

**68%** access to safe water  
68% rural, 68% urban

**84%** rural functionality  
85% urban functionality

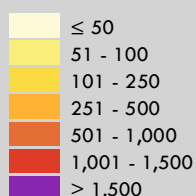
**85%**  
gender

**88%**  
mgt

**118**  
equity

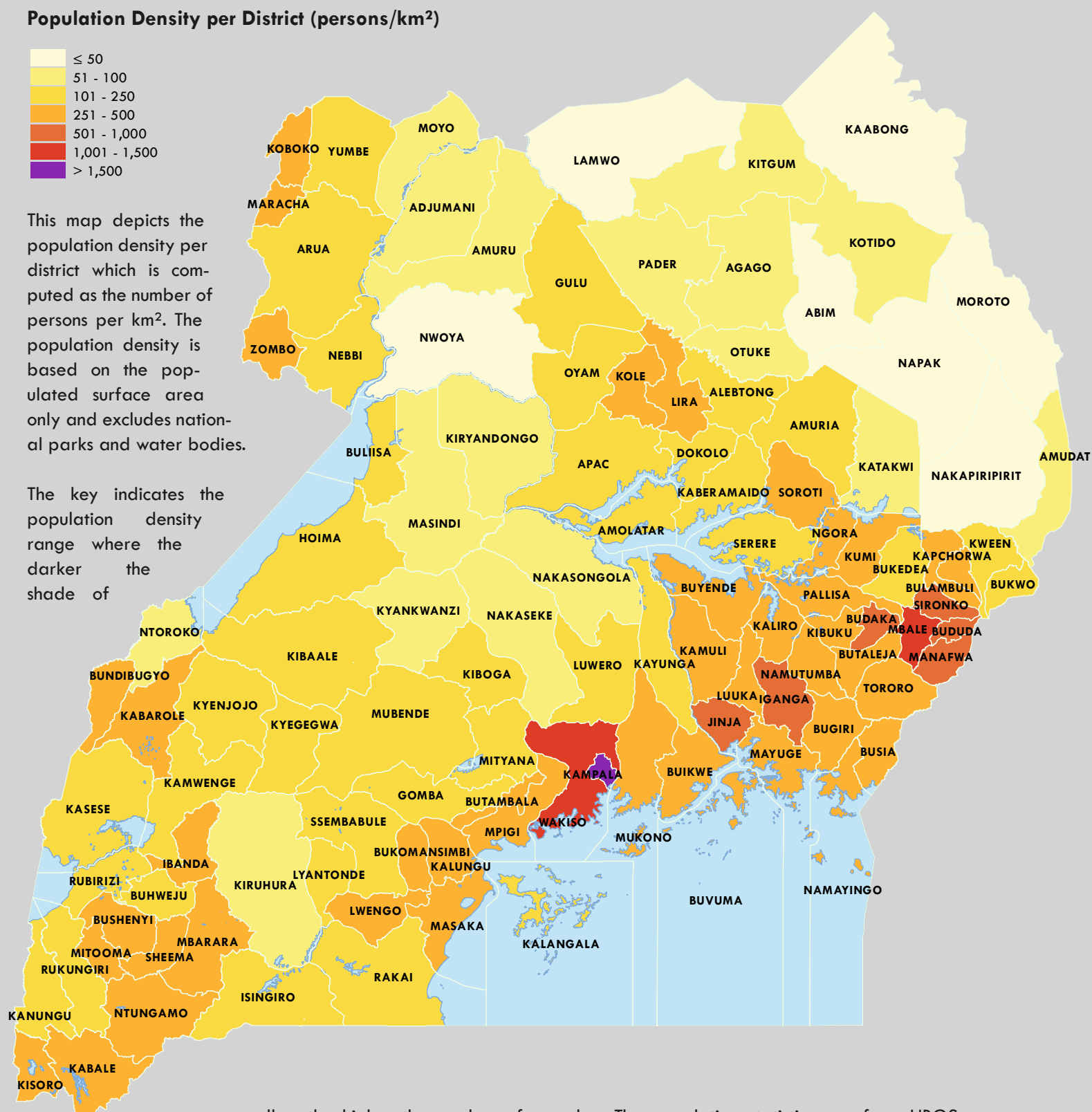
# UGANDA NATIONAL REPORT

**Population Density per District (persons/km<sup>2</sup>)**



This map depicts the population density per district which is computed as the number of persons per km<sup>2</sup>. The population density is based on the populated surface area only and excludes national parks and water bodies.

The key indicates the population density range where the darker the shade of



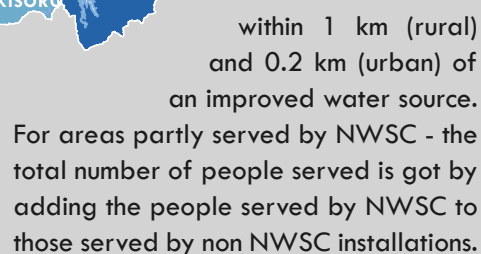
yellow the higher the number of people per km<sup>2</sup>. Uganda is a landlocked country covering an area of 241,551 km<sup>2</sup> of which the land area covers 200,523 km<sup>2</sup> leaving 41,028 km<sup>2</sup> covered by water, permanent and seasonal swamps. The National population density is 188 persons per km<sup>2</sup>.

The population statistics are from UBOS Census 2014 and have been projected to April 2017 based on the district population growth rates published in the Census 2014. It is assumed that the district growth rates are the same for the subcounties within the district.



$\leq 40\%$   
 41 - 60 %  
 61 - 80 %  
  $> 80\%$

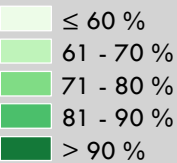
Access to safe water  
is the percentage  
of people

A group of approximately 15 children are gathered around a concrete tap stand. Several yellow plastic jerrycans are lined up on the stand. The children are smiling and waving at the camera. They are dressed in casual clothing like t-shirts and shorts. The background shows a simple building with a corrugated metal door and a window with a metal grille.

**Children at a tap stand at Kumi Hospital, Ongino Sub-County, Kumi District**

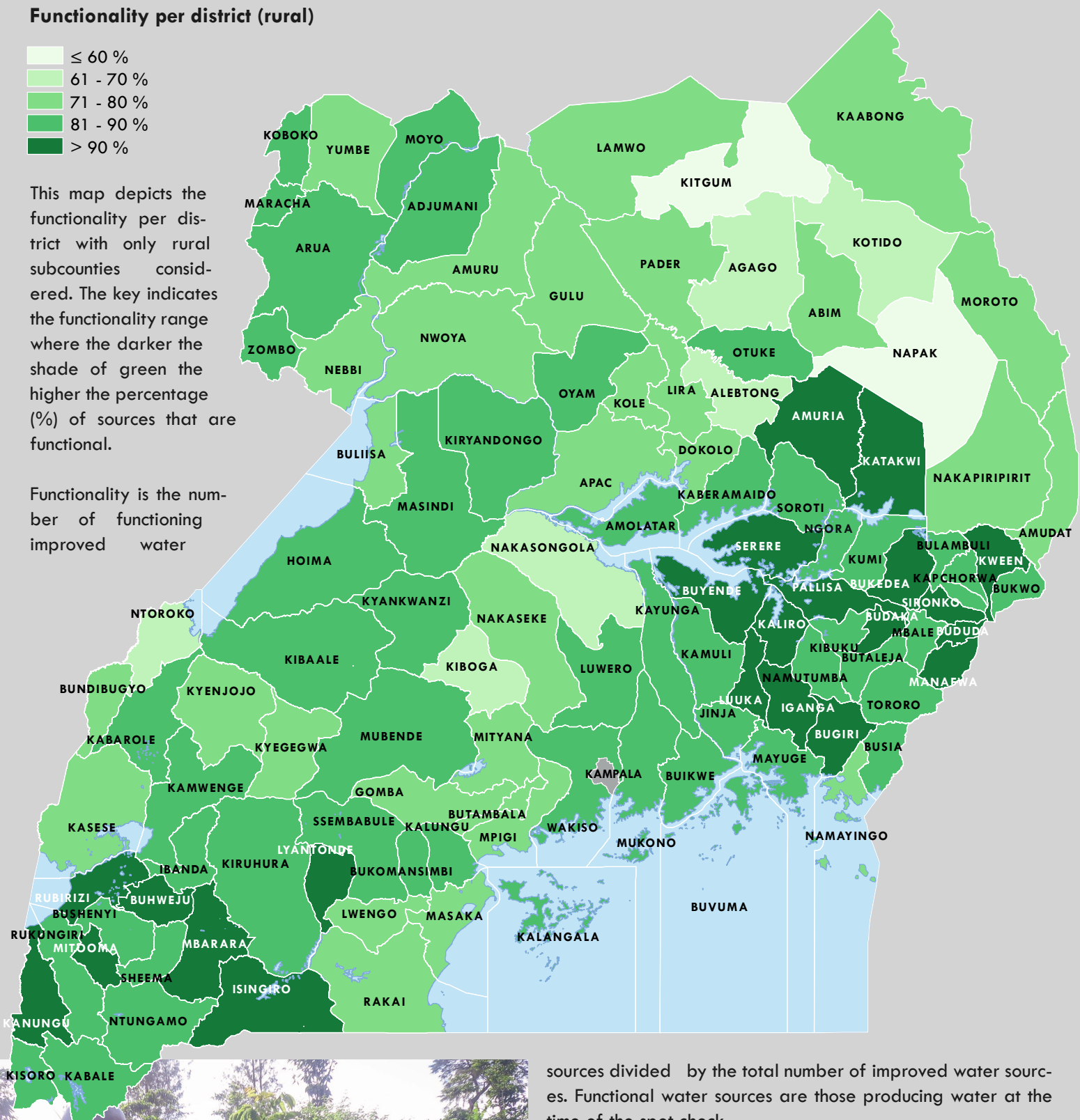


Functionality per district (rural)



This map depicts the functionality per district with only rural subcounties considered. The key indicates the functionality range where the darker the shade of green the higher the percentage (%) of sources that are functional.

Functionality is the number of functioning improved water



Ministry officials in a verification exercise in Ibanda District

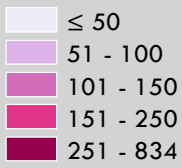
sources divided by the total number of improved water sources. Functional water sources are those producing water at the time of the spot check. National Rural Functionality stands at 84%.



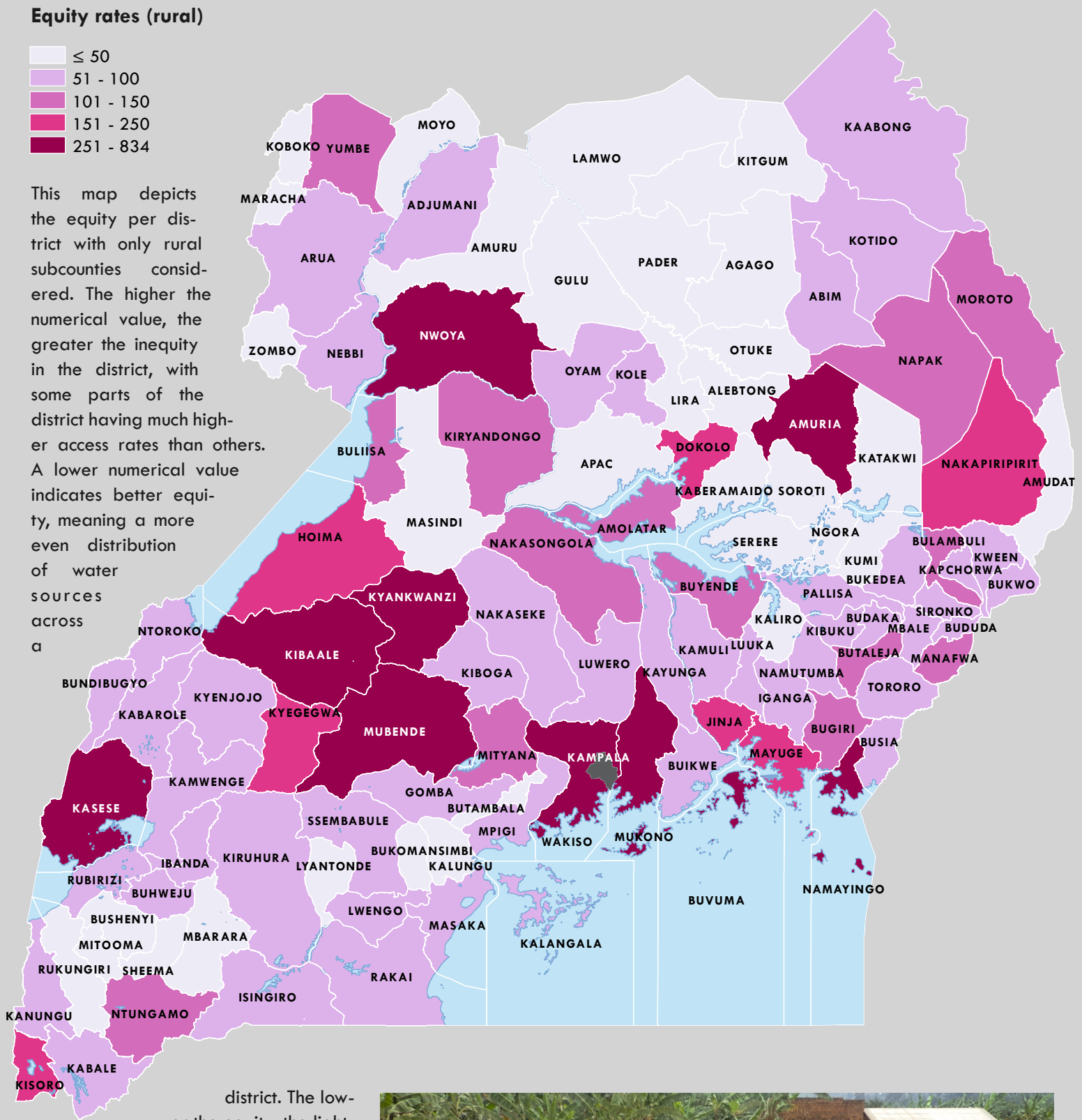
Deep borehole in Kalungulu village, Kaliro District



### Equity rates (rural)



This map depicts the equity per district with only rural subcounties considered. The higher the numerical value, the greater the inequity in the district, with some parts of the district having much higher access rates than others. A lower numerical value indicates better equity, meaning a more even distribution of water sources across a



district. The lower the equity, the lighter the orange colour on the map.

National equity stands at 118 people per source. The best district equity is 10 in Bukomansimbi and the worst is 845 in Buvuma District.

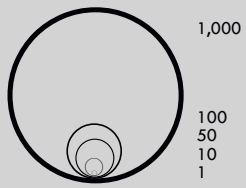
District Rural equity is measured as the mean rural sub-county deviation from the district average number of persons per improved water point.



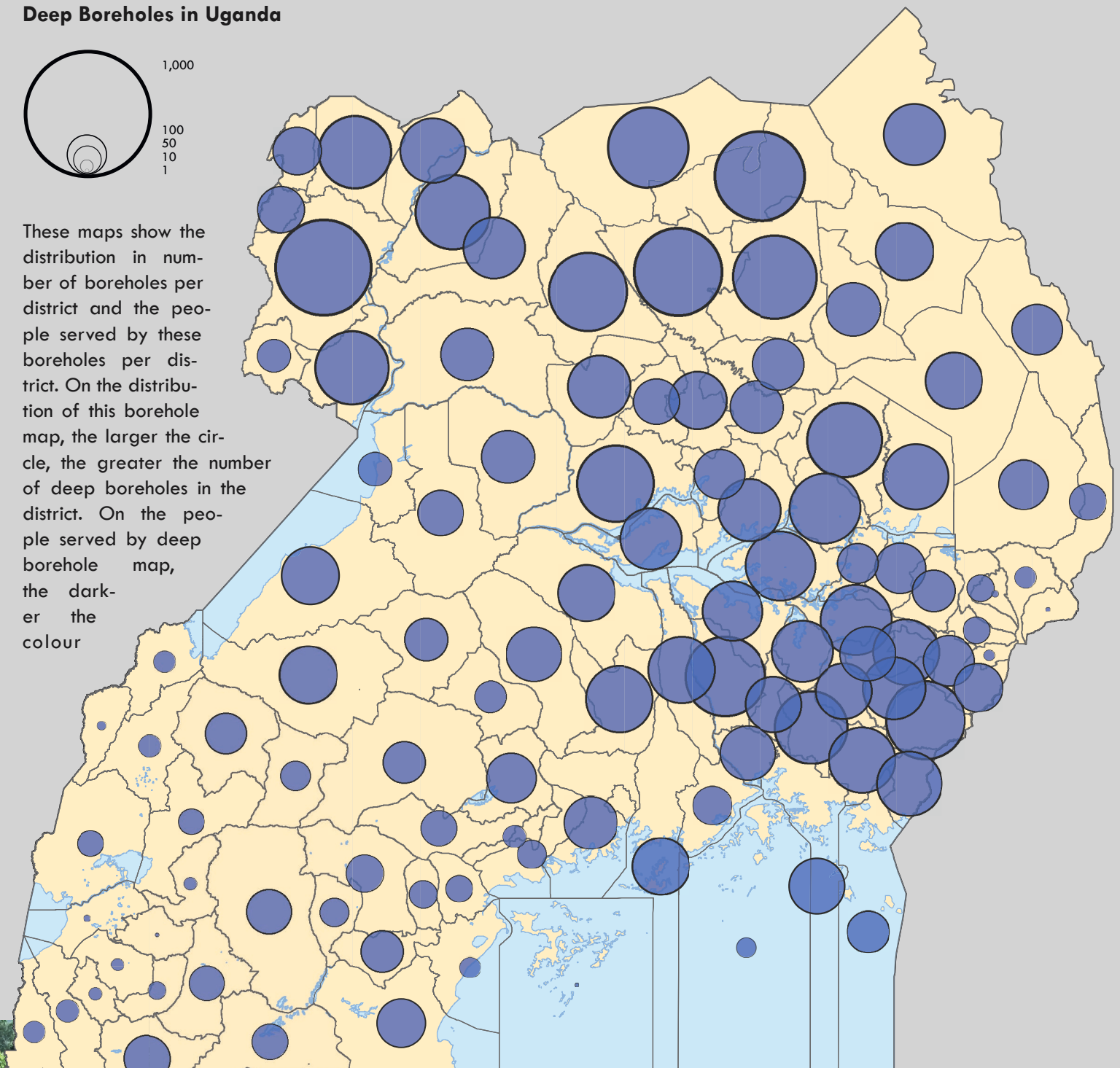
**Residents que up to collect water at a public tap in Isingiro District.**



## Deep Boreholes in Uganda



These maps show the distribution in number of boreholes per district and the people served by these boreholes per district. On the distribution of this borehole map, the larger the circle, the greater the number of deep boreholes in the district. On the people served by deep borehole map, the darker the colour



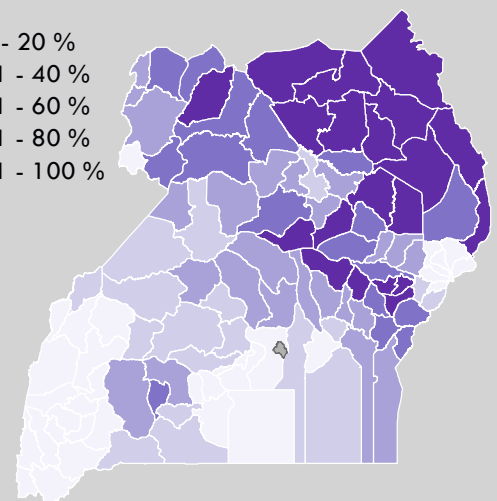
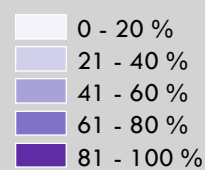
Deep borehole in Mityana District

shade the more the number of people served by deep boreholes in the district.

Deep boreholes are small diameter wells that are deeper than 30 metres with an installed handpump for water lifting.

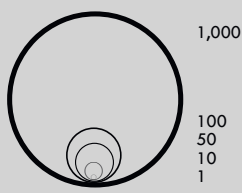
In terms of numbers, deep boreholes are the most numerous water source technology in Uganda, making up approximately 30% of the total water source technologies in Uganda. The Deep boreholes is the predominant water supply technology used in Uganda. Approximately 42% of the population with access to safe water supplies are served by deep boreholes.

## People Served by Deep Boreholes

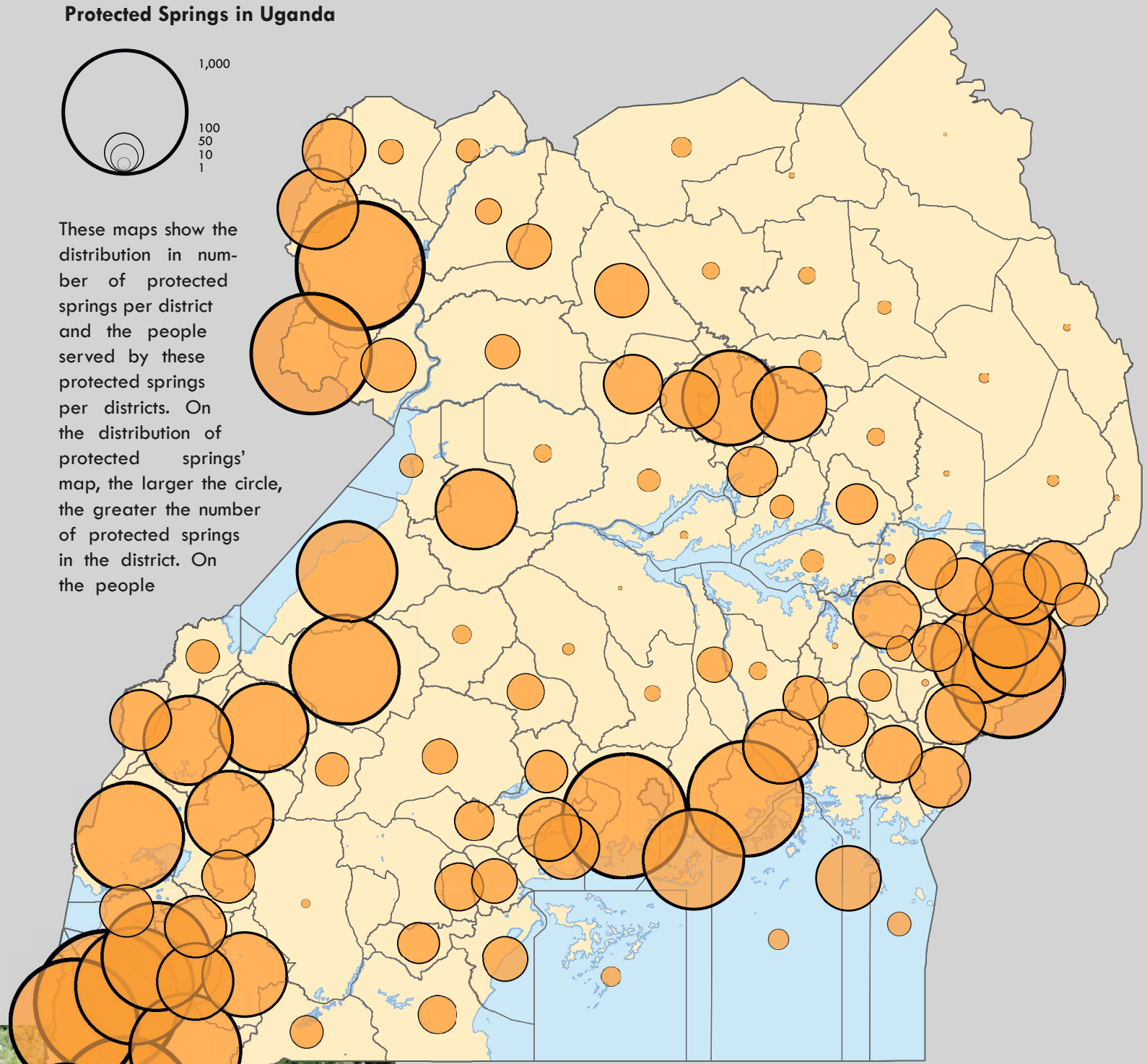




Protected Springs in Uganda



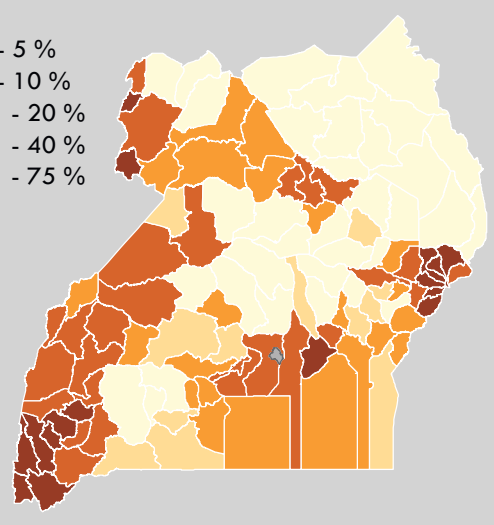
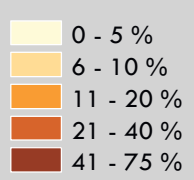
These maps show the distribution in number of protected springs per district and the people served by these protected springs per districts. On the distribution of protected springs' map, the larger the circle, the greater the number of protected springs in the district. On the people



Protected spring in Ibanda District

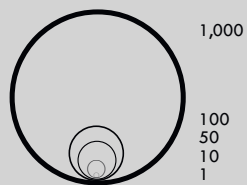
served by protected springs map, the darker the colour shade, the more the number of people served by protected springs in the district. Protected springs are water points where groundwater is brought to the surface and has a well-fortified protective wall constructed around it. In terms of numbers, protected springs make up approximately 23% of the total water source technologies in Uganda. Approximately 22% of the population with access to safe water supplies get their water from protected springs.

People Served by Protected Springs

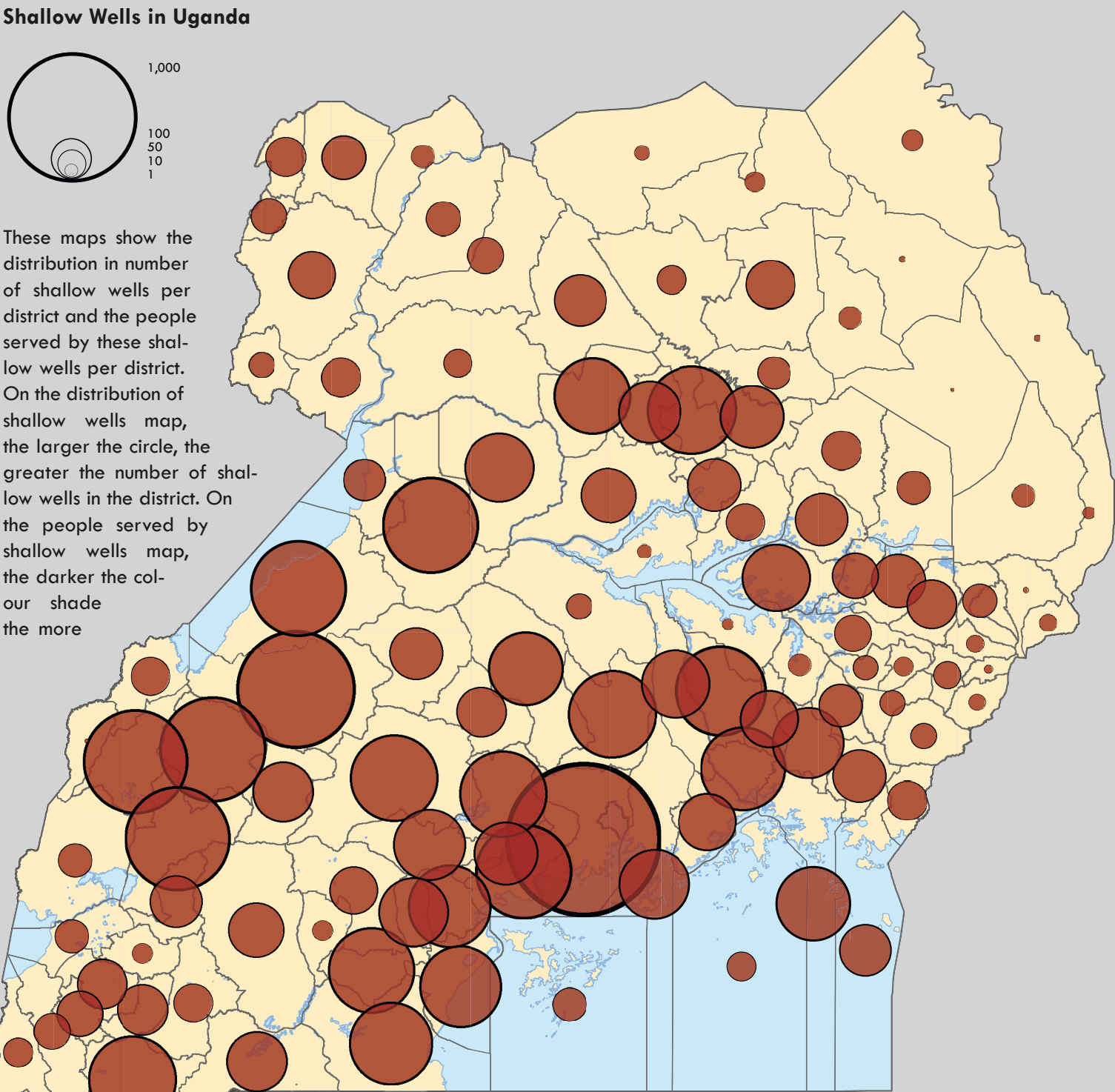




Shallow Wells in Uganda



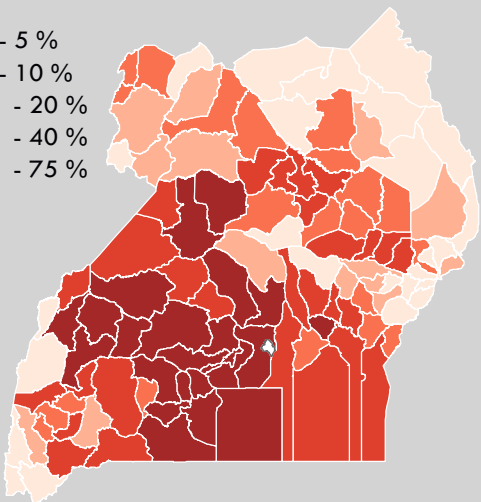
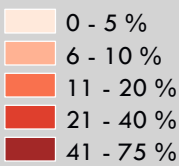
These maps show the distribution in number of shallow wells per district and the people served by these shallow wells per district. On the distribution of shallow wells map, the larger the circle, the greater the number of shallow wells in the district. On the people served by shallow wells map, the darker the colour shade the more



Shallow well in Kiruhura District

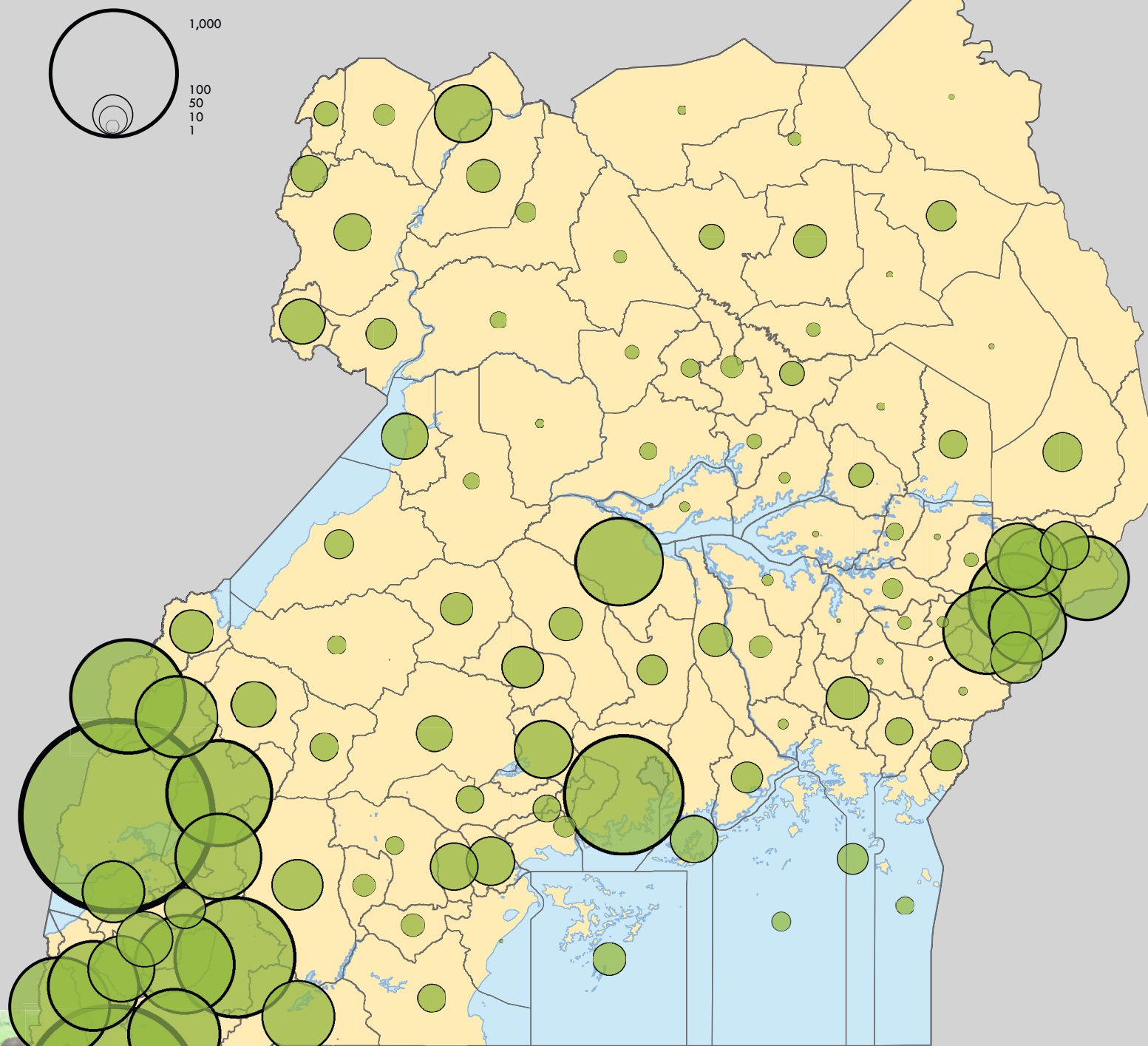
the number of people served by shallow wells in the district. Shallow wells are small diameter wells that are less than 31 metres with an installed hand-pump for water lifting . In terms of numbers, shallow wells make up approximately 17% of the total water source technologies in Uganda. The Shallow well is the second most predominant water supply technology used in Uganda; serving approximately 24% of the population with access to safe water supplies.

People Served by Shallow Wells





## Public Tap Stands in Uganda

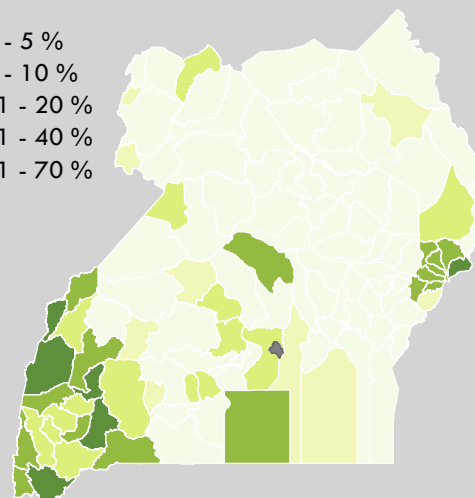


Public Stand Post tap in Mitooma District

These maps show the distribution in number of public tap stands per district and the people served by these public tap stands per districts. On the distribution of public tap stands map, the larger the circle, the greater the number of public tap stands in the district. On the people served by public tap stands map, the darker the colour shade the more the number of people served by public tap stands in the district. Approximately 10% of the population with access to safe water supplies get their water from tap stands.

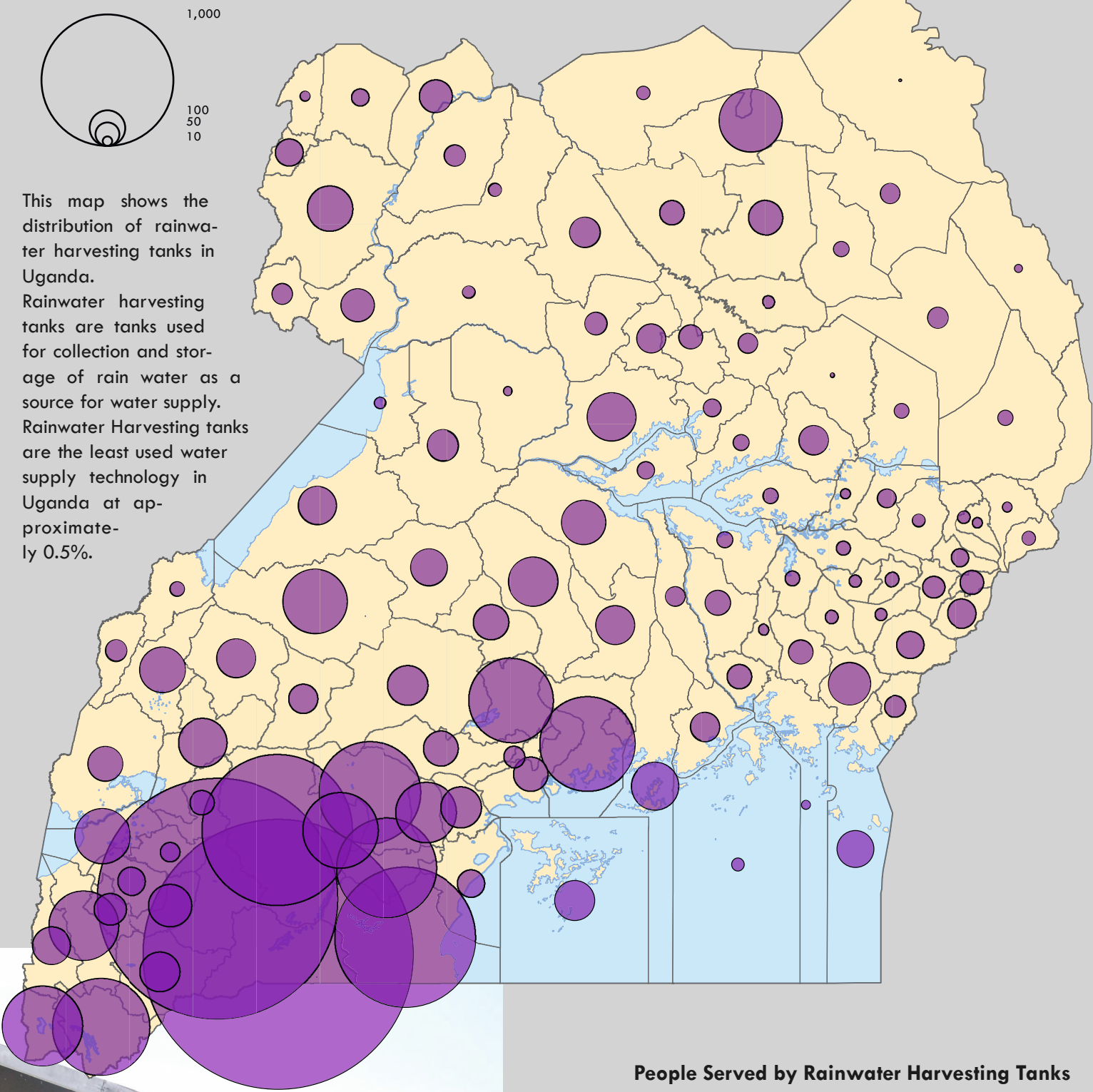
### People Served by Public Tap Stands

- 0 - 5 %
- 6 - 10 %
- 11 - 20 %
- 21 - 40 %
- 41 - 70 %

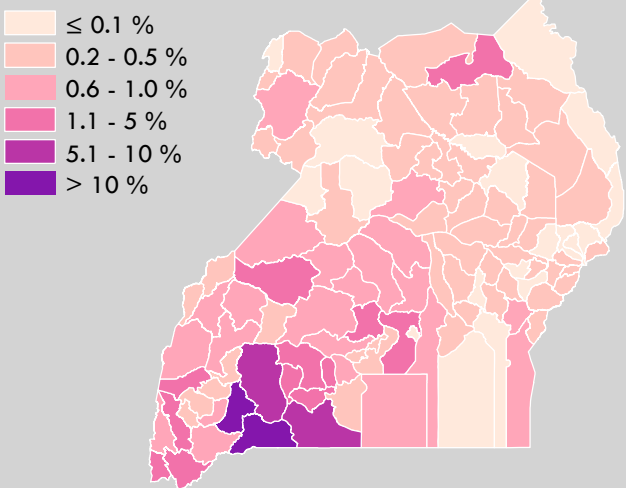




Rainwater Harvesting Tanks in Uganda

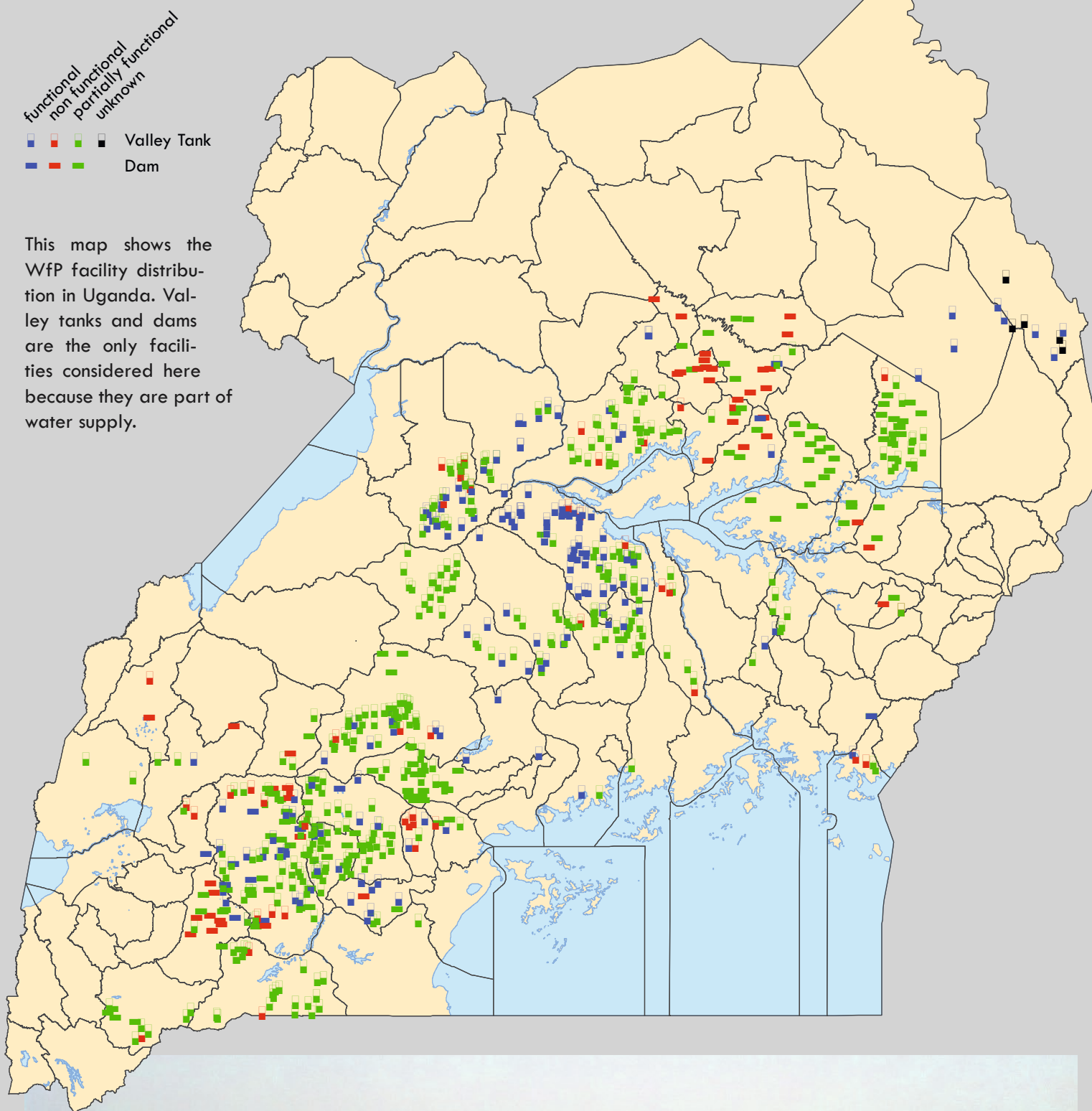


People Served by Rainwater Harvesting Tanks





## Water for Production facilities in Uganda



Ongole Dam in Katakwi District



Water for Production (WfP) refers to development and utilisation of water resources for productive use in crop irrigation, livestock, aquaculture, rural industries and other commercial uses. This atlas however focuses on the water supply side rather than the demand side. This comprises only valley tanks and earth dams.

Functionality was assessed for all facilities constructed between 2000 - 2016 in all 112 districts, now covered in the WfP database, where data sets have been fully analyzed. For 2016 functionality rate for WfP facilities was 84.4% (including the newly constructed facilities in FY2015/2016), up from 74.9% in FY2014/15. The data was based on a total of 1,043 valley tanks and 33 dams. However valley tanks and dams are not considered to have safe water for human consumption.

The key indicator in WfP is Functionality. Functionality of water for production facilities is defined as “the percentage of facilities with fully functioning abstraction systems that are not silted, with active water user management committees and active bylaws”.

This table shows the Functionality of WfP facilities as at 30 June, 2016

Functionality Level	Description	Total
Fully Functional	100% functional i.e. without any damage	84.4%
Partially Functional	Operational but with reduced functionality due to sanitation, pump breakdown or other problems	14.7%
Non-Functional	Not operational at all	0.9%

The table below shows the Functionality status per facility type as at 30 June, 2016.

Functionality Status	Valley Tanks		Dam		Total	
	No.	%	No.	%	No.	%
Fully Functional	886	84.9	22	66.7	908	84.4
Partially Functional	149	14.3	9	27.3	158	14.7
Non-Functional	8	0.8	2	6	10	0.9
Total	1,043	100	33	100	1,076	100

Note: The roles for construction and use of WfP facilities in Uganda are shared between the Ministry of Water and Environment (MWE), Ministry of Agriculture, Animal Industry and Fisheries (MAAIF), Ministry of Energy and Mineral Development (MoEMD), Ministry of Tourism & Wild Life, and the Ministry of Trade, Industry & Cooperatives (MoTIC).

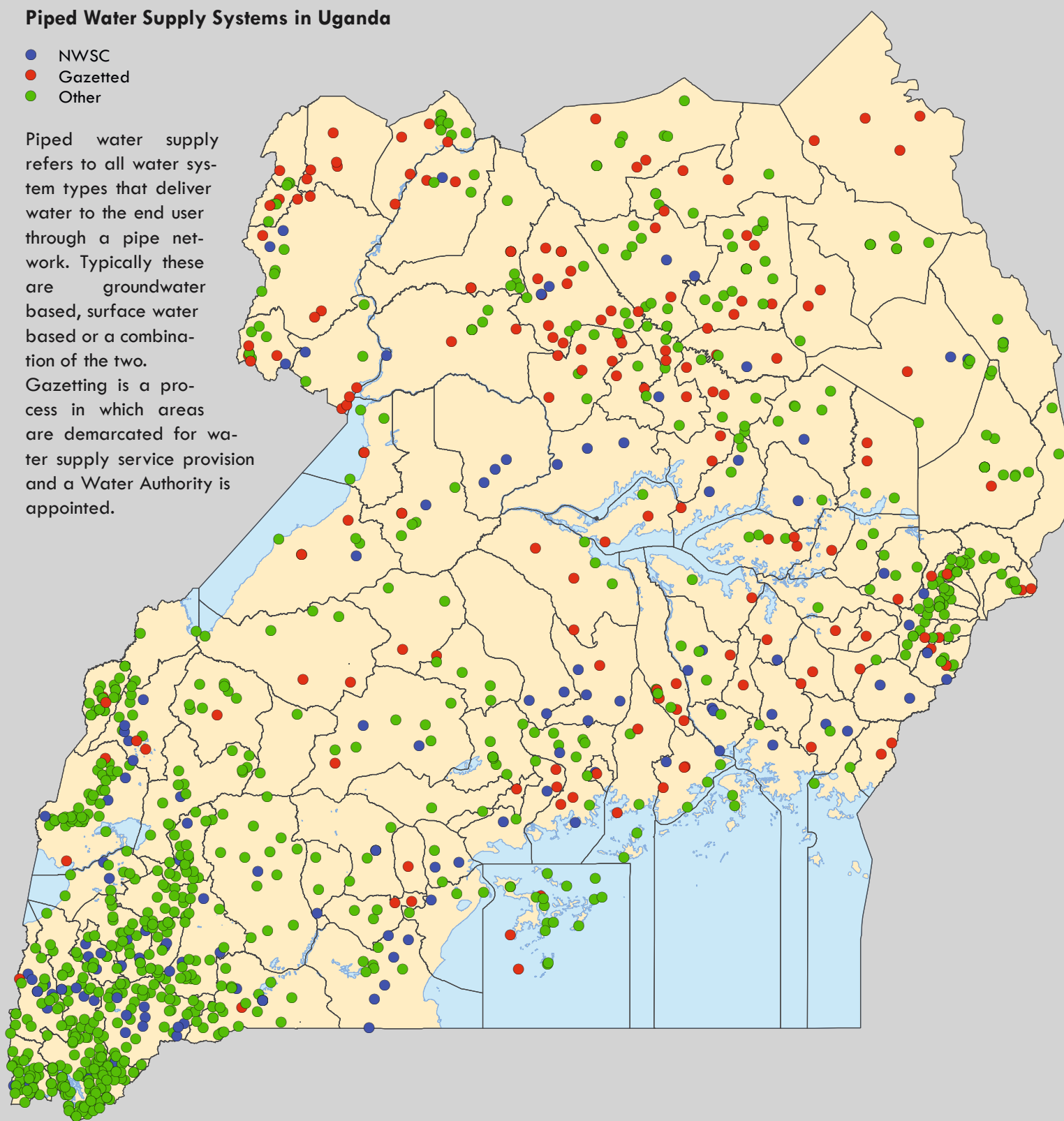




## Piped Water Supply Systems in Uganda

- NWSC
- Gazetted
- Other

Piped water supply refers to all water system types that deliver water to the end user through a pipe network. Typically these are groundwater based, surface water based or a combination of the two. Gazetting is a process in which areas are demarcated for water supply service provision and a Water Authority is appointed.



Type of Scheme / Gravity-Flow Scheme	No. of Schemes	Functionality of System			Type of Management					Water Board in place	
		Functional	Non-Functional	Partially Functional	Private Operator	WSC	Private/Individual	NWSC	Other	Yes	No
Combined Water Based/No GFS	4	2	0	1	1	0	0	2	0	1	0
Groundwater based/GFS	6	5	0	1	0	2	0	2	0	4	0
Groundwater based/Unknown	32	25	6	1	3	26	1	2	0	7	8
Groundwater based/No GFS	240	156	50	25	42	87	5	34	19	97	0
Surface Water Based/Unknown	13	13	0	0	0	11	0	2	0	4	7
Surface Water Based/No GFS	66	40	4	5	6	12	2	32	3	20	0
Surface Water Based/GFS	378	241	19	110	12	157	6	12	5	157	0
Unknown/GFS	55	42	2	10	2	1	0	3	0	1	0
Unknown/No GFS	317	113	21	10	11	6	0	26	0	1	0
<b>Total</b>	<b>1,111</b>	<b>637</b>	<b>102</b>	<b>163</b>	<b>77</b>	<b>302</b>	<b>14</b>	<b>115</b>	<b>27</b>	<b>292</b>	<b>15</b>





## UPMiS Utility Performance Monitoring & Information System

### Web-based Monitoring & Information Management System for Regulation and O&M Support A tool to improve accuracy and reliability of information.

#### The objective

The Ministry of Water and Environment (MWE) has witnessed many challenges with paper based monitoring like cumbersome data collection, slow compilation of data, high error rates and results which are neither visible nor accessible. Currently only 50% of the piped schemes report for at least 9 out of 12 months in a year.

MWE has developed the web-based 'Utility Performance Monitoring and Information Management System' (UPMiS) which aims at utilising state-of-the-art technology which has become widely used in Uganda, namely internet linked

#### How does it benefit stakeholders?

At the Regulation level, by providing more complete and reliable utility performance data to support regulatory functions like contract compliance monitoring, benchmarking and approval of tariffs.

At the Utility support level, by providing operational tools for effective O&M support to the needy utilities and thus improve their functionality and sustainability; and by improving results-oriented performance reporting and visibility.

At the Utility level, by providing own reported performance data for internal

analysis for improving utility operational processes like better business planning, asset management, planned maintenance and water safety planning.

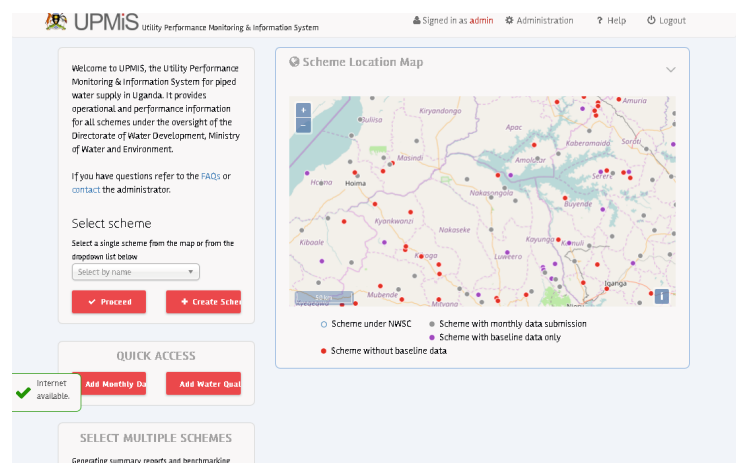
At the Sector level, by demonstrating per-

#### Our move to a web-based system aims at

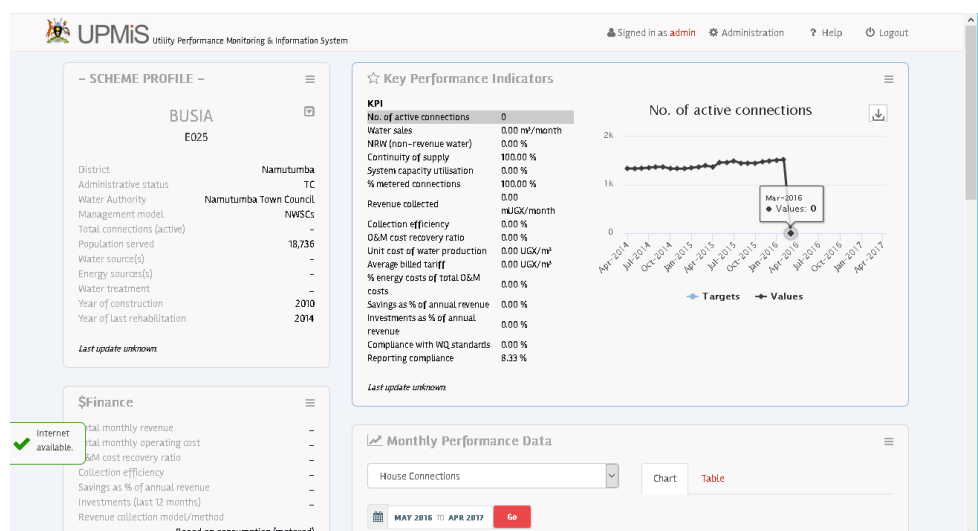
- Time and cost savings compared to paper-based reporting and manual data entry;
- Less delay of reaction/feedback to information, by making data available in real time at any location;
- Better accuracy of data, by reducing input errors, automatic check of incoming data and linking specific data to location (GPS);
- More useful data, by making ready-to-use information available to decision makers;
- Visualizing data on maps and charts;
- Safe web-based storage/backup

formance by good reporting and thus attract the financial resources for the roll-out of regulation, for O&M support and capital maintenance investments.

As a first step UPMiS was developed and tested in a few towns by the Ministry of Water and Environment (MWE) in order to learn and adjust the system to work well and be potentially up-scaled to the entire sector. The scope of UPMiS is on all piped water schemes in Uganda with initial focus on schemes outside of NWSC service areas.



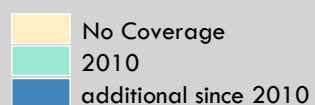
technologies like smart phones and computers. It is a move towards more accurate and reliable data. It links data to its location (GPS coordinates) and simplifies data entry, transfer, analysis and feedback as compared to paper-based monitoring. The purpose of UPMiS is to increase performance monitoring from currently 200 towns to over 1,000 towns and rural growth centers.



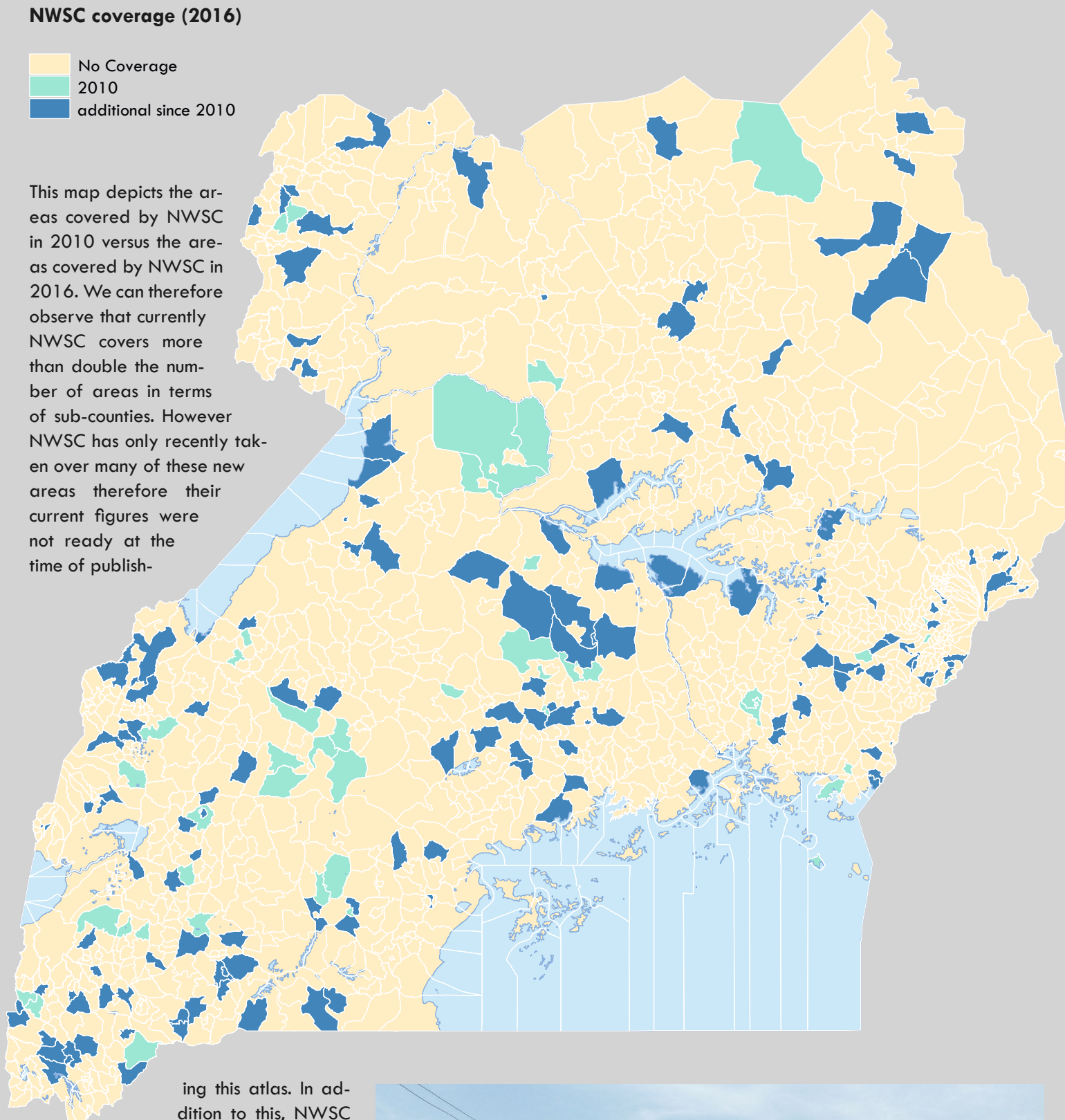
This database can be accessed through the ministry website - [www.mwe.go.ug](http://www.mwe.go.ug)



## NWSC coverage (2016)



This map depicts the areas covered by NWSC in 2010 versus the areas covered by NWSC in 2016. We can therefore observe that currently NWSC covers more than double the number of areas in terms of sub-counties. However NWSC has only recently taken over many of these new areas therefore their current figures were not ready at the time of publish-



ing this atlas. In addition to this, NWSC manages its service areas as “blocks” while the data presented in this atlas is depicted in terms of UBOS administrative areas. Nonetheless efforts have been made to align them to UBOS administrative units.



Water cleansing tank in Gulu District



Water filtering pump house in Gulu District



Districts Water Supply Situation Analysis (as of 7 June 2017)

District	Population	Population Served	Indicators										Point Water Sources										Rainwater harvesting tank										Piped Water Systems																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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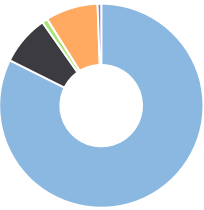
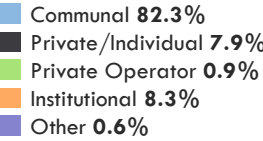


District	Population	Population Served	Indicators										Point Water Sources										Rainwater harvesting tank										Piped Water Systems										
			Access (%)			Functionality (%)			Equity (rural)	Management	Gender	Shallow well			Deep borehole			Protected spring			Functional			Non functional			Total			Functional			Non functional			Total			PSP/Kiosk, Tap Stands			Household Connection	Institutional Connection
			Rural	Urban	Total	Rural	Urban	Wfp				Functional	Non functional	Total	Functional	Non functional	Total	Functional	Non functional	Total	Functional	Non functional	Total	Functional	Non functional	Total	Functional	Non functional	Total	Functional	Non functional	Total											
																																									NWSC Present		
Kyankwanzi	242,734	130,973	54	56	54	84	93	-	88	83	570	88	88	83	22	1	23	137	37	174	213	22	235	84	30	114	66	0	66	359	0	0	No										
Kyegegwa	336,774	120,893	34	56	36	74	62	-	81	90	172	81	81	90	59	14	73	153	62	215	69	45	114	48	23	71	48	0	48	8	0	0	No										
Kyenjojo	470,101	354,111	72	91	75	77	80	88	81	71	97	81	81	71	423	88	511	496	166	662	136	70	206	98	21	119	107	22	129	340	14	16	No										
Lamwo	138,747	131,810	95	95	95	78	83	-	95	93	22	95	93	93	25	0	25	9	5	14	664	176	840	6	15	21	2	2	4	0	0	0	No										
Lira	443,652	415,264	94	92	94	76	0	38	86	86	24	83	86	86	492	90	582	339	134	473	308	114	422	35	23	58	16	14	30	7	0	1	Yes										
Luuka	256,341	192,749	77	46	75	97	94	-	80	78	86	80	78	78	125	4	129	188	7	195	380	8	388	13	1	14	0	0	0	0	0	0	No										
Luwero	489,619	338,421	69	69	69	84	96	96	91	91	91	91	91	72	15	1	16	370	83	453	515	51	566	83	36	119	53	3	56	2,503	145	157	Yes										
Lwengo	283,711	204,439	76	44	72	79	77	-	90	77	53	90	77	77	64	45	109	282	164	446	142	82	224	611	9	620	29	4	33	915	9	29	No										
Lyantonde	102,499	53,133	47	82	52	93	100	100	91	37	32	91	91	97	0	0	0	21	5	26	80	28	108	384	6	390	30	0	30	0	0	0	Yes										
Manafwa	377,193	261,114	68	88	69	95	96	-	88	92	127	88	92	805	11	816	14	2	16	279	25	304	63	10	73	146	16	162	676	16	32	No											
Maracha	196,820	178,710	91	95	91	84	76	-	94	97	28	94	97	372	50	422	65	11	76	225	56	281	45	20	65	61	18	79	251	1	26	No											
Masaka	314,858	221,374	78	57	70	78	100	73	79	57	86	79	57	116	16	132	292	112	404	43	12	55	67	1	0	1	0	1	0	0	0	Yes											
Masindi	316,269	226,565	94	26	72	88	92	92	85	85	30	85	85	397	16	413	490	66	556	207	61	268	68	12	80	18	2	20	0	0	2	Yes											
Mayuge	522,685	275,669	53	54	53	88	78	60	87	77	214	87	77	248	25	273	283	52	335	343	50	393	7	4	11	60	0	60	31	0	3	Yes											
Mbale	538,109	387,402	69	82	72	86	92	-	90	88	85	90	88	546	35	581	38	7	45	270	50	320	31	13	44	363	102	465	0	0	0	Yes											
Mbarara	504,177	332,473	77	51	66	94	94	64	92	95	19	92	95	392	75	467	65	26	91	102	54	156	2,839	27	2,866	810	70	880	0	0	0	Yes											
Mitooma	191,706	175,618	91	95	92	92	95	-	93	80	37	93	80	843	66	909	115	9	124	14	6	20	81	2	83	243	32	275	49	11	10	Yes											
Mityana	348,258	271,910	75	95	78	73	94	100	79	91	114	79	91	97	21	118	269	185	454	247	70	317	414	55	469	198	3	201	2,136	0	84	Yes											
Moroto	111,923	83,348	72	86	74	78	75	92	60	92	145	60	92	2	1	3	2	0	2	251	68	319	3	6	9	0	0	0	55	5	37	No											
Moyo	126,313	119,997	95	95	95	81	71	-	95	92	31	95	92	22	12	34	24	8	32	407	107	514	72	15	87	176	28	204	666	88	38	No											
Mpigi	268,712	214,595	84	61	80	71	79	-	94	86	65	94	86	252	20	272	341	199	540	58	46	104	70	27	97	25	2	27	1,187	0	105	Yes											
Mubende	767,201	229,548	32	0	30	86	0	94	96	67	401	96	67	55	26	81	382	68	450	197	21	218	115	11	126	77	5	82	234	0	0	Yes											
Mukono	648,739	481,819	70	85	74	86	93	-	95	81	269	95	81	594	53	647	236	62	298	342	59	401	151	21	172	114	26	140	252	14	18	Yes											
Nakapiripirit	194,424	114,514	58	95	59	73	67	77	95	96	199	95	96	5	4	9	21	13	34	228	80	308	16	8	24	70	23	93	0	0	0	No											
Nakaseke	214,548	181,493	84	87	85	73	88	100	97	84	88	97	84	8	1	9	233	102	335	298	77	375	151	36	187	66	1	67	324	10	16	Yes											
Nakasongola	197,102	148,830	72	95	76	68	75	97	88	87	121	88	87	1	0	1	26	17	43	266	147	413	94	60	154	383	80	463	599	32	31	No											
Namayingo	245,566	125,212	50	63	51	78	63	-	89	96	457	89	96	17	19	36	119	44	163	189	29	218	79	33	112	19	2	21	9	0	1	No											
Namutumba	277,677	164,344	61	36	59	87	93	-	98	88	60	98	88	60	3	63	91	18	109	351	38	389	6	14	20	1	1	2	332	6	19	No											
Napak	153,806	114,043	75	43	74	59	89	100	76	95	119	76	95	5	1	6	1	0	1	238	170	408	25	16	41	2	0	2	0	0	0	Yes											
Nebbi	418,474	293,325	71	65	70	75	86	30	91	92	91	91	92	127	61	188	57	39	96	556	131	687	59	36	95	59	1	60	898	0	38	Yes											
Ngora	153,669	126,739	85	59	82	89	90	-	97	95	45	97	95	7	0	7	121	22	143	237	21	258	22	3	25	20	2	22	0	0	0	No											
Ntoroko	68,267	53,600	81	72	79	68	81	-	41	94	98	41	94	42	29	71	66	31	97	45	16	61	12	14	26	103	14	117	0	0	0	No											

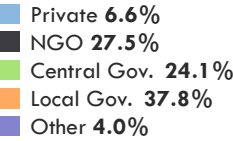


District	Population	Population Served	Indicators										Point Water Sources										Piped Water Systems									
			Access (%)			Functionality (%)			Equity (rural)	Management	Gender	Protected spring			Shallow well			Deep borehole			Rainwater harvesting tank			Systems overseen by DWD								
			Rural	Urban	Total	Rural	Urban	WFP				Functional	Non functional	Total	Functional	Non functional	Total	Functional	Non functional	Total	Functional	Non functional	Total	Yard Tap	Household Connection	Institutional Connection						
Ntungamo	518,263	379,648	75	61	73	82	87	96	101	76	81	721	83	804	370	95	465	160	120	280	104	22	126	439	62	501	550	30	63	63	Yes	
Nwoya	147,863	123,119	82	95	83	75	71	-	546	95	71	71	9	80	18	31	49	292	75	367	8	11	19	8	11	19	0	0	0	0	0	No
Otuke	118,760	110,148	93	95	93	83	81	-	40	93	98	20	13	33	45	21	66	299	38	337	9	10	19	13	0	13	0	0	0	0	0	No
Oyam	421,394	300,076	72	44	71	90	91	100	90	95	95	219	6	225	310	40	350	446	50	496	32	16	48	8	5	13	134	0	0	0	0	No
Pader	194,690	184,956	95	95	95	80	80	16	30	88	96	19	0	19	38	14	52	797	190	987	32	22	54	31	8	39	0	0	0	0	0	Yes
Pallisa	423,189	277,314	66	61	66	94	88	33	94	83	87	283	17	300	62	20	82	609	20	629	17	3	20	20	6	26	0	0	0	0	0	No
Rakai	547,915	250,428	45	55	46	78	42	88	69	80	70	77	17	94	245	171	416	184	117	301	995	131	1,126	36	13	49	1,671	80	170	80	170	Yes
Rubirizi	136,494	86,860	68	37	64	95	96	-	51	89	92	171	12	183	59	8	67	6	0	6	215	4	219	221	10	231	477	43	62	43	62	Yes
Rukungiri	331,978	277,990	90	34	84	86	92	-	26	89	90	1,172	140	1,312	62	21	83	36	28	64	289	42	331	434	64	498	828	157	96	96	96	Yes
Serere	315,031	265,596	84	95	84	93	93	-	40	99	97	26	7	33	246	28	274	610	18	628	13	13	26	2	0	2	357	16	39	16	39	No
Sheema	219,670	195,535	88	91	89	88	85	-	49	97	97	328	56	384	138	20	158	19	20	39	138	1	139	525	73	598	606	0	84	84	Yes	
Sironko	262,951	194,243	77	57	74	91	90	-	68	80	88	438	33	471	15	3	18	76	13	89	28	4	32	471	44	515	1,446	42	75	75	Yes	
Soroti	326,971	261,823	91	26	80	88	0	100	38	88	90	79	24	103	146	21	167	577	53	630	59	18	77	34	2	36	0	0	0	0	0	Yes
Ssembabule	273,060	103,207	37	44	38	86	95	100	65	74	74	0	0	0	87	52	139	126	52	178	624	16	640	20	2	22	276	6	16	16	No	
Tororo	566,656	340,781	59	65	60	86	100	-	96	83	86	227	5	232	37	3	40	652	130	782	52	13	65	3	1	4	273	11	39	39	Yes	
Wakiso	2,379,649	1,001,545	42	43	42	83	75	-	268	91	67	900	90	990	979	434	1,413	298	56	354	514	48	562	751	118	869	832	59	51	51	Yes	
Yumbe	560,025	259,105	45	63	46	80	92	-	108	96	88	25	15	40	74	48	122	572	96	668	19	11	30	24	4	28	331	17	39	39	No	
Zombo	260,108	224,284	89	76	86	85	82	-	38	51	87	822	112	934	30	8	38	109	30	139	26	15	41	92	33	125	0	0	0	0	Yes	
National	37,916,331	25,855,850	68	68	68	84	85	84	118	88	85	25,157	3,053	28,210	16,158	4,865	21,023	31,005	6,338	37,343	17,496	2,274	19,770	15,986	2,808	18,794	47,540	4,942	4,215	4,215	Yes	

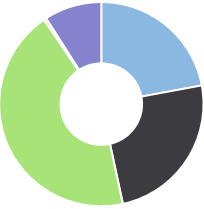
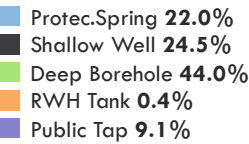
Type of Management



Source of Funding



Technology Served



Reason of Non-Functionality

