11,649	12,115	12,600	13,079
42			ENDAME HONI	Meswaet	3,612	3,764	3,922	4,087	4,250	4,420	4,597	4,781	4,972	5,161
43			RAYA AZEBO	Mehoni	16,684	17,385	18,115	18,876	19,631	20,416	21,233	22,082	22,965	23,838
44				Chercher	2,737	2,852	2,972	3,097	3,221	3,350	3,484	3,623	3,768	3,911
45			ALAMAT A	Waja Temuga	5,519	5,751	5,993	6,245	6,495	6,755	7,025	7,306	7,598	7,887
46			MAYCHE W	Maychew	28,328	29,518	30,758	32,050	33,332	34,665	36,052	37,494	38,994	40,476
47			KOREM	Korem	20,389	21,245	22,137	23,067	23,990	24,950	25,948	26,986	28,065	29,131
48			ALAMAT A	Alamata	40,176	41,863	43,621	45,453	47,271	49,162	51,128	53,173	55,300	57,401
49		WESTERN TIGRAY- ZONE	KAFTA HUMERA	Adebaye	12,420	12,942	13,486	14,052	14,614	15,199	15,807	16,439	17,097	17,747
50				Biher	8,607	8,968	9,345	9,737	10,126	10,531	10,952	11,390	11,846	12,296
51				May Cadera	15,543	16,196	16,876	17,585	18,288	19,020	19,781	20,572	21,395	22,208
52			WELKAYI T	Mezega	6,719	7,001	7,295	7,601	7,905	8,221	8,550	8,892	9,248	9,599
53				Adi Remets	6,294	6,558	6,833	7,120	7,405	7,701	8,009	8,329	8,662	8,991
54			TSEGEDE	Ketema Nigus	2,384	2,484	2,588	2,697	2,805	2,917	3,034	3,155	3,281	3,406
55				Danisha	8,718	9,084	9,466	9,864	10,259	10,669	11,096	11,540	12,002	12,458
56			HUMERA	Humera	26,191	27,291	28,437	29,631	30,816	32,049	33,331	34,664	36,051	37,421
57		MEKELE TOWN SPECIAL	DEBUB MEKELE	Debub Mekele	111,408	116,087	120,963	126,043	131,085	136,328	141,781	147,452	153,350	159,177
58			SEMEN MEKELE	Semen Mekele	149,760	156,050	162,604	169,433	176,210	183,258	190,588	198,212	206,140	213,973
	Total				1,020,947	1,063,827	1,108,508	1,155,065	1,201,266	1,249,316	1,299,289	1,351,260	1,405,312	1,458,714

Annex 2: No of towns by region with corresponding population Categories

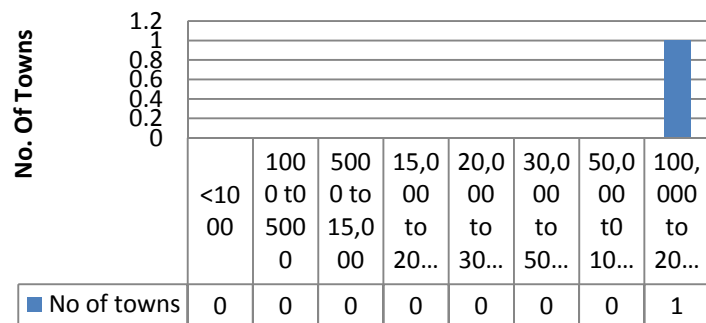
No of towns By Category-Afar



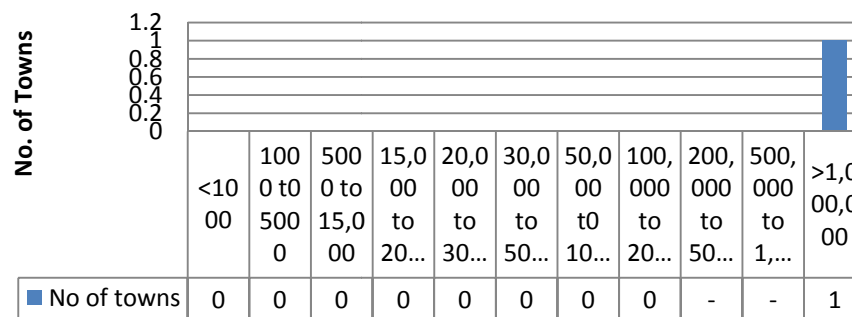
No of towns By Category =Gambella



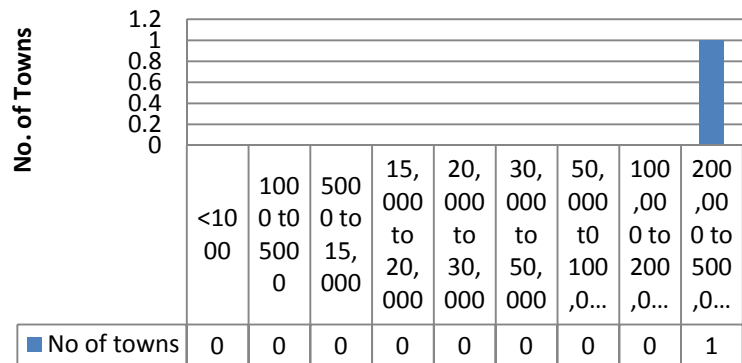
No of towns By Category-  
Harari



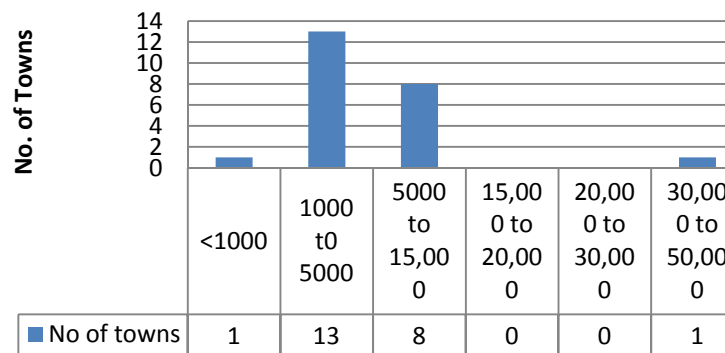
No of towns By Category - Addis  
Ababa



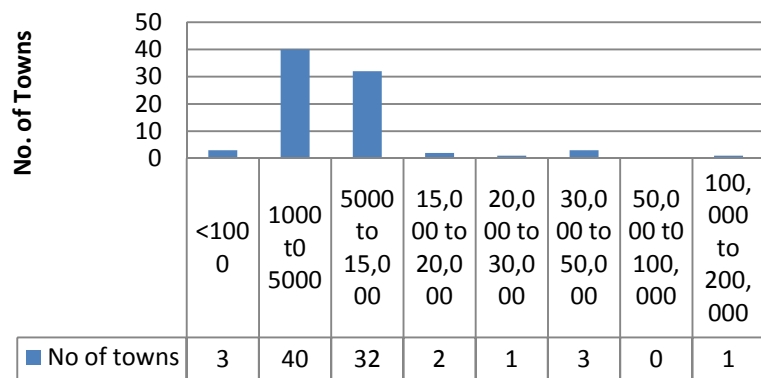
### No of towns By Category - Dire Dawa



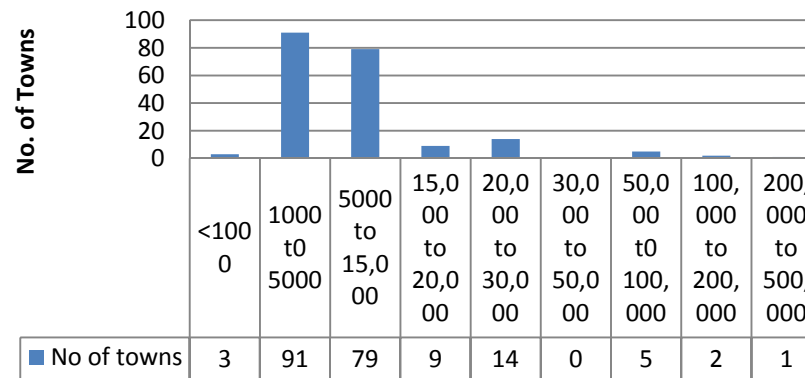
### No of towns By Category - Benishangul



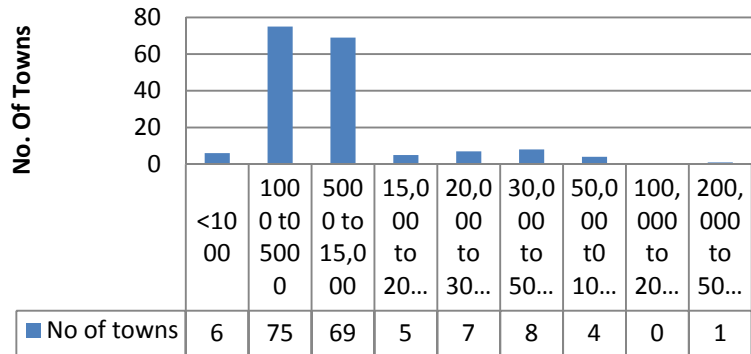
### No of towns By Category - Somali



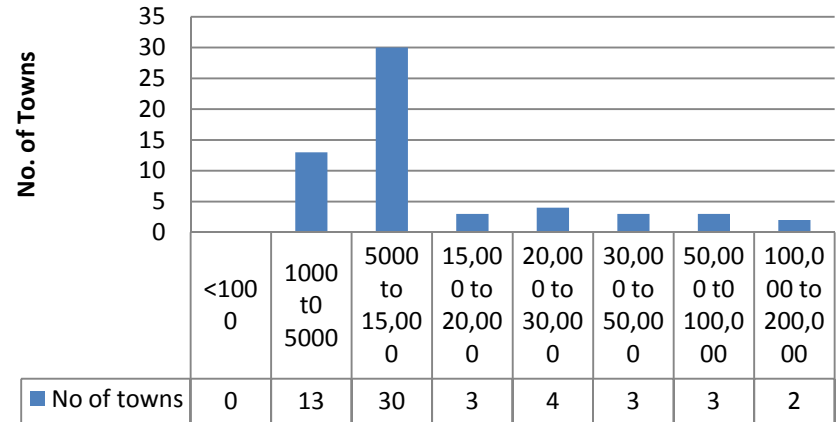
### No of towns of By Category - Amhara



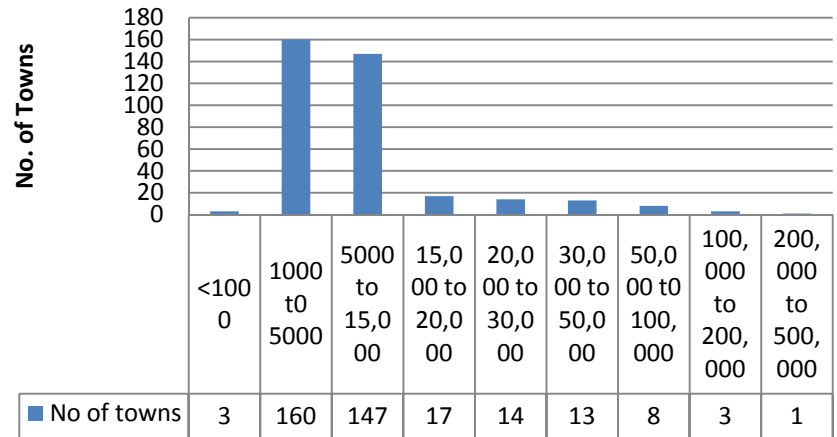
### No of towns By Category - SNNPR



### No of towns By Category - Tigray



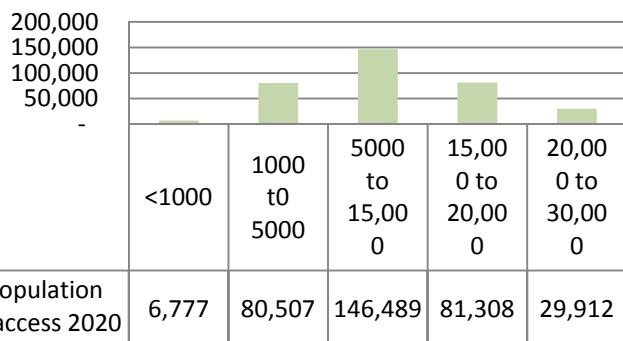
### No of towns By Category - Oromya



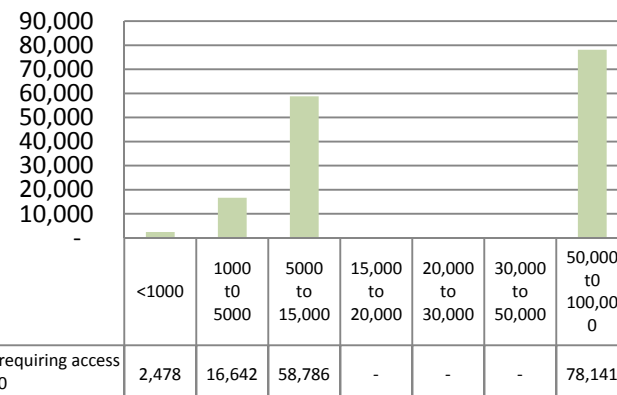


Annex 3: 2020 Design population of towns by Region and Population Category

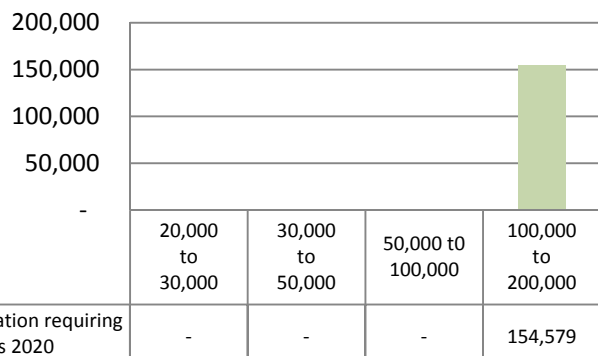
**Design Population Requiring Access 2020-Afar**



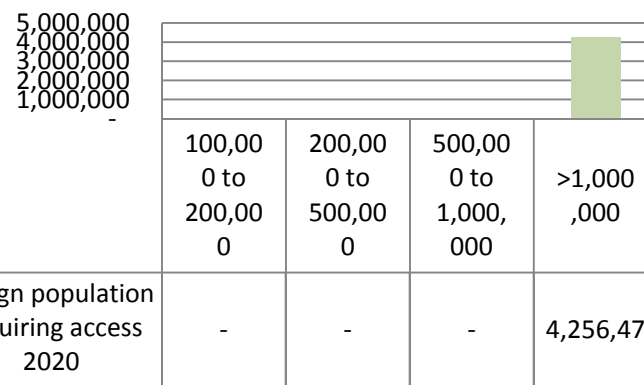
**Design Population Requiring Access 2020 -Gambella**



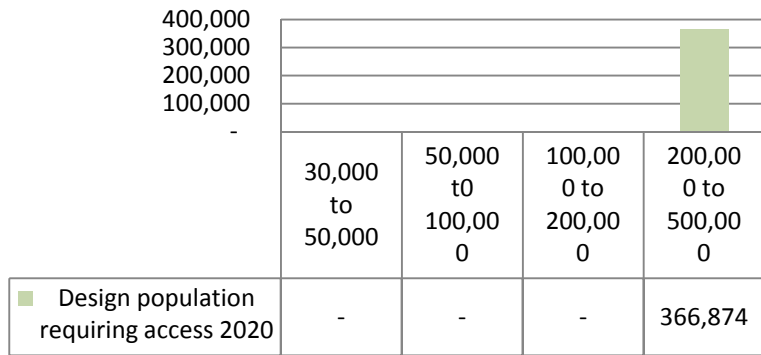
**Design Population Requiring Access 2020 -Harari**



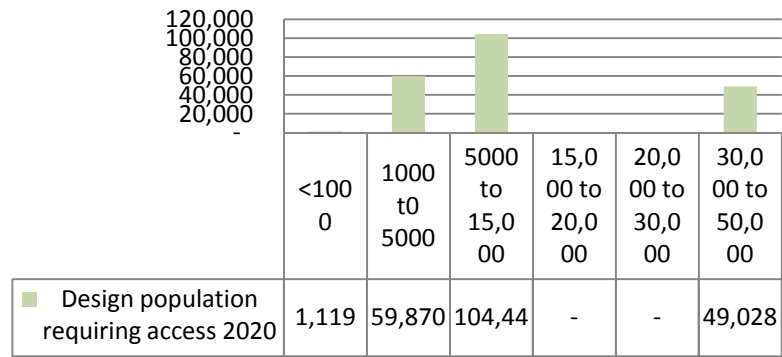
**Design Population Requiring Access 2020-Addis Ababa**



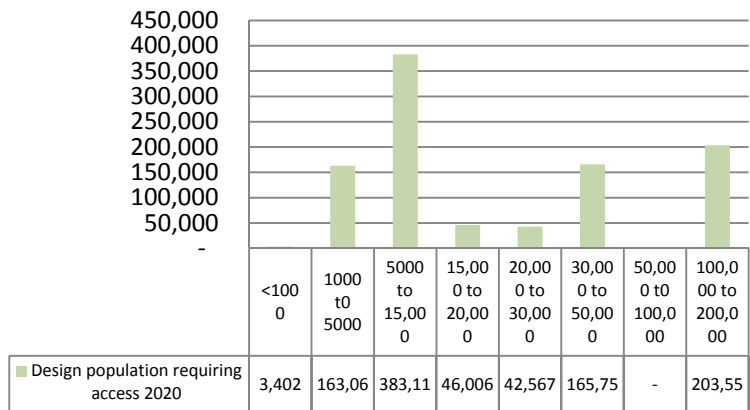
### Design Population Requiring Access 2020 - Dire Dawa



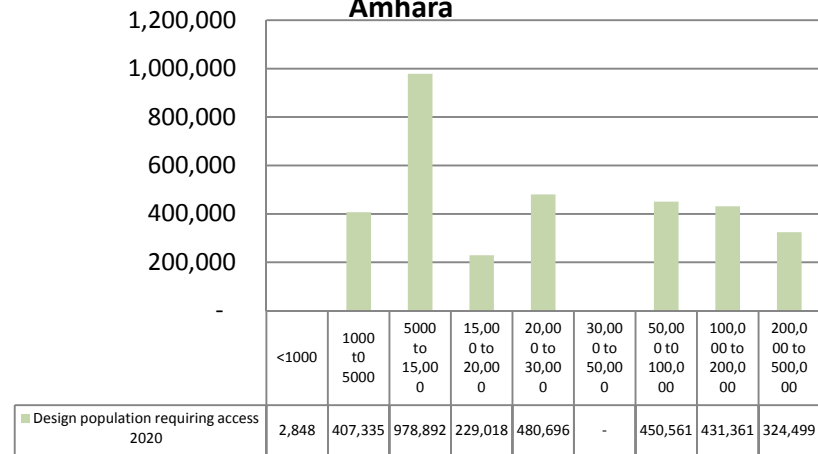
### Design Population Requiring Access 2020 - Benishangul



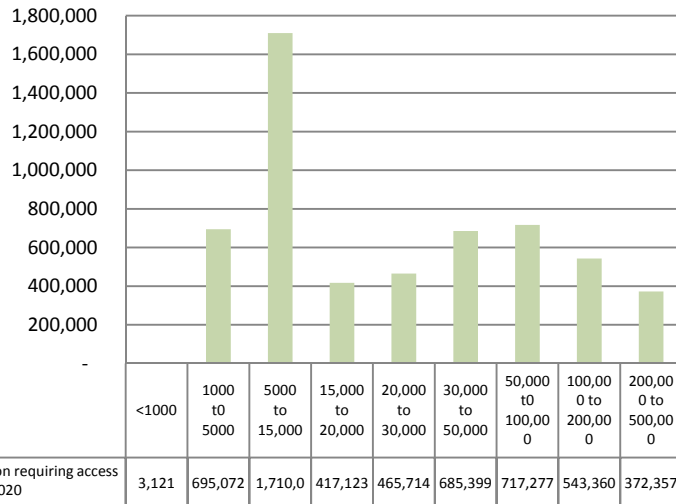
### Design Population Requiring Access 2020 - Somali



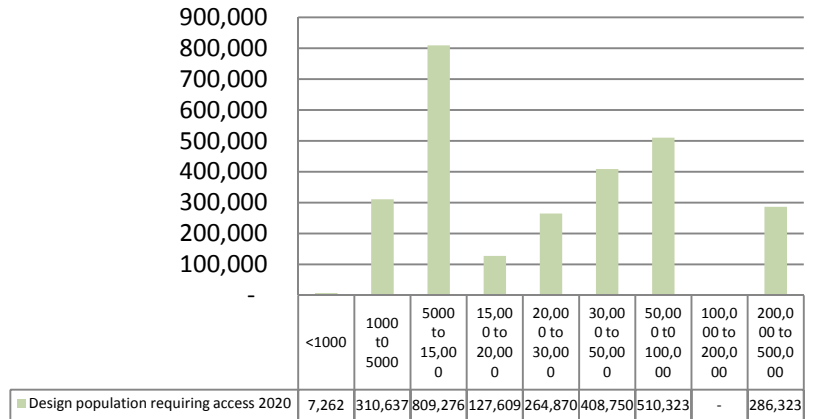
### Design Population Requiring Access 2020 - Amhara



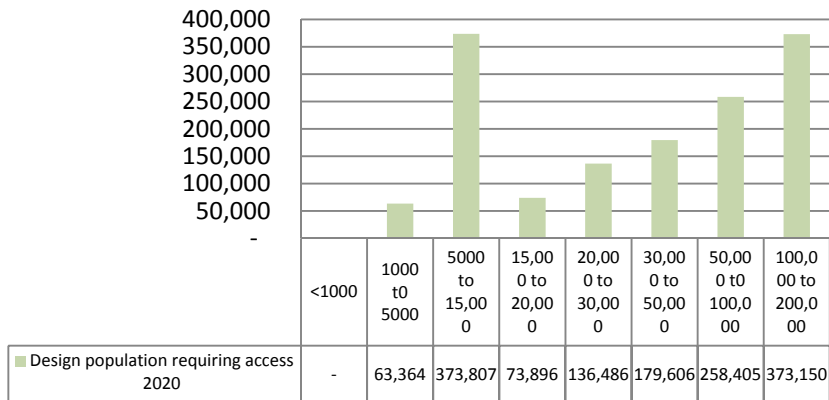
**Design Population Requiring Access 2020 -Oromya**



**Design Population Requiring Access 2020-SNNPR**



**Design Population Requiring Access 2020 - Tigray**



**Annex 4: Human Power Requirement**

Table 1

		General Manager	Technical Manager	Financial Manager	Administrati ve Manager	legal expert	auditor	Customer Relation Officer	sociologist/communi ty worker	Personn el Officer	Trainin g officer
Population Range	No of towns										
<1000	25	25.00	-	25.00	25.00	3.00	3.00	3.00	3.00	1.00	1.00
1000 to 5000	420	420.00	-	420.00	420.00	53.00	53.00	53.00	53.00	7.00	7.00
5000 to 15,000	382	382.00	-	382.00	382.00	48.00	48.00	48.00	48.00	12.00	12.00
15,000 to 20,000	39	39.00	-	39.00	39.00	5.00	5.00	5.00	5.00	2.00	2.00
20,000 to 30,000	41	41.00	-	41.00	41.00	5.00	5.00	5.00	5.00	5.00	5.00
30,000 to 50,000	28	28.00	-	28.00	28.00	7.00	7.00	7.00	7.00	7.00	7.00
50,000 to 100,000	21	21.00	21.00	21.00	21.00	11.00	11.00	11.00	11.00	11.00	11.00
100,000 to 200,000	9	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
200,000 to 500,000	4	4.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00
500,000 to 1,000,000	0	-	-	-	-	-	-	-	-	-	-
>1,000,000	1	1.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
Total	970	970	48	983	983	159	159	159	159	72	72

Table 2

Population Range	No of towns	Organ & Management Expert	software/hardware engineer	General accountant	Customer accountant	cashier	water seller	bill collector	meter reader	storekeeper/clerk	Procurement Officer
<1000	25	1.00	1.00	1.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00
1000 to 5000	420	7.00	7.00	13.00	420.00	420.00	420.00	420.00	420.00	420.00	420.00
5000 to 15,000	382	12.00	12.00	24.00	764.00	764.00	764.00	764.00	764.00	764.00	764.00
15,000 to 20,000	39	2.00	2.00	5.00	78.00	78.00	78.00	78.00	78.00	78.00	78.00
20,000 to 30,000	41	5.00	5.00	10.00	123.00	123.00	123.00	123.00	123.00	123.00	123.00
30,000 to 50,000	28	7.00	7.00	14.00	14.00	112.00	112.00	112.00	112.00	112.00	112.00
50,000 to 100,000	21	11.00	11.00	21.00	21.00	84.00	84.00	84.00	84.00	84.00	84.00
100,000 to 200,000	9	9.00	9.00	18.00	18.00	45.00	45.00	45.00	45.00	45.00	45.00
200,000 to 500,000	4	8.00	8.00	16.00	16.00	24.00	80.00	80.00	80.00	24.00	16.00
500,000 to 1,000,000	0	-	-	-	-	-	-	-	-	-	-
>1,000,000	1	10.00	10.00	20.00	20.00	30.00	100.00	100.00	100.00	30.00	20.00
Total	970	72	72	142	1,499	1,705	1,831	1,831	1,831	1,705	1,687

Table 3

		Clerk/Office Assistant	Messenger/Office cleaner	guard/gardener	laborer	Driver	economist	plan&design engineer	construction engineer	water resource expert	Draftsman-Surveyor
Population Range	No of towns										
<1000	25	25.00	25.00	50.00	50.00	25.00	1.00	1.00	1.00	1.00	1.00
1000 to 5000	420	420.00	420.00	840.00	840.00	420.00	7.00	13.00	13.00	13.00	13.00
5000 to 15,000	382	382.00	382.00	764.00	1,146.00	382.00	12.00	24.00	24.00	24.00	24.00
15,000 to 20,000	39	39.00	39.00	78.00	117.00	39.00	2.00	5.00	5.00	5.00	5.00
20,000 to 30,000	41	41.00	41.00	82.00	164.00	82.00	5.00	10.00	10.00	10.00	10.00
30,000 to 50,000	28	56.00	56.00	112.00	224.00	84.00	7.00	14.00	14.00	14.00	14.00
50,000 to 100,000	21	63.00	63.00	126.00	252.00	105.00	11.00	21.00	21.00	21.00	21.00
100,000 to 200,000	9	36.00	36.00	72.00	144.00	90.00	9.00	18.00	18.00	18.00	18.00
200,000 to 500,000	4	20.00	20.00	40.00	80.00	80.00	8.00	16.00	16.00	16.00	16.00
500,000 to 1,000,000	0	-	-	-	-	-	-	-	-	-	-
>1,000,000	1	20.00	50.00	100.00	100.00	100.00	10.00	20.00	20.00	20.00	20.00
Total	970	1,102	1,132	2,264	3,117	1,407	72	142	142	142	142

Table 4

		laborer	skilled staff	professional staff	pump operator	treatment operator	plumber/pipefitter	meter repair technician	Mechanic	Electrician	Welder	laboratory worker
Population Range	No of towns											
<1000	25	200.00	1.00	1.00	25.00	1.00	50.00	25.00	25.00	25.00	25.00	3.00
1000 to 5000	420	3,360.00	33.00	33.00	420.00	1.00	840.00	420.00	420.00	420.00	420.00	53.00
5000 to 15,000	382	4,584.00	60.00	60.00	764.00	1.00	1,146.00	764.00	764.00	764.00	764.00	48.00
15,000 to 20,000	39	468.00	12.00	12.00	78.00	1.00	117.00	78.00	78.00	78.00	78.00	5.00
20,000 to 30,000	41	656.00	26.00	26.00	123.00	10.00	164.00	123.00	123.00	123.00	82.00	10.00
30,000 to 50,000	28	896.00	35.00	35.00	84.00	14.00	112.00	84.00	84.00	84.00	84.00	14.00
50,000 to 100,000	21	1,008.00	53.00	53.00	84.00	21.00	105.00	84.00	84.00	84.00	63.00	21.00
100,000 to 200,000	9	576.00	45.00	45.00	45.00	18.00	54.00	36.00	36.00	36.00	27.00	18.00
200,000 to 500,000	4	320.00	40.00	40.00	40.00	16.00	40.00	20.00	20.00	20.00	16.00	16.00
500,000 to 1,000,000	0	-	-	-	-	-	-	-	-	-	-	-
>1,000,000	1	400.00	50.00	50.00	50.00	20.00	50.00	20.00	20.00	20.00	20.00	20.00
Total	970	12,468	355	355	1,713	103	2,678	1,654	1,654	1,654	1,579	208