

# Tanzania Market Survey A: Descriptive Analysis

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## Market Survey A Data: First Look

- Market survey A is the key informant interview
- Key informant interview with the market manager or other key person who is knowledgeable about the market, focusing on the general characteristics of the market. (1 survey per market)
- At each market, the field team will identify and arrange to meet with the market manager/person in-charge to introduce the project and obtain permission to collect data, and then conduct a short interview

### 1) What fields are contained in the survey data?

---

x  
fid  
date  
country  
district.region.code  
ward.code  
village  
market.name  
market.type  
name.of.respondent  
1.location.brought.from  
2.location.taken.to.  
3a.no.sheep.sold.per.day  
3b.no.goats.sold.per.day  
4.seasonal.variation.in.trade  
4.if.yes.describe  
gps.coordinates.of.the.market  
unique.row.identifier.uuid.  
ward.name  
district.region.name

---

### 2) Is the market name variable unique, does it correspond to market id variable?

- Are there any rows which have the same market name?

date	district.code	district.name	ward.code	ward.name	village	market.name	name.of.respondent
2022-05-19	62	SIMIYU	620117	DUTWA	Igaganulwa	Dutwa	Philemon togoro
2022-05-21	68	MWANZA	680101	NGUDU	Kakola	Dutwa	Deogratius makuliga

date	district.code	district.name	ward.code	ward.name	village	market.name	name.of.respondent
2022-05-22	61	KATAVI	610106	MAJIMOT	Kitupa	Majimoto	James Mlelwa
2022-05-22	61	KATAVI	610106	MAJIMOT	Kitupa	Majimoto	James Mlelwa

- The market names Dutwa and Majimoto each appear twice.
- The market **Dutwa** appears to be an error in the market.name field. Whilst the market name is the same, village, ward name & code, district code and name of respondent is different for the two entries. Suggest correcting the market name to dutwa."village": dutwa.Kakola and dutwa.Igaganulwa
- The market **Majimoto** appears to be a duplicate (2 surveys conducted at the same market). The market name, village, ward name &is code, district code and name of respondent are the same for both entries. The question answers are different.
- Add variable "market.name.corrected" with dutwa.kakola and dutwa.igaganulwa as entries
- See market map below with duplicate locations pinpointed.

### 3) Is the market name the same as the village name?

- Below is a list of markets which have names distinct to the village name (all other entries have the same name)
- In some cases the market & village names are different due to typos, in others they appear genuinely distinct

village	market.name
-- Mwasamba	Mwasamba
Bahi Sokoni	Bahi
Chalisuka	Madibira
Chibwini	Mwena
Idandu	Kikurukutu
Igaganulwa	Dutwa
Igangwe	Shauri moyo
Ihang'a	Rujewa
Itenka A	Itenka
Kakola	Dutwa
Kinyonga	Inyonga
Kiswago	Salamiti
Kitupa	Majimoto
Kitupa	Majimoto
Kivukoni	Chiwale
Majembe	Mkundi
Majengo	Mtonya
Mamba	Shinyanga
Manawa	Misasi
Maneme	Nanyumbu
Miyomboni	Mofu
Mtandi B	Mtandi
Mwongozo	Nangoo
Nagaga	Namalenga
Nakarara	Makong'onda
Namhang'a	Mbenja
Ndagalu	Kabila
Ntungwa	Mbao
Tupendane	Tulindane

#### 4) Do any wards have more than 1 market?

- Below is a list of wards which have more than one market: Mtandi, Majimoto, Mnavira
- Majitmoto is the repeat market name entry from above

district.region.code	ward.code	ward.name	village	market.name
61	610106	MAJIMOTO	Kitupa	Majimoto
61	610106	MAJIMOTO	Kitupa	Majimoto
64	640102	MNAVIRA	Mnavira	Mnavira
64	640102	MNAVIRA	Muhesi	Muhesi
64	640113	Mtandi	Mtandi B	Mtandi
64	640113	Mtandi	Madeco	Madeco

#### 5) What is the type of the markets?

- Market type:
  - *Primary market* - located close to the place of production or rearing of small ruminants, usually located within villages or small towns.
  - *Secondary market* - usually found in suburbs, animals are transported some distance from their place of production/rearing to the market.
  - *Tertiary or final consumption market* - generally located in towns or populated areas to supply urban populations, animals are transported quite a long-distance from their place of production/rearing.
- All markets are given as Type 1: Primary Markets (note the buyer-seller questionnaire is not consistent with this)

market.type	n
1	85

#### Market Maps:

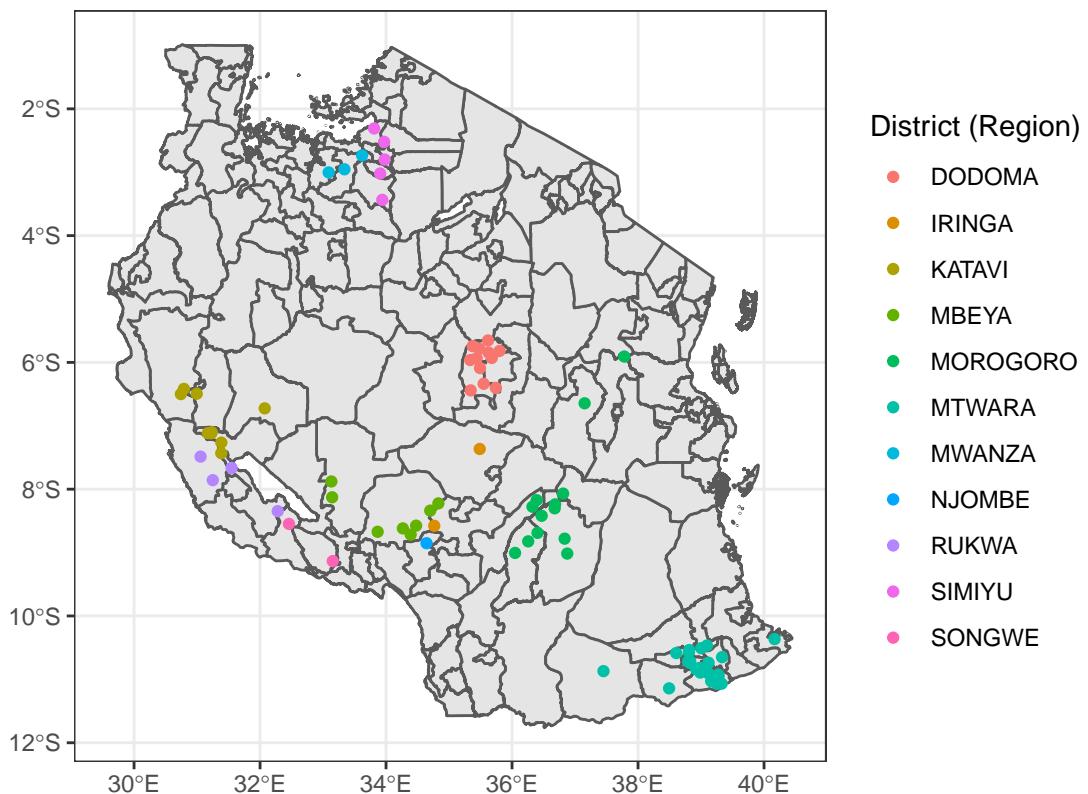
##### Map of markets colour coded by region

- 6 regions were targeted for surveys
- Regions were targeted purposively as locations where surveys had not previously taken place (not well studied)

Regions Surveyed: - NB: this table includes regions where market surveys took place which were not stated as target regions - Target regions are 1-6

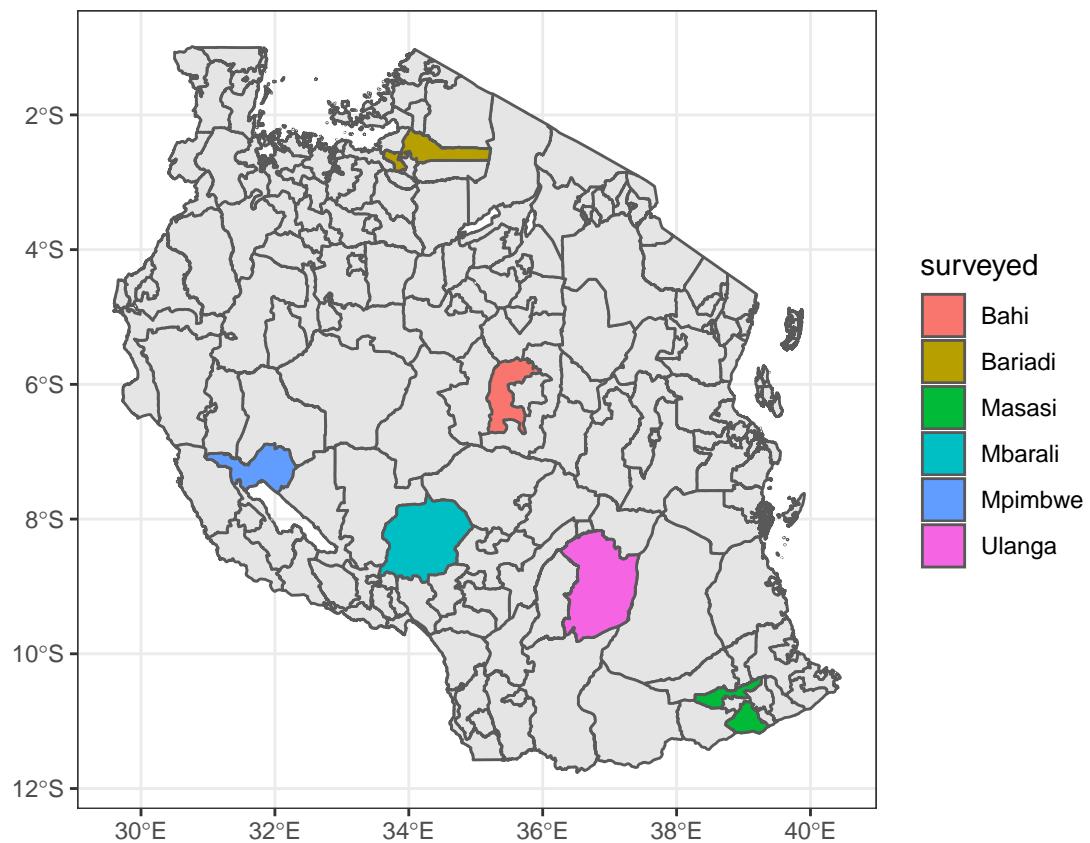
region	Location..study.site.
KATAVI	West. Mpimbwe district in this region
SIMIYU	North. Bariadi is the regional capital.
MBEYA	West/South-West. Mbarali District in this region.
MTWARA	South (South-East). Masasi district in this region
MOROGORO	Centre (Centre-East). Ulanga district in this region.
DODOMA	Centre (Centre-East). Bahi district in this region.
MWANZA	North
NJOMBE	South (South-West).
RUKWA	East (South-East).
SONGWE	East (South-East).
IRINGA	Centre

## Location of markets, colour by region



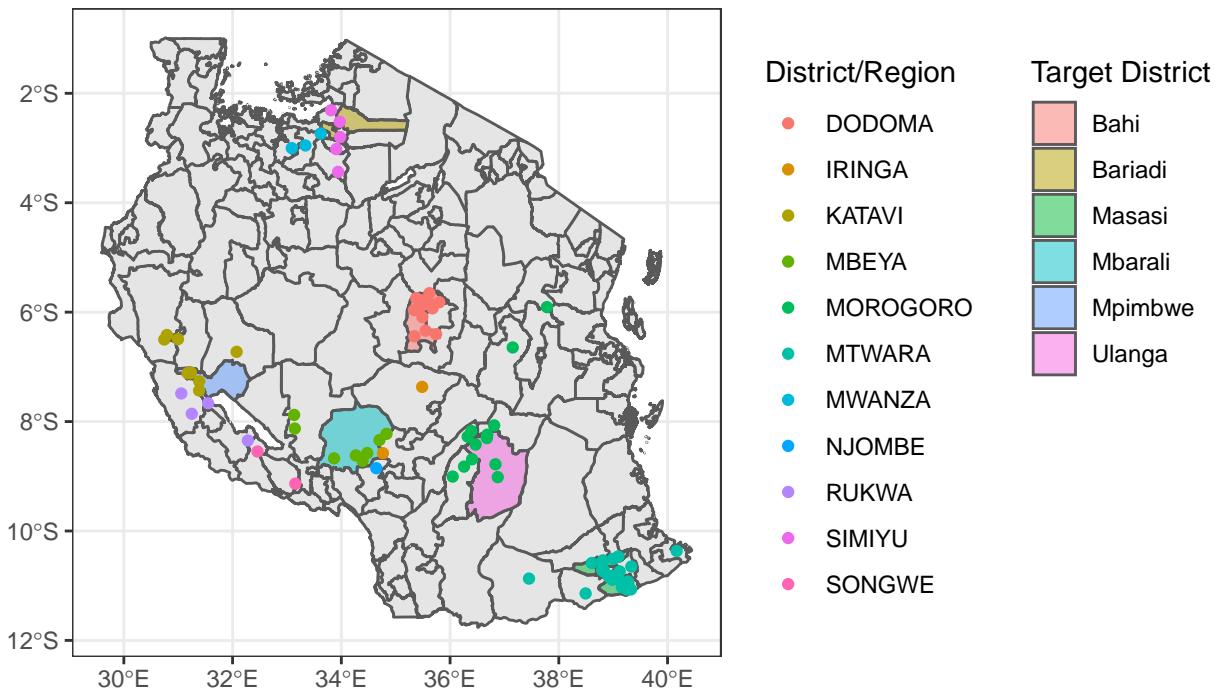
## Tanzania Map with *targeted* regions highlighted

- Map of tanzania highlighting regions which were targeted for surveys



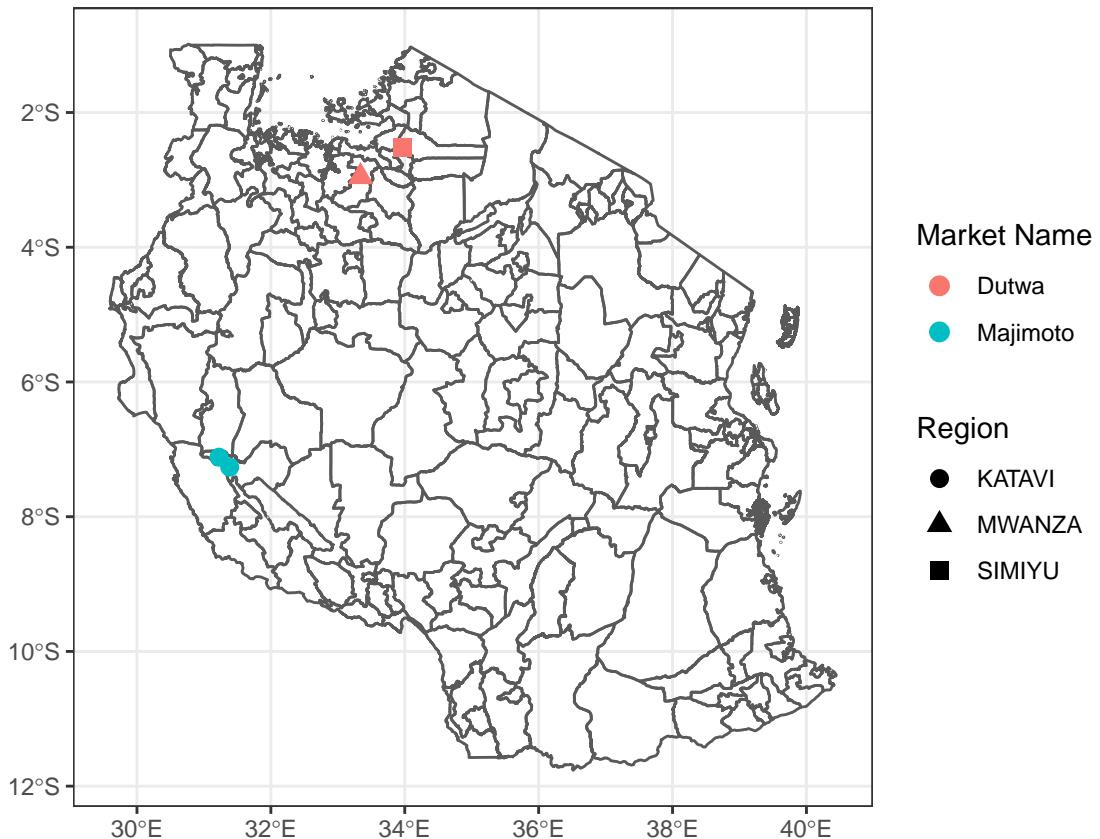
## Regions targeted for market survey + market locations

- Map of Tanzania highlighting regions targeted for survey, and market survey locations (colour coded by region)



### Map of location of duplicate markets

- For markets identified as duplicates verify whether they are the same or different locations
- Majimoto market surveys spatially close together (consistent with being 1 market)
- Dutwa market surveys spaced further apart (consistent with being 2 distinct markets)

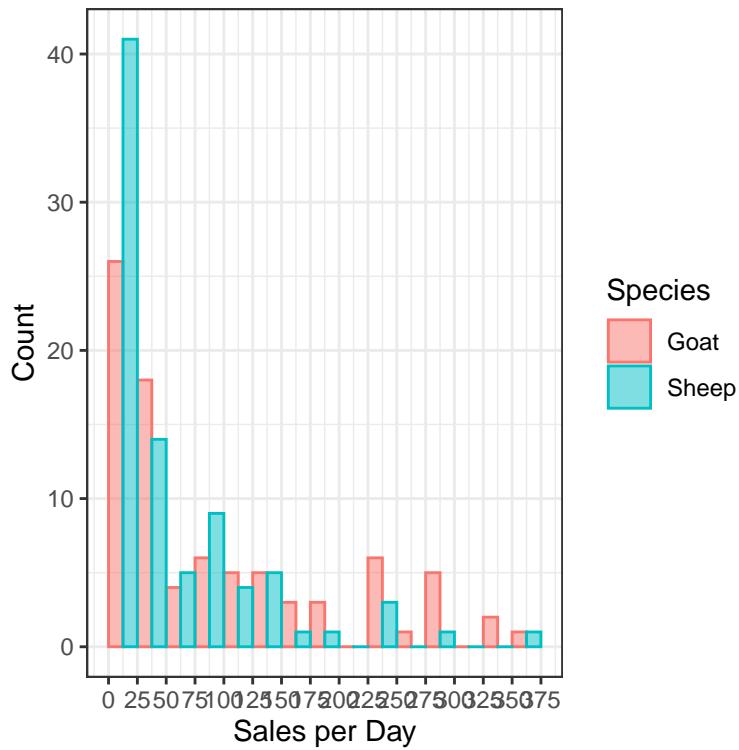


### Sheep and Goat sales per day

- The total number of sheep and goats sold in total across all markets
- More goats sold:

Species	Total_Sales
Goat	8453
Sheep	5003

### Reported total sales of sheep and goats per day at surveyed markets



*Small Ruminant Sales interpretation - ....*

Is there seasonal variation in trade?

4.seasonal.variation.in.trade	YN	n	proportion
0	N	7	0.0823529
1	Y	78	0.9176471

```
## # A tibble: 6 x 2
##   `^4.seasonal.variation.in.trade` `4.if.yes.describe`
##   <dbl> <chr>
## 1 1     Utofauti unasababishwa na hali ya soko na hal-
## 2 1     Wakati wa njaa na wakati ambapo wafuagi wanasi-
## 3 1     Wakati wafugaji wanapokuwa na shida ya chakul-
## 4 1     Mavuno wachache, mauzo pamba wengi.
## 5 1     Mifugo huwa Michache mnadani wakati wafugaji-
## 6 1     Baada ya mavuno mauzo yanaongezeka
```