

KENYA - Informal Cross Border Trade 2011

Report generated on: August 4, 2014

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Sampling

Sampling Procedure

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 μ_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 μ_j the daily average value of agricultural informal exports/informal imports of a given day computed from the observed trade figures. Then, $B = \sum_{j=1}^n d_j \mu_j$ (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: $BT = \sum_{k=1}^3 \sum_{j=1}^7 B_j$ 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

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

Refer to the document

Weighting

Not weighted

Questionnaires

Overview

The Exports and Imports questionnaier 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

The Exports and Imports questionnaire 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 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

The questionnaires were edited in office by data editing staff.

Other Processing

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

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

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 Form "A" Exports

| | |
|-------------------|---|
| Title | Summary Form "A" Exports |
| subtitle | Sheet for summarizing daily records |
| Author(s) | Kenya National Bureau of Statistics |
| Date | 2014-05-15 |
| Country | Kenya |
| Contributor(s) | Kenya National Bureau of Statistics , Kenya Revenue Authority , Ministry of Trade , Central Bank of Kenya |
| Publisher(s) | Kenya National Bureau of Statistics |
| Description | Daily transactions were first recorded in the counter books. Thereafter, summarized in a predesigned questionnaire "Summary Form A" (see Appendix III). |
| | The questionnaier consist of the following: |
| | 1 HS Code (Office) |
| | 2 Item Name |
| Table of contents | 3 Quantity |
| | 4 Unit Code |
| | 5 Est. domestic price per unit |
| | 6 Country of Origin code |
| | 7 Mode of Transport |
| Filename | Docs/Summary FormA-EXPORTS.pdf |

Summary Form "A" Exports

| | |
|-------------------|---|
| Title | Summary Form "A" Exports |
| subtitle | Sheet for summarizing daily records |
| Author(s) | Kenya National Bureau of Statistics |
| Date | 2014-05-15 |
| Country | Kenya |
| Language | English |
| Contributor(s) | Kenya National Bureau of Statistics , Kenya Revenue Authority , Central Bank of Kenya , Ministry of Trade |
| Publisher(s) | Kenya National Bureau of Statistics |
| | The questionnaier consist of the following: |
| | 1 HS Code (Office) |
| | 2 Item Name |
| Table of contents | 3 Quantity |
| | 4 Unit Code |
| | 5 Est. domestic price per unit |
| | 6 Country of Origin code |
| | 7 Mode of Transport |
| Filename | Docs/Summary FormB-IMPORTS.pdf |

Reports

Informal Cross Border Trade Survey Second quarter 2011

| | |
|-----------|--|
| Title | Informal Cross Border Trade Survey Second quarter 2011 |
| Author(s) | Kenya national Bureau of Statistics |

| | |
|-------------------|---|
| Date | 2011-06-01 |
| Country | Kenya |
| Language | English |
| Contributor(s) | Kenya national Bureau of Statistics Kenya Revenue authority , Central bank , Ministry of Trades , Kenya Revenue authority |
| Publisher(s) | Kenya national Bureau of Statistics |
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2011 ICBT Report

Title 2011 ICBT Report
 Filename Docs/ICBT INFORMAL CROSS BORDER TRADE SURVEY Edited.pdf

Technical documents

2011 CBT Data

Title 2011 CBT Data
 Filename Data/2011ICBTData.sav
