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ACHOLI SUB-REGION: Health Accessibility (Aug 2009)

OCHA Partnership for Humanity — United Nations Office for the Coordination of Humanitarian Affairs

National Standard (Health Facility)

1 VHT per 25-30 households

1 HC-II per Parish (includes 2 minimum staff)
- Enrolled Nurse (1)
- Mid-wife (1)
- Nursing Assistant (1)

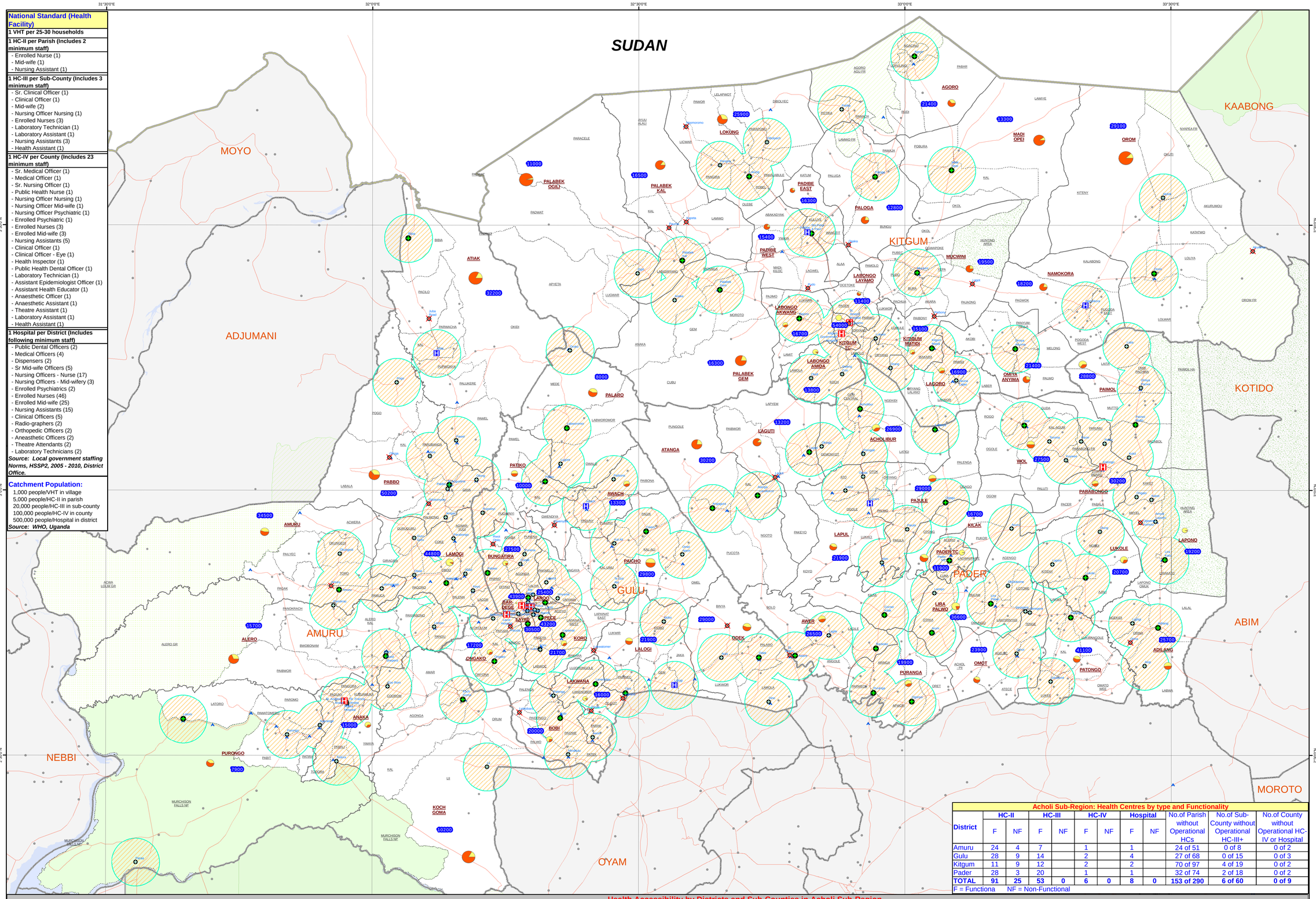
1 HC-III per Sub-County (includes 3 minimum staff)
- Sr. Clinical Officer (1)
- Clinical Officer (1)
- Mid-wife (2)
- Nursing Officer Nursing (1)
- Enrolled Nurses (3)
- Laboratory Technician (1)
- Laboratory Assistant (1)
- Nursing Assistants (3)
- Health Assistant (1)

1 HC-IV per County (includes 23 minimum staff)
- Sr. Medical Officer (1)
- Medical Officer (1)
- Sr. Nursing Officer (1)
- Public Health Nurse (1)
- Nursing Officer Nursing (1)
- Nursing Officer Mid-wife (1)
- Nursing Officer Psychiatric (1)
- Enrolled Psychiatric (1)
- Enrolled Nurses (3)
- Enrolled Mid-wife (3)
- Nursing Assistants (5)
- Clinical Officer (1)
- Clinical Officer - Eye (1)
- Health Inspector (1)
- Public Health Dental Officer (1)
- Laboratory Technician (1)
- Assistant Epidemiologist Officer (1)
- Assistant Health Educator (1)
- Anaesthetic Officer (1)
- Anaesthetic Assistant (1)
- Theatre Assistant (1)
- Laboratory Assistant (1)
- Health Assistant (1)

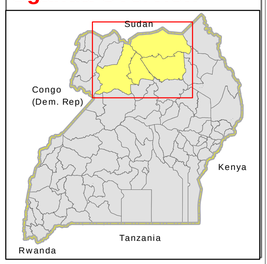
1 Hospital per District (includes following minimum staff)
- Public Dental Officers (2)
- Medical Officers (4)
- Dispensers (2)
- Sr Mid-wife Officers (5)
- Nursing Officers - Nurse (17)
- Nursing Officers - Mid-wifery (3)
- Enrolled Psychiatrics (2)
- Enrolled Nurses (46)
- Enrolled Mid-wife (25)
- Nursing Assistants (15)
- Clinical Officers (5)
- Radio-graphers (2)
- Orthopedic Officers (2)
- Aneasthetic Officers (2)
- Theatre Attendants (2)
- Laboratory Technicians (2)

Source: Local government staffing Norms, HSSP2, 2005 - 2010, District Office.

Catchment Population:
1,000 people/VHT in village
5,000 people/HC-II in parish
20,000 people/HC-III in sub-county
100,000 people/HC-IV in county
500,000 people/Hospital in district
Source: WHO, Uganda



Uganda Overview



Legend

Functional HCs by Type
- HC-II (91 Nos.)
- HC-III (53 Nos.)
- HC-IV (6 Nos.)
- Hospital (8 Nos.)
- Non-functional (25 Nos.)
- IDP Camp
- IDP Return Site/Village
- Motorable Road
- National Boundary
- District Boundary
- LABEL Sub-County Boundary
- LABEL Parish Boundary

Landuse Type
- Forest Reserve
- Game Reserve
- National Park
- Rangeland
- Water Body/Lakes

Pie (Ratio of Sub-County Area)
- Access to Health Centres
- No Access to Health Centres
- 5 km Access buffer (~ 1 hr walk to any HC)
- 9999 Sub-County Projected Pop 2009

Notes:

1. Total number of parish touched by 5 km access buffers, and approximate ratio of accessible area within sub-County are derived by using GIS technique. 5 km radius circle is equivalent to 78.57 sq.km area (using formula A = Pie*R*R).
2. Approximate area falls inside 5 km accessibility zones are treated as accessible & falls outside are treated as no accessible.
3. Accessibility is based on aerial distance. Assumed that people travel most direct route in plain area.
4. Pie size is graduated by total area of sub-County.
5. Accessibility presented in this map is based on available location of Health Centres from the District. Therefore, accessibility level change over time. For updated health information, please contact directly to DHO & WHO.

Data Sources:

Admin Boundaries - UBOS 2006
Admin Centres - UBOS 2002/2006
Landuse - UBOS 2006
Road Network - FAO
IDP/Return Sites/Village - Humanitarian Agencies in the field
Health Centres - Amuru DHO, Feb '09
Gulu DHO, Jan '09
Kitgum DHO, June '09
Pader DHO/WHO, Mar '09

This map is a work in progress. Please contact the IMU/Ocha as soon as possible with any corrections.

Map Disclaimer:

The boundaries and names shown and the designations used on this map do not imply official endorsement or acceptance by the United Nations.

Draft

0 5 10 20 Kilometers

Map Prepare: 28 Aug, 2009 (IMU/UNOCHA, Kampala)

File: UG-Health-48_A1_28Aug09_Acholi Sub-Region Health Accessibility

Acholi Sub-Region: Health Centres by type and Functionality

District	HC-II F	HC-II NF	HC-III F	HC-III NF	HC-IV F	HC-IV NF	Hospital F	Hospital NF	No.of Parish without Operational HCs	No.of Sub-County without Operational HC-III+	No.of County without Operational HC-IV or Hospital
Amuru	24	4	7		1		1		24 of 51	0 of 8	0 of 2
Gulu	28	9	14		2		4		27 of 68	0 of 15	0 of 3
Kitgum	11	9	12		2		2		70 of 97	4 of 19	0 of 2
Pader	28	3	20		1		1		32 of 74	2 of 18	0 of 2
TOTAL	**91**	**25**	**53**	**0**	**6**	**0**	**8**	**0**	**153 of 290**	**6 of 60**	**0 of 9**

F = Functiona NF = Non-Functional

Health Accessibility by Districts and Sub-Counties in Acholi Sub-Region

	Total	AMURU DISTRICT							
		ALERO	AMURU	ANAKA	ATIAK	KOCH GOMA	LAMOGI	PABBO	PURONGO
Total Population (2009 Projection)	1382800	15700	34500	15000	32200	10200	44800	50200	7900
No.of Operational Health Centres by Sub-County	158	4	3	4	3	3	6	6	2
Total Area by Sub-County (Sq.Km.)	28248.0	1338.5	1309.9	236.2	1184.2	1304.4	372.7	757.5	1892.4
Non-populated area - water body/game reserve/nat park (Sq.Km.)	4635.8	668.6	848.0	0.0	1.6	218.0	0.0	0.0	1503.0
Populated area in the Sub-county (Sq.Km.)	23612.2	669.8	461.9	236.2	1182.6	1086.4	372.7	757.5	389.4
Area Access within 5km buffer (%)	36.9%	0.3	0.5	0.6	0.2	0.2	0.9	0.4	0.4
*Total Area Access within 5km buffer (Sq.km.)	8706.0	212.1	208.2	153.2	200.4	176.8	341.8	275.0	157.1
Total Area Not Access within 5km in the sub-county (Sq.Km.)	14906.3	457.7	253.7	83.0	982.3	909.6	30.9	482.5	232.3
Number of Parish without operational HCs by Sub-County	153 of 290	3 of 6	3 of 6	4 of 6	5 of 8	3 of 6	3 of 8	1 of 6	2 of 5

	GULU DISTRICT														
	AWACH	BAR-DEGE	BOBI	BUNGA TIRA	KORO	LAKW ANA	LALOGI	LAROO	LAYIBI	ODEK	ONGAKO	PAICHO	PALARO	PATIKO	PECE
Total Population (2009 Projection)	13300	43900	20000	27500	21700	16000	21900	25400	30500	29000	17200	29800	8000	10000	43200
No.of Operational Health Centres by Sub-County	4	3	3	4	3	2	3	4	3	3	2	6	3	3	5
Total Area by Sub-County (Sq.Km.)	249.3	21.4	230.9	187.1	215.5	156.1	337.0	9.9	11.8	440.9	200.3	593.1	515.8	268.6	12.0
Non-populated area - water body/game reserve/nat park (Sq.Km.)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0
Populated area in the Sub-county (Sq.Km.)	249.3	21.4	230.9	187.1	215.5	156.1	337.0	9.9	11.8	440.9	200.3	593.1	514.4	268.6	12.0
Area Access within 5km buffer (%)	0.6	1.0	0.7	0.8	0.6	0.9	0.5	1.0	1.0	0.4	0.7	0.5	0.4	0.5	1.0
*Total Area Access within 5km buffer (Sq.km.)	141.4	21.4	165.0	149.7	137.5	140.5	157.1	9.9	11.8	196.4	135.1	286.9	216.1	135.9	12.0
Total Area Not Access within 5km in the sub-county (Sq.Km.)	107.9	0.0	65.9	37.4	78.0	15.6	179.8	0.0	0.0	244.5	65.1	306.1	298.3	132.7	0.0
Number of Parish without operational HCs by Sub-County	2 of 4	1 of 3	2 of 5	3 of 7	4 of 6	2 of 4	2 of 5	2 of 4	1 of 4	1 of 4	3 of 5	1 of 7	0 of 3	1 of 3	2 of 4

	KITGUM DISTRICT																		
	AGORO	KITGU M TC	KITGU M MATIDI	LABONGO AKWANG	LABONGO AMIDA	LABONGO LAYAMO	LAGOR O	LOKUN G	MADI OPEI	MUCWI NI	NAMOK ORA	OMIYA ANYIMA	OROM	PADIBE EAST	PADIBE WEST	PALABE K GEM	PALABE K KAL	PALABE K OGILI	PALOG A
Total Population (2009 Projection)	21400	54000	15100	16700	13800	11400	16900	25900	13300	19500	18200	21400	29100	16300	15400	16300	16500	11000	12800
No.of Operational Health Centres by Sub-County	2	3	1	1	1	1	2	3	1	1	1	1	2	1	1	2	1	1	1
Total Area by Sub-County (Sq.Km.)	625.9	30.5	157.5	176.0	197.9	109.7	233.0	665.6	836.2	505.0	391.7	337.6	1818.1	157.4	236.5	798.5	631.1	1217.8	422.6
Non-populated area - water body/game reserve/nat park (Sq.Km.)	237.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	140.4	0.0	0.0	491.4	0.0	0.0	0.9	0.0	2.6	26.8
Populated area in the Sub-county (Sq.Km.)	388.4	30.5	157.5	176.0	197.9	109.7	233.0	665.6	836.2	364.6	391.7	337.6	1326.7	157.4	236.5	797.6	631.1	1215.2	395.8
Area Access within 5km buffer (%)	0.4	1.0	0.7	0.6	0.9	0.4	0.6	0.3	0.1	0.2	0.2	0.3	0.1	0.2	0.2	0.2	0.1	0.0	0.2
*Total Area Access within 5km buffer (Sq.km.)	141.4	30.5	102.9	102.1	178.4	38.5	137.5	212.1	78.6	78.6	78.6	90.4	157.1	37.7	40.9	157.1	90.4	51.1	86.4
Total Area Not Access within 5km in the sub-county (Sq.Km.)	247.0	0.0	54.6	73.9	19.6	71.2	95.5	453.5	757.6	286.0	313.1	247.2	1169.6	119.6	195.7	640.5	540.8	1164.1	309.3
Number of Parish without operational HCs by Sub-County	5 of 7	5 of 7	3 of 4	2 of 3	1 of 4	4 of 4	2 of 4	6 of 9	3 of 4	9 of 10	3 of 4	3 of 4	6 of 8	3 of 4	3 of 4	3 of 5	3 of 4	3 of 4	3 of 4

	PADER DISTRICT																		
	ACHOLIBUR	ADILANG	ATANGA	AWER	KILAK	LAGUTI	LAPONO	LAPUL	LIRA PALWO	LUKOLE	OMOT	PADER TC	PAIMOL	PAJULE	PARABONGO	PATONGO	WOL
Total Population (2009 Projection)	26900	25700	30200	26500	16700	13200	19200	21900	36600	20700	23900	11900	28800	29000	30200	41100	19900	27500
No.of Operational Health Centres by Sub-County	4	3	2	3	1	1	4	2	4	2	3	1	4	4	2	2	2	2
Total Area by Sub-County (Sq.Km.)	384.3	380.0	687.1	321.1	438.7	448.1	465.0	345.2	417.4	343.0	286.3	64.7	618.8	365.4	253.5	323.6	305.3	406.6
Non-populated area - water body/game reserve/nat park (Sq.Km.)	0.0	0.0	0.2	0.0	0.0	0.0	267.9	0.0	0.0	0.0	0.0	0.0	216.6	0.0	0.0	0.0	0.0	11.0
Populated area in the Sub-county (Sq.Km.)	384.3	380.0	686.9	321.1	438.7	448.1	197.1	345.2	417.4	343.0	286.3	64.7	402.2	365.4	253.5	323.6	305.3	395.5
Area Access within 5km buffer (%)	0.6	0.5	0.2	0.6	0.4	0.1	1.0	0.4	0.8	0.7	0.4	1.0	0.6	0.5	0.5	0.4	0.6	0.5
*Total Area Access within 5km buffer (Sq.km.)	235.7	196.4	149.3	176.8	176.8	55.0	188.6	141.4	333.9	235.7	117.9	62.9	255.4	196.4	137.5	141.4	176.8	196.4
Total Area Not Access within 5km in the sub-county (Sq.Km.)	148.6	183.6	537.6	144.4	261.9	393.1	8.5	203.7	83.5	107.3	168.5	1.9	146.9	169.0	116.0	182.1	128.5	199.1
Number of Parish without operational HCs by Sub-County	0 of 4	1 of 4	2 of 4	1 of 3	3 of 4	2 of 3	1 of 4	2 of 4	3 of 6	1 of 3	2 of 4	2 of 3	1 of 4	2 of 6	2 of 4	3 of 5	2 of 4	2 of 5

*Accessible area calculated based on Total Populated Area (i.e. excluded other area, such as water body, game reserve, range land, national park, etc)
Source: Population (National Population Projection 2009, UBOS), No.of Parish (Based on UBOS Boundary), Other (Calculated using GIS Technique)