

PRONTO Data Portal - Codebook

Year 2017



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1. PRONTO NTM Database

1.1. Consolidation and Improvement

1.1.1. Imputed WTO Notifications

These data are based on notifications of measures by WTO Members. There has been a large amount of processing, using text-based analysis, to map these NTM notifications to NTM categories as well as to affected products.

Reference: Ghodsi et al. (2017b)

Original data: WTO Notifications retrieved via I-TIP

Codebook Imputed WTO Notifications (d15 wiiw imputedHS)

Variable	Description	Class	Examples	Unique	Missing	Observations
ID	ID variable	integer	1, 1, 1, 1, ...	52420	0	6942290
Memberimposing	Country name of imposing member	character	"Afghanistan", "Afghanistan", "Afghanistan", "Afghanistan", ...	162	0	6942290
Partneraffected	Country name of partner affected	character	"All Members", "All Members", "All Members", "All Members", ...	203	0	6942290
Memberimposing_ISO3	3 character UN ISO country code (imposing member)	character	"AFG", "AFG", "AFG", "AFG", ...	158	0	6942290
Partneraffected_ISO3	3 character UN ISO country code (partner affected)	character	"WTO", "WTO", "WTO", "WTO", ...	191	0	6942290
Notifreq	Notification requirement	character	"SPS", "SPS", "SPS", "SPS", ...	14	0	6942290
Initiation	Date of measure initiation	Date	"2016-08-08", "2016-08-08", "2016-08-08", "2016-08-08", ...	6277	1333295	5608995
Inforce	Date of measure entering into force	Date	"2016-07-28", "2016-07-28", "2016-07-28", "2016-07-28", ...	3750	5081570	1860720
Latestnotifieddate	Date of latest notification	Date	2003-06-01	325	6513918	428372
Withdrawn	Date of measure withdrawn	Date	2010-07-15	1997	6867074	75216
DBorigin	Origin database	character	"itip", "itip", "itip", "itip", ...	3	0	6942290
HSorigin	Origin of 6-digit HS code	character	"HSfromDescMatch", "HSfromDescMatch", "HSfromDescMatch", ...	11	0	6942290
STC	Specific Trade Concern	character	"0", "0", "0", "0", ...	3	0	6942290
STC_NotifiedMeasure	STC of notified measure	character	NA	3	0	6942290
AO	NA	character	"", "", "", "", ...	2	0	6942290
BeginYearInflnit	Year of initiation	integer	2016, 2016, 2016, 2016, ...	51	5589	6936701
BeginYearInflnf	Year entering into force	integer	2016, 2016, 2016, 2016, ...	49	919197	6023093
EndYear	Year measure withdrawn	integer	1999	36	6867074	75216
ProductCode	6-digit product code	character	"180500", "100620", "090700", "170111", ...	5352	0	6942290
HScombined	6-digit product code in HS combined	character	"180500", "100620", "090700", "170113", ...	6502	0	6942290
HSRevmin	Oldest possible HS version	character	"HS0", "HS0", "HS0", "HS4", ...	8	0	6942290



HSRevmax	Newest possible HS version	character	"HS4", "HS4", "HS3", "HS4", ...	8	0	6942290
HSraw	Original HS code	numeric	18, 10, 9, 17, ...	22639	10395	6931895

Codebook Panel Dataset WTO Notifications (d15 wiiw panelNTM)

Variable	Description	Class	Examples	Unique	Missing	Observations
ImporterISO3	Importer 3 character UN ISO country code	character	"ALB", "ALB", "ALB", "ALB", ...	99	0	26529078
ExporterISO3	Exporter 3 character UN ISO country code	character	"AUT", "AUT", "AUT", "AUT", ...	186	0	26529078
Product	HS 6-digit product code	character	"010511", "010511", "010511", "010511", ...	5221	0	26529078
Year	Year	integer	1995, 1996, 1997, 1998, ...	21	0	26529078
ADP	Antidumping	integer	0, 0, 0, 0, ...	10	0	26529078
CV	Countervailing duties	integer	0, 0, 0, 0, ...	8	0	26529078
LIC	Licensing	integer	0, 0, 0, 0, ...	2	0	26529078
QR	Quantative restriction	integer	0, 0, 0, 0, ...	4	0	26529078
SG	Safeguards	integer	0, 0, 0, 0, ...	1	0	26529078
SPS	SPS	integer	0, 0, 0, 0, ...	22	0	26529078
SPSSTC	SPS STC	integer	0, 0, 0, 0, ...	10	0	26529078
SPSSTCd	SPS STC	integer	0, 0, 0, 0, ...	1	0	26529078
SSG	Specific safeguards	integer	0, 0, 0, 0, ...	1	0	26529078
STE	State trading enterprises	integer	0, 0, 0, 0, ...	1	0	26529078
TBT	TBT	integer	0, 0, 0, 0, ...	1	0	26529078
TBTSTC	TBT STC	integer	0, 0, 0, 0, ...	9	0	26529078
TBTSTCd	TBT STC	integer	0, 0, 0, 0, ...	1	0	26529078
TRQ	Tariff-rate quota	integer	0, 0, 0, 0, ...	1	0	26529078
XS	Export subsidy	integer	0, 0, 0, 0, ...	1	0	26529078

1.1.2. Border Rejection

Similar to the imputed WTO Notifications, here, product categories of the EU Rapid Alert System for Food and Feed (RASFF) border rejection data have been mapped to HS codes using text and string matching techniques.

Reference: Beestermöller, Disdier, and Fontagné (2017)

Original data: EU RASFF

Codebook Imputed RASFF Border Rejections (d22 pse rasff)

Variable	Description	Class	Examples	Unique	Missing	Observations
o	Country name of origin	character	"Australia", "Senegal", "China", "Guinea", ...	135	0	13241
d	Country name of destination	character	"Italy", "France", "France", "France", ...	30	0	13241
t	Year	integer	1997, 1997, 1997, 1997, ...	15	0	13241
description	RASFF product description	character	"kangaroo meat", "fish brochettes - frozen", ...	3671	0	13241
type	RASFF type of product	character	"meat (not poultry)", "fish", "fish", "fish", ...	25	0	13241
hs4	4-digit product code	character	"0208", "0303", "0303", "0304", ...	115	0	13241
hs2	2-digit product code	character	"02", "03", "03", "03", ...	20	0	13241
hs4_des	4-digit product description	character	"meat & edible offal nesoi, fresh, chilled or", ...	115	0	13241



original_subject	Subject of border rejection	character	"salmonella in kangaroo meat", ...	11574	0	13241
enter	Dummy whether product entered market	integer	0, 0, 0, 0, ...	1	0	13241
reason	Reason of border rejection	character	"microbiological hazards", "microbiological hazards", ...	15	0	13241
signal	NA	numeric	1, 1, 1, 1, ...	3	83	13158

1.1.3. Special Economic Zones

This dataset provides an indicator for whether a country has a special economic zone (SEZ) in place. As SEZs comprise many possible forms, the database provides information on three types of SEZs, (a) an export processing zone (EPZs are where import duties are waived on intermediates used in the production of exports), (b) export and import processing zones (and EPZ that also waives duties on imports that are sold domestically), and (c) a final classification that covers incentives beyond the waivers of duties (e.g. preferential taxation or lower regulation). The data covers 125 WTO member countries for 2011.

Reference: Davies and Francois (2015)

Original data: WTO Trade Policy Review Mechanism

Codebook Special Economics Zones (d21 uc dw ti sez)

Variable	Description	Class	Examples	Unique	Missing	Observations
iso3	3 character UN ISO country code	character	"AGO", "ALB", "ARE", "ARG", ...	125	0	125
name	Country name	character	"Angola", "Albania", "United Arab Emirates", "Argentina", ...	125	0	125
epz	Dummy for a country with export processing zone (from 2011-2015 TPRM report cycle)	integer	0, 0, 1, 0, ...	2	0	125
empz	Dummy for country with export and import processing zone (from 2011-2015 TPRM report cycle)	integer	0, 0, 0, 1, ...	2	0	125
sez	Dummy for a country with special industrial zones (except EPZs and EMPZs) (from 2011-2015 TPRM report cycle)	integer	0, 0, 0, 0, ...	2	0	125
ccostx2010	Cost to export (US\$ per 20 foot container), 2010	numeric	2050, 725, 521, 1480, ...	115	1	124
ccostx2011	Cost to export (US\$ per 20 foot container), 2011	numeric	2050, 745, 630, 1480, ...	117	0	125
ccostx2012	Cost to export (US\$ per 20 foot container), 2012	numeric	2050, 745, 630, 1650, ...	113	0	125
ccostx2013	Cost to export (US\$ per 20 foot container), 2013	numeric	2060, 745, 655, 1650, ...	111	0	125
ccostx2014	Cost to export (US\$ per 20 foot container), 2014	numeric	2060, 745, 665, 1770, ...	106	0	125
ccostx1014	Cost to export (US\$ per 20 foot container), 2010-14	numeric	2054, 741, 620.200012207031, 1606, ...	123	0	125
ccostm2010	Cost to import (US\$ per 20 foot container), 2010	numeric	2865, 710, 542, 1810, ...	119	1	124
ccostm2011	Cost to import (US\$ per 20 foot container), 2011	numeric	2715, 730, 635, 1810, ...	115	0	125



ccostm2012	Cost to import (US\$ per 20 foot container), 2012	numeric	2715, 730, 590, 2260, ...	115	0	125
ccostm2013	Cost to import (US\$ per 20 foot container), 2013	numeric	2725, 730, 615, 2260, ...	107	0	125
ccostm2014	Cost to import (US\$ per 20 foot container), 2014	numeric	2725, 730, 625, 2320, ...	106	0	125
ccostm1014	Cost to import (US\$ per 20 foot container), 2010-14	numeric	2749, 726, 601.400024414062, 2092, ...	121	0	125
xdays10	Time to export (days), 2010	numeric	52, 19, 7, 13, ...	38	1	124
xdays11	Time to export (days), 2011	numeric	48, 19, 7, 13, ...	36	0	125
xdays12	Time to export (days), 2012	numeric	48, 19, 7, 13, ...	36	0	125
xdays13	Time to export (days), 2013	numeric	40, 19, 7, 12, ...	44	0	125
xdays14	Time to export (days), 2014	numeric	40, 19, 7, 12, ...	41	0	125
xdays1014	Time to export (days), 2010-14	numeric	45.5999984741211, 19, 7, 12.6000003814697, ...	72	0	125
mdays10	Time to import (days), 2010	numeric	49, 18, 7, 16, ...	47	1	124
mdays11	Time to import (days), 2011	numeric	45, 18, 7, 16, ...	46	0	125
mdays12	Time to import (days), 2012	numeric	45, 18, 7, 30, ...	45	0	125
mdays13	Time to import (days), 2013	numeric	43, 18, 7, 30, ...	53	0	125
mdays14	Time to import (days), 2014	numeric	43, 18, 7, 30, ...	49	0	125
mdays1014	Time to import (days), 2010-14	numeric	45, 18, 7, 24.3999996185303, ...	77	0	125
bribesf10	percent of firms reporting bribes, 2010	numeric	51.2999992370605, NA, NA, 10.3000001907349, ...	21	103	22
bribesf11	percent of firms reporting bribes, 2011	numeric	6.90000009536743	4	122	3
bribesf12	percent of firms reporting bribes, 2012	numeric	14.1999998092651	3	123	2
bribesf13	percent of firms reporting bribes, 2013	numeric	NA, 19.5, NA, NA, ...	32	92	33
bribesf14	percent of firms reporting bribes, 2014	numeric	11.1000003814697	7	119	6
bribesf1014	percent of firms reporting bribes, 2010-14	numeric	51.2999992370605, 19.5, NA, 10.3000001907349, ...	58	60	65
cburden10	Burden of customs procedure, WEF (1=extremely inefficient to 7=extremely efficient), 2010	numeric	2.76261591911316, 4.02744293212891, 5.81013822555542, ...	113	13	112
cburden11	Burden of customs procedure, WEF (1=extremely inefficient to 7=extremely efficient), 2011	numeric	2.70000004768372, 4.19999980926514, 5.59999990463257, ...	37	10	115
cburden12	Burden of customs procedure, WEF (1=extremely inefficient to 7=extremely efficient), 2012	numeric	NA, 3.70000004768372, 5.80000019073486, 2.29999995231628, ...	39	11	114
cburden13	Burden of customs procedure, WEF (1=extremely inefficient to 7=extremely efficient), 2013	numeric	2.20000004768372, 3.29999995231628, 5.90000009536743, ...	36	9	116
cburden14	Burden of customs procedure, WEF (1=extremely inefficient to 7=extremely efficient), 2014	numeric	1.79999995231628, 3.40000009536743, 6, 2, ...	38	12	113
cburden1014	Burden of customs procedure, WEF (1=extremely inefficient to 7=extremely efficient), 2010-14	numeric	2.36565399169922, 3.72548866271973, 5.82202768325806, ...	118	8	117
portq10	Quality of port infrastructure, WEF (1=extremely underdeveloped to 7=well developed and efficient by international standards), 2010	numeric	2.07166004180908, 3.54077458381653, 6.16397094726562, ...	113	13	112
portq11	Quality of port infrastructure, WEF (1=extremely underdeveloped to 7=well developed and efficient by international standards), 2011	numeric	2.29999995231628, 3.90000009536743, 6.19999980926514, ...	44	10	115
portq12	Quality of port infrastructure, WEF (1=extremely underdeveloped to 7=well developed and efficient by international standards), 2012	numeric	NA, 3.70000004768372, 6.40000009536743, 3.59999990463257, ...	42	11	114



portq13	Quality of port infrastructure, WEF (1=extremely underdeveloped to 7=well developed and efficient by international standards), 2013	numeric	2.90000009536743, 3.5, 6.40000009536743, 3.70000004768372, ...	40	9	116
portq14	Quality of port infrastructure, WEF (1=extremely underdeveloped to 7=well developed and efficient by international standards), 2014	numeric	2.70000004768372, 3.70000004768372, 6.5, 3.70000004768372, ...	45	12	113
portq15	Quality of port infrastructure, WEF (1=extremely underdeveloped to 7=well developed and efficient by international standards), 2010-14	numeric	2.49291491508484, 3.66815495491028, 6.33279418945312, ...	118	8	117
ptax10	Total tax rate (% of commercial profits), 2010	numeric	52.0999984741211, 39.7000007629395, 14.1000003814697, ...	116	1	124
ptax11	Total tax rate (% of commercial profits), 2011	numeric	52.0999984741211, 37.7000007629395, 14.1000003814697, ...	115	0	125
ptax12	Total tax rate (% of commercial profits), 2012	numeric	52.0999984741211, 37.9000015258789, 14.8999996185303, 107.5, ...	113	0	125
ptax13	Total tax rate (% of commercial profits), 2013	numeric	52, 30.8999996185303, 14.8000001907349, 119.300003051758, ...	112	0	125
ptax14	Total tax rate (% of commercial profits), 2014	numeric	52, 30.7000007629395, 14.8000001907349, 137.300003051758, ...	112	0	125
ptax1014	Total tax rate (% of commercial profits), 2010-14	numeric	52.060001373291, 35.3800010681152, 14.539999961853, ...	122	0	125
fdiinc09	Primary income on FDI, payments (current US\$), 2009	numeric	6130050800, 447841240.35, NA, 8359882364.5, ...	72	47	78
fdiinc10	Primary income on FDI, payments (current US\$), 2010	numeric	7525740360, 380913894.02, NA, 9964411807.67, ...	73	47	78
fdiinc11	Primary income on FDI, payments (current US\$), 2011	numeric	9039928320, 139693472, NA, 10811012096, ...	67	47	78
fdiinc12	Primary income on FDI, payments (current US\$), 2012	numeric	9722100736, 168877120, NA, 10235853824, ...	64	47	78
fdiinc13	Primary income on FDI, payments (current US\$), 2013	numeric	9330651136, 173657376, NA, 8843565056, ...	43	47	78
fdiinc0913	Primary income on FDI, payments (current US\$), 2009-13	numeric	8349694464, 262196624, NA, 9642945536, ...	73	47	78
fdipct09	Foreign direct investment, net inflows (% of GDP), 2009	numeric	2.92121815681458, 11.1513442993164, 1.5786794424057, ...	125	0	125
fdipct10	Foreign direct investment, net inflows (% of GDP), 2010	numeric	-3.91315174102783, 9.13406753540039, 1.92286419868469, ...	125	0	125
fdipct11	Foreign direct investment, net inflows (% of GDP), 2011	numeric	-2.90423655509949, 8.14084339141846, 2.20998811721802, ...	125	0	125
fdipct12	Foreign direct investment, net inflows (% of GDP), 2012	numeric	-5.98045587539673, 7.45334720611572, 2.57898092269897, ...	125	0	125
fdipct13	Foreign direct investment, net inflows (% of GDP), 2013	numeric	-5.73440361022949, 9.70670700073242, 2.6067373752594, ...	125	0	125
fdipct14	Foreign direct investment, net inflows (% of GDP), 2014	numeric	NA, 8.68490314483643, NA, 1.22400462627411, ...	59	67	58
fdipct0913	Foreign direct investment, net inflows (% of GDP), 2009-13	numeric	-3.12220597267151, 9.11726188659668, 2.17945003509521, ...	125	0	125
leg10	Strength of legal rights index (0=weak to 12=strong), 2010	numeric	3, 9, 4, 4, ...	13	1	124



leg11	Strength of legal rights index (0=weak to 12=strong), 2011	numeric	3, 9, 4, 4, ...	12	0	125
leg12	Strength of legal rights index (0=weak to 12=strong), 2012	numeric	3, 9, 4, 4, ...	12	0	125
leg13	Strength of legal rights index (0=weak to 12=strong), 2013	numeric	1, 8, 2, 2, ...	14	0	125
leg14	Strength of legal rights index (0=weak to 12=strong), 2014	numeric	1, 7, 2, 2, ...	14	0	125
leg1014	Strength of legal rights index (0=weak to 12=strong), 2010-14	numeric	2.20000004768372, 8.39999961853027, 3.20000004768372, ...	41	0	125
htech09	High-technology exports (% of manufactured exports), 2009	numeric	NA, 0.764653325080872, NA, 8.68693351745605, ...	113	13	112
htech10	High-technology exports (% of manufactured exports), 2010	numeric	NA, 0.893509268760681, NA, 7.50483417510986, ...	110	16	109
htech11	High-technology exports (% of manufactured exports), 2011	numeric	NA, 0.530148804187775, NA, 7.48073959350586, ...	112	14	111
htech12	High-technology exports (% of manufactured exports), 2012	numeric	NA, 0.443274080753326, NA, 7.69544076919556, ...	104	22	103
htech13	High-technology exports (% of manufactured exports), 2013	numeric	NA, 0.513330698013306, NA, 9.84358692169189, ...	102	24	101
htech0913	High-technology exports (% of manufactured exports), 2009-13	numeric	NA, 0.628983199596405, NA, 8.24230670928955, ...	118	8	117
gdpusd10	GDP (current US\$), 2010	numeric	82470895616, 11926957056, 286049337344, 462843772928, ...	125	0	125
gdpusd11	GDP (current US\$), 2011	numeric	104115871744, 12890866688, 347454046208, 559849013248, ...	125	0	125
gdpusd12	GDP (current US\$), 2012	numeric	115341615104, 12344529920, 372313948160, 607711920128, ...	125	0	125
gdpusd13	GDP (current US\$), 2013	numeric	124163178496, 12916669440, 402340151296, 622058012672, ...	125	0	125
gdpusd14	GDP (current US\$), 2014	numeric	131400638464, 13370191872, 401646583808, 540197453824, ...	116	10	115
gdpusd1014	GDP (current US\$), 2010-14	numeric	111498436608, 12689843200, 361960833024, 558532067328, ...	125	0	125
co2pct07	CO2 emissions intensity (kg per 2011 PPP \$ of GDP), 2007	numeric	0.22006544470787, 0.188989415764809, 0.289737462997437, NA, ...	125	1	124
co2pct08	CO2 emissions intensity (kg per 2011 PPP \$ of GDP), 2008	numeric	0.208882257342339, 0.182797595858574, 0.320111930370331, NA, ...	125	1	124
co2pct09	CO2 emissions intensity (kg per 2011 PPP \$ of GDP), 2009	numeric	0.220393434166908, 0.170458972454071, 0.34561812877655, NA, ...	125	1	124
co2pct10	CO2 emissions intensity (kg per 2011 PPP \$ of GDP), 2010	numeric	0.21589894592762, 0.161680355668068, 0.350501775741577, NA, ...	125	1	124
co2pct11	CO2 emissions intensity (kg per 2011 PPP \$ of GDP), 2011	numeric	0.207527235150337, 0.166702911257744, 0.355884969234467, NA, ...	125	1	124



co2pct0711	CO2 emissions intensity (kg per 2011 PPP \$ of GDP), 2007-11	numeric	0.214553460478783, 0.174125850200653, 0.332370847463608, NA, ...	125	1	124
co2pcap07	CO2 emissions per capita in kt, 2007	numeric	1.41998553276062, 1.50753581523895, 24.0462875366211, ...	125	0	125
co2pcap08	CO2 emissions per capita in kt, 2008	numeric	1.48366367816925, 1.58011329174042, 23.3775043487549, ...	125	0	125
co2pcap09	CO2 emissions per capita in kt, 2009	numeric	1.55133998394012, 1.53317809104919, 21.0670375823975, ...	125	0	125
co2pcap10	CO2 emissions per capita in kt, 2010	numeric	1.52145111560822, 1.51563203334808, 19.8537979125977, ...	125	0	125
co2pcap11	CO2 emissions per capita in kt, 2011	numeric	1.47221565246582, 1.60703766345978, 19.9979801177979, ...	125	0	125
co2pcap0711	CO2 emissions per capita in kt, 2007-11	numeric	1.48973119258881, 1.54869937896729, 21.6685218811035, ...	125	0	125
co2kt07	CO2 emissions total in kt, 2007	numeric	25151.953125, 4477.4072265625, 139404.671875, 179738, ...	124	0	125
co2kt08	CO2 emissions total in kt, 2008	numeric	27172.470703125, 4657.08984375, 158935.109375, 191578.75, ...	124	0	125
co2kt09	CO2 emissions total in kt, 2009	numeric	29361.669921875, 4488.408203125, 162602.109375, 180654.75, ...	125	0	125
co2kt10	CO2 emissions total in kt, 2010	numeric	29743.037109375, 4415.06787109375, 167596.5625, 179000.9375, ...	125	0	125
co2kt11	CO2 emissions total in kt, 2011	numeric	29710.033203125, 4668.0908203125, 178483.890625, 190034.9375, ...	125	0	125
co2kt0711	CO2 emissions contained in exports MT, 2011	numeric	28227.83203125, 4541.212890625, 161404.46875, 184201.484375, ...	125	0	125
gnipc10	GNI per capita, converted to U.S. dollars using the World Bank Atlas method, 2010	numeric	3850, 4360, 33690, 10820, ...	116	2	123
gnipc11	GNI per capita, converted to U.S. dollars using the World Bank Atlas method, 2011	numeric	4010, 4390, 34400, 12190, ...	117	2	123
gnipc12	GNI per capita, converted to U.S. dollars using the World Bank Atlas method, 2012	numeric	4520, 4370, 38360, 13470, ...	121	1	124
gnipc13	GNI per capita, converted to U.S. dollars using the World Bank Atlas method, 2013	numeric	5170, 4510, 42420, 14590, ...	122	2	123
gnipc14	GNI per capita, converted to U.S. dollars using the World Bank Atlas method, 2014	numeric	5300, 4460, 43480, 14560, ...	104	21	104
gnipc1014	GNI per capita, converted to U.S. dollars using the World Bank Atlas method, 2010-14	numeric	4570, 4418, 38470, 13126, ...	124	1	124
mfgpct10	Manufacturing, value added (% of GDP), 2010	numeric	6.12461423873901, 11.2379293441772, 8.99995613098145, ...	112	14	111



mfgpct11	Manufacturing, value added (% of GDP), 2011	numeric	5.97467422485352, 9.90963840484619, 8.60445499420166, ...	110	16	109
mfgpct12	Manufacturing, value added (% of GDP), 2012	numeric	6.70614194869995, 8.79341793060303, 8.77656555175781, ...	109	17	108
mfgpct13	Manufacturing, value added (% of GDP), 2013	numeric	7.21259880065918, 9.0039005279541, 8.52852535247803, ...	106	20	105
mfgpct14	Manufacturing, value added (% of GDP), 2014	numeric	7.0613842010498, 8.85918045043945, NA, 14.5520753860474, ...	79	47	78
mfgpct1014	Manufacturing, value added (% of GDP), 2010-14	numeric	6.61588287353516, 9.56081295013428, 8.72737598419189, ...	112	14	111
polpct05	Percent of population exposed to ambient concentrations of PM2.5 measuring greater than 2.5 microns in diameter that exceed the WHO guideline value, 2005	numeric	73.66455078125, 100, 100, 4.9486198425293, ...	85	1	124
polpct10	Percent of population exposed to ambient concentrations of PM2.5 measuring greater than 2.5 microns in diameter that exceed the WHO guideline value, 2010	numeric	66.6249237060547, 100, 100, 4.30130004882812, ...	86	1	124
polpct0510	Percent of population exposed to ambient concentrations of PM2.5 measuring greater than 2.5 microns in diameter that exceed the WHO guideline value, 2005-10	numeric	70.1447372436523, 100, 100, 4.62495994567871, ...	87	1	124
polsmall05	Percent of population exposed to ambient concentrations of PM2.5 measuring less than 2.5 microns in diameter that exceed the WHO guideline value, 2005	numeric	10.3576202392578, 16.4109992980957, 65.6816635131836, ...	125	1	124
polsmall10	Percent of population exposed to ambient concentrations of PM2.5 measuring less than 2.5 microns in diameter that exceed the WHO guideline value, 2010	numeric	11.2307901382446, 14.2962198257446, 79.5193862915039, ...	125	1	124
polsmall0510	Percent of population exposed to ambient concentrations of PM2.5 measuring less than 2.5 microns in diameter that exceed the WHO guideline value, 2005-10	numeric	10.7942047119141, 15.3536100387573, 72.6005249023438, ...	125	1	124
apptmfg09	applied tariff or manufacturing trade weighted, 2009	numeric	6.59999990463257, 4.96999979019165, 4.36999988555908, ...	82	16	109
apptmfg10	applied tariff or manufacturing trade weighted, 2010	numeric	NA, NA, NA, 7.03000020980835, ...	61	35	90
apptmfg11	applied tariff or manufacturing trade weighted, 2011	numeric	NA, 0.899999976158142, NA, 6.69999980926514, ...	54	45	80
apptmfg12	applied tariff or manufacturing trade weighted, 2012	numeric	NA, 0.699999988079071, 4, 6.76000022888184, ...	55	42	83
apptmfg13	applied tariff or manufacturing trade weighted, 2013	numeric	NA, 0.740000009536743, 3.79999995231628, 7.67000007629395, ...	57	40	85
apptmfg0913	applied tariff or manufacturing trade weighted, 2009-13	numeric	6.59999990463257, 1.82749998569489, 4.0566668510437, ...	93	6	119
mfntmfg09	MFN tariff on manufactured goods, 2009	numeric	6.59999990463257, 4.96999979019165, 4.61999988555908, ...	80	16	109
mfntmfg10	MFN tariff on manufactured goods, 2010	numeric	NA, NA, NA, 13.8299999237061, ...	63	35	90



mfntmfg11	MFN tariff on manufactured goods, 2011	numeric	NA, 4.84000015258789, NA, 14.3199996948242, ...	53	45	80
mfntmfg12	MFN tariff on manufactured goods, 2012	numeric	NA, 3.04999995231628, 4.05000019073486, 14.1800003051758, ...	55	42	83
mfntmfg13	MFN tariff on manufactured goods, 2013	numeric	NA, 2.95000004768372, 3.82999992370605, 13.2700004577637, ...	57	39	86
mfntmfg0913	MFN tariff on manufactured goods, 2009-13	numeric	6.59999990463257, 3.95250010490417, 4.16666650772095, ...	94	5	120
trdpctgdp10	Trade (% of GDP), 2010	numeric	104.339744567871, 85.4645462036133, 151.000427246094, ...	123	3	122
trdpctgdp11	Trade (% of GDP), 2011	numeric	107.515647888184, 90.7628173828125, 163.127990722656, ...	123	3	122
trdpctgdp12	Trade (% of GDP), 2012	numeric	101.680145263672, 85.1674423217773, 173.294097900391, ...	121	5	120
trdpctgdp13	Trade (% of GDP), 2013	numeric	96.4937744140625, 87.6907958984375, 176.066879272461, ...	116	10	115
trdpctgdp14	Trade (% of GDP), 2014	numeric	100.531600952148, 92.5154266357422, 185.599548339844, ...	97	29	96
trdpctgdp1014	Trade (% of GDP), 2010-14	numeric	102.112182617188, 88.3202056884766, 169.817794799805, ...	123	3	122
nrpat09	Patent applications, residents 2009	integer	NA, 361, NA, NA, ...	76	48	77
nrpat10	Patent applications, residents 2010	integer	13625	73	47	78
nrpat11	Patent applications, residents 2011	integer	NA, 8, 1325, NA, ...	79	39	86
nrpat12	Patent applications, residents 2012	integer	NA, NA, 1331, 4078, ...	83	41	84
nrpat13	Patent applications, residents 2013	integer	NA, 4, 1408, 4129, ...	87	35	90
nrpat0913	Patent applications, residents 2009-13	numeric	NA, 124.3333335876465, 1354.66662597656, 4103.5, ...	98	27	98
rpat09	Patent applications, residents 2009	integer	242	71	51	74
rpat10	Patent applications, residents 2010	integer	241977	77	47	78
rpat11	Patent applications, residents 2011	integer	NA, 3, 26, NA, ...	79	42	83
rpat12	Patent applications, residents 2012	integer	NA, NA, 20, 735, ...	74	44	81
rpat13	Patent applications, residents 2013	integer	NA, NA, 18, 643, ...	80	39	86
rpat0913	Patent applications, residents 2009-13	numeric	NA, 3, 21.3333339691162, 689, ...	93	29	96
rndpct08	Research and development expenditure (% of GDP), 2008	numeric	NA, 0.153080001473427, NA, 0.523810029029846, ...	78	48	77
rndpct09	Research and development expenditure (% of GDP), 2009	numeric	NA, NA, NA, 0.595099985599518, ...	73	53	72
rndpct10	Research and development expenditure (% of GDP), 2010	numeric	NA, NA, NA, 0.617449998855591, ...	72	54	71
rndpct11	Research and development expenditure (% of GDP), 2011	numeric	NA, NA, 0.489109992980957, 0.646960020065308, ...	64	62	63
rndpct12	Research and development expenditure (% of GDP), 2012	numeric	1.26572000980377	36	90	35
rndpct0812	Research and development expenditure (% of GDP), 2008-2012	numeric	NA, 0.153080001473427, 0.489109992980957, 0.595830023288727, ...	93	33	92
jrnat07	Scientific and technical journal articles published, 2007	numeric	3.20000004768372, 12.3000001907349, 214, 3364.30004882812, ...	121	1	124



jrntart08	Scientific and technical journal articles published, 2008	numeric	2.20000004768372, 13.5, 255.5, 3567.10009765625, ...	120	1	124
jrntart09	Scientific and technical journal articles published, 2009	numeric	6.19999980926514, 8, 264.799987792969, 3655.19995117188, ...	122	1	124
jrntart10	Scientific and technical journal articles published, 2010	numeric	6.90000009536743, 18.2999992370605, 276.100006103516, ...	121	4	121
jrntart11	Scientific and technical journal articles published, 2011	numeric	6, 26.8999996185303, 323.5, 3862.80004882812, ...	121	4	121
jrntart0711	Scientific and technical journal articles published, 2007-11	numeric	4.90000009536743, 15.8000001907349, 266.779998779297, ...	125	1	124
pop07	Population, number of people, 2007	numeric	17712824, 2970017, 5797347, 39331357, ...	125	0	125
pop08	Population, number of people, 2008	numeric	18314441, 2947314, 6798635, 39676083, ...	125	0	125
pop09	Population, number of people, 2009	numeric	18926650, 2927519, 7718319, 40023641, ...	125	0	125
pop10	Population, number of people, 2010	numeric	19549124, 2913021, 8441537, 40374224, ...	125	0	125
pop11	Population, number of people, 2011	numeric	20180490, 2904780, 8925096, 40728738, ...	125	0	125
pop12	Population, number of people, 2012	numeric	20820525, 2900489, 9205651, 41086927, ...	125	0	125
pop13	Population, number of people, 2013	numeric	21471618, 2897366, 9346129, 41446246, ...	125	0	125
pop14	Population, number of people, 2014	numeric	22137261, 2894475, 9445624, 41803125, ...	125	0	125
jrntartpm07	Scientific and technical journal articles published per million population, 2007	numeric	0.1806600689888, 4.14139032363892, 36.9134368896484, ...	125	1	124
jrntartpm08	Scientific and technical journal articles published per million population, 2008	numeric	0.120123788714409, 4.58044195175171, 37.5810737609863, ...	125	1	124
jrntartpm09	Scientific and technical journal articles published per million population, 2009	numeric	0.32758042216301, 2.73268938064575, 34.3079872131348, ...	125	1	124
jrntartpm10	Scientific and technical journal articles published per million population, 2010	numeric	0.352956980466843, 6.28213787078857, 32.7073135375977, ...	122	4	121
jrntartpm11	Scientific and technical journal articles published per million population, 2011	numeric	0.29731684923172, 9.26059818267822, 36.2461090087891, ...	122	4	121
jrntartpm0711	Scientific and technical journal articles published per million population, 2007-11	numeric	0.255727618932724, 5.3994517326355, 35.5511856079102, ...	124	2	123
co2exp11	CO2 emissions contained in exports MT, 2011	numeric	NA, 2684.724609375, 127866.4921875, 106110, ...	111	15	110

1.1.4. Crisis-era Policy Response Measures

This dataset compiles crisis-era response measures in the Global Trade Alert Database. Especially, the focus of is on public purchasing policies.

Reference: Evenett and Shingal (2016)

Original data: Global Trade Alert



Codebook Crisis-era Response Measures (d25 wtipse crisis)

Variable	Description	Class	Examples	Unique	Missing	Observations
title	GTA title of measure	character	"United Kingdom: Public procurement plan for food and drink", ...	541	0	548
implementingjurisdictions	Country name of implementing jurisdiction	character	"United Kingdom of Great Britain and Northern Ireland", ...	38	0	548
measuretype	GTA measure type	character	"Public procurement localization", ...	30	0	548
gtaevaluation	GTA evaluation of measure	character	"Amber", "Red", "Red", "Red", ...	3	0	548
implemented	Dummy whether measure is implemented	character	"No", "Yes", "Yes", "Yes", ...	2	0	548
dateofinception	Date of inception	character	"1/1/2017", "7/30/2016", "7/29/2016", "7/29/2016", ...	211	0	548
year	Year of inception	integer	2017, 2016, 2016, 2016, ...	11	41	507
duration	Duration of measure	character	"", "", "", "", ...	23	0	548
sectors	CPC (2-digit) sector	character	"21, 22, 23, 24", "41, 42", "41, 42", "41, 42", ...	113	0	548
affectedproducts	Affected product	character	"", ...	123	0	548
affectedjurisdictions	Country name of affected jurisdiction	character	"None specified", ...	156	0	548
linktogtaentry	Link to entry on GTA website	character	"http://www.globaltradealert.org/node/7597", ...	548	0	548

1.1.5. Public Procurement and Trade Flows

This database matches the Global Trade Alert public procurement related measures with BACI trade flow data. Information is on the HS 6-digit product level.

Reference: Disdier, Fontagné, and Tresa (2018)

Original data: Global Trade Alert and BACI

Codebook Public Procurement and BACI (d26 pse procurement)

Variable	Description	Class	Examples	Unique	Missing	Observations
i_code	3 character UN ISO country code (exporter)	Factor w/ 180 levels	"ABW", "AFG", "AGO", "AIA", ...	180	0	4598344
j_code	3 character UN ISO country code (importer)	Factor w/ 41 levels	"ARG", "AUS", "AUT", "BEL", ...	41	0	4598344
year	Year	integer	2013, 2014, 2009, 2012, ...	8	0	4598344
hs6	6-digit product code	integer	271019, 271019, 271019, 271019, ...	3415	0	4598344
v	Value of exports to j	numeric	0, 0, 0, 0, ...	379903	0	4598344
q	Quantity (in tons) of export to j	numeric	0, 0, 0, 0, ...	361868	781	4597563



measure_id	ID variable	integer	17705, 17705, 17705, 17705, ...	634	0	4598344
state_act	GTA title of measure	Factor w/ 626 levels	United States of America: Buy-American rules for \$10 million TIGER transportation grant in Colorado	626	0	4598344
gta_eval	GTA evaluation of measure	Factor w/ 2 levels	"Amber", "Red"	2	0	4598344
gta_type	GTA measure type	Factor w/ 5 levels	"Public procurement access", ...	5	0	4598344
gta_mast	MAST chapter name	Factor w/ 4 levels	"L Subsidies (excluding export subsidies under P7)"	4	0	4598344
mast_code	MAST chapter	Factor w/ 2 levels	"L", "M"	2	0	4598344
mast_desc	MAST chapter description	Factor w/ 2 levels	"Government procurement restrictions"	2	0	4598344
measure	Dummy for measure presence	integer	1, 1, 0, 1, ...	2	0	4598344

1.2. Indicators

1.2.1. NTM GVC AVEs

This database provides two measures of ad-valorem equivalences (AVE) from a combined set of nine different NTMS (including SPS, TBT, specific trade concerns for these, and other NTMs). The coverage matches the WIOD database in terms of sectors (35 sectors), country coverage (41 importers), and time (2002-2011). In addition to the direct AVE, the database reports indirect AVEs which are accumulated via the global value chain (where the weighted averages are constructed via input/output tables).

Reference: Ghodsi et al. (2017a)

Original data: WTO Notifications retrieved via I-TIP

Codebook Value Chain AVEs (d31 wiiw gvc)

Variable	Description	Class	Examples	Unique	Missing	Observations
i	Exporter 3 character UN ISO country code	character	"AUS", "AUS", "AUS", "AUS", ...	41	0	58835
j	Importer 3 character UN ISO country code	character	"AUS", "AUS", "AUS", "AUS", ...	41	0	58835
h	Sector number	integer	1, 2, 3, 4, ...	35	0	58835
WIOD	WIOD sector name	character	"Agriculture, Hunting, Forestry and Fishing", ...	35	0	58835
Sect	Short sector name	character	"Agriculture", "Mining", "Food products", ...	35	0	58835
M	Period-averaged import of h from j to i	numeric	1, 1, 1, 1, ...	51030	0	58835
X	Period-averaged export of h from i to j	numeric	1, 1, 1, 1, ...	51030	0	58835
BRI_1ijh	BRI first channel	numeric	0, 0, 0, 0, ...	24211	0	58835
T_1ijh	T first channel	numeric	0, 0, 0, 0, ...	20002	0	58835
ave_TBT_1ijh	AVE TBT first channel	numeric	0, 0, 0, 0, ...	9558	0	58835
ave_SPS_1ijh	AVE SPS first channel	numeric	0, 0, 0, 0, ...	5794	0	58835
ave_TBTSTC_1ijh	AVE TBT STC first channel	numeric	0, 0, 0, 0, ...	4686	0	58835



ave_SPSSTC_1ijh	AVE SPS STC first channel	numeric	0, 0, 0, 0, ...	1486	0	58835
ave_ADP_1ijh	AVE Antidumping first channel	numeric	0, 0, 0, 0, ...	5421	0	58835
ave_CV_1ijh	AVE Countervailing duty first channel	numeric	0, 0, 0, 0, ...	1845	0	58835
ave_QR_1ijh	AVE Quantative restriction first channel	numeric	0, 0, 0, 0, ...	3182	0	58835
ave_SG_1ijh	AVE SG first channel	numeric	0, 0, 0, 0, ...	1439	0	58835
ave_SSG_1ijh	AVE SSG first channel	numeric	0, 0, 0, 0, ...	297	0	58835
BRI_2ijh	BRI second channel	numeric	0, 0, 0, 0, ...	24211	0	58835
T_2ijh	T second channel	numeric	0, 0, 0, 0, ...	20002	0	58835
ave_TBT_2ijh	AVE TBT second channel	numeric	0, 0, 0, 0, ...	9558	0	58835
ave_SPS_2ijh	AVE SPS second channel	numeric	0, 0, 0, 0, ...	5794	0	58835
ave_TBTSTC_2ijh	AVE TBT STC second channel	numeric	0, 0, 0, 0, ...	4686	0	58835
ave_SPSSTC_2ijh	AVE SPS STC second channel	numeric	0, 0, 0, 0, ...	1486	0	58835
ave_ADP_2ijh	AVE Antidumping second channel	numeric	0, 0, 0, 0, ...	5421	0	58835
ave_CV_2ijh	AVE Countervailing duty second channel	numeric	0, 0, 0, 0, ...	1845	0	58835
ave_QR_2ijh	AVE Quantative restriction second channel	numeric	0, 0, 0, 0, ...	3182	0	58835
ave_SG_2ijh	AVE SG second channel	numeric	0, 0, 0, 0, ...	1439	0	58835
ave_SSG_2ijh	AVE SSG second channel	numeric	0, 0, 0, 0, ...	297	0	58835
BRI_3ijh	BRI third channel	numeric	-0.749268472194672, -0.574037492275238, -0.756508409976959, ...	1393	0	58835
T_3ijh	T third channel	numeric	0.290977150201797, 0.277520000934601, 0.407152742147446, ...	1390	0	58835
ave_TBT_3ijh	AVE TBT third channel	numeric	0.00995097681879997, -0.0339516289532185, ...	1393	0	58835
ave_SPS_3ijh	AVE SPS third channel	numeric	-0.00137967255432159, -0.00403094617649913, ...	1393	0	58835
ave_TBTSTC_3ijh	AVE TBT STC third channel	numeric	-0.141081586480141, -0.141426131129265, -0.280374646186829, ...	1393	0	58835
ave_SPSSTC_3ijh	AVE SPS STC third channel	numeric	-0.00495411781594157, -0.000516924541443586, ...	1393	0	58835
ave_ADP_3ijh	AVE Antidumping third channel	numeric	-1.09265565872192, -1.46466743946075, -1.09339737892151, ...	1392	0	58835
ave_CV_3ijh	AVE Countervailing duty third channel	numeric	0.365515768527985, 0.855471789836884, 0.703208088874817, ...	1393	0	58835
ave_QR_3ijh	AVE Quantative restriction third channel	numeric	-0.013904633000493, -0.0191081371158361, -0.0107354326173663, ...	1392	0	58835
ave_SG_3ijh	AVE SG third channel	numeric	-0.160917833447456, -0.042609665542841, -0.419268220663071, ...	1392	0	58835
ave_SSG_3ijh	AVE SSG third channel	numeric	-0.000818811822682619, -0.000718392140697688, ...	1392	0	58835
RNri	Integer equal 1	integer	1, 1, 1, 1, ...	1	0	58835



1.2.2. Import demand elasticities

The databases contains import demand elasticities for 167 countries over 5124 products at the 6-digit level of the Harmonized System. The estimates cover the period of 1996 to 2014.

Reference: Ghodsi, Gruebler, and Stehrer (2016b)

Original data: WTO Notifications retrieved via I-TIP

Codebook Importer Demand Elasticities (d31 wiiw elas)

Variable	Description	Class	Examples	Unique	Missing	Observations
iso3	3 character UN ISO country code	character	"ABW", "ABW", "ABW", "ABW", ...	168	0	715175
iso2	2 character UN ISO country code	character	"AW", "AW", "AW", "AW", ...	168	0	715175
country	Country name	character	"Aruba", "Aruba", "Aruba", "Aruba", ...	168	0	715175
sector	Manufacturing or AgriFood	character	"AgriFood", "AgriFood", "AgriFood", "AgriFood", ...	2	0	715175
hs2	HS 2-digit sector code	numeric	1, 1, 1, 1, ...	96	0	715175
product	HS 6-digit product code	integer	10111, 10119, 10290, 10310, ...	5382	0	715175
elasticity	Elasticity estimate	numeric	NA, NA, -0.897629261016846, -1.25984191894531, ...	536778	166550	548625
elasticity_sign	Binding elasticity estimate if significantly different from 0 at the 10% level	numeric	NA, NA, NA, -1.25984191894531, ...	436302	267916	447259
se	Standard error	numeric	0.488889068365097, 0.693367421627045, 0.81571102142334, ...	684617	27248	687927
p	p-value	numeric	0.88525801897049, 0.612992346286774, 0.271148443222046, 0, ...	513633	27248	687927

1.2.3. Importer-specific ad-valorem equivalents

Ad valorem equivalents of NTMs over the period of 2002-2011 at the 6-digit product level of the Harmonized System. The data is based on a gravity approach and covers about 100 WTO member countries. Estimates are differentiated in accordance to the the NTMs notified to the WTO.

Reference: Ghodsi, Gruebler, and Stehrer (2016a)

Original data: WTO Notifications retrieved via I-TIP

Codebook Importer AVEs (d31 wiiw ave)

Variable	Description	Class	Examples	Unique	Missing	Observations
iso3	3 character UN ISO country code	character	"ALB", "ALB", "ALB", "ALB", ...	100	0	68532
iso2	2 character UN ISO country code	character	"AL", "AL", "AL", "AL", ...	100	0	68532
country	Country name	character	"Albania", "Albania", "Albania", "Albania", ...	100	0	68532
sector	Manufacturing or AgriFood	character	"AgriFood", "AgriFood", "AgriFood", "AgriFood", ...	2	0	68532
hs2	HS 2-digit sector code	numeric	1, 1, 1, 1, ...	96	0	68532
product	HS 6-digit product code	integer	10210, 10310, 10511, 10512, ...	4134	0	68532



ave_ADP	AVE Antidumping	numeric	-100	5258	62585	5947
ave_CVD	AVE Countervailing duty	numeric	-2.40951442718506	578	67840	692
ave_QRS	AVE Quantative restriction	numeric	-4.17681694030762	3630	64750	3782
ave_SG	AVE SG	numeric	2.94491696357727	84	68442	90
ave_SSG	AVE SSG	numeric	6.88500308990479	74	68455	77
ave_SPS	AVE SPS	numeric	NA, NA, NA, -1.31985604763031, ...	20786	47509	21023
ave_SPSSTC	AVE SPS STC	numeric	7.38531875610352	2951	64887	3645
ave_TBT	AVE TBT	numeric	86.0164260864258, 52.0333595275879, 20.7940425872803, ...	48040	19175	49357
ave_TBTSTC	AVE TBT STC	numeric	102.103492736816	9921	56595	11937
p_ADP	p-value AVE Antidumping	numeric	0.000189300015335903	4854	62585	5947
p_CVD	p-value AVE Countervailing duty	numeric	0	557	67840	692
p_QRS	p-value AVE Quantative restriction	numeric	0.0723854750394821	3678	64751	3781
p_SG	p-value AVE SG	numeric	0.786943316459656	84	68442	90
p_SSG	p-value AVE SSG	numeric	0.898930788040161	72	68455	77
p_SPS	p-value AVE SPS	numeric	NA, NA, NA, 0.838181555271149, ...	20290	47510	21022
p_SPSSTC	p-value AVE SPS STC	numeric	0.0227252505719662	3236	64887	3645
p_TBT	p-value AVE TBT	numeric	0.000100523036962841, 0.0144450962543488, 0.141267389059067, ...	47320	19187	49345
p_TBTSTC	p-value AVE TBT STC	numeric	0.236706107854843	10111	56595	11937

1.2.4. WIOD & STRIs

This database links the World Bank Services Trade Restrictiveness Index (STRI), OECD STRI, and the OECD FDI Restrictiveness index to the WIOD database. This then covers 40 countries (plus the rest of the world) for the 22 services industries. The STRI measures are cross-sectional only (2007-2008 for the World Bank, 2014-2015 for the OECD); the FDI restrictiveness index covers multiple years (1997, 2003, 2006, and 2014).

Reference: Leitner, Pindyuk, and Stehrer (2017)

Original data: World Bank STRI, OECD STRI, and OECD FDI Restrictiveness Index

Codebook WIOD Mapping of STRIs (d32 wiiw striwiod)

Variable	Description	Class	Examples	Unique	Missing	Observations
REP	3 character UN ISO country code	character	"AUS", "AUS", "AUS", "AUS", ...	40	0	440
RNr	Sector number	numeric	18, 20, 21, 22, ...	11	0	440
Ind	WIOD sector number	character	"F", "51", "52", "H", ...	11	0	440
Description	WIOD sector name	character	"Construction", ...	11	0	440
OECD_STRI	OECD STRI score	numeric	0.137026191, 0, 0, 0, ...	221	0	440
OECD_FDI	OECD FDI Restrictiveness score	numeric	0.0750000029802322, 0.0750000029802322, ...	73	0	440
WB_STRI	World Bank STRI score	numeric	0, 0, 0, 0, ...	46	0	440

Codebook Services and Labor Productivity - I (d32 wiiw servlab 1)

Variable	Description	Class	Examples	Unique	Missing	Observations
REP	3 character UN ISO country code	character	"AUT", "AUT", "AUT", "AUT", ...	27	0	378



RNr	Sector number	numeric	3, 4, 5, 6, ...	14	0	378
Ind	WIOD sector number	character	"15t16", "17t18", "19", "20", ...	14	0	378
Description	WIOD sector name	character	"Food, Beverages and Tobacco", ...	14	0	378
DlnLPVA	Growth in labor productivity (value added based, in log terms)	numeric	0.0197571683675051, 0.0347550585865974, 0.0285859797149897, ...	362	17	361
InitlnLPVA	Labor productivity (real value added based, PPP-adjusted, in log terms)	numeric	3.81571483612061, 3.51875352859497, 3.39453864097595, ...	362	0	378
shDom	Share of domestic business services in total costs	numeric	0.216619983315468, 0.219001024961472, 0.236084297299385, ...	374	0	378
shFor	Share of foreign business services in total costs	numeric	0.0385650917887688, 0.0295753534883261, 0.0243669394403696, ...	374	0	378
shSEAH_HS	Share of high-skilled labor	numeric	0.109680666666667, 0.109680666666667, 0.109680666666667, ...	167	0	378
shSEAH_LS	Share of low-skilled labor	numeric	0.219265333333333, 0.219265333333333, 0.219265333333333, ...	164	0	378

Codebook Services and Labor Productivity - II (d32 wiiw servlab 2)

Variable	Description	Class	Examples	Unique	Missing	Observations
REP	3 character UN ISO country code	character	"AUT", "AUT", "AUT", "AUT", ...	27	0	378
RNr	Sector number	numeric	3, 4, 5, 6, ...	14	0	378
Ind	WIOD sector number	character	"15t16", "17t18", "19", "20", ...	14	0	378
Description	WIOD sector name	character	"Food, Beverages and Tobacco", ...	14	0	378
shFor	Share of foreign business services in total costs	numeric	0.0385650917887688, 0.0295753534883261, 0.0243669394403696, ...	374	0	378
lnLPVA	Labor productivity (real value added based, PPP-adjusted, in log terms)	numeric	3.94344568252563, 3.81509184837341, 3.55566811561584, ...	363	16	362
shSEA_HS	Share of high-skilled labor	numeric	0.109680666666667, 0.109680666666667, 0.109680666666667, ...	164	0	378
shSEA_LS	Share of low-skilled labor	numeric	0.219265333333333, 0.219265333333333, 0.219265333333333, ...	162	0	378
MeanOECD_STRI	OECD STRI index, mean	numeric	0.127508550882339, 0.127508550882339, 0.127508550882339, ...	23	0	378
MeanOECD_FDI	OECD FDI RI index, mean	numeric	0.0801818147301674, 0.0801818147301674, 0.0801818147301674, ...	21	0	378
MeanWB_STRI	World Bank STRI index, mean	numeric	0.105454541742802, 0.105454541742802, 0.105454541742802, ...	21	0	378

1.2.5. Extended STRI

This database provides an index drawing from the World Bank's Services Trade Restrictions Project. The measure ranges from 0 (fully open) to 100 (fully closed) for modes 1, 3 and 4 (under the GATS classification system) as well as a combined index. The data cover 103 countries and consider policies in place during 2007-2009.



Reference: Francois and Manchin (2016)

Original data: World Bank STRI

Codebook Extended STRIs (d15 wti stri)

Variable	Description	Class	Examples	Unique	Missing	Observations
ssid	Sector ID from World Bank	integer	0, 1000, 1010, 1012, ...	28	0	2862
country	Country name	character	"Albania", "Albania", "Albania", "Albania", ...	104	0	2862
iso	3 character UN ISO country code	character	"ALB", "ALB", "ALB", "ALB", ...	104	0	2862
label	Sector description	character	"Overall", "Financial", "Banking", "Lending by banks", ...	28	0	2862
stri_all	Overall STRI	numeric	19.3999996185303, 17.5, 7.5, 0, ...	341	104	2758
stri_mode1	STRI for mode 1	numeric	74.7600021362305, 69.3899993896484, 50, 0, ...	143	1010	1852
stri_mode3	STRI for mode 3	numeric	11.1899995803833, 0, 0, 0, ...	186	0	2862
stri_mode4	STRI for mode 4	numeric	50	25	2030	832
exec_all	STRI overall, extra-EU firms	numeric	0	137	2298	564
exec_m1	STRI for mode 1, extra-EU firms	numeric	25	59	2469	393
exec_m3	STRI for mode 3, extra-EU firms	numeric	50	87	2283	579
exec_m4	STRI for mode 4, extra-EU firms	numeric	100	23	2692	170
inec_all	STRI overall, intra-EU firms	numeric	0	123	2298	564
inec_m1	STRI for mode 1, intra-EU firms	numeric	0	40	2475	387
inec_m3	STRI for mode 3, intra-EU firms	numeric	0	72	2283	579
inec_m4	STRI for mode 4, intra-EU firms	numeric	24.9997501373291	28	2692	170

1.2.6. NTM-MAP

NTM-MAP (Non-Tariff Measures MAP) contains indicators measuring the incidence of Non-Tariff Measures by using different methodologies and the UNCTAD TRAINS Database as source data. Three indexes are proposed as proxies for NTMs occurrence: (a) a frequency index, (b) the coverage ratio, and (c) the prevalence score.

These indices are systematically computed for 71 countries (as well as including the EU28) and is done globally and for two level of products aggregation (HS2 or HS-Section). The NTMs covered include for five different categories of NTMs: (a) SPS; (b) TBT; (c) PSI; (d) Contingent trade-protective measures, and (e) Non-automatic licensing, quotas, prohibitions and quantity-control measures. The indexes are provided in three distinct files, for the most recent year over the period 2009-2015.

Reference: Gourdon (2014)

Original data: UNCTAD NTMTRAINS



Codebook NTM MAP Country Level Indicators (d15 pse ntmmap country)

Variable	Description	Class	Examples	Unique	Missing	Observations
isor	3 character UN ISO country code	character	"ARG", "AUT", "BDI", "BEL", ...	63	0	63
HSline	Total number of official HS lines	numeric	5853, 5853, 5853, 5853, ...	1	0	63
NumA	Prevalence score SPS	numeric	1.11052346229553, 1.58147644996643, 0.796335101127625, ...	63	0	63
NumB	Prevalence score TBT	numeric	1.44336950778961, 3.11877536773682, 1.50994765758514, ...	63	0	63
NumC	Prevalence score Pre-shipment inspection	numeric	0.44110119342804, 0.0548343360424042, 0.509031414985657, ...	57	0	63
NumD	Prevalence score Contingent protection	numeric	0.0230338238179684, 0, 0.0191099476069212, 0, ...	27	0	63
NumE	Prevalence score Licensing	numeric	0.202739164233208, 0.0947490781545639, 0.308376967906952, ...	62	0	63
NumNTM	Prevalence score Total	numeric	3.22076725959778, 4.84983539581299, 3.14280104637146, ...	63	0	63
PresA	Number of products with at least one NTM SPS	numeric	1031, 816, 358, 822, ...	60	0	63
PresB	Number of products with at least one NTM TBT	numeric	3141, 3977, 1670, 3894, ...	63	0	63
PresC	Number of products with at least one NTM Pre-shipment inspection	numeric	1581, 283, 1077, 270, ...	50	0	63
PresD	Number of products with at least one NTM Contingent protection	numeric	95, 0, 51, 0, ...	23	0	63
PresE	Number of products with at least one NTM Licensing	numeric	895, 489, 732, 418, ...	58	0	63
PresNTM	Number of products with at least one NTM Total	numeric	3454, 4055, 1747, 3967, ...	63	0	63
CovA	Coverage ratio SPS	numeric	0.158551173557884, 0.107469545253452, 0.462467185060632, ...	63	0	63
CovB	Coverage ratio TBT	numeric	0.802405594483548, 0.794419637704204, 0.724886202164619, ...	63	0	63
CovC	Coverage ratio Pre-shipment inspection	numeric	0.332320095624095, 0.0519083863310588, 0.39353783085204, ...	57	0	63
CovD	Coverage ratio Contingent protection	numeric	0.0400056365348007, 0, 0.0681979211236694, 0, ...	27	0	63
CovE	Coverage ratio Licensing	numeric	0.440984264231044, 0.0611819390485433, 0.234140396232362, ...	62	0	63
CovNTM	Coverage ratio Total	numeric	0.836687965876167, 0.803653317765616, 0.809736092521298, ...	63	0	63
FreqA	Frequency index SPS	numeric	0.176148980855942, 0.139415681362152, 0.0611652135848999, ...	60	0	63
FreqB	Frequency index TBT	numeric	0.536647856235504, 0.679480612277985, 0.285323768854141, ...	63	0	63
FreqC	Frequency index Pre-shipment inspection	numeric	0.270117878913879, 0.0483512729406357, 0.184008195996284, ...	50	0	63
FreqD	Frequency index Contingent protection	numeric	0.0162309929728508, 0, 0.00871348008513451, 0, ...	23	0	63
FreqE	Frequency index Licensing	numeric	0.15291303396225, 0.0835468992590904, 0.125064074993134, ...	58	0	63



FreqNTM	Frequency index Total	numeric	0.590124726295471, 0.692807078361511, 0.298479408025742, ...	63	0	63
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Codebook NTM MAP HS Section Level Indicators (d15 pse ntmmmap hsection)

Variable	Description	Class	Examples	Unique	Missing	Observations
isor	3 character UN ISO country code	character	"ARG", "ARG", "ARG", "ARG", ...	63	0	1321
Section	HS section	numeric	1, 2, 3, 4, ...	21	0	1321
lineSection	Number of official lines by section	numeric	312, 424, 46, 197, ...	21	0	1321
NumA	Prevalence score SPS	numeric	5.76769065856934, 6.56608438491821, 3.97368407249451, ...	636	0	1321
NumB	Prevalence score TBT	numeric	1.09712195396423, 1.55676853656769, 0.710526287555695, ...	965	0	1321
NumC	Prevalence score Pre-shipment inspection	numeric	0.383597880601883, 0.0480349361896515, 0, 0.0451977401971817, ...	418	0	1321
NumD	Prevalence score Contingent protection	numeric	0, 0, 0, 0, ...	152	0	1321
NumE	Prevalence score Licencing	numeric	0, 0, 0, 0.0282485876232386, ...	395	0	1321
NumNTM	Prevalence score Total	numeric	7.24841070175171, 8.17088794708252, 4.68421030044556, ...	1092	0	1321
PresA	Number of products with at least one NTM SPS	numeric	85, 187, 29, 153, ...	170	0	1321
PresB	Number of products with at least one NTM TBT	numeric	77, 153, 20, 149, ...	330	0	1321
PresC	Number of products with at least one NTM Pre-shipment inspection	numeric	40, 11, 0, 8, ...	151	0	1321
PresD	Number of products with at least one NTM Contingent protection	numeric	0, 0, 0, 0, ...	51	0	1321
PresE	Number of products with at least one NTM Licencing	numeric	0, 0, 0, 5, ...	121	0	1321
PresNTM	Number of products with at least one NTM Total	numeric	85, 187, 29, 157, ...	359	0	1321
CovA	Coverage ratio SPS	numeric	0.00388047718162099, 0.00818528339704727, ...	810	0	1321
CovB	Coverage ratio TBT	numeric	0.00340064082002911, 0.00769310358466768, ...	1112	0	1321
CovC	Coverage ratio Pre-shipment inspection	numeric	0.00271998766205694, 0.000613725148468802, 0, ...	552	0	1321
CovD	Coverage ratio Contingent protection	numeric	0, 0, 0, 0, ...	156	0	1321
CovE	Coverage ratio Licencing	numeric	0, 0, 0, 0.000189104081528058, ...	451	0	1321
CovNTM	Coverage ratio Total	numeric	0.00388047718162099, 0.00818528339704727, ...	1249	0	1321
FreqA	Frequency index SPS	numeric	0.272435903549194, 0.441037744283676, 0.630434811115265, ...	382	0	1321
FreqB	Frequency index TBT	numeric	0.246794864535332, 0.360849052667618, 0.434782594442368, ...	713	0	1321
FreqC	Frequency index Pre-shipment inspection	numeric	0.128205135464668, 0.0259433966130018, 0, 0.040609136223793, ...	279	0	1321
FreqD	Frequency index Contingent protection	numeric	0, 0, 0, 0, ...	122	0	1321
FreqE	Frequency index Licencing	numeric	0, 0, 0, 0.0253807101398706, ...	282	0	1321



FreqNTM	Frequency index Total	numeric	0.272435903549194, 0.441037744283676, 0.630434811115265, ...	791	0	1321
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Codebook NTM MAP HS 2-digit Level Indicators (d15 pse ntmmap hs2)

Variable	Description	Class	Examples	Unique	Missing	Observations
isor	3 character UN ISO country code	character	"ARG", "ARG", "ARG", "ARG", ...	63	0	6047
HS2digit	HS 2-digit code	character	"01", "02", "03", "04", ...	97	0	6047
lineHS2digit	Number of official lines by 2-digit section	numeric	36, 79, 114, 35, ...	62	0	6047
NumA	Prevalence score SPS	numeric	6.83333349227905, 6.85185194015503, 5.35546541213989, ...	1321	0	6047
NumB	Prevalence score TBT	numeric	0.857142865657806, 1.40740740299225, 1.37994503974915, ...	1934	0	6047
NumC	Prevalence score Pre-shipment inspection	numeric	1.2380952835083, 0.703703701496124, 0.14583332836628, 0.125, ...	677	0	6047
NumD	Prevalence score Contingent protection	numeric	0, 0, 0, 0, ...	243	0	6047
NumE	Prevalence score Licensing	numeric	0, 0, 0, 0, ...	541	0	6047
NumNTM	Prevalence score Total	numeric	8.9285717010498, 8.96296310424805, 6.88124418258667, 6.5, ...	2582	0	6047
PresA	Number of products with at least one NTM SPS	numeric	12, 21, 32, 14, ...	107	0	6047
PresB	Number of products with at least one NTM TBT	numeric	6, 21, 32, 14, ...	235	0	6047
PresC	Number of products with at least one NTM Pre-shipment inspection	numeric	12, 17, 7, 2, ...	120	0	6047
PresD	Number of products with at least one NTM Contingent protection	numeric	0, 0, 0, 0, ...	59	0	6047
PresE	Number of products with at least one NTM Licencing	numeric	0, 0, 0, 0, ...	113	0	6047
PresNTM	Number of products with at least one NTM Total	numeric	12, 21, 32, 14, ...	239	0	6047
CovA	Coverage ratio SPS	numeric	0.000226610660106985, 0.00224140368570769, ...	2697	0	6047
CovB	Coverage ratio TBT	numeric	2.95372272063332e-05, 0.00224140368570769, ...	4418	0	6047
CovC	Coverage ratio Pre-shipment inspection	numeric	0.000226610660106985, 0.0021581371873145, ...	1540	0	6047
CovD	Coverage ratio Contingent protection	numeric	0, 0, 0, 0, ...	310	0	6047
CovE	Coverage ratio Licencing	numeric	0, 0, 0, 0, ...	1457	0	6047
CovNTM	Coverage ratio Total	numeric	0.000226610660106985, 0.00224140368570769, ...	5213	0	6047
FreqA	Frequency index SPS	numeric	0.333333343267441, 0.265822798013687, 0.280701756477356, ...	584	0	6047
FreqB	Frequency index TBT	numeric	0.16666667163372, 0.265822798013687, 0.280701756477356, ...	1132	0	6047
FreqC	Frequency index Pre-shipment inspection	numeric	0.333333343267441, 0.215189874172211, 0.0614035092294216, ...	599	0	6047
FreqD	Frequency index Contingent protection	numeric	0, 0, 0, 0, ...	223	0	6047
FreqE	Frequency index Licencing	numeric	0, 0, 0, 0, ...	465	0	6047



FreqNTM	Frequency index Total	numeric	0.333333343267441, 0.265822798013687, 0.280701756477356, ...	1231	0	6047
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1.2.7. PCA-based NTM indexes

Principal component analysis on different subsets of a combined NTM dataset (GTA, NTM TRAINS, and wiiw's WTO Notifications) to generate different NTM indexes.

Reference: Francois (2018)

Original data: UNCTAD NTMTRAINS, WTO Notifications retrieved via I-TIP, Global Trade Alert

Codebook PCA-based Overall NTM index (d4.3 wti overall)

Variable	Description	Class	Examples	Unique	Missing	Observations
iso3_imposing	3 character UN ISO country code	character	"USA", "CAN", "AUS", "PHL", ...	145	0	145
A	NTM-6-digit HS line counts for SPS measures	numeric	514502, 372931, 124608, 57186, ...	114	0	145
B	NTM-6-digit HS line counts for TBT measures	numeric	220587, 98156, 82565, 45841, ...	111	0	145
C	NTM-6-digit HS line counts for pre-shipment inspections	numeric	8946, 27175, 12450, 15562, ...	52	0	145
D	NTM-6-digit HS line counts for trade contingent measures	numeric	28039, 2477, 1847, 165, ...	61	0	145
E	NTM-6-digit HS line counts for licensing measures	numeric	24679, 18111, 30819, 20509, ...	105	0	145
F	NTM-6-digit HS line counts for price-control measures	numeric	6198, 6461, 23707, 42942, ...	60	0	145
G	NTM-6-digit HS line counts for finance measures	numeric	32, 10, 0, 7233, ...	21	0	145
H	NTM-6-digit HS line counts for competition measures	numeric	0, 145, 16, 6416, ...	35	0	145
I	NTM-6-digit HS line counts for investment measures	numeric	445, 33, 32, 0, ...	30	0	145
J	NTM-6-digit HS line counts for distribution measures	numeric	0, 0, 0, 0, ...	7	0	145
L	NTM-6-digit HS line counts for subsidies	numeric	3103, 699, 107, 3, ...	39	0	145
M	NTM-6-digit HS line counts for government procurement measures	numeric	68699, 275, 1, 0, ...	22	0	145
O	NTM-6-digit HS line counts for rules of origin	numeric	0, 0, 0, 0, ...	3	0	145
P	NTM-6-digit HS line counts for export-related measures	numeric	28612, 31351, 109821, 59102, ...	88	0	145
Dim_1	Weighted score for component 1	numeric	71432.8167039999, 5680.88635452575, 2563.92917320523, ...	143	0	145
Dim_2	Weighted score for component 2	numeric	6420.9778298905, 18.1978112717936, 1789.34639821477, ...	143	0	145
Dim_3	Weighted score for component 3	numeric	1353.10253452184, 1009.94608093154, 644.687029239275, ...	143	0	145



Dim_4	Weighted score for component 4	numeric	0.223606741311155, 1.29921261575501, 0.680469550469426, ...	143	0	145
Dim_5	Weighted score for component 5	numeric	85.775839895234, 47.0342536383898, 18.0269212646848, ...	143	0	145
overall	Weighted overall score	numeric	32157.0601931695, 2576.13601046643, 1575.41707683555, ...	143	0	145
Dim_1_norm	Normalized score for component 1	numeric	1, 0.0795276771497042, 0.0358928697506549, ...	143	0	145
Dim_2_norm	Normalized score for component 2	numeric	1, 0.00283411366768765, 0.278671944327101, 0.67316947134738, ...	143	0	145
Dim_3_norm	Normalized score for component 3	numeric	0.522331474073101, 0.3898644859727, 0.248865341273962, ...	143	0	145
Dim_4_norm	Normalized score for component 4	numeric	0.00101701073085475, 0.00590909363527011, ...	143	0	145
Dim_5_norm	Normalized score for component 5	numeric	0.0958204566506714, 0.0525421105075812, 0.0201379295627421, ...	143	0	145
overall_norm	Normalized overall score	numeric	1, 0.0801110496338361, 0.0489913224818518, ...	143	0	145

Codebook PCA-based comb NTM index (d4.3 wti comb)

Variable	Description	Class	Examples	Unique	Missing	Observations
iso3_imposing	3 character UN ISO country code	character	"CAN", "EUN", "CAN", "USA", ...	145	0	7779
hs_sector	15 Sector HS aggregation	character	"Vegetable Products", "Foodstuffs", "Transportation", ...	15	0	7779
mast	MAST classification chapter	character	"A", "B", "C", "D", ...	12	0	7779
index_comb	Weighted index score	numeric	86.1533630377383, 3.63903329783476, 0.323332384849706, ...	3270	0	7779
index_comb_norm	Normalized index score	numeric	1, 1, 1, 1, ...	3258	0	7779

Codebook PCA-based sep NTM index (d4.3 wti sep)

Variable	Description	Class	Examples	Unique	Missing	Observations
iso3_imposing	3 character UN ISO country code	character	"USA", "CAN", "USA", "CAN", ...	145	0	7782
hs_sector	15 Sector HS aggregation	character	"Chemical & Allied Industries", "Vegetable Products", ...	15	0	7782
mast	MAST classification chapter	character	"A", "A", "M", "A", ...	13	0	7782
index_sep	Weighted index score	numeric	215323.242938408, 103105.489570403, 59480.9933825282, ...	6047	0	7782
index_sep_norm	Normalized index score	numeric	1, 1, 1, 1, ...	5690	0	7782

Codebook PCA-based coall NTM index (d4.3 wti coall)

Variable	Description	Class	Examples	Unique	Missing	Observations
iso3_imposing	3 character UN ISO country code	character	"USA", "CAN", "USA", "USA", ...	145	0	1918
hs_sector	15 Sector HS aggregation	character	"Metals", "Vegetable Products", "Animal & Animal Products", ...	15	0	1918
Dim_1	Weighted score for component 1	numeric	0.337128133110558, 0.700780330591113, 0.853662685627135, ...	1708	0	1918



Dim_2	Weighted score for component 2	numeric	19.4082026823595, 0.00576130441582597, 0.0264879107280293, ...	1708	0	1918
Dim_3	Weighted score for component 3	numeric	4.62946261046144, 1.93506752484118, 0.815219144097068, ...	1708	0	1918
Dim_4	Weighted score for component 4	numeric	0.000829864134879386, 0.00106661778226102, ...	1708	0	1918
Dim_5	Weighted score for component 5	numeric	0.00478103687254349, 0.00111997777009254, ...	1708	0	1918
index_coall	Weighted overall score	numeric	5.30617525086004, 0.602212769283019, 0.44494055770144, ...	1708	0	1918
Dim_1_norm	Normalized score for component 1	numeric	0.331785963618489, 0.689675688480355, 0.840135452945278, ...	1708	0	1918
Dim_2_norm	Normalized score for component 2	numeric	1, 0.000296848941101084, 0.00136477916892394, ...	1708	0	1918
Dim_3_norm	Normalized score for component 3	numeric	1, 0.417989664819442, 0.176093687905482, 0.242985798910734, ...	1708	0	1918
Dim_4_norm	Normalized score for component 4	numeric	0.00681304161421437, 0.00875674830905595, ...	1708	0	1918
Dim_5_norm	Normalized score for component 5	numeric	0.00918829696390303, 0.00215239676822891, ...	1708	0	1918
index_coall_norm	Normalized overall score	numeric	1, 0.11349281406825, 0.0838533460111608, 0.0798422505169467, ...	1708	0	1918

Codebook PCA-based sepal NTM index (d4.3 wti sepal)

Variable	Description	Class	Examples	Unique	Missing	Observations
iso3_imposing	3 character UN ISO country code	character	"USA", "USA", "USA", "USA", ...	145	0	1918
hs_sector	15 Sector HS aggregation	character	"Animal & Animal Products", "Chemical & Allied Industries", ...	15	0	1918
Dim_1	Weighted score for component 1	numeric	4045.93139162644, 7780.44029092358, 2862.8240099868, ...	1682	0	1918
Dim_2	Weighted score for component 2	numeric	884.295985017309, 2398.17865488568, 379.728196042462, ...	1646	0	1918
Dim_3	Weighted score for component 3	numeric	141.128310619387, 7870.46830744331, 18.8701922681765, ...	1636	0	1918
Dim_4	Weighted score for component 4	numeric	0.894891122735955, 50.3202496250029, 170.904984197062, ...	1607	0	1918
Dim_5	Weighted score for component 5	numeric	0.89537484781519, 306.69939631826, 3.59158338544407, ...	1619	0	1918
index_sepal	Weighted overall score	numeric	1749.13339691146, 4773.24585408455, 1103.71528241336, ...	1693	0	1918
Dim_1_norm	Normalized score for component 1	numeric	1, 1, 1, 1, ...	1664	0	1918
Dim_2_norm	Normalized score for component 2	numeric	1, 1, 1, 1, ...	1633	0	1918
Dim_3_norm	Normalized score for component 3	numeric	0.651338502072212, 1, 0.0552335640273247, 0.29511796295946, ...	1623	0	1918
Dim_4_norm	Normalized score for component 4	numeric	0.00571483011872108, 0.476007135759982, 0.0724294612432344, ...	1594	0	1918
Dim_5_norm	Normalized score for component 5	numeric	0.000964531599327914, 0.471372135774695, 0.027354259478527, ...	1607	0	1918
index_sepal_norm	Normalized overall score	numeric	1, 1, 1, 1, ...	1676	0	1918



2. MySQL Access

Under construction.



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