

# Kenya - Informal Cross Border Trade 2011

**Kenya National Bureau of Statistics (KNBS)**

Report generated on: October 23, 2021

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## Overview

### Identification

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ID NUMBER  
KEN-KNBS-ICBT-2011-v1.0

### Version

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VERSION DESCRIPTION  
Version 1.0 (Edited)

PRODUCTION DATE  
2011-06-30

NOTES  
Although this is the first round of the survey, it is supposed to be a quarterly survey. This round is done in the second quarter. (April - June)

## Overview

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ABSTRACT  
External Trade Statistics are macro-economic statistics compiled from the normal administrative process of customs authorities and other agencies. Trade information is crucial in monitoring the flow of resources across international boundaries and is used for compilation of Balance of Payments and National Accounts Statistics.

KIND OF DATA  
Sample survey data [ssd]

UNITS OF ANALYSIS  
Individuals

## Scope

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NOTES  
The survey has only two major questionnaire as follows:

1. IMPORTS KENYA NATIONAL BUREAU OF STATISTICS
2. EXPORTS KENYA NATIONAL BUREAU OF STATISTICS

#### TOPICS

Topic	Vocabulary	URI
Trade	World Bank	
Private Sector and Trade	World Bank	
Export Competitiveness	World Bank	

## Coverage

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GEOGRAPHIC COVERAGE  
Kenyan Boarder Points

UNIVERSE  
National

## Producers and Sponsors

### PRIMARY INVESTIGATOR(S)

Name	Affiliation
Kenya National Bureau of Statistics (KNBS)	Ministry of Planning and Devolution

### OTHER PRODUCER(S)

Name	Affiliation	Role
Kenya National Bureau of Statistics	Planning and Devolution	

### FUNDING

Name	Abbreviation	Role
Ministry of Trade	MOT	Funding
Central Bank of Kenya	CBK	Funding
Kenya Revenue Authority	KRA	Funding

## Metadata Production

### METADATA PRODUCED BY

Name	Abbreviation	Affiliation	Role
Kenya National Bureau of Statistics	KNBS	Planning and Devolution	Documentation of the Survey

DATE OF METADATA PRODUCTION  
2014-05-16

DDI DOCUMENT VERSION  
Version 1.0 (May 2014)

DDI DOCUMENT ID  
DDI-KEN-KNBS-ICBT-2011-v1.0

## Sampling

### Sampling Procedure

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#### The Up-rating Model

Under assumption (a) above, for industrial and other products with constant trade flows, during the month of June, 2011 with  $n$  days (i.e.  $n=30$  days) and having a daily average value of industrial and other products of  $\mu_i$ , the total value of inflows/outflows of industrial and other products during the month of June, 2011 were mathematically presented as:  $A_i = \mu_i \times n$  (1) Equation (1) shows that to get the monthly value estimates for the month of June, 2011, the average daily values of industrial and other products from survey figures were multiplied by number of days in the month of June, 2011. Hence, equation (1) represents estimated total value of informal exports/ informal imports of the industrial and other products traded during the month of June, 2011. Therefore, the estimated total value of informal exports/ informal imports of the industrial and other products traded during the period of three months (April-June, 2011) were expressed mathematically as:  $AT = \sum_{i=1}^3 A_i$  Where  $i$  = month and  $AT$  are total export/import flow for industrial and other product categories. To up rate informal trade flows of agricultural and other agricultural products during the month of June, 2011 of the survey, assumption (b) was taken into consideration. The monthly aggregate of agricultural trade flows was expressed as the sum of product of the number of particular days in the month of June, 2011. Let  $d_j$  represent the number of particular days in the month of June, 2011, say four Mondays and  $\mu_j$  the daily average value of agricultural informal exports/informal imports of a given day computed from the observed trade figures. Then,  $B = \sum_{j=1}^n \mu_j \times d_j$  (2) Where  $B$ , stands for the monthly total value of trade for a given day, say Monday in the month of June, 2011 of agricultural informal exports/informal imports (i.e. total of all Mondays). Therefore, the monthly informal agricultural informal exports/informal imports aggregate for all days in the month of June, 2011 were estimated as:  $BT = \sum_{j=1}^7 B_j$  Where  $j$  represents days of the week, i.e. Monday, Tuesday... Sunday. The estimated total value of informal exports/ informal imports of the agricultural products traded during three months (April-June, 2011), was expressed mathematically as:  $SS = \sum_{k=1}^3 BT_k$  Where  $k$ , stands for the month. Out of the existing 24 border stations, 16 border stations were purposively selected. These comprised Lwakhakha, Malaba and Busia (along Kenya/Uganda border), Isebania, Namanga, Taveta, Lungalunga and Shimoni (along Kenya/Tanzania border), Rhamu, Lamu and Mandera (along Kenya/Somalia border), Mandera and Moyale (along Kenya/Ethiopia border), and Kapweta, Nandapal and Lokichoggio (along Kenya/Sudan border).

### Deviations from Sample Design

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Out of the 16 selected border stations, data collection was done completely in 13 border points (Busia, Malaba, Isebania, Namanga, Taveta, Lungalunga, Moyale, Mandera, Lokichoggio, Shimoni, Nandapal, Rhamu and Lwakhakha). Due to insecurity concerns coupled with other logistical complications, Kapweta and Lamu border points were not operational. Hence, ICBT survey was not conducted in these areas.

### Response Rate

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Refer to the document

### Weighting

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Not weighted

# Questionnaires

## Overview

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The Exports and Imports questionnaires consist of the following:

HS Code (Office)

Item Name

Quantity Unit Code

Est. domestic price per unit

Country of Origin code

Mode of Transport

## Data Collection

### Data Collection Dates

Start	End	Cycle
2011-04-01	2011-06-30	3 Months

### Time Periods

Start	End	Cycle
2011-06-01		21

### Data Collection Mode

Face-to-face [f2f]

### Data Collection Notes

Out of the 16 selected border stations, data collection was done completely in 13 border points (Busia, Malaba, Isebania, Namanga, Taveta, Lungalunga, Moyale, Mandera, Lokichoggio, Shimoni, Nandapal, Rhamu and Lwakhakha). Due to insecurity concerns coupled with other logistical complications, Kapweta and Lamu border points were not operational. Hence, ICBT survey was not conducted in these areas.

The direct observation method of data collection was deemed to be the most cost-effective way of gathering data under border conditions which was far from ideal. Under this technique, Research Assistants positioned themselves strategically at border posts to record all merchandise entering or leaving the country by observation. Daily transactions were first recorded in the counter books. Thereafter, summarized in a predesigned questionnaire "Summary Form A" (see Appendix III).

### Questionnaires

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Mode of Transport

### Data Collectors

Name	Abbreviation	Affiliation
Kenya National Bureau of Statistice	KNBS	Ministry of Devolution and Planning

### Supervision

The supervision was carried out by the County Statistical Officers

## Data Processing

### **Data Editing**

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The questionnaires were edited in office by data editing staff.

### **Other Processing**

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Data Entry was done using CSpro package, data entry clerks were hired to assist with the manual entry

## Data Appraisal

### **Estimates of Sampling Error**

No estimated sampling error done

### **Other forms of Data Appraisal**

None

## File Description

# Variable List

## 2011ICBTData

Content

Cases 18421

Variable(s) 26

Structure Type:  
Keys: ()

Version

Producer

Missing Data

## Variables

ID	NAME	LABEL	TYPE	FORMAT	QUESTION
V30	id		contin	numeric	
V31	IMPORT_EXPORT_ID	IMPORT_EXPORT identification	contin	numeric	
V32	SUMMARY_FORM	Summary Form	discrete	numeric	
V33	NAME_OF_CUSTOMS_STATION	Name of Customs Station	discrete	numeric	
V34	DAY	Day	contin	numeric	
V35	MONTH	Month	discrete	numeric	
V36	YEAR	Year	discrete	numeric	
V37	DAYOFWEEK	Dayofweek	discrete	numeric	
V38	DAY_CHECKING	Day_Checking	contin	numeric	
V39	MONTH_CHECKING	Month_Checking	discrete	numeric	
V40	YEAR_CHECKING	Year_Checking	discrete	numeric	
V41	TIME_CHECKING	Time_Checking	discrete	character	
V42	FROM_PAGE	From_Page	contin	numeric	
V43	TO_PAGE	To_Page	contin	numeric	
V44	COUNTER_BOOK	Counter_Book	contin	numeric	
V45	Index1		discrete	numeric	
V46	HSCode	HS Code	contin	numeric	
V47	ItemName	Item Name	discrete	character	
V48	Quantity	Quantity	contin	numeric	
V49	UnitCode	Unit Code	discrete	numeric	
V50	UnitCodespecified	Unit Code specified	discrete	character	
V51	Est.domesticpriceperunit	Est. domestic price per unit	contin	numeric	
V52	CountryofOrigincode	Country of Origin code	discrete	numeric	
V53	Country_Others_specified	Country_Others_specified	discrete	character	
V54	ModeofTransport	Mode of Transport	discrete	numeric	
V55	ModeofTransport_Others_specified	Mode of Transport_Others_specified	discrete	character	



(id)

File: 2011ICBTData

**Overview**

Type: Continuous	Valid cases: 18421
Format: numeric	Invalid: 0
Width: 8	Minimum: 1
Decimals: 0	Maximum: 2480
Range: 1-2480	Mean: 1229
	Standard deviation: 708.6

IMPORT\_EXPORT identification (IMPORT\_EXPORT\_ID)

File: 2011ICBTData

**Overview**

Type: Continuous	Valid cases: 18421
Format: numeric	Invalid: 0
Width: 5	Minimum: 1
Decimals: 0	Maximum: 13532
Range: 1-13532	Mean: 664.8
	Standard deviation: 617.1

Summary Form (SUMMARY\_FORM)

File: 2011ICBTData

**Overview**

Type: Discrete	Valid cases: 18421
Format: numeric	Invalid: 0
Width: 1	Minimum: 1
Decimals: 0	Maximum: 2
Range: 1-2	

Name of Customs Station (NAME\_OF\_CUSTOMS\_STATION)

File: 2011ICBTData

**Overview**

Type: Discrete	Valid cases: 18421
Format: numeric	Invalid: 0
Width: 2	Minimum: 1
Decimals: 0	Maximum: 15
Range: 1-15	

Day (DAY)

File: 2011ICBTData

**Overview**

Type: Continuous	Valid cases: 18411
Format: numeric	Invalid: 10
Width: 2	Minimum: 1
Decimals: 0	Maximum: 30
Range: 1-30	Mean: 22.3
	Standard deviation: 5

## Month (MONTH)

File: 2011ICBTData

### Overview

Type: Discrete	Valid cases: 18411
Format: numeric	Invalid: 10
Width: 2	Minimum: 1
Decimals: 0	Maximum: 11
Range: 1-11	Mean: 6
	Standard deviation: 0.3

## Year (YEAR)

File: 2011ICBTData

### Overview

Type: Discrete	Valid cases: 18411
Format: numeric	Invalid: 10
Width: 4	Minimum: 2011
Decimals: 0	Maximum: 2011
Range: 2011-2011	

## Dayofweek (DAYOFWEEK)

File: 2011ICBTData

### Overview

Type: Discrete	Valid cases: 18411
Format: numeric	Invalid: 10
Width: 1	Minimum: 1
Decimals: 0	Maximum: 7
Range: 1-7	

## Day\_Checking (DAY\_CHECKING)

File: 2011ICBTData

### Overview

Type: Continuous	Valid cases: 18397
Format: numeric	Invalid: 24
Width: 2	Minimum: 1
Decimals: 0	Maximum: 31
Range: 1-31	Mean: 22.5
	Standard deviation: 6.4

## Month\_Checking (MONTH\_CHECKING)

File: 2011ICBTData

### Overview

Type: Discrete	Valid cases: 18397
Format: numeric	Invalid: 24
Width: 2	Minimum: 1
Decimals: 0	Maximum: 8
Range: 1-8	Mean: 6
	Standard deviation: 0.4

## Year\_Checking (YEAR\_CHECKING)

File: 2011ICBTData

**Overview**

Type: Discrete	Valid cases: 18401
Format: numeric	Invalid: 20
Width: 4	Minimum: 2011
Decimals: 0	Maximum: 2011
Range: 2011-2011	

## Time\_Checking (TIME\_CHECKING)

File: 2011ICBTData

**Overview**

Type: Discrete	Valid cases: 18345
Format: character	Invalid: 0
Width: 7	

## From\_Page (FROM\_PAGE)

File: 2011ICBTData

**Overview**

Type: Continuous	Valid cases: 18411
Format: numeric	Invalid: 10
Width: 3	Minimum: 1
Decimals: 0	Maximum: 300
Range: 1-300	Mean: 22.9
	Standard deviation: 32.9

## To\_Page (TO\_PAGE)

File: 2011ICBTData

**Overview**

Type: Continuous	Valid cases: 18411
Format: numeric	Invalid: 10
Width: 3	Minimum: 1
Decimals: 0	Maximum: 300
Range: 1-300	Mean: 25.8
	Standard deviation: 33.3

## Counter\_Book (COUNTER\_BOOK)

File: 2011ICBTData

**Overview**

Type: Continuous	Valid cases: 18411
Format: numeric	Invalid: 10
Width: 4	Minimum: 1
Decimals: 0	Maximum: 2011
Range: 1-2011	Mean: 92.5
	Standard deviation: 80.4

## (Index1)

### File: 2011ICBTData

#### Overview

Type: Discrete	Valid cases: 18421
Format: numeric	Invalid: 0
Width: 4	
Decimals: 0	
Range: 1-13	

## HS Code (HSCode)

### File: 2011ICBTData

#### Overview

Type: Continuous	Valid cases: 18420
Format: numeric	Invalid: 1
Width: 10	Minimum: 0
Decimals: 0	Maximum: 885167900
Range: 0-885167900	Mean: 29257301.5
	Standard deviation: 36138263.4

## Item Name (ItemName)

### File: 2011ICBTData

#### Overview

Type: Discrete	Valid cases: 18418
Format: character	Invalid: 0
Width: 30	

## Quantity (Quantity)

### File: 2011ICBTData

#### Overview

Type: Continuous	Valid cases: 18418
Format: numeric	Invalid: 3
Width: 10	Minimum: 1
Decimals: 0	Maximum: 293224
Range: 1-293224	Mean: 389.8
	Standard deviation: 3945

## Unit Code (UnitCode)

### File: 2011ICBTData

#### Overview

Type: Discrete	Valid cases: 18387
Format: numeric	Invalid: 34
Width: 1	Minimum: 1
Decimals: 0	Maximum: 9
Range: 1-9	

## Unit Code specified (UnitCodespecified)

File: 2011ICBTData

**Overview**

Type: Discrete	Valid cases: 69
Format: character	Invalid: 0
Width: 30	

## Est. domestic price per unit (Est.domesticpriceperunit)

File: 2011ICBTData

**Overview**

Type: Continuous	Valid cases: 18418
Format: numeric	Invalid: 3
Width: 12	Minimum: 0
Decimals: 2	Maximum: 114093
Range: 0-114093	Mean: 459.1
	Standard deviation: 3223.5

## Country of Origin code (CountryofOrigincode)

File: 2011ICBTData

**Overview**

Type: Discrete	Valid cases: 18414
Format: numeric	Invalid: 7
Width: 1	Minimum: 1
Decimals: 0	Maximum: 5
Range: 1-6	

## Country\_Others\_specified (Country\_Others\_specified)

File: 2011ICBTData

**Overview**

Type: Discrete	Valid cases: 19
Format: character	Invalid: 0
Width: 30	

## Mode of Transport (ModeofTransport)

File: 2011ICBTData

**Overview**

Type: Discrete	Valid cases: 18407
Format: numeric	Invalid: 14
Width: 1	Minimum: 1
Decimals: 0	Maximum: 9
Range: 1-9	

Mode of Transport\_Others\_specified  
(ModeofTransport\_Others\_specified)

File: 2011ICBTData

**Overview**

Type: Discrete  
Format: character  
Width: 30

Valid cases: 451  
Invalid: 0

# Documentation

## Questionnaires

### Summary FormB-IMPORTS

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Title Summary FormB-IMPORTS  
Filename Summary FormB-IMPORTS.pdf

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### Summary FormA-EXPORTS

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Title Summary FormA-EXPORTS  
Filename Summary FormA-EXPORTS.pdf

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## Reports

### ICBT INFORMAL CROSS BORDER TRADE SURVEY

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Title ICBT INFORMAL CROSS BORDER TRADE SURVEY  
Filename ICBT INFORMAL CROSS BORDER TRADE SURVEY Edited.pdf

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