

Argentina, Australia, Austria, Belgium, Bulgaria, Bolivia, Brazil, Canada, Switzerland, Chile, China - Trade Costs and Facilitation 2000-2001

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Overview

Identification

ID NUMBER

WLD_2000_TCF_v01_M

Version

VERSION DESCRIPTION

PRODUCTION DATE

NOTES

Overview

ABSTRACT

The relationships between trade facilitation, trade flows, and capacity building are complex and challenging to assess, both empirically and in implementation. This working paper measures and estimates the relationship between trade facilitation and trade flows across 75 countries in global trade, considering four important categories: Port efficiency, customs environment, regulatory environment, and service sector infrastructure. A gravity model is employed that accounts for bilateral trade flows in manufactured goods in 2000-01 between the 75 countries, using traditional factors such as GDP, distance, language, and trade areas, and is augmented by the trade facilitation measures in the four categories for each country.

The data is organized such that unit of observation is a pair of importing and exporting countries. The major sources of data are, the Commodity and Trade Database(COMTRADE) of the United Nations Statistics Division for trade data, the Trade Analysis and Information System (TRAINS) of the United Nations Conference on Trade and Development(UNCTAD) for tariff data, the World Development Indicators published by the World Bank for the data of gross national product(GNP) and per capita GNP, and 3 country surveys for trade facilitation indicator (see the data description document for detail).

KIND OF DATA

Aggregate data [agg]

UNITS OF ANALYSIS

Scope

NOTES

The dataset includes indicators related to:

- Import/export (tariff, customs, regulations)
- GNP

Producers and Sponsors

PRIMARY INVESTIGATOR(S)

Name	Affiliation
John S. Wilson, Catherine L. Mann and Tsunehiro Otsuki	

OTHER PRODUCER(S)

Name	Affiliation	Role

DATE OF METADATA PRODUCTION
2010-12-27

DDI DOCUMENT VERSION
Version 01 (December 2010)

DDI DOCUMENT ID
DDI_WLD_2000_TCF_v01_M

Sampling

Sampling Procedure

Deviations from Sample Design

Response Rate

Weighting

Questionnaires

Overview

Data Collection

Data Collection Dates

Start	End	Cycle
2000	2001	N/A

Data Collection Mode

Other [oth]

Data Collection Notes

Questionnaires

Supervision

Data Processing

Data Editing

Other Processing

Data Appraisal

Estimates of Sampling Error

Other forms of Data Appraisal

File Description

Variable List

Content	The data is organized such that unit of observation is a pair of importing and exporting countries. The major sources of data are, the Commodity and Trade Database(COMTRADE) of the United Nations Statistics Division for trade data, the Trade Analysis and Information System (TRAINS) of the United Nations Conference on Trade and Development(UNCTAD) for tariff data, the World Development Indicators published by the World Bank for the data of gross national product(GNP) and per capita GNP, and 3 country surveys for trade facilitation indicator. The variables are used for the gravity model in Chapter 4 of WMO(2004).
Cases	11100
Variable(s)	47
Structure	Type: Keys: ()
Version	
Producer	
Missing Data	

Variables

ID	NAME	LABEL	TYPE	FORMAT	QUESTION
V1	cpi	cpi	contin		
V2	year	year	discrete		2000 and 2001
V3	imp	imp	discrete		
V4	importer	importer	discrete		Importing country
V5	exp	exp	discrete		
V6	exporter	exporter	discrete		Exporting country
V7	trade	trade	contin		The value of manufactures export from country J to I
V8	tariff	tariff	contin		Tariff rate in the percent ad velorem term that is specific to the trading partners I and J and year t.
V9	gnp_im	gnp_im	contin		Importng country's GNP in 1995 constant U.S. dollars
V10	gnp_ex	gnp_ex	contin		Exporting country's GNP in 1995 constant U.S. dollars
V11	gnppc_ex	gnppc_ex	contin		Exporting country's GNP per capita in 1995 U.S. dollars
V12	gnppc_im	gnppc_im	contin		Importing country's GNP per capita in 1995 U.S. dollars
V13	ports_im	ports_im	contin		Port efficiency for importing country The average of two indexed inputs (water, air)
V14	regulation_im	regulation_im	contin		Regulatory environment for importing country The average of two indexed inputs (corrupt, transparency)
V15	services_im	services_im	contin		Service sector infrastructure for importing country The average of two indexed inputs (e_cost, internet)
V16	ports_ex	ports_ex	contin		Ports efficiency for exporting country
V17	customs_ex	customs_ex	contin		Customs environment for importing country
V18	regulation_ex	regulation_ex	contin		Regulatory environment for exporting country
V19	services_ex	services_ex	contin		Service sector infrastructure for exporting country
V20	distance	distance	contin		Geographical distance between capital in country I and J
V21	dadjacent	dadjacent	discrete		The adjacency dummy : 1 if country I is adjacent to country J, and 0 otherwise.
V22	dasean	dasean	discrete		The trade agreement dummy : ASEAN
V23	dnafta	dnafta	discrete		The trade agreement dummy : NAFTA

V24	dlaia	dlaia	discrete	The trade agreement dummy : LAIA
V25	daunz	daunz	discrete	The trade agreement dummy : AUNZ
V26	dmercosur	dmercosur	discrete	The trade agreement dummy : MERCOSUR
V27	deu	deu	discrete	The trade agreement dummy : EU
V28	deng	deng	discrete	The language dummy : English
V29	dfrc	dfrc	discrete	The language dummy : French
V30	dspn	dspn	discrete	The language dummy : Spanish
V31	darb	darb	discrete	The language dummy : Arabic
V32	dchi	dchi	discrete	The language dummy : Chinese
V33	dgmnn	dgmnn	discrete	The language dummy : German
V34	dpor	dpor	discrete	The language dummy : Portuguese
V35	drus	drus	discrete	The language dummy : Russian
V36	d2000	d2000	discrete	A dummy for year 2000
V37	water	water	contin	Sub-index for ports efficiency index
V38	air	air	contin	Sub-index for ports index
V39	barriers	barriers	contin	Sub-index for customs index
V40	bribes	bribes	contin	Sub-index for customs index
V41	transparency	transparency	contin	Sub-index for regulation index
V42	corrupt	corrupt	contin	Sub-index for regulation index
V43	e_cost	e_cost	contin	Sub-index for services index
V44	internet	internet	contin	Sub-index for services index
V45	customs_im	customs_im	contin	Customs environment for importing country
V46	number	number	contin	
V47	FDI	FDI	contin	

cpi(cpi)

File: TFdata

Overview

Type: Continuous
Width: 4
Decimals: 2

Valid cases: 9390
Invalid: 1710
Minimum: 1.1
Maximum: 1.2
Mean: 1.1
Standard deviation: 0

Source of information

cpi

year(year)

File: TFdata

Overview

Type: Discrete
Width: 4

Valid cases: 11100
Invalid: NaN

Source of information

year

Literal question

2000 and 2001

imp(imp)

File: TFdata

Overview

Type: Discrete
Width: 3

Valid cases: 11100
Invalid: NaN

Source of information

imp

importer(importer)

File: TFdata

Overview

Type: Discrete
Width: 19

Valid cases: 11100
Invalid: NaN

Source of information

importer

Literal question

Importing country

exp(exp)

File: TFdata

Overview

Type: Discrete
Width: 3

Valid cases: 11100
Invalid: NaN

Source of information

exp

exporter(exporter)

File: TFdata

OverviewType: Discrete
Width: 19Valid cases: 11100
Invalid: NaN**Source of information**

exporter

Literal question

Exporting country

trade(trade)

File: TFdata

OverviewType: Continuous
Width: 12
Decimals: 2Valid cases: 9390
Invalid: 1710
Minimum: NaN
Maximum: 136000000
Mean: 811678.3
Standard deviation: 4864178.4**Source of information**

trade

Literal question

The value of manufactures export from country J to I

tariff(tariff)

File: TFdata

OverviewType: Continuous
Width: 6
Decimals: 2Valid cases: 9540
Invalid: 1560
Minimum: NaN
Maximum: 294.4
Mean: 8.4
Standard deviation: 10.1**Source of information**

tariff

Literal question

Tariff rate in the percent ad velorem term that is specific to the trading partners I and J and year t.

gnp_im(gnp_im)

File: TFdata

Overview

Type: Continuous
Width: 10

Valid cases: 10656
Invalid: 444
Minimum: 3875964
Maximum: 8750000000
Mean: 360713520.6
Standard deviation: 1132281210.5

Source of information

gnp_im

Literal question

Importing country's GNP in 1995 constant U.S. dollars

gnp_ex(gnp_ex)
File: TFdata

Overview

Type: Continuous
Width: 10

Valid cases: 10656
Invalid: 444
Minimum: 3875964
Maximum: 8750000000
Mean: 360713520.6
Standard deviation: 1132281210.5

Source of information

gnp_ex

Literal question

Exporting country's GNP in 1995 constant U.S. dollars

gnppc_ex(gnppc_ex)
File: TFdata

Overview

Type: Continuous
Width: 5
Decimals: 2

Valid cases: 10656
Invalid: 444
Minimum: 0.3
Maximum: 34.2
Mean: 8.4
Standard deviation: 9.3

Source of information

gnppc_ex

Literal question

Exporting country's GNP per capita in 1995 U.S. dollars

gnppc_im(gnppc_im)
File: TFdata

Overview

Type: Continuous
Width: 5
Decimals: 2

Valid cases: 10656
Invalid: 444
Minimum: 0.3
Maximum: 34.2
Mean: 8.4
Standard deviation: 9.3

Source of information

gnppc_im

Literal question

Importing country's GNP per capita in 1995 U.S. dollars

ports_im(ports_im)

File: TFdata

Overview

Type: Continuous	Valid cases: 11100
Width: 4	Invalid: NaN
Decimals: 2	Minimum: 0.3
	Maximum: 1
	Mean: 0.7
	Standard deviation: 0.2

Source of information

ports_im

Literal question

Port efficiency for importing country
The average of two indexed inputs (water, air)

regulation_im(regulation_im)

File: TFdata

Overview

Type: Continuous	Valid cases: 11100
Width: 4	Invalid: NaN
Decimals: 2	Minimum: 0.4
	Maximum: 1
	Mean: 0.7
	Standard deviation: 0.1

Source of information

regulation_im

Literal question

Regulatory environment for importing country
The average of two indexed inputs (corrupt, transparency)

services_im(services_im)

File: TFdata

Overview

Type: Continuous	Valid cases: 11100
Width: 4	Invalid: NaN
Decimals: 2	Minimum: 0.5
	Maximum: 1
	Mean: 0.7
	Standard deviation: 0.1

Source of information

services_im

Literal question

Service sector infrastructure for importing country
The average of two indexed inputs (e_cost, internet)

ports_ex(ports_ex)

File: TFdata

Overview

Type: Continuous
Width: 4
Decimals: 2

Valid cases: 11100
Invalid: NaN
Minimum: 0.3
Maximum: 1
Mean: 0.7
Standard deviation: 0.2

Source of information

ports_ex

Literal question

Ports efficiency for exporting country

customes_ex(customes_ex)

File: TFdata

Overview

Type: Continuous
Width: 4
Decimals: 2

Valid cases: 11100
Invalid: NaN
Minimum: 0.4
Maximum: 1
Mean: 0.7
Standard deviation: 0.2

Source of information

customes_ex

Literal question

Customs environment for importing country

regulation_ex(regulation_ex)

File: TFdata

Overview

Type: Continuous
Width: 4
Decimals: 2

Valid cases: 11100
Invalid: NaN
Minimum: 0.4
Maximum: 1
Mean: 0.7
Standard deviation: 0.1

Source of information

regulation_ex

Literal question

Regulatory environment for exporting country

services_ex(services_ex)

File: TFdata

Overview

Type: Continuous
Width: 4
Decimals: 2

Valid cases: 11100
Invalid: NaN
Minimum: 0.5
Maximum: 1
Mean: 0.7
Standard deviation: 0.1

Source of information

services_ex

Literal question

Service sector infrastructure for exporting country

distance(distance)

File: TFdata

Overview

Type: Continuous
Width: 8
Decimals: 2

Valid cases: 11100
Invalid: NaN
Minimum: 99.7
Maximum: 19945.9
Mean: 8148.2
Standard deviation: 4892.3

Source of information

distance

Literal question

Geographical distance between capital in country I and J

dadjacent(dadjacent)

File: TFdata

Overview

Type: Discrete
Width: 1

Valid cases: 11100
Invalid: NaN

Source of information

dadjacent

Literal question

The adjacency dummy : 1 if country I is adjacent to country J, and 0 otherwise.

dasean(dasean)

File: TFdata

Overview

Type: Discrete
Width: 1

Valid cases: 11100
Invalid: NaN

Source of information

dasean

Literal question

The trade agreement dummy : ASEAN

dnafta(dnafta)

File: TFdata

Overview

Type: Discrete
Width: 1

Valid cases: 11100
Invalid: NaN

Source of information

dnafta

Literal question

The trade agreement dummy : NAFTA

dlaia(dlaia)

File: TFdata

Overview

Type: Discrete
Width: 1

Valid cases: 11100
Invalid: NaN

Source of information

dlaia

Literal question

The trade agreement dummy : LAIA

daunz(daunz)

File: TFdata

Overview

Type: Discrete
Width: 1

Valid cases: 11100
Invalid: NaN

Source of information

daunz

Literal question

The trade agreement dummy : AUNZ

dmercosur(dmercosur)

File: TFdata

Overview

Type: Discrete
Width: 1

Valid cases: 11100
Invalid: NaN

Source of information

dmercosur

Literal question

The trade agreement dummy : MERCOSUR

deu(deu)

File: TFdata

Overview

Type: Discrete
Width: 1

Valid cases: 11100
Invalid: NaN

Source of information

deu

Literal question

The trade agreement dummy : EU

deng(deng)

File: TFdata

Overview

Type: Discrete

Width: 1

Valid cases: 11100

Invalid: NaN

Source of information

deng

Literal question

The language dummy : English

dfrc(dfrc)

File: TFdata

Overview

Type: Discrete

Width: 1

Valid cases: 11100

Invalid: NaN

Source of information

dfrc

Literal question

The language dummy : French

dspn(dspn)

File: TFdata

Overview

Type: Discrete

Width: 1

Valid cases: 11100

Invalid: NaN

Source of information

dspn

Literal question

The language dummy : Spanish

darb(darb)

File: TFdata

Overview

Type: Discrete

Width: 1

Valid cases: 11100

Invalid: NaN

Source of information

darb

Literal question

The language dummy : Arabic

dchi(dchi)

File: TFdata

Overview

Type: Discrete

Width: 1

Valid cases: 11100

Invalid: NaN

Source of information

dchi

Literal question

The language dummy : Chinese

dgmn(dgmn)

File: TFdata

Overview

Type: Discrete

Width: 1

Valid cases: 11100

Invalid: NaN

Source of information

dgmn

Literal question

The language dummy : German

dpor(dpor)

File: TFdata

Overview

Type: Discrete

Width: 1

Valid cases: 11100

Invalid: NaN

Source of information

dpor

Literal question

The language dummy : Portuguese

drus(drus)

File: TFdata

Overview

Type: Discrete

Width: 1

Valid cases: 11100

Invalid: NaN

Source of information

drus

Literal question

The language dummy : Russian

d2000(d2000)

File: TFdata

Overview

Type: Discrete

Width: 1

Valid cases: 11100

Invalid: NaN

Source of information

d2000

Literal question

A dummy for year 2000

water(water)

File: TFdata

Overview

Type: Continuous
Width: 4
Decimals: 2

Valid cases: 11100
Invalid: NaN
Minimum: 0.3
Maximum: 1
Mean: 0.6
Standard deviation: 0.2

Source of information

water

Literal question

Sub-index for ports efficiency index

air(air)

File: TFdata

Overview

Type: Continuous
Width: 4
Decimals: 2

Valid cases: 11100
Invalid: NaN
Minimum: 0.2
Maximum: 1
Mean: 0.7
Standard deviation: 0.2

Source of information

air

Literal question

Sub-index for ports index

barriers(barriers)

File: TFdata

Overview

Type: Continuous
Width: 4
Decimals: 2

Valid cases: 11100
Invalid: NaN
Minimum: 0.4
Maximum: 1
Mean: 0.7
Standard deviation: 0.2

Source of information

barriers

Literal question

Sub-index for customs index

bribes(bribes)

File: TFdata

Overview

Type: Continuous
Width: 4
Decimals: 2

Valid cases: 11100
Invalid: NaN
Minimum: 0.3
Maximum: 1
Mean: 0.7
Standard deviation: 0.2

Source of information

bribes

Literal question

Sub-index for customs index

transparency(transparency)

File: TFdata

Overview

Type: Continuous
Width: 5
Decimals: 2

Valid cases: 7104
Invalid: 3996
Minimum: 0.1
Maximum: 1
Mean: 0.6
Standard deviation: 0.2

Source of information

transparency

Literal question

Sub-index for regulation index

corrupt(corrupt)

File: TFdata

Overview

Type: Continuous
Width: 4
Decimals: 2

Valid cases: 11100
Invalid: NaN
Minimum: 0.5
Maximum: 1
Mean: 0.7
Standard deviation: 0.1

Source of information

corrupt

Literal question

Sub-index for regulation index

e_cost(e_cost)

File: TFdata

Overview

Type: Continuous
Width: 4
Decimals: 2

Valid cases: 11100
Invalid: NaN
Minimum: 0.3
Maximum: 1
Mean: 0.6
Standard deviation: 0.2

Source of information

e_cost

Literal question

Sub-index for services index

internet(internet)

File: TFdata

Overview

Type: Continuous
Width: 4
Decimals: 2

Valid cases: 11100
Invalid: NaN
Minimum: 0.5
Maximum: 1
Mean: 0.7
Standard deviation: 0.1

Source of information

internet

Literal question

Sub-index for services index

customs_im(customs_im)

File: TFdata

Overview

Type: Continuous
Width: 4
Decimals: 2

Valid cases: 11100
Invalid: NaN
Minimum: 0.4
Maximum: 1
Mean: 0.7
Standard deviation: 0.2

Source of information

customs_im

Literal question

Customs environment for importing country

number(number)

File: TFdata

Overview

Type: Continuous
Width: 2

Valid cases: 11100
Invalid: NaN
Minimum: 1
Maximum: 75
Mean: 38
Standard deviation: 21.7

Source of information

number

FDI(FDI)

File: TFdata

Overview

Type: Continuous	Valid cases: 11100
Width: 10	Invalid: NaN
Decimals: 2	Minimum: 488
	Maximum: 1321063
	Mean: 80943.4
	Standard deviation: 175502.4

Source of information

FDI

Documentation

Technical documents

Data Description

Title Data Description
Language English
Filename Data-description-large.pdf

Other materials

Assessing the Potential Benefit of Trade Facilitation: A Global Perspective

Title Assessing the Potential Benefit of Trade Facilitation: A Global Perspective
Author(s) John S. Wilson Catherine L. Mann Tsunehiro Otsuki
Date 2004-02-01
Language English
Filename <http://go.worldbank.org/F9B5SKTRO0>
