

# Tanzania Market Survey A: Descriptive Analysis

Beth Savagar

2023-02-07

## Market Survey A Data: First Look

- Market survey A is the key informant interview

*From the EcoPPR Field Guide:*

- 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

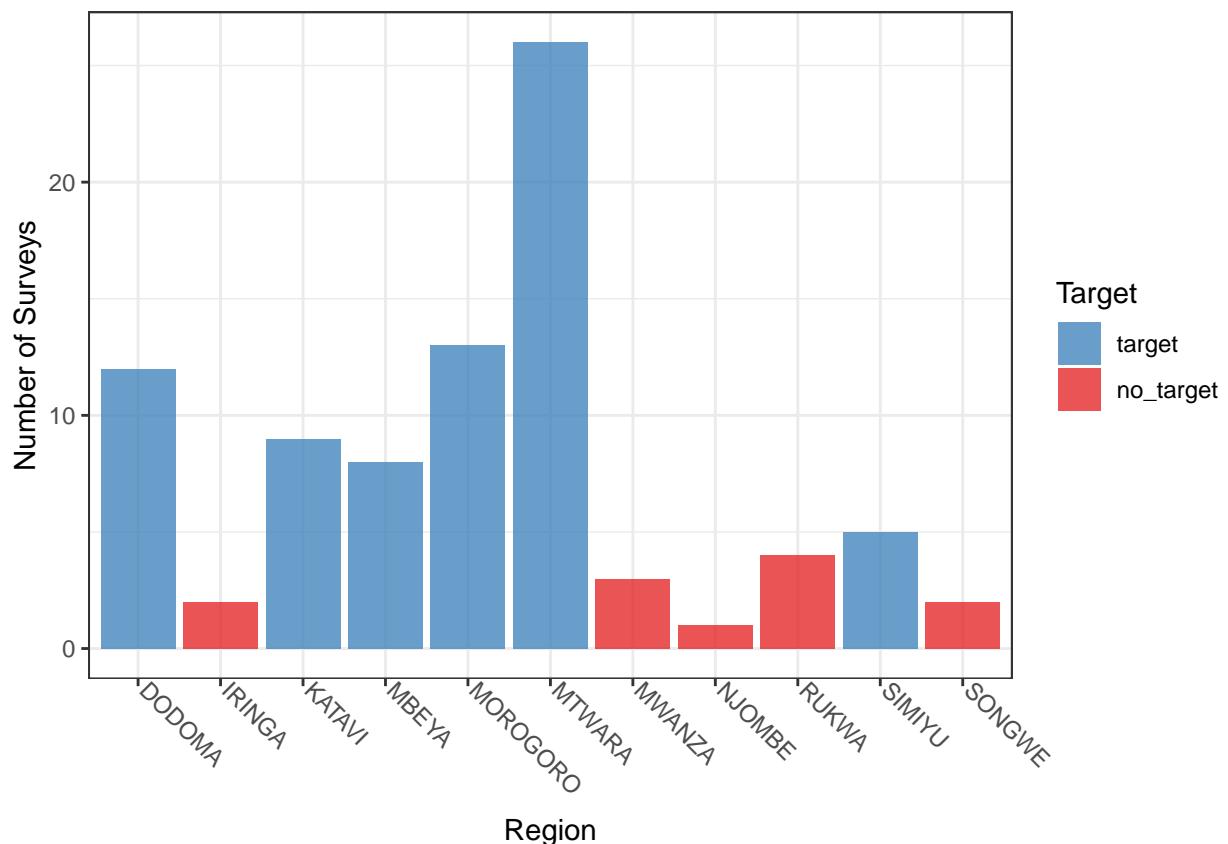
### 2) How many observations are there?

- How many surveys were completed (i.e. how many markets were visited?)

## [1] 85

- How many surveys were completed in each **region**?
  - NB: first 6 regions were those that were targeted...
  - *Why is the number of surveys so uneven?*

district.region.name	target	n
DODOMA	target	12
KATAVI	target	9
MBEYA	target	8
MOROGORO	target	13
MTWARA	target	26
SIMIYU	target	5
IRINGA	no_target	2
MWANZA	no_target	3
NJOMBE	no_target	1
RUKWA	no_target	4
SONGWE	no_target	2



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

- Are there any duplicated market names in the data?

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
2022-05-22	61	KATAVI	610106	MAJIMOT	Kitupa	Majimoto	James Mlelwa

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

- Most of the 85 markets are unique...
- 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.

#### 4) Is the market name always the same as the village name?

- In most cases - yes - the market name is the village name
- Below is a list of markets which have names distinct to the village name (29 examples)
- In some cases the market & village names appear to be the same except for a typo, 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
Ihangi	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
Namhanga	Mbenja
Ndagalu	Kabila
Ntungwa	Mbao
Tupendane	Tulindane

#### 4) How many markets per ward?

- A ward is the administrative level above a village, how many markets were surveyed in each Ward?
- In most wards only one market was surveyed
- Below is a list of wards which have more than one market: Mtandi, Majimoto, Mnavira
- NB: 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)

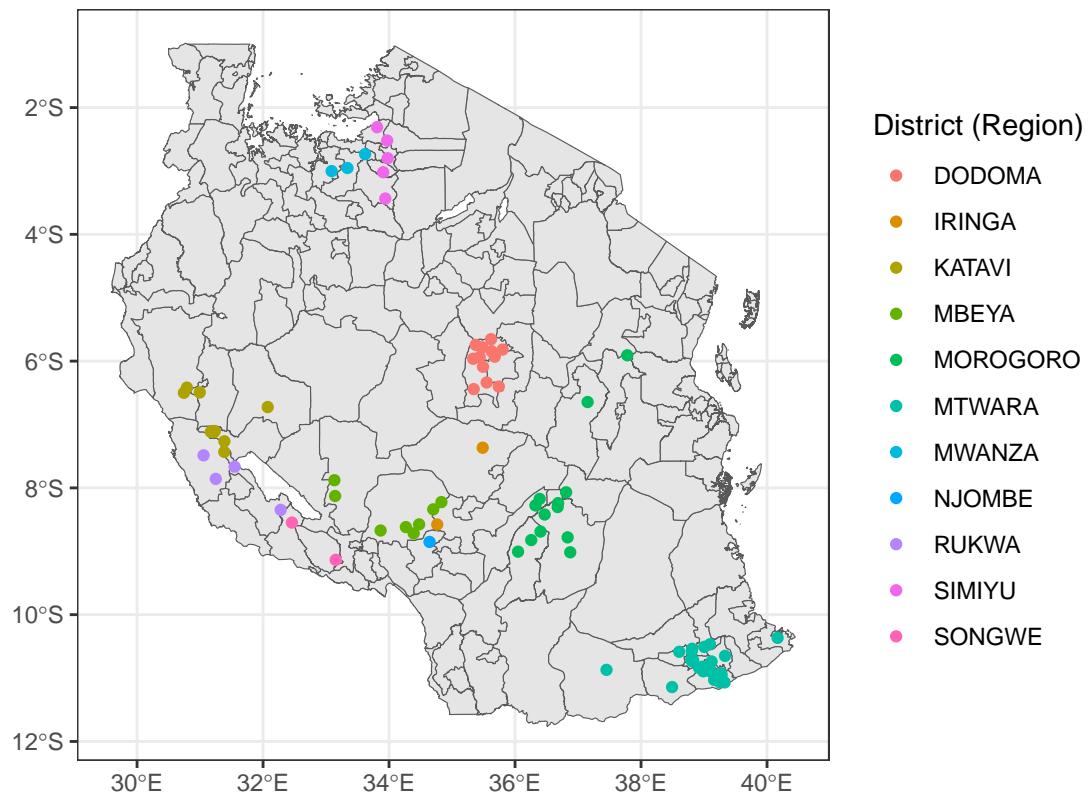
#### Regions Surveyed:

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

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

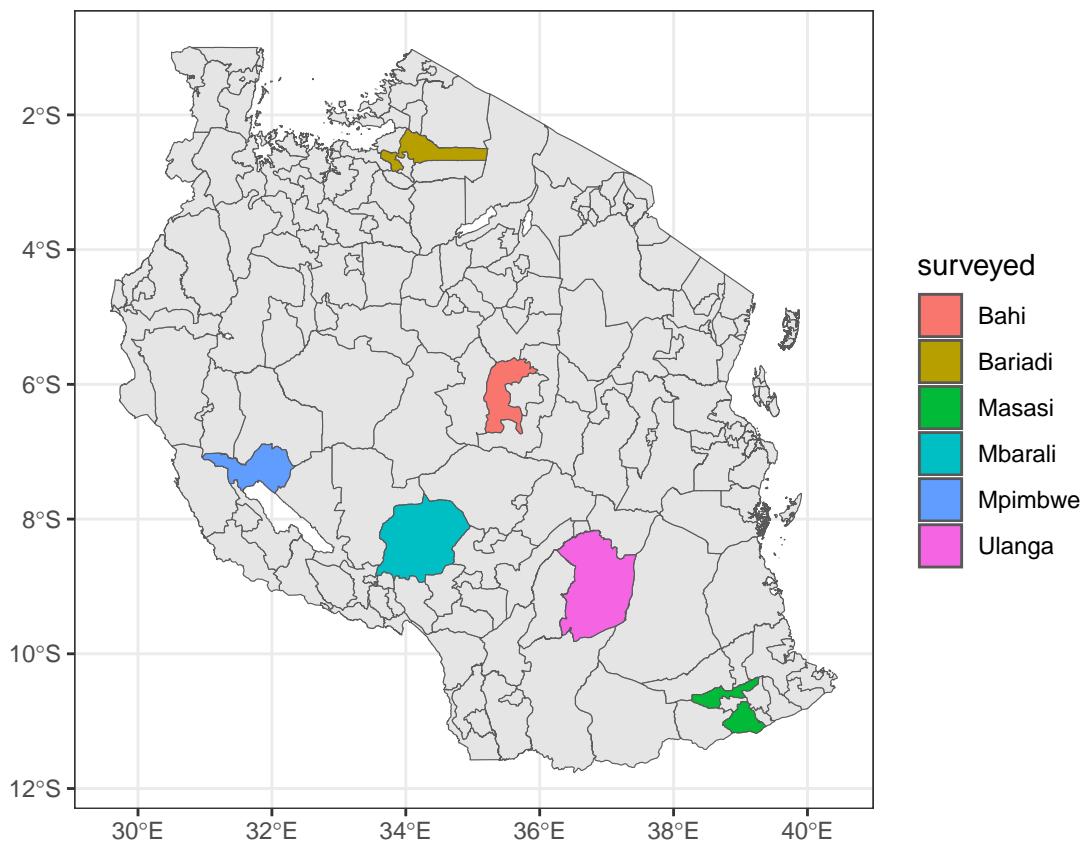
region	target	Location..study.site.
SONGWE	non_target	East (South-East).
IRINGA	non_target	Centre

### Location of markets, colour by region



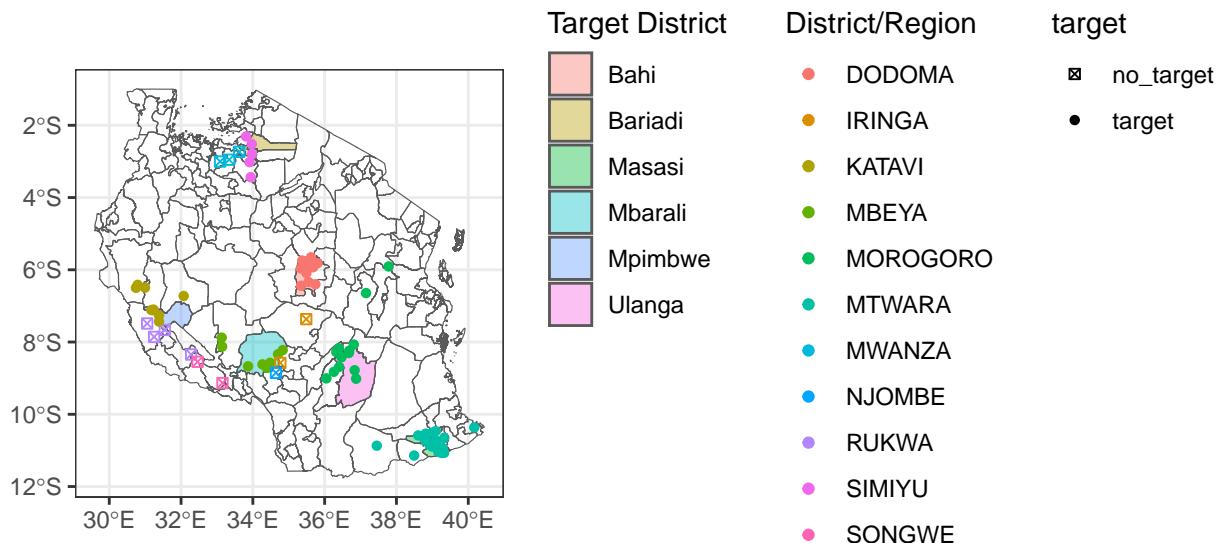
### Tanzania Map with *targeted* regions highlighted

- Map of tanzania highlighting regions which were targeted for surveys



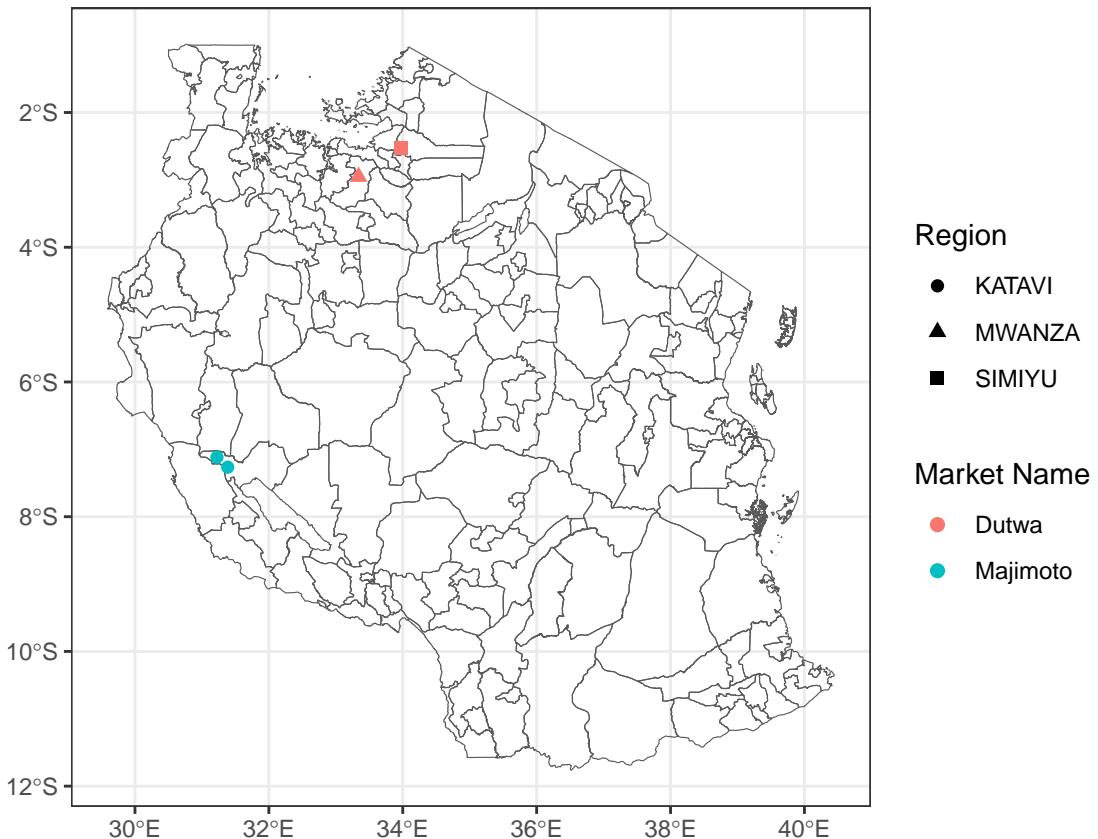
## Regions targeted for market survey + market locations

- 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)



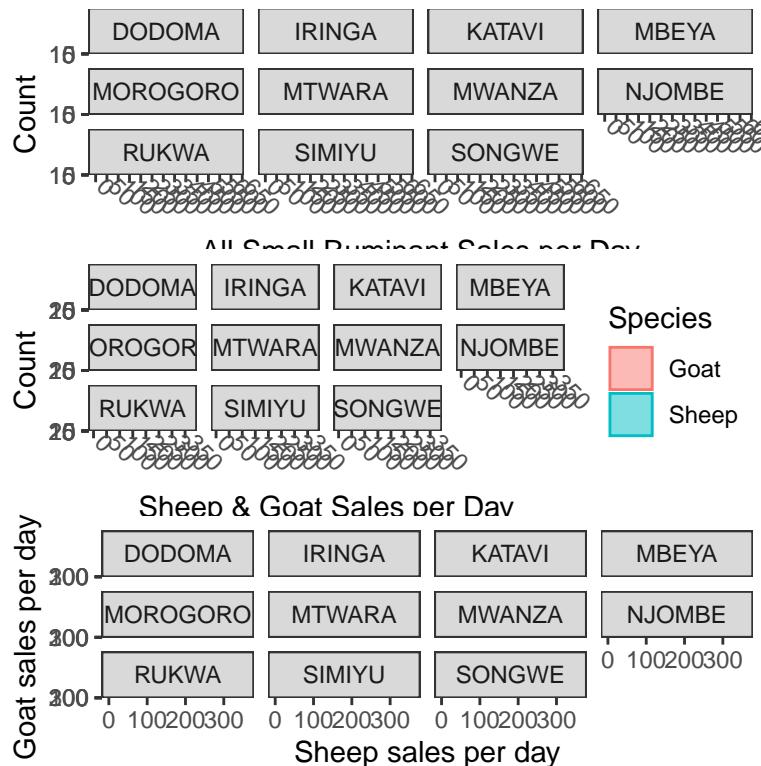
### Sheep and Goat sales per day

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

Species	Total_Sales
All	13456
Goat	8453
Sheep	5003

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

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



*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

For those which state seasonal variation what details are provided? - *Translate the below*

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#### 4.seasonal.variation.in.trade

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- 1 Utofauti unasababishwa na hali ya soko na hali ya uchumi wa wananchi. Pia kugongana kwa ratiba za minada kunasababisha kupungua au kuongezeka kwa mbuzi na kondoo wanaoletwa katika mnada huu. Kwa kawaida Mifugo wanakuwa wengi kipindi cha njaa na kupungua wakati wananchi wana chakula.
- 1 Wakati wa njaa na wakati ambapo wafuagi wanashughuli za mashambani mifugo huuzwa kwa wingi ukilinganisha na kipindi ambapo wafugaji wanakuwa na chakula. Lakini pia ikitokea ratiba za minada zimegongana pia idadi ya mifugo hupungua
- 1 Wakati wafugaji wanapokuwa na shida ya chakula na wakati wa shughuli za mashambani mifugo inauzwa kwa wingi ila wanapokuwa na chakuka hawauzi sana mifugo hivyo idadi ya mifugo mnadani inapungua
- 1 Mavuno wachache, mauzo pamba wengi.
- 1 Mifugo huwa Michache mnadani wakati wafugaji/wakulima wana chakula cha kutosha na mifugo inauzwa kwa wingi wakati wa njaa

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~~4.seasonal.variety.resides.in.the~~

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1 Baada ya mavuno mauzo yanaongezeka

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**What does the market A data look like for locations brought from and to?**

market location.brought.from	2.location.taken.to.
KongoKongogo, Babayu ya Bahi, Lukali, Tinai, wilaya ya Chemba,	Kongogo, Babayu ya Bahi, Wilaya ya Chemba, Dodoma mjini, Kizota, Pugu, Kibaha
MnkolaMnkola, Mpamantwa, Ilindi, Mindola, Mkakatika, Ibihwa, Bahi	Mnkola, Mpamantwa, Ilindi, Mindola, Mkakatika, Ibihwa, Bahi, Dodoma, Kibaha, Pugu
KigweKigwe, Mapinduzi, Nghulugano, Chikola, Chigongwe, Chimendeli, Bahi Makulu, Chali, Manyoni, Nala, Mpinga, Ibihwa, Mzogole, Mpamantwa, Chipanga, Msembeta, Ilindi, Mindola	Kigwe, Mapinduzi, Nghulugano, Chikola, Chigongwe, Chimendeli, Bahi Makulu, Chali, Manyoni, Nala, Mpinga, Ibihwa, Mzogole, Mpamantwa, Chipanga, Msembeta, Ilindi, Mindola, Pugu, Kibaha, Dodoma
LalagoLalago ,gula,mwakidiga, mwandete,mwamashindike,mbalagane	Mwanza (igoma), kirumi, namanga, kibaha, kishapu
NkhomNkhome, Mpalanga, Ibugule, Mapanga, Chidilo, Nholi, Chipanga, Chiguluka, Zejele, Mbabala, Isangha	Nkhome, Mpalanga, Ibugule, Mapanga, Chidilo, Nholi, Chipanga, Chiguluka, Zejele, Mbabala, Isangha, Dodoma, Zuzu, Pugu, Kibaha
KidindMuhunze, la- gangabiriri,sagata,nanga,luguru,nobola,bumela,mhango,nyakabidi,bumhala,sakwe,nguliati	Mwanza,kenya,bariadi, itilima

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