

Community Based Information System (CBIS) Development Process

By

**TROPICAL INSTITUTE OF
COMMUNITY HEALTH AND
DEVELOPMENT (TICH) in Africa.**

INTRODUCTION

A **REGIONAL** (Nyanza) consultative meeting took place at TICH in November 2003 involving participants from selected districts in the region.

☐ Aims

- To **IDENTIFY** and **REVIEW** existing Community Based Information Systems (CBIS) used in various districts in the region
- To **DEVELOP** an **INSTRUMENT** for a national rapid assessment on the use of CBIS

RAPID ASSESSMENT

- ❑ A **RAPID ASSESSMENT** was done countrywide to:-
 - **ASSESS** the extent of use of CBIS in various districts in Kenya
 - **ESTABLISH** best practices on the use of CBIS in Kenya for scale up
 - **IDENTIFY** indicators that are common in various regions in Kenya

WORKSHOP

❑ A workshop was then held at TICH in February 2004 on Community Based Information System (CBIS) that brought together participants from various districts in Nyanza to:

- ✓ Develop a **COMMON** and **UNIFORM** CBIS approach with Health and Development **INDICATORS** that can be replicated
- ✓ Establish **BEST PRACTICES (BP)** in the districts' Community Based Health Information Systems (CBIS) for scaling up
- ✓ Strengthen and Ensure **SUSTAINABILITY**

Common **INDICATORS/THEMES** Identified & Agreed

- ☐ Births and Deaths
 - **By sex & age group (for deaths)**
- ☐ Environmental Health
 - **(Water treatment, Latrine use, Dish Rack use, Leaky Tin use)**
- ☐ Prevention & Immunization Completion
 - **I.T.N use & Penta1, Penta3 & Measles Immunization**
- ☐ No. of Cases of Specific Illnesses
 - **Malaria, Diarrhea, Pneumonia, Scabies & Measles**
- ☐ Food Availability
- ☐ Monthly Total Expenditure vs Food Expenditure

(BP) Factors for Consideration

☐ **Coverage completeness**

☐ **Data Quality**

➤ **Collectable**

➤ **Analyzable**

➤ **Usable**

➤ **Timely**

☐ **Data Sources**

- **Households, Schools**

☐ **Data Collectors**

- **CHWs, Village elders**

☐ **Data Collation Points**

- **Chalkboards at Chiefs Camp**

1/21/2005

☐ **Sustainability**

By Thomas N. Ondieki

Registers (TOOLS) Developed

- Household Monthly Register
- Village Annual Register

Household Register Indicators

- ☐ Births
- ☐ 0 yrs deaths
- ☐ 1-5 yrs deaths
- ☐ 5+ yrs deaths
- ☐ Water treatment
- ☐ Latrine Use
- ☐ Dish Rack Use
- ☐ Leaky Tin Use
- ☐ Penta1 Completion
- ☐ Penta3 Completion
- ☐ Measles Completion
- ☐ Malaria Cases
- ☐ Pneumonia Cases

- ☐ Diarrhea Cases
- ☐ Scabies Cases
- ☐ Measles cases
- ☐ Referrals to Health Facility
- ☐ Cash Crops planted
- ☐ Millet/Sorghum Available
- ☐ Maize Available
- ☐ Beans Available
- ☐ Food Sec. Crop Available
- ☐ Kitchen Garden Avail.
- ☐ Total Monthly Expenditure
- ☐ Monthly Food Expenditure
- ☐ Price of Maize & Beans

Village Annual Register Indicators

- ☐ Number of Homesteads
- ☐ Number of households
- ☐ Total Village Population
- ☐ Women 16 – 49 yrs
- ☐ Under 5 males
- ☐ Under 5 Females
- ☐ Number of Orphans
- ☐ Number of Widows
- ☐ 6-16 yrs School Enrolment
- ☐ 6 -16yrs School performance
- School dropouts due to:
 - ☐ Pregnancy
 - ☐ Marriage
- ☐ Sickness
- ☐ Fees
- ☐ Work
- ☐ Wealth Ranking 1
 - *Grade cows, Color TV, Car, Iron Roof Hse, Cemented Flr.*
- ☐ Wealth Ranking 2
 - *Cows, TV B/W, Bicycle, Radio, Iron Roof Hse*
- ☐ Wealth Ranking 3
 - *Own nothing in Rank 1*

ACTIONS - PROCESS

ACTION	TIME	WHERE	WHO	STATUS
Final Draft Report	February 2004	TICH	TICH & PARTICIPANTS	Completed
Briefings	February 2004	Prov. Admin	TICH & PARTICIPANTS	Completed
Meetings	Feb. – March 2004	Districts	TICH & PARTICIPANTS	Completed
Trainings	March 2004	Districts	TICH & PARTICIPANTS	Completed
Start Data Collection	March 2004	Households	CHWS	Ongoing
Stakeholders W/Shop	July 2004	Kisumu	TICH & PARTICIPANTS	Completed
District W/S	July 2004	Kisumu	TICH & PARTICIPANTS	Completed

Briefings/Meetings



- ❑ A CHW receiving a register after a meeting and Briefing Session.

Trainings



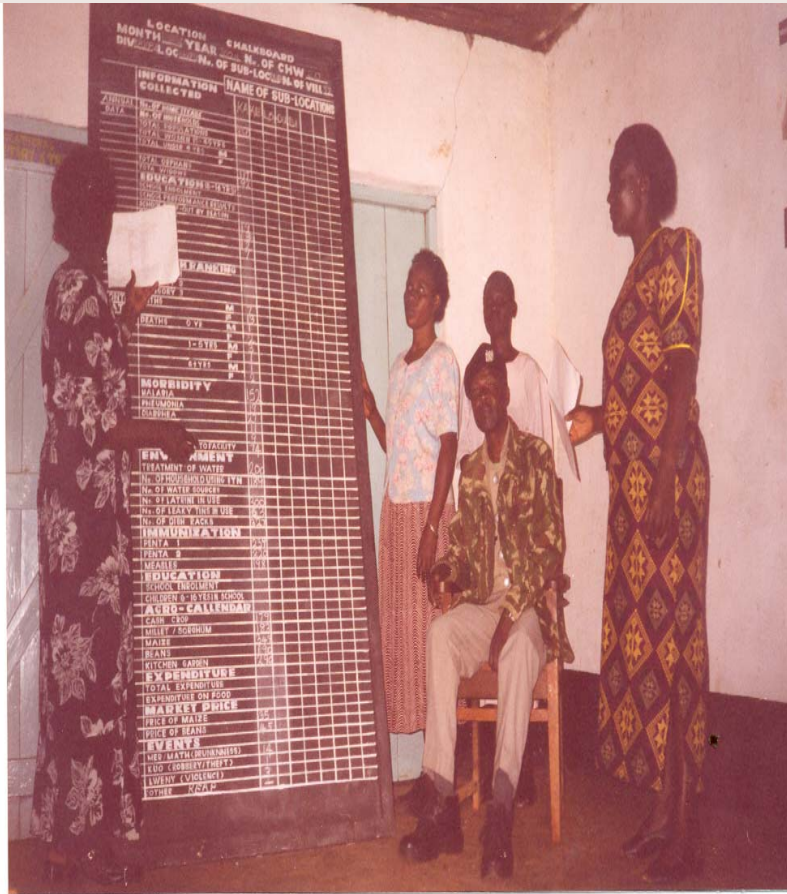
- ❑ A section of the class of CHWs being trained on how to fill the Registers.

Training Continued...



□ CHWs being trained on how to fill the Registers in one of the training sessions.

Data Collation



☐ Data Collation
Gearing to go in the
Chief's office.

Collation Continued...



- ☐ Getting things right on the Chalkboards.
- ☐ CHWs ensuring data correctness.

Collation Continued...



- ❑ Ensuring the right information is collated onto the chalkboards.
- ❑ A Public Health Officer getting explanations on some of the figures on the chalkboard.

[illegible]

- 1/21/2005

Group Photo



□ Participants outside the training hall after a training session.

CBIS DATABASE SYSTEM

Designed

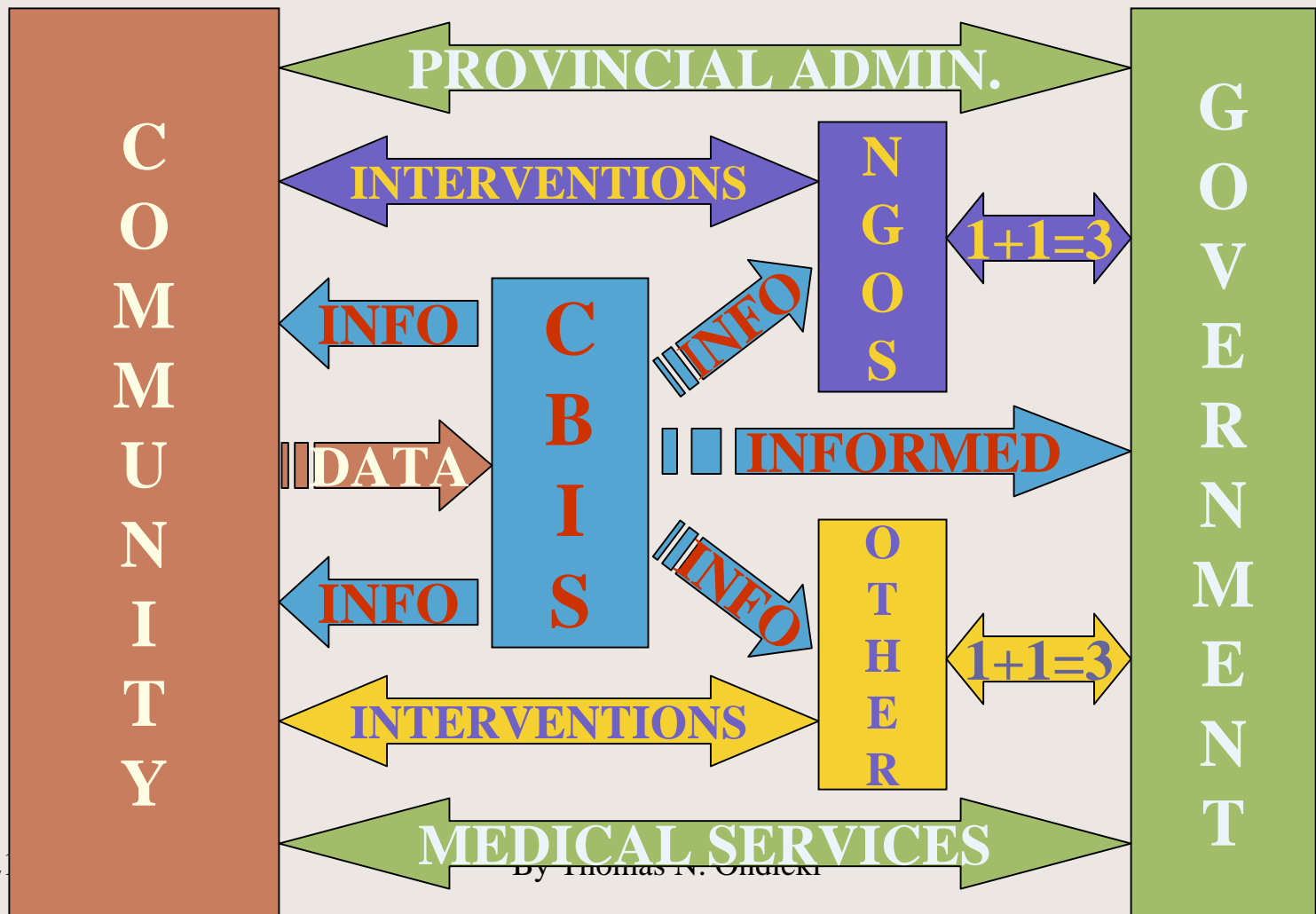
Point Mouse to Launch



TICH CBIS System

- ❑ Based on the data Collection tool
- ❑ **INTEGRATED** to other dynamics in provincial administration
- ❑ Data sets **ACCESSIBLE** by SPSS and other statistical applications
- ❑ **RELATIONSHIPS** are maintained up-to household and **Individual Level**

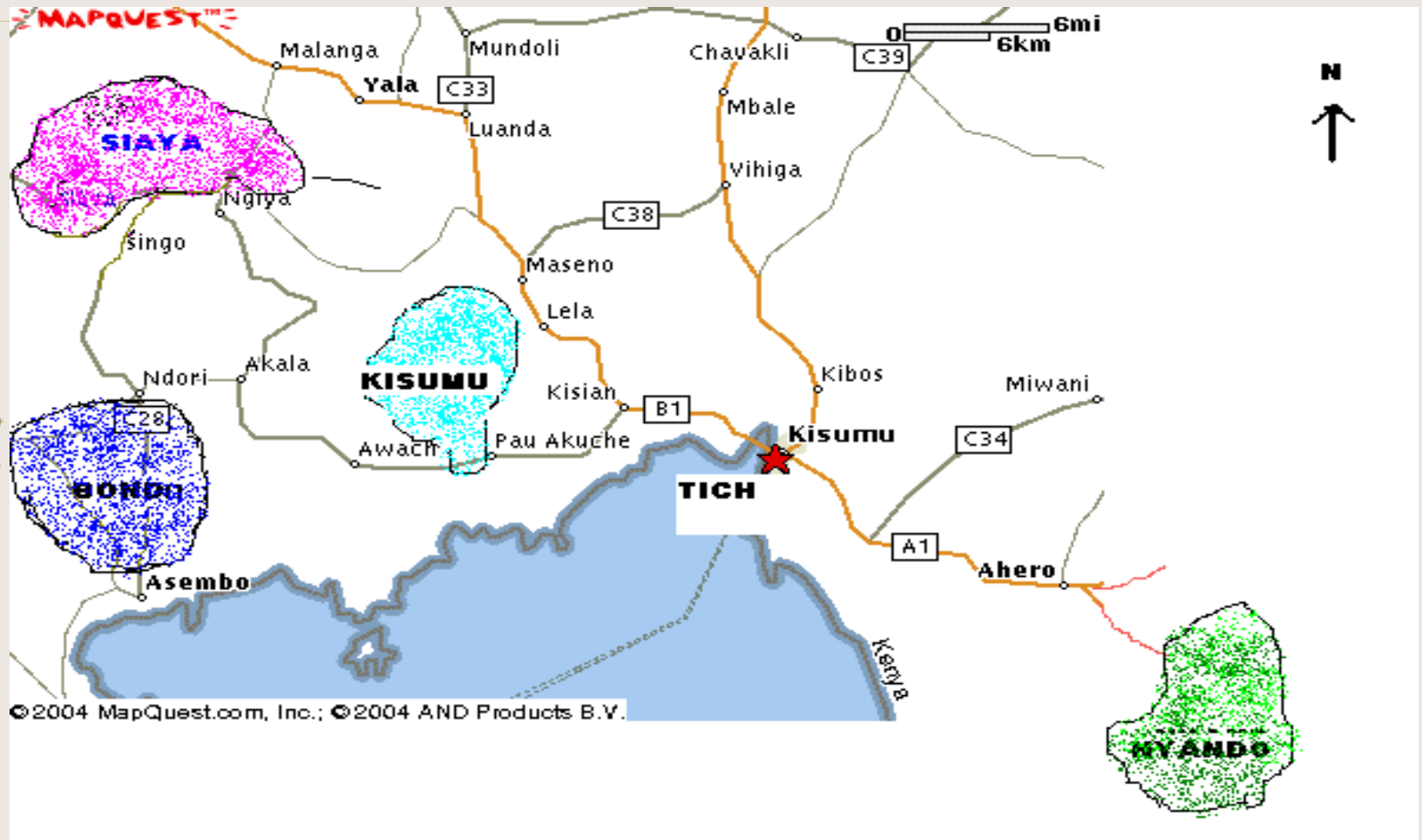
CBIS RELATIONSHIP Model



DISTRICT COMPARATIVE REPORTS

KEY FINDINGS

CBIS SITES MAP

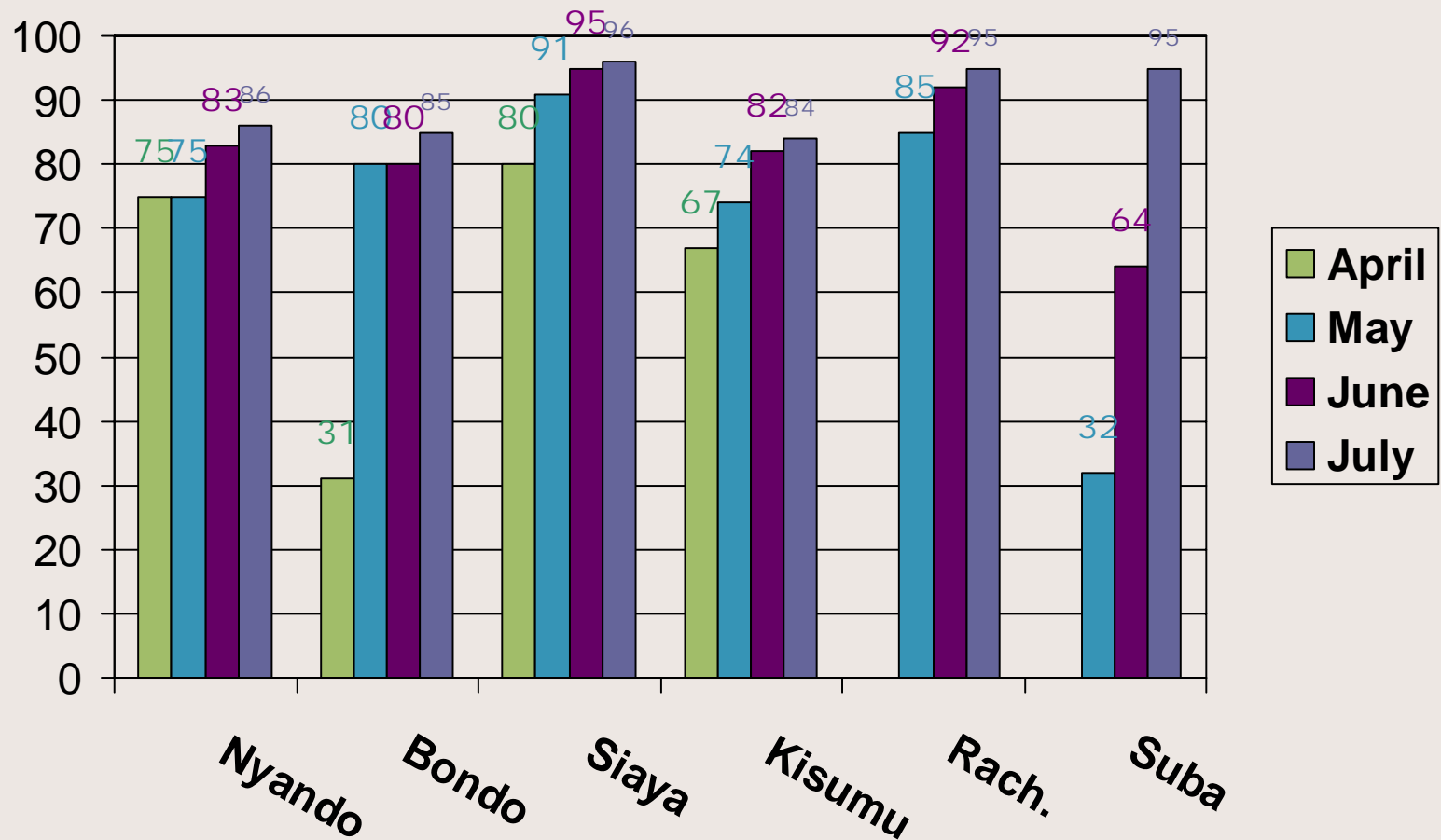


Number of Sites from Each District

□ Below is the number of sub-locations (Sites) participating from each district:

– Kisumu	-	2
– Nyando	-	3
– Bondo	-	7
– Siaya	-	8
– Rachuonyo	-	1
– Suba	-	6

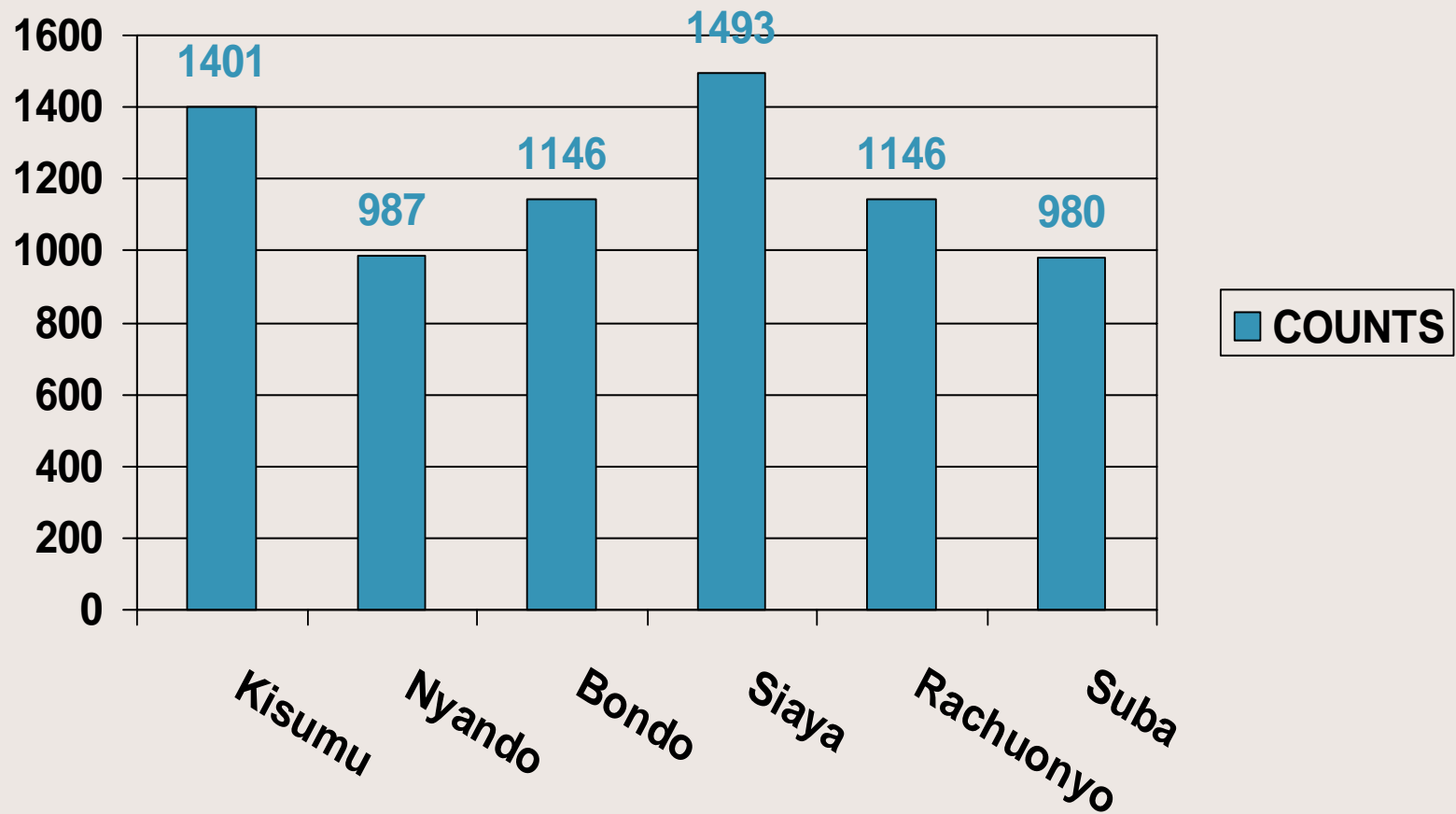
4 Months % of H/Holds Reflected in Data Collection



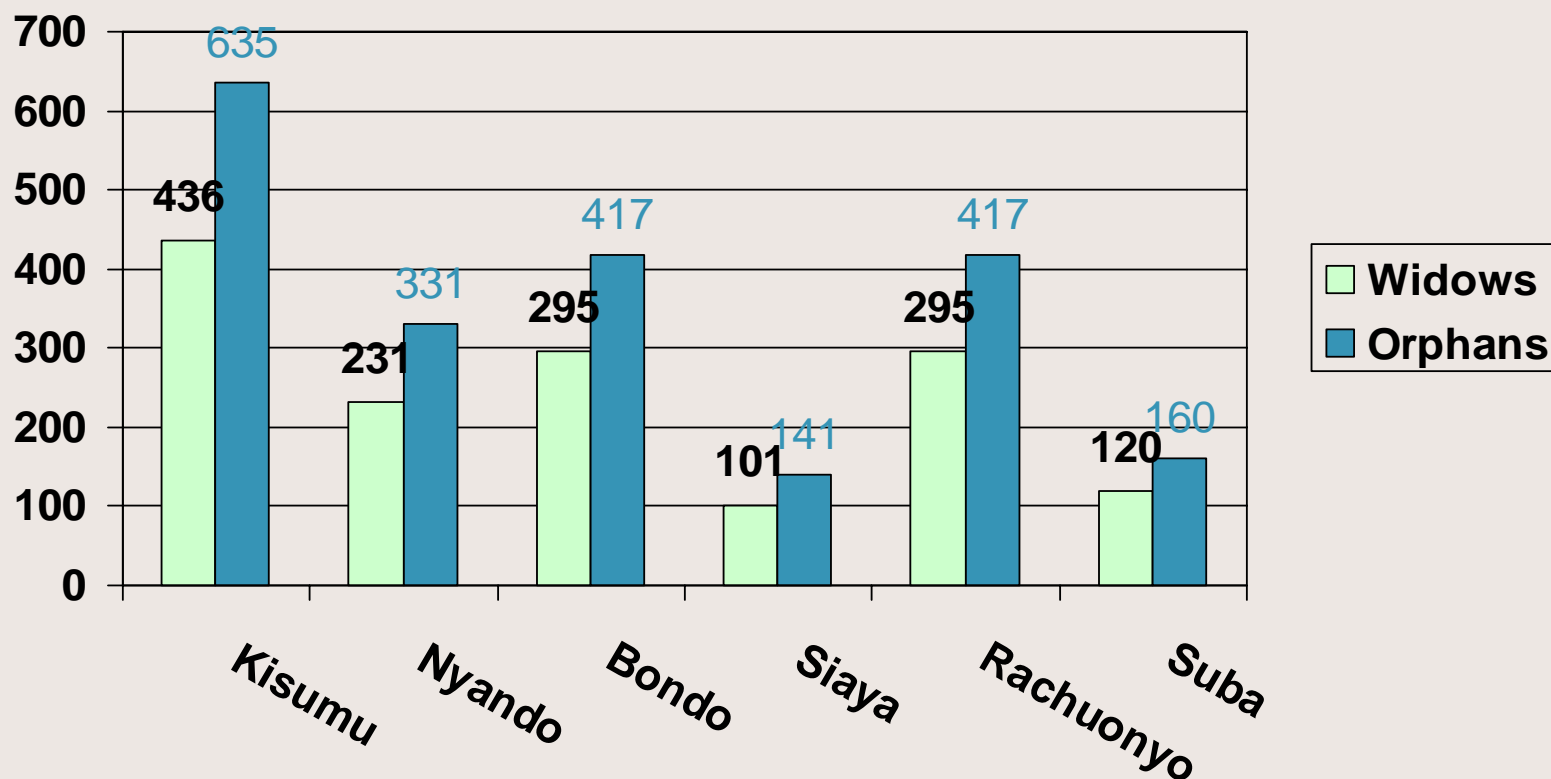
ANNUAL DATA (HIGHLIGHTS)

- ❑ All registers have village annual data for **ALL** household information submitted
- ❑ The annual data reflects **COUNTS** that are kept for the whole year as village **DENOMINATOR**

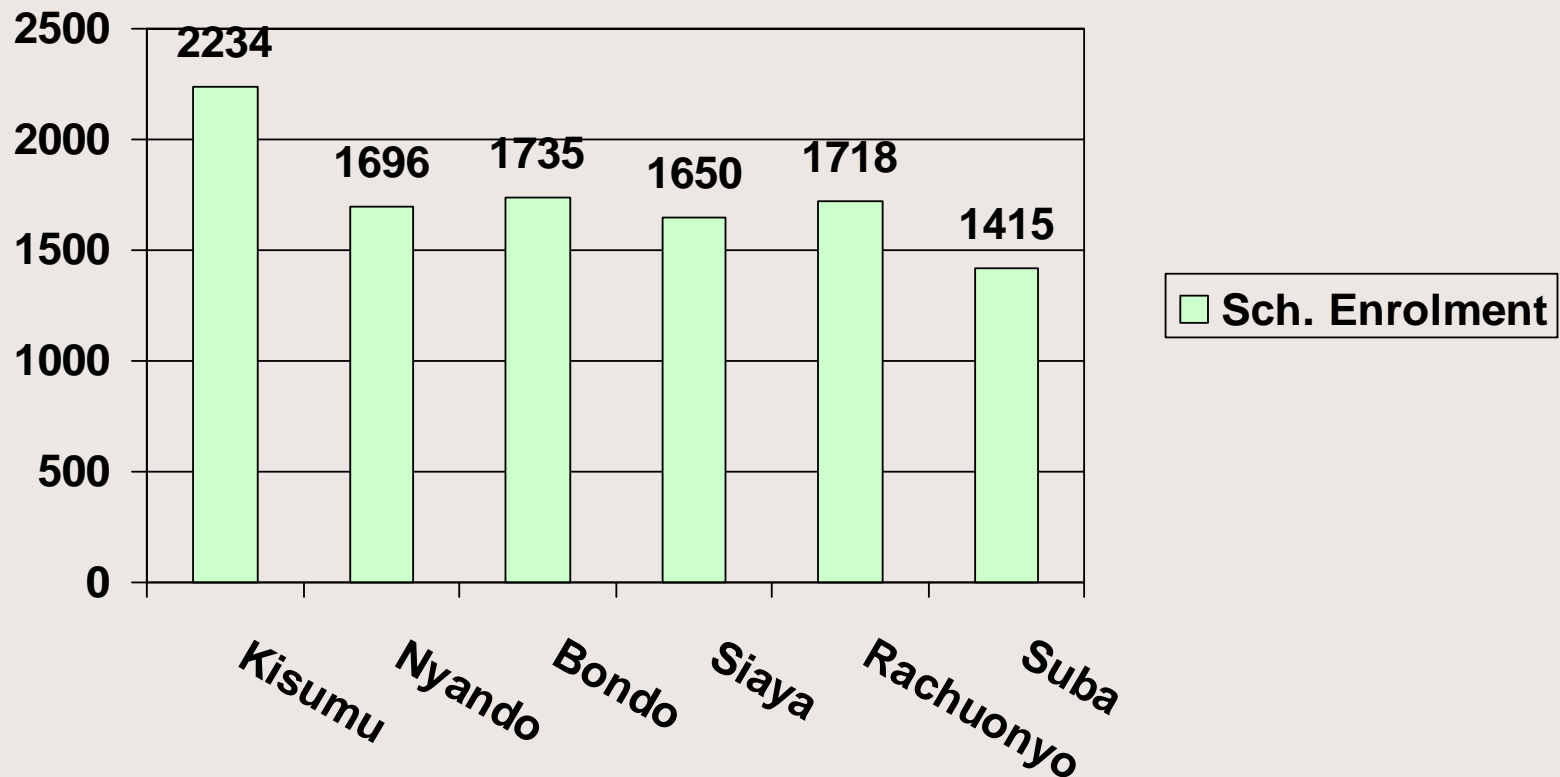
H/Holds in the District Sites



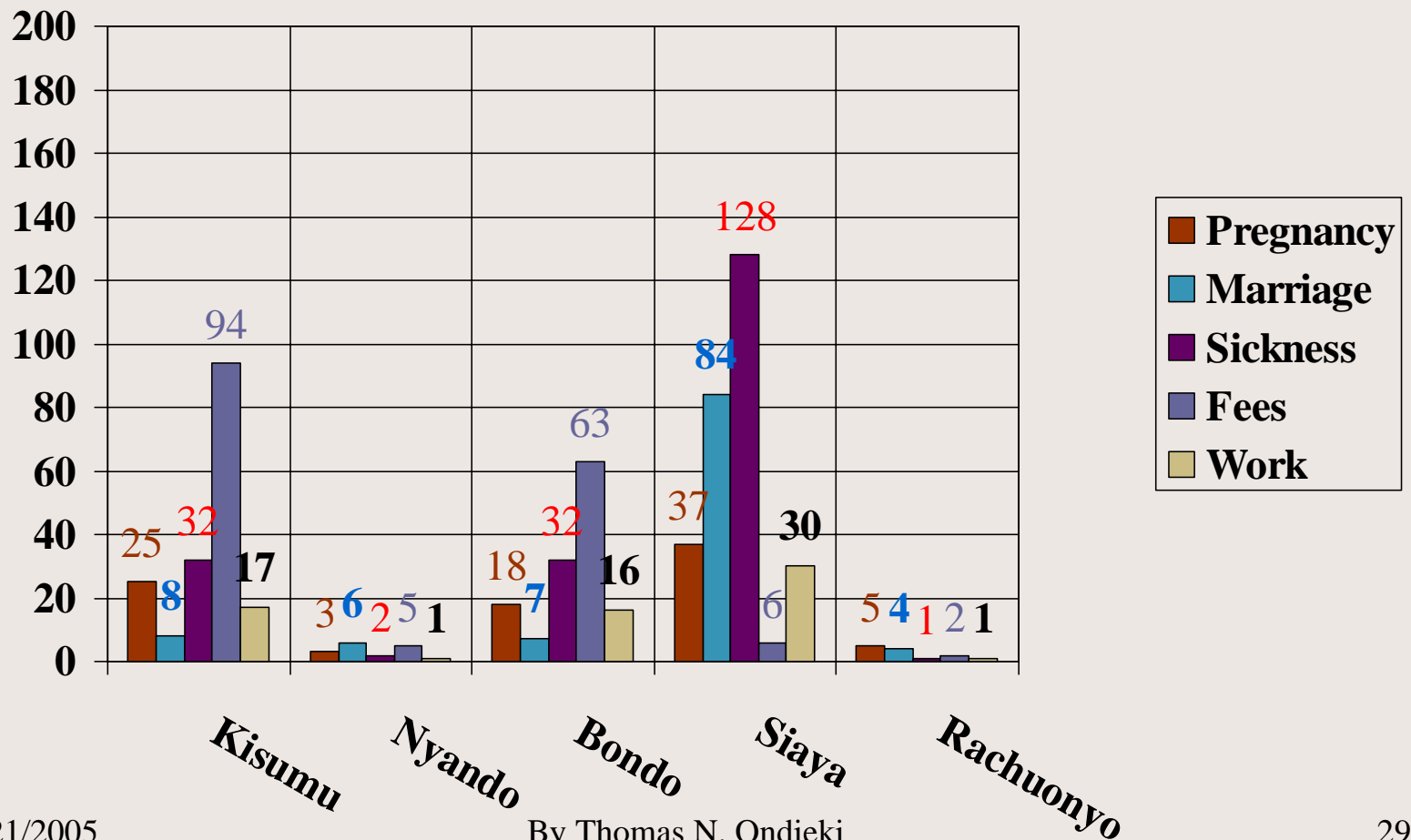
Widows & Orphans in District Sites



School Enrolment in District Sites



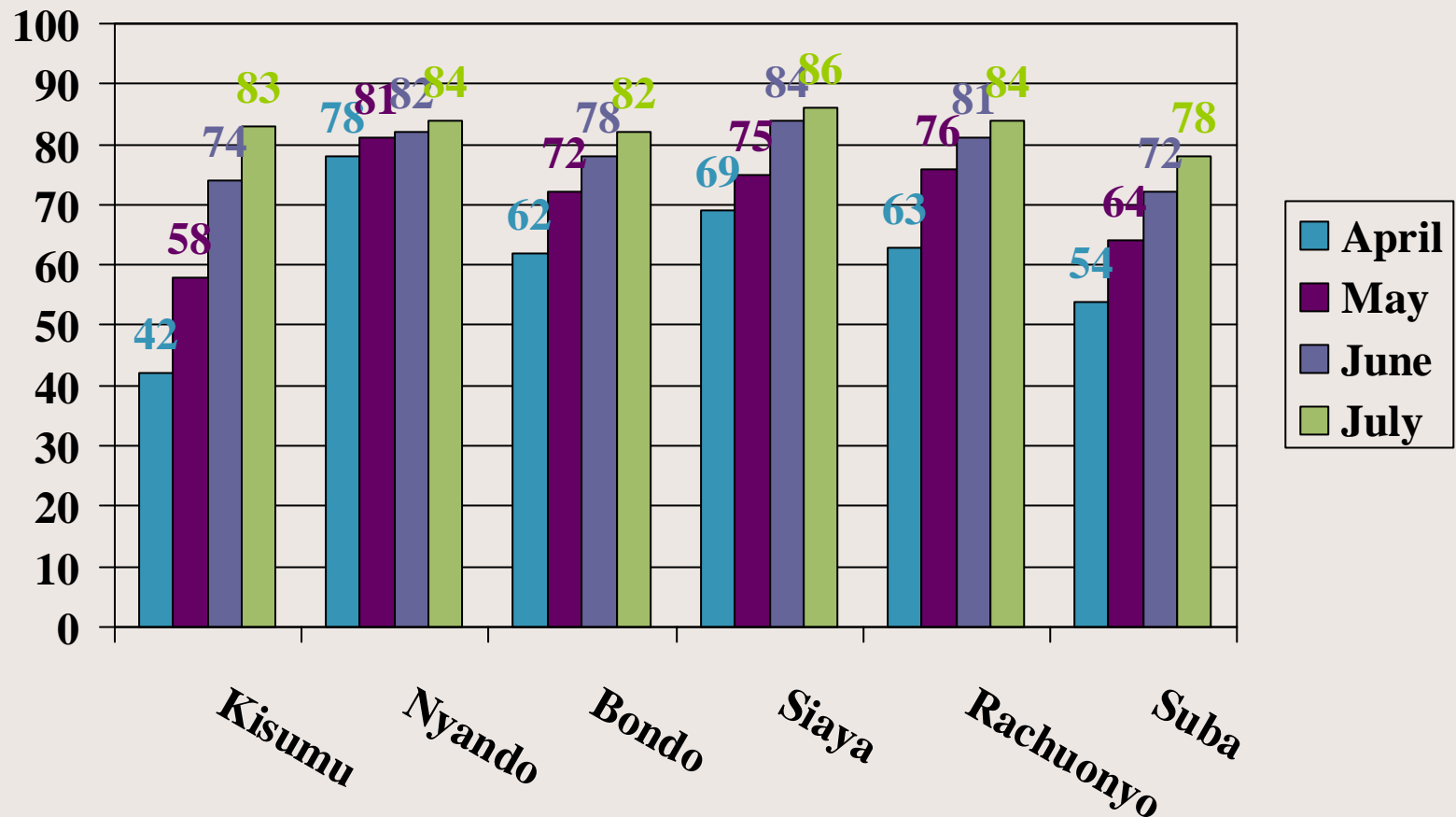
Number of School Dropouts by Reason



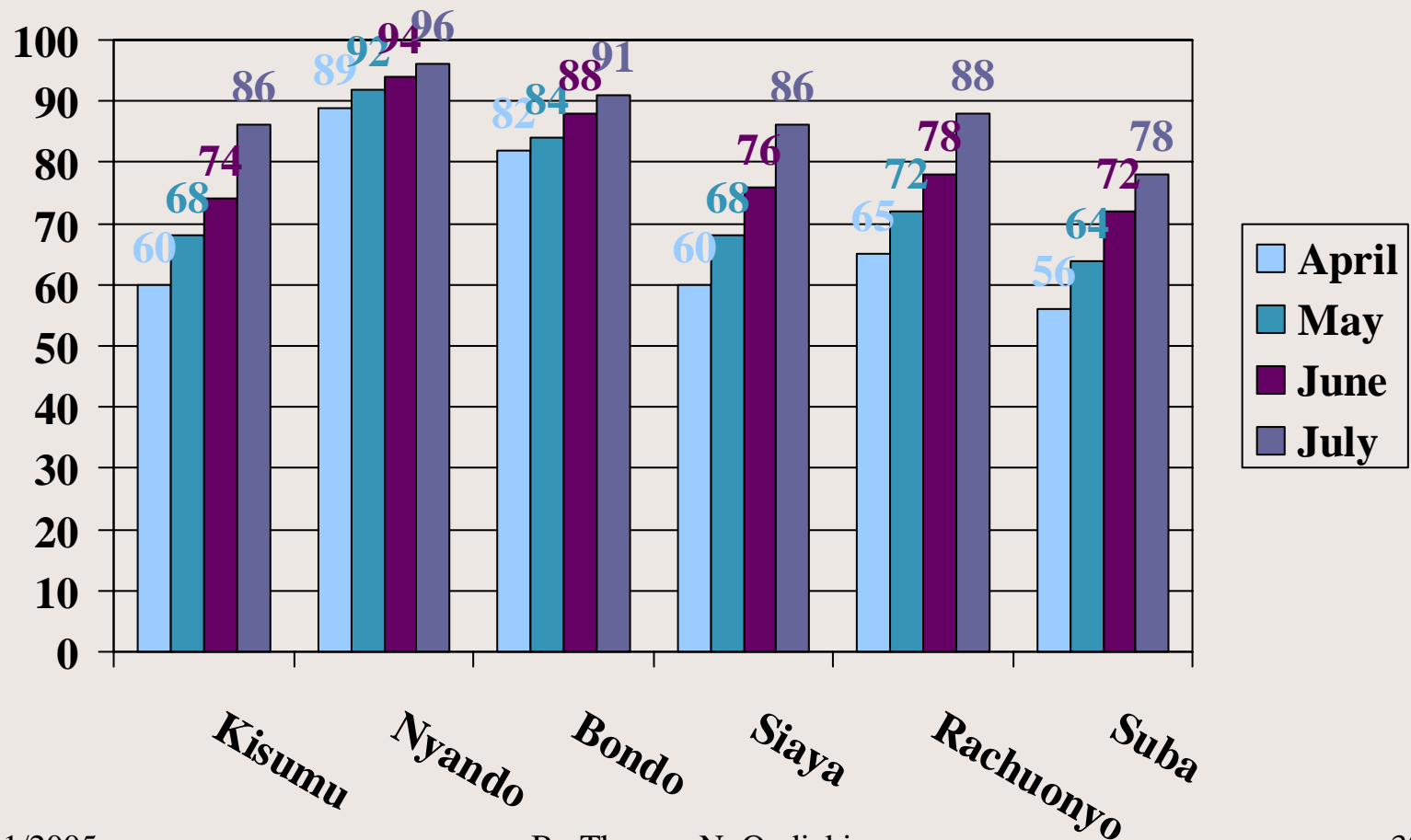
MONTHLY DATA (HIGHLIGHTS)

- ❑ Is based on the number of **HOUSEHOLDS REPORTING**
- ❑ The data was collected from the households with household **HEADS** as the main respondents
- ❑ It is **COLLATED** monthly onto the **CHALKBOARDS** at locational offices

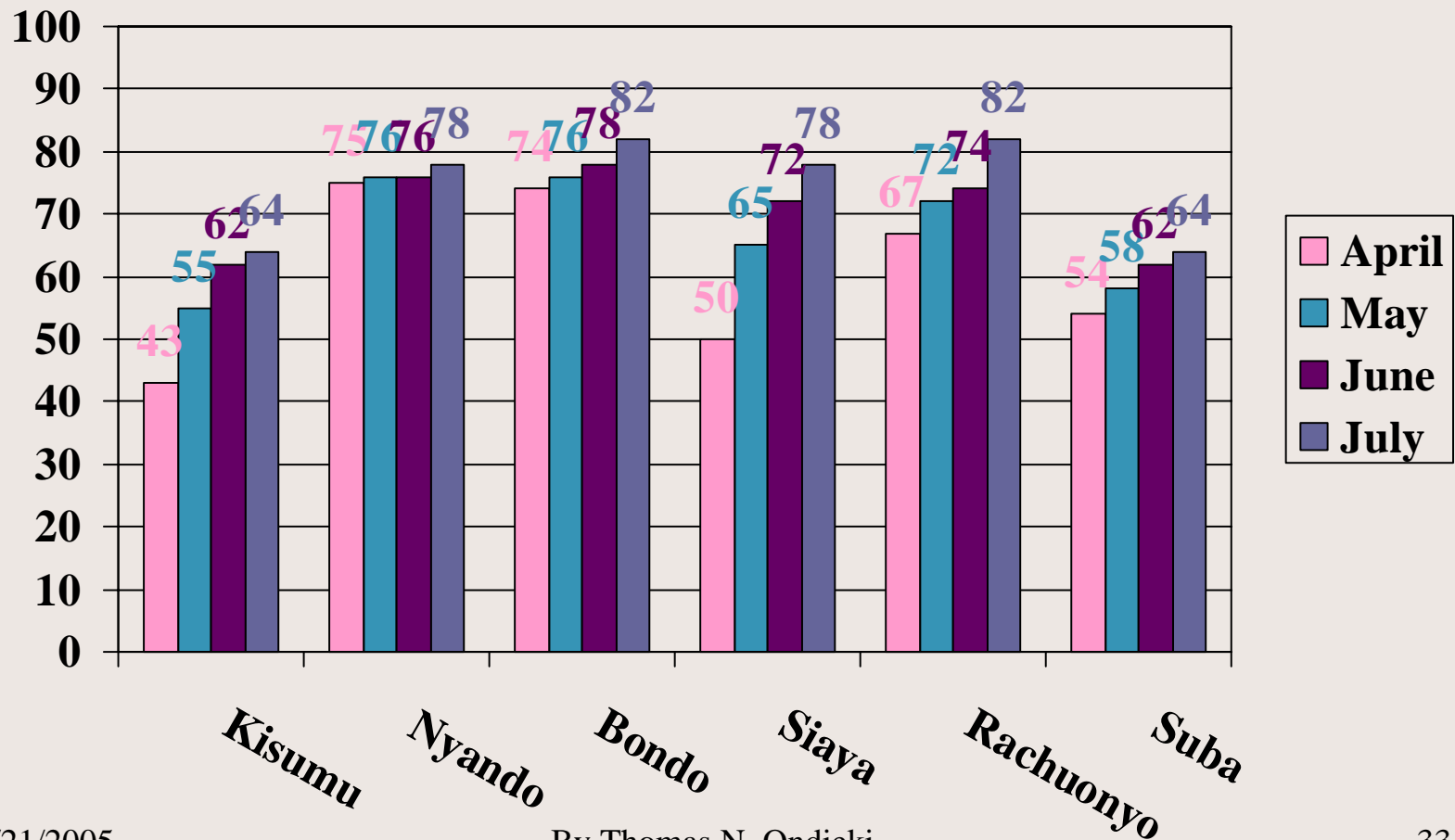
% of H/Holds Reflected Treating Drinking Water



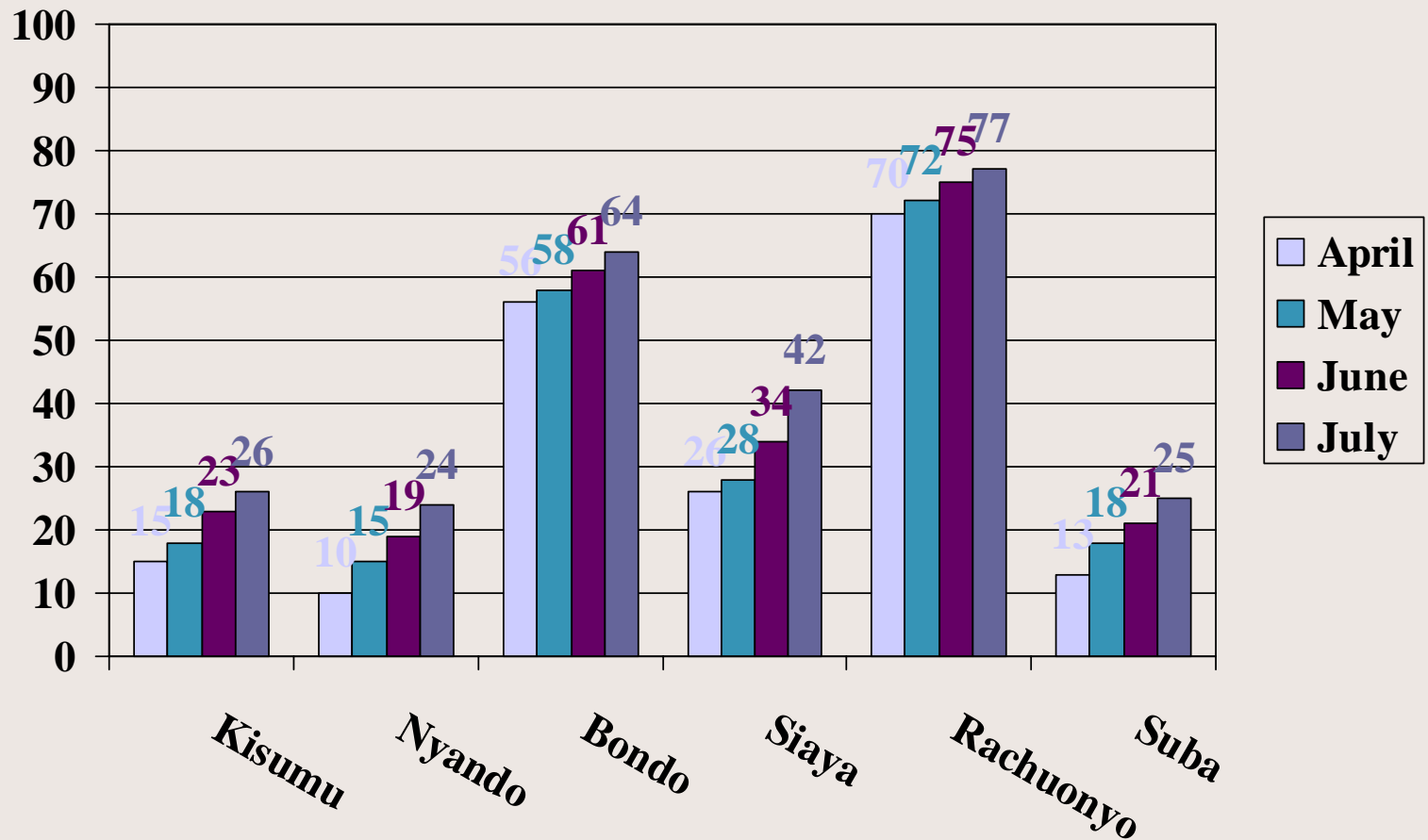
% of H/Holds Reflected Using Latrines



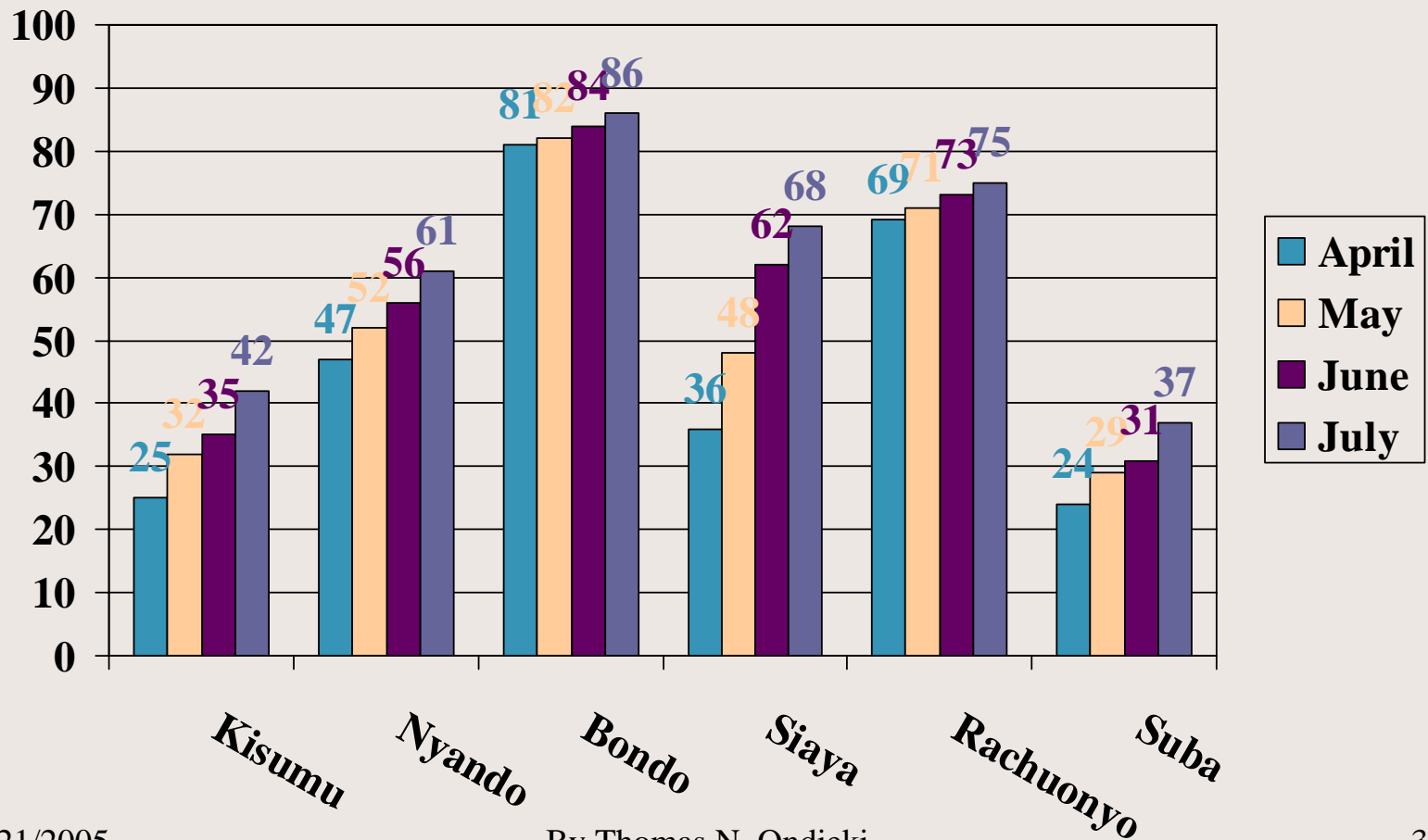
% of H/Holds Reflected Using Dish Racks



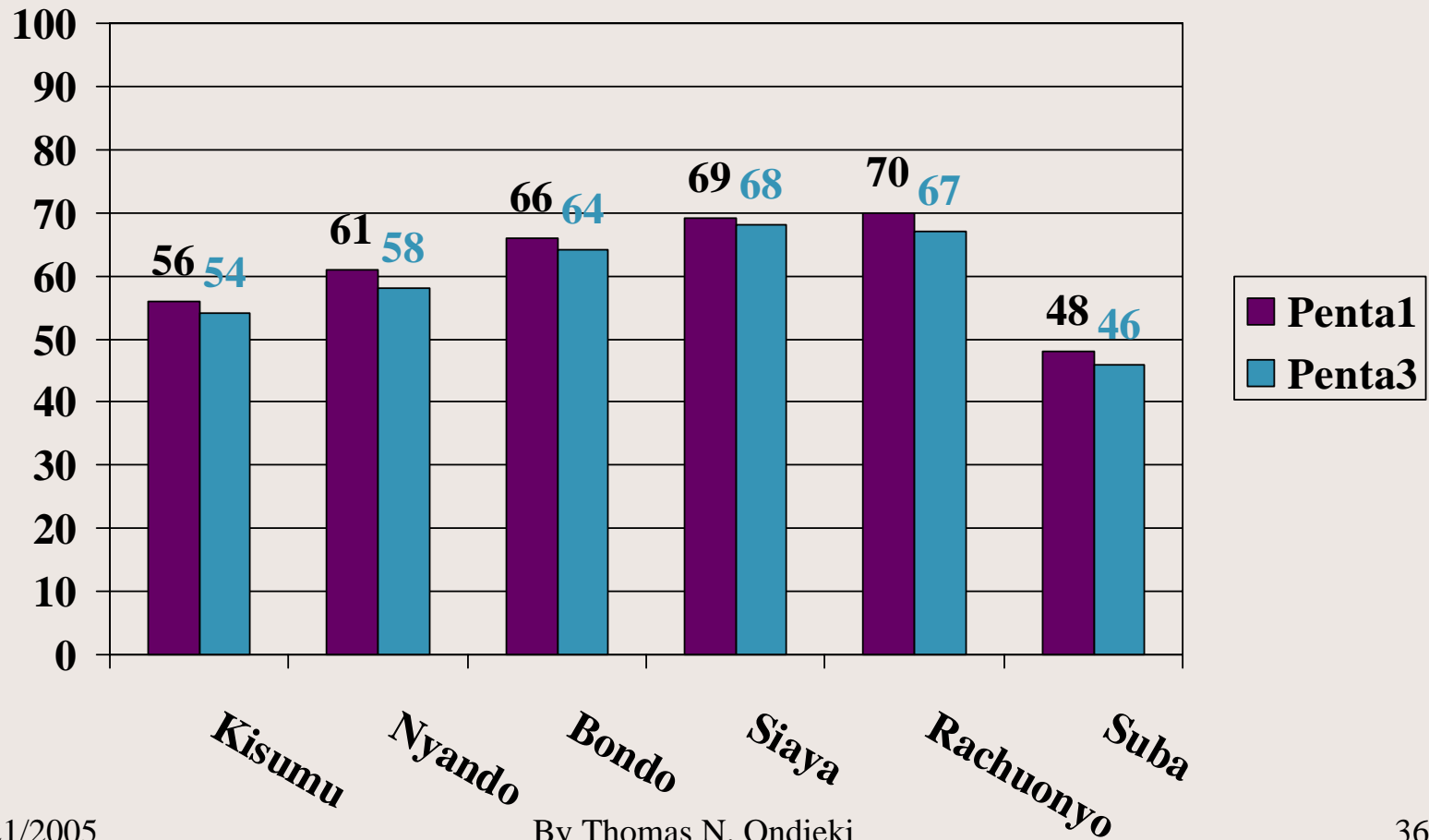
% of H/Holds Reflected Using Leaky Tin



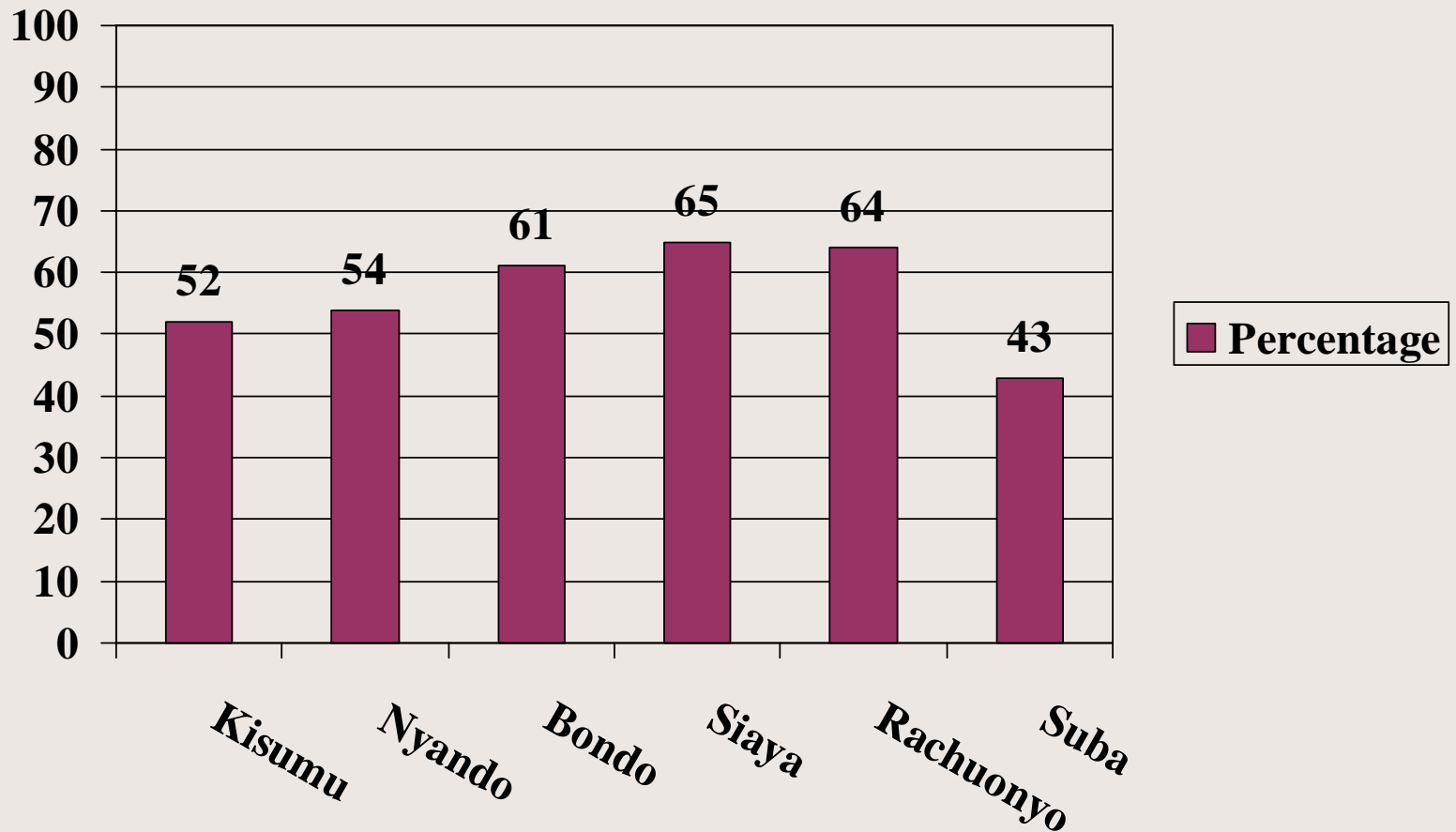
% of H/Holds Reflected with ITN



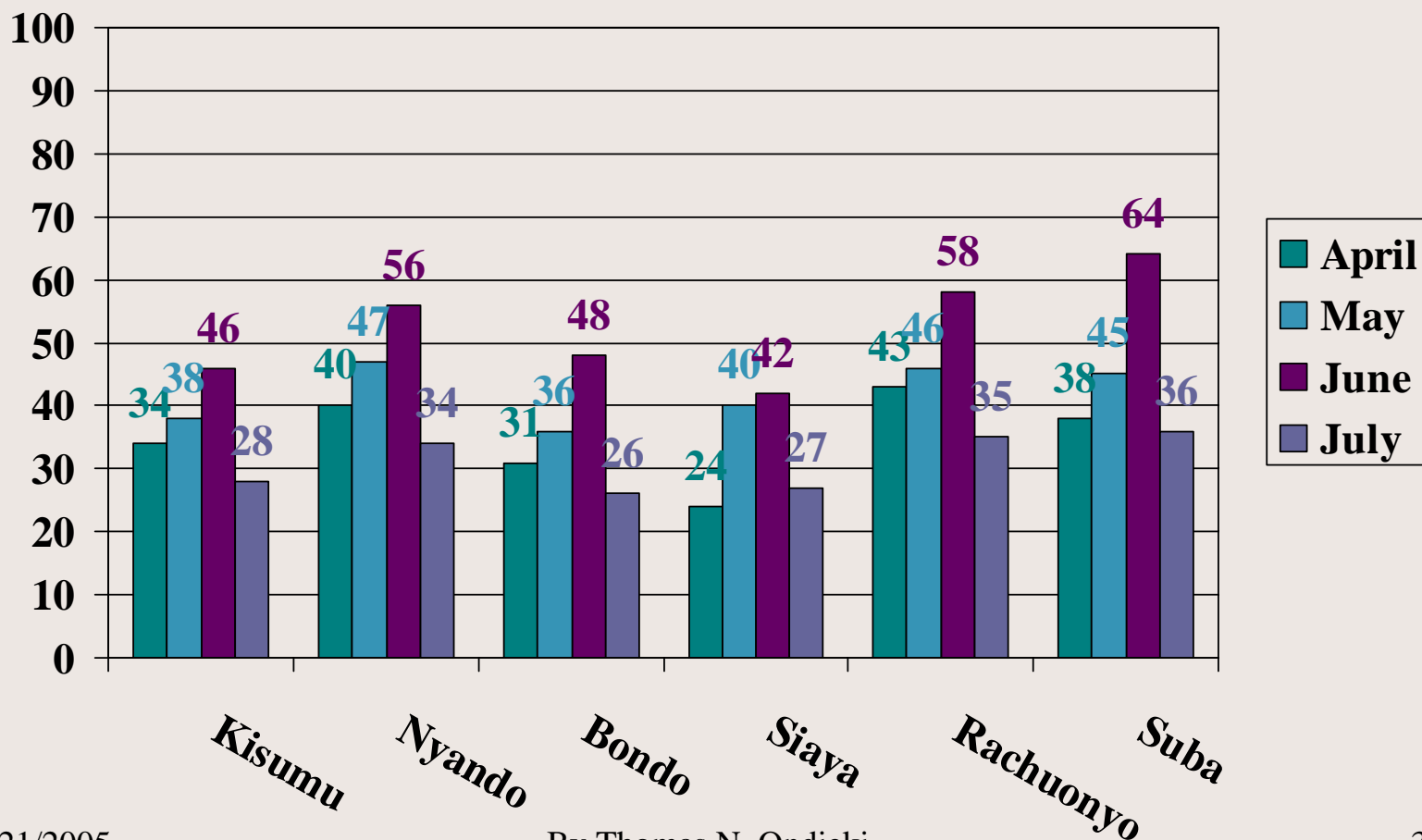
% of H/Holds Reflecting Penta1 & Penta3 Completed in the 4 Months



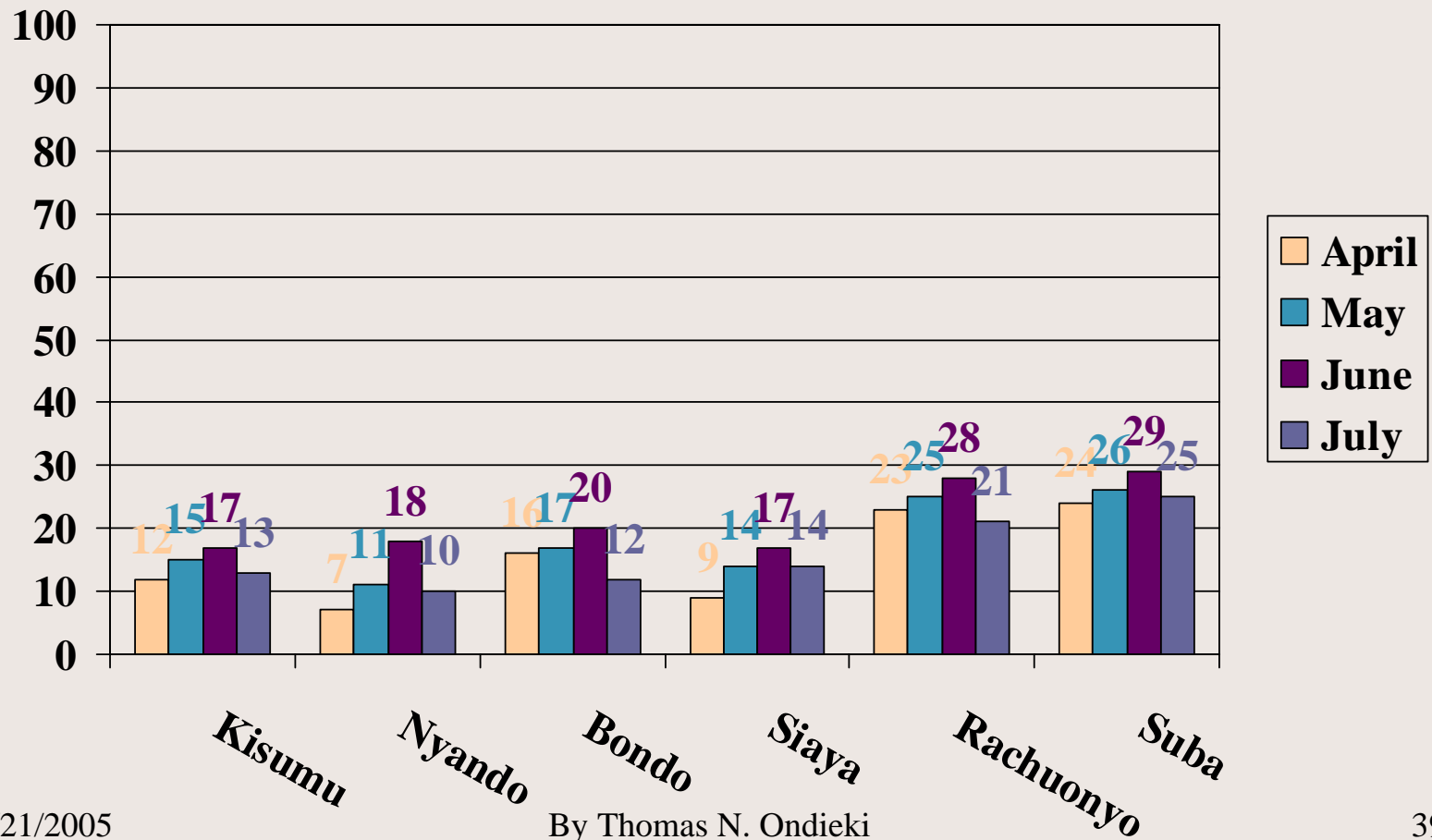
% of H/Holds Reflecting Measles Completed in the 4 Months



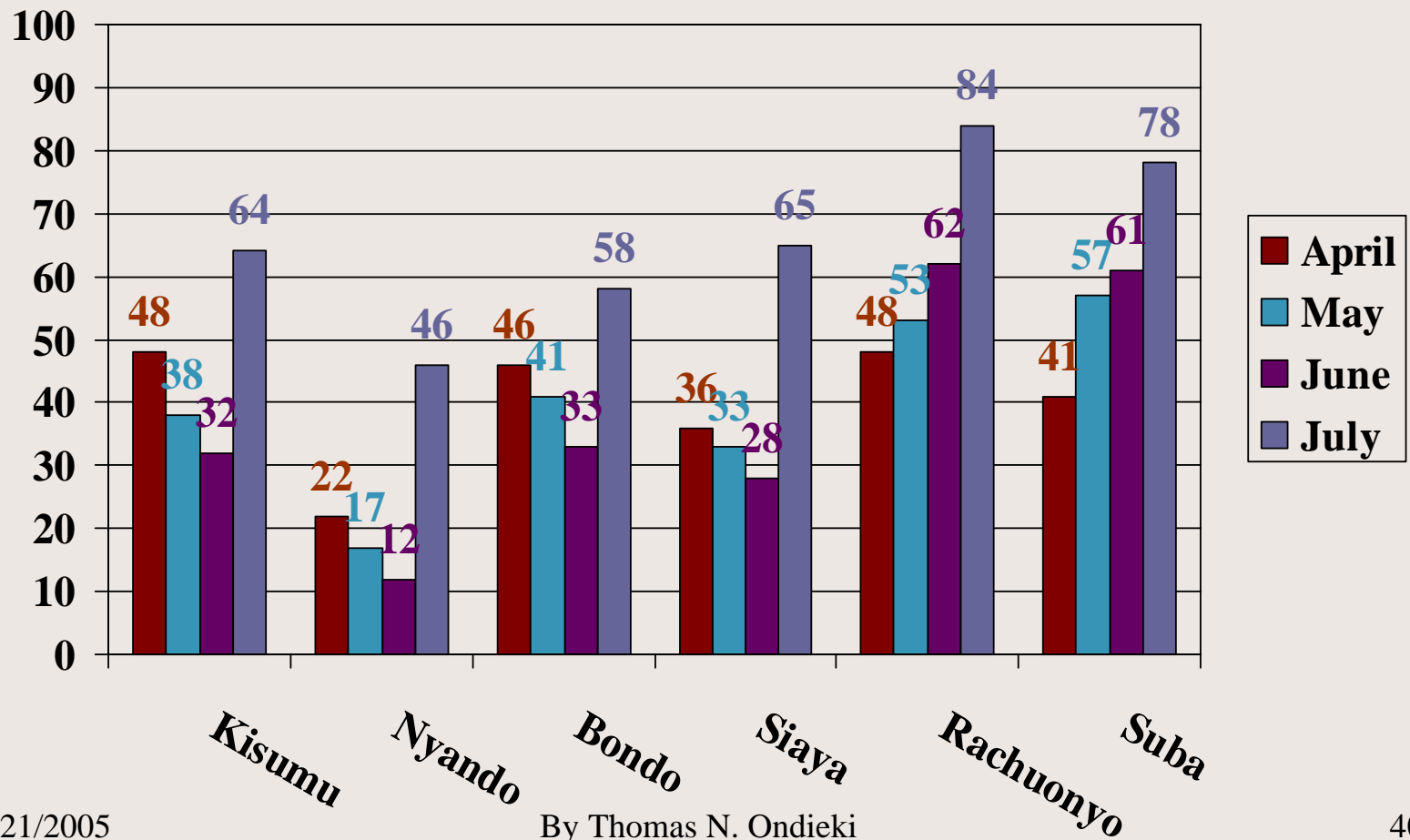
% of H/Holds Reflecting Malaria Cases



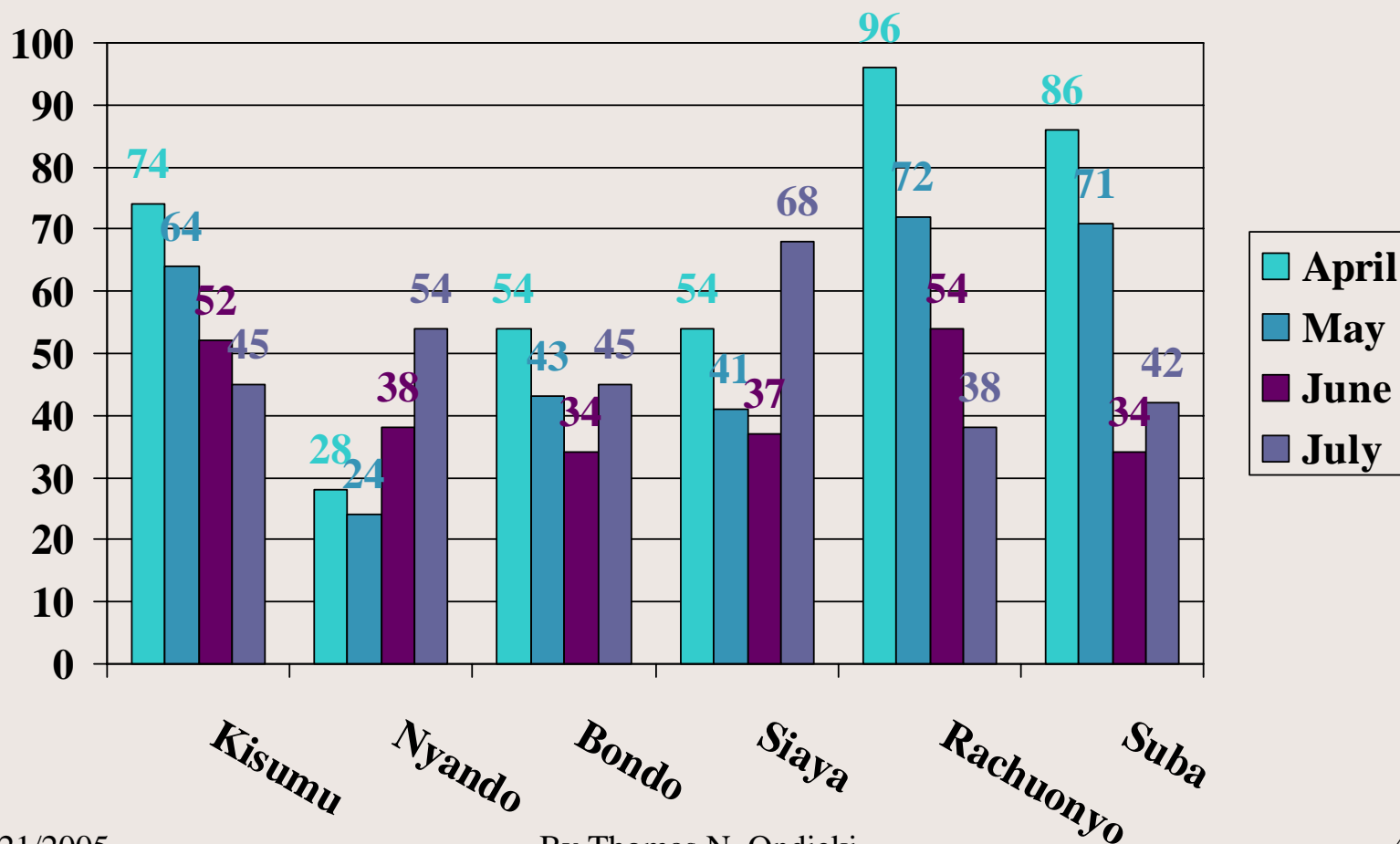
% of H/Holds Reflecting Diarrhoea Cases



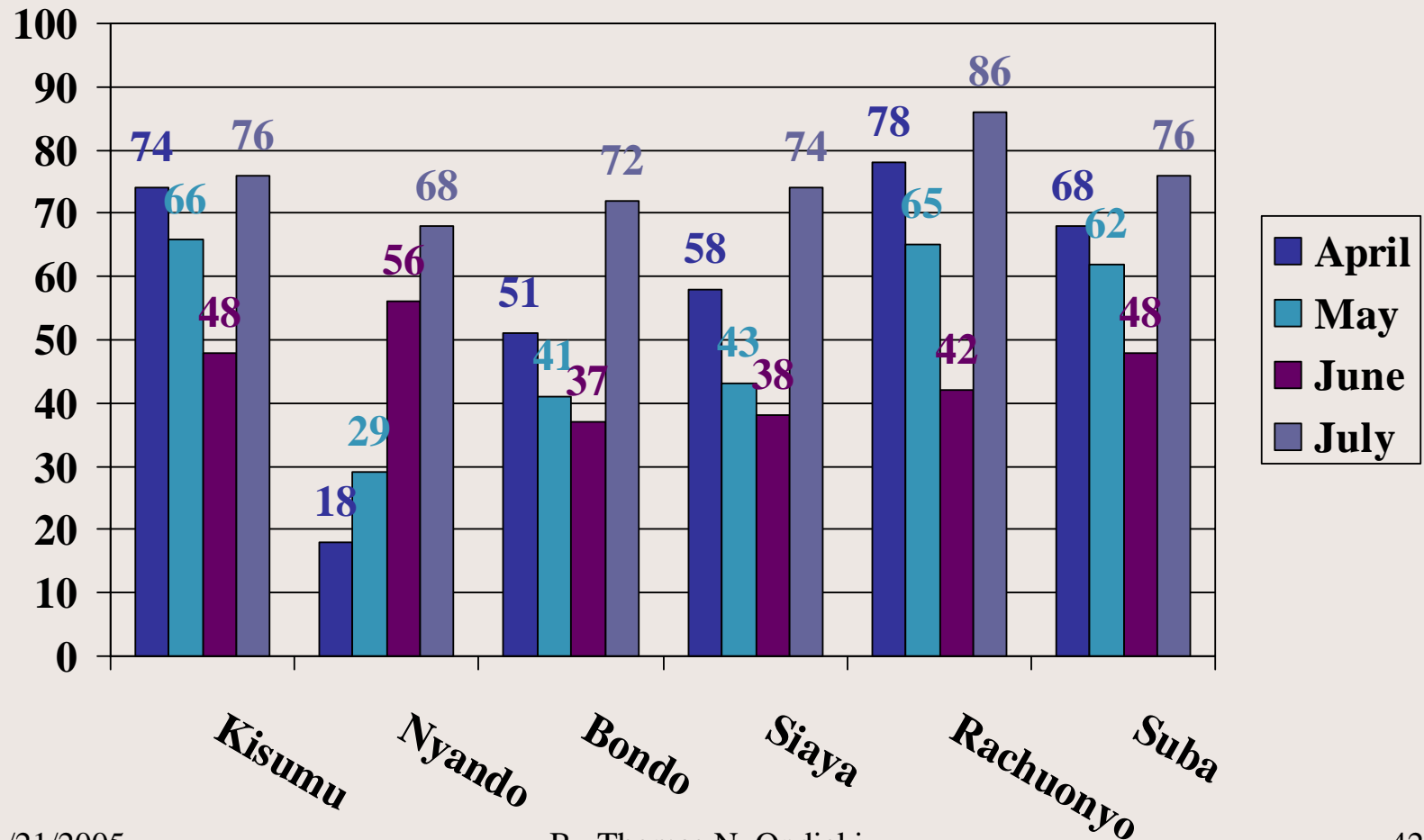
% of H/Holds Reflecting Millet/Sorghum in Stock



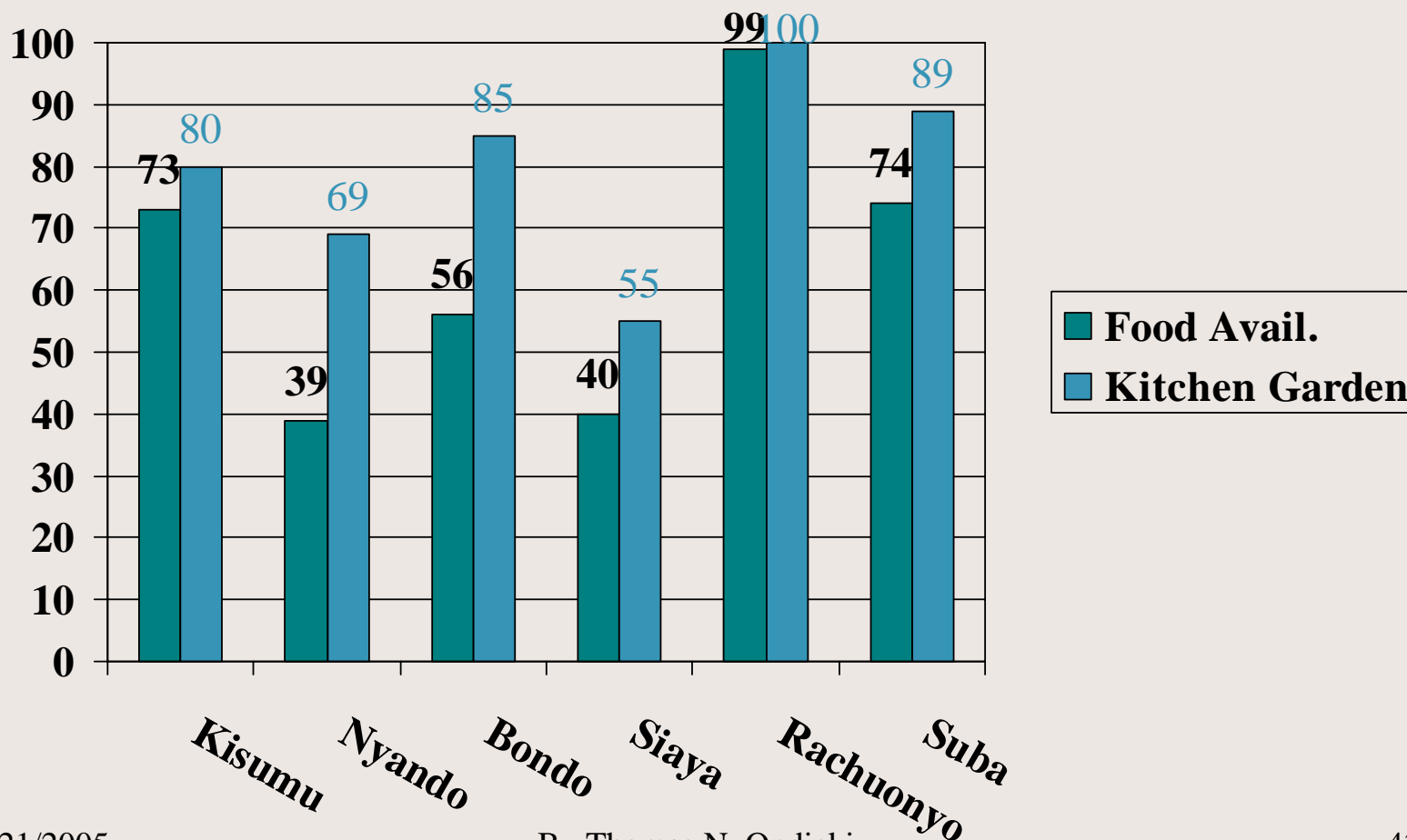
% of H/Holds Reflecting Maize in Stock



% of H/Holds Reflecting Beans in Stock



% of H/Holds Reflecting Food Sec. Crop & Kitchen Garden in 4 Months



WORKSHOPS

Summary Discussions

❑ *Strong Points*

- Data reflects the local situation
- Stimulates action
eg school dropouts,
leaky tins and
immunization,
Orphans &
Widows
- Creates
Competition

❑ *Challenges*

- Enhance Births and Deaths data **Accuracy**
- Chronic diseases & homecare information **Required**
- Expenditure data be **Replaced**
- **Continuing** education for CHWs
- **Include** village events like violence, spirituality
Enhance **Home visits**
- **M & E Meetings**
- Do registration of houses

Proposed changes by the Stakeholders

- ☐ ARI (Acute Respiratory Infection) to replace Pneumonia
- ☐ Deaths should reflect **Age Groups** and **Sex**
- ☐ Number of **Chicken** in Households to Replace Expenditure Data.
- ☐ New Registers to reflect **Proposed** changes

IMPORTANT MESSAGES

- ✓ We now have a source of evidence to help us in resource mobilization – District **Education Officer (DEO) Nyando**
- ✓ I want my Division to be in CBIS partnership information soonest – **DO Asembo Division**
- ✓ You can count on us to make it a reality – **District Statistics Officer Suba District**
- ✓ We shall ensure you get the support you need from the Provincial Admin. – **DO L. Nyakach**
- ✓ Let's all feel part of the success – **Public Health Officer Kombewa (PHO) (Kisumu)**

SUSTAINABILITY

- ✓ Data Sources to be maintained
- ✓ Data Collectors to continue
- ✓ Collation & Analysis to remain as is currently
- ✓ Dissemination to be enhanced through use of bulletin (RAMENY WENG)
- ✓ Usability - Encourage other stakeholders to use the information
- ✓ Pathways (Flow) to be encouraged as per the RELATIONSHIP model

CHALLENGES

- Costs associated with
 - Printing of Registers
 - Data entry
 - Printing of Bulletins (Color printer & inputs)
 - Data Storage (high capacity computer)
 - Continued enhancement of the system (programming)
 - Data analysis and associated software
 - Motivation of CHWs
 - Expansion of user base

A spiral-bound notebook with a light beige, textured cover. The spiral binding is on the left side, made of a dark metal. The cover has a subtle, repeating pattern of small, stylized floral or geometric motifs.

END

Thank You!