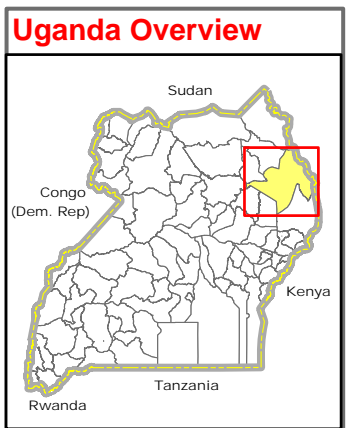
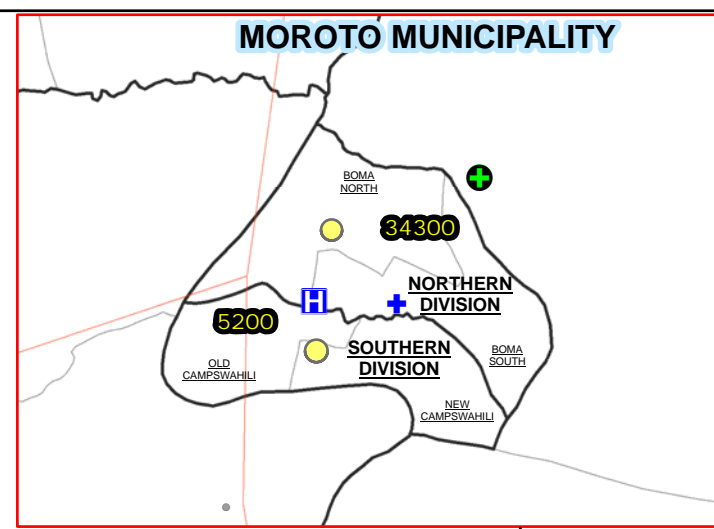
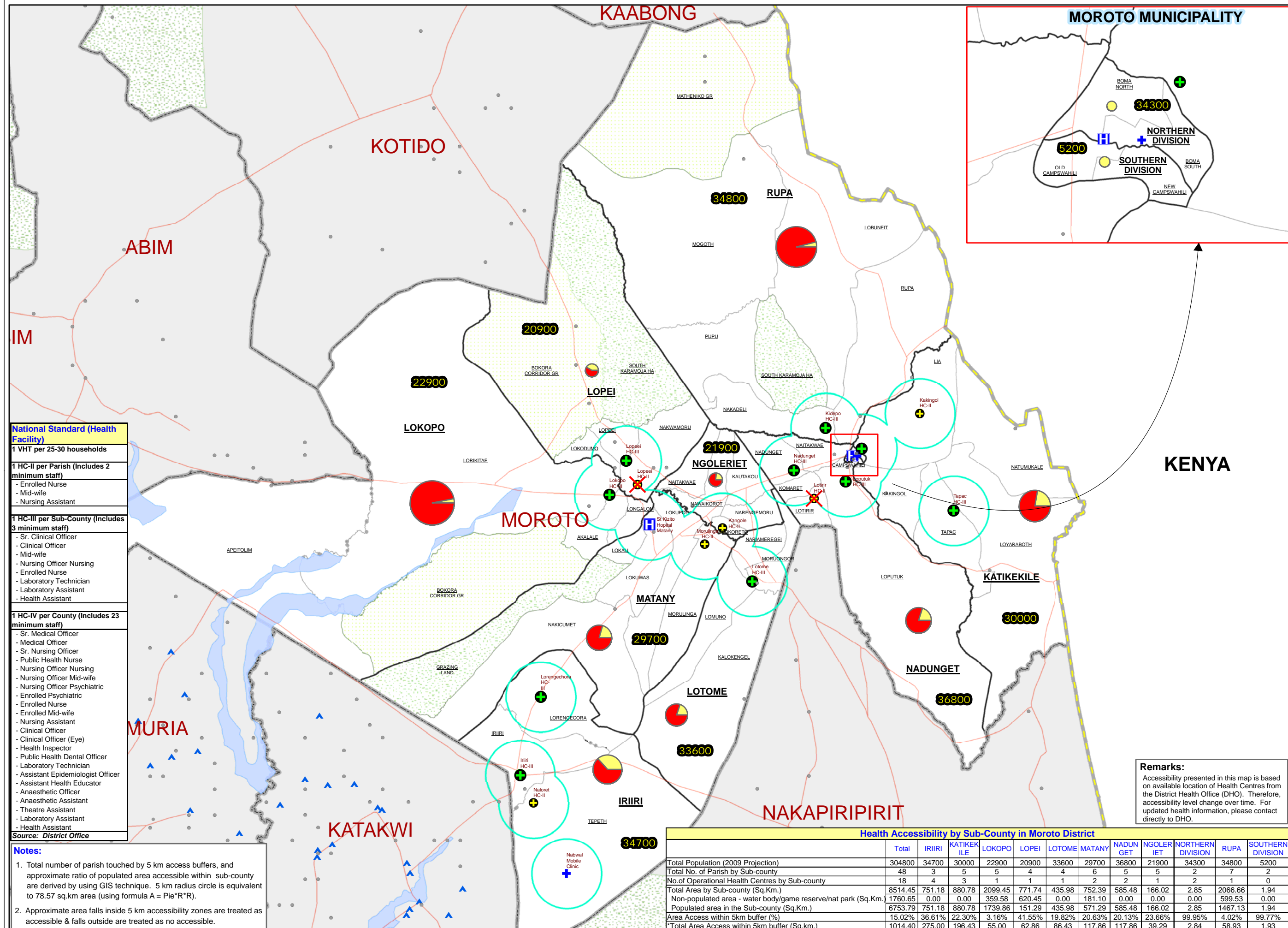


# MOROTO DISTRICT: Health Accessibility by Sub-County (Apr 2009)



**Legend**

- Village
- IDP Camp (Surrounding districts)
- Functional Health Centres:
  - Clinics (2 Nos.)
  - HC-II (4 Nos.)
  - HC-III (10 Nos.)
  - Hospital (2 Nos.)
  - Not Functional HCs (2 Nos.)
- Motorable Road
- National Boundary
- District Boundary
- Sub-County Boundary
- Parish Boundary
- Landuse Type:
  - Forest Reserve
  - Game Reserve
  - National Park
  - Rangeland
  - Lakes/Water Body
- 999 Projected Population 2009
- 5km Access buffer (~ 1-1.5 hrs walk to HC)
- Pie (Ratio of Populated Area):
  - Access
  - No Access

**National Standard (Health Facility)**

<b>1 VHT per 25-30 households</b>
<b>1 HC-II per Parish (Includes 2 minimum staff)</b>
- Enrolled Nurse
- Mid-wife
- Nursing Assistant
<b>1 HC-III per Sub-County (Includes 3 minimum staff)</b>
- Sr. Clinical Officer
- Clinical Officer
- Mid-wife
- Nursing Officer Nursing
- Enrolled Nurse
- Laboratory Technician
- Laboratory Assistant
- Health Assistant
<b>1 HC-IV per County (Includes 23 minimum staff)</b>
- Sr. Medical Officer
- Medical Officer
- Sr. Nursing Officer
- Public Health Nurse
- Nursing Officer Nursing
- Nursing Officer Mid-wife
- Nursing Officer Psychiatric
- Enrolled Psychiatric
- Enrolled Nurse
- Enrolled Mid-wife
- Nursing Assistant
- Clinical Officer
- Clinical Officer (Eye)
- Health Inspector
- Public Health Dental Officer
- Laboratory Technician
- Assistant Epidemiologist Officer
- Assistant Health Educator
- Anaesthetic Officer
- Anaesthetic Assistant
- Theatre Assistant
- Laboratory Assistant
- Health Assistant

Source: District Office

- Notes:**
- Total number of parish touched by 5 km access buffers, and approximate ratio of populated area accessible within sub-county are derived by using GIS technique. 5 km radius circle is equivalent to 78.57 sq.km area (using formula  $A = \text{Pie} \cdot R^2$ ).
  - Approximate area falls inside 5 km accessibility zones are treated as accessible & falls outside are treated as no accessible.
  - Accessibility is based on aerial distance. Assumed that people travel most direct route in plain area.
  - Pie size is graduated by total populated area (excluded water body, game reserve, range land, national park, etc) of sub-County.

No. of Parish without operational HCs	32 of 48
No. of Sub-county without operational HC-III+	2 of 11
No. of County without operational HC-IV or Hospitals	None

**Health Accessibility by Sub-County in Moroto District**

	Total	IRIIRI	KATIKEKILE	LOKOPO	LOPEI	LOTOME	MATANY	NADUNGET	NGOLER IET	NORTHERN DIVISION	RUPA	SOUTHERN DIVISION
Total Population (2009 Projection)	304800	34700	30000	22900	20900	33600	29700	36800	21900	34300	34800	5200
Total No. of Parish by Sub-county	48	3	5	5	4	4	6	5	5	2	7	2
No. of Operational Health Centres by Sub-county	18	4	3	1	1	1	2	2	1	2	1	0
Total Area by Sub-county (Sq.Km.)	8514.45	751.18	880.78	2099.45	771.74	435.98	752.39	585.48	166.02	2.85	2066.66	1.94
Non-populated area - water body/game reserve/nat park (Sq.Km.)	1760.65	0.00	0.00	359.58	620.45	0.00	181.10	0.00	0.00	0.00	599.53	0.00
Populated area in the Sub-county (Sq.Km.)	6753.79	751.18	880.78	1739.86	151.29	435.98	571.29	585.48	166.02	2.85	1467.13	1.94
Area Access within 5km buffer (%)	15.02%	36.61%	22.30%	3.16%	41.55%	19.82%	20.63%	20.13%	23.66%	99.95%	4.02%	99.77%
*Total Area Access within 5km buffer (Sq.km.)	1014.40	275.00	196.43	55.00	62.86	86.43	117.86	117.86	39.29	2.84	58.93	1.93
Total Area Not Access within 5km in the sub-county (Sq.Km.)	5739.39	476.18	684.36	1684.87	88.43	349.55	453.43	467.63	126.74	0.00	1408.20	0.00
No. of Parish touched by 5km Health Access buffer	38	3	4	3	3	4	4	5	4	2	4	2
No. of Parish without Operational Health Centres	32 of 48	0 of 3	3 of 5	4 of 5	3 of 4	3 of 4	4 of 6	2 of 5	4 of 5	1 of 2	6 of 7	2 of 2

\* 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)

**Remarks:**  
 Accessibility presented in this map is based on available location of Health Centres from the District Health Office (DHO). Therefore, accessibility level change over time. For updated health information, please contact directly to DHO.

Data Sources:  
 Admin Boundaries - UBOS 2006  
 Road Network - FAO  
 Settlements - Humanitarian Agencies in Districts.

Thematic - Moroto District Education Office  
 Verified by WHO Apr 2009

**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**

Map Prepare Date: 04 May 09 (IMU Kampala/UNOCHA)  
 File: UG-Health-29\_A3\_04May09\_Moroto District Health Accessibility by Sub-County.mdx