



Global Trade Analysis Project

GTAP 11 Data Base

Center for Global Trade Analysis
Department of Agricultural Economics
Purdue University

What is it?

- The GTAP Data Base is constructed to describe domestic transactions, global bilateral trade patterns, international transport margins and protection matrices that link individual countries and regions.
 - For each country/region, the Data Base provides values of production, in addition to intermediate and final consumption of goods and services measured in millions of current U.S. dollars.
- Many different international data sources are reconciled for analytical use (i.e., GTAP model or other).

Features of GTAP 11

- **141 countries + 19 composite regions**
 - Individual countries cover 99% of world GDP and 96% of its population
- **5 reference years: 2004, 2007, 2011, 2014, 2017**
 - 65 sectors in each country/region
- **Special version in GTAP 10, default in GTAP 11**
 - All countries subject to agricultural production targeting
 - Energy subsidies included in the standard release

Input-Output Data

- **20 new mainly from Central Africa + 39 updated IO Tables**
 - I-O tables are contributed by users
- **Become a contributor and gain free access to GTAP**
 - Guidelines on GTAP website (www.gtap.org/databases/contribute/)

The screenshot shows a web browser window with the title "GTAP Data Bases: How to Contrib" and the URL "gtap.agecon.purdue.edu/databases/contribute/". The main content area displays the following text:

GTAP Data Bases: How to Contribute to GTAP Efforts?

While the GTAP Data Base is constructed by the Center for Global Trade Analysis, most of the **datasets used are supplied by the GTAP Network** - consisting of individuals, agencies and institutions from around the world. The most common contributions made by individuals in the network are individual country data (I-O tables).

The Network of GTAP users represents an excellent resource for improvement of the Data Base. Those who identify areas for improvement or extension of the Data Base are free to make this available to GTAP staff in order to have it considered for incorporation into the next release. The operational concept is: If you don't like it, help fix it!

This section is designed to assist people who would like to contribute additional regions or improve the data for current regions by **contributing a regional I-O table**.

On the right side, there is a sidebar titled "Contribution" with the following links:

- I-O Table Submission
- Notes on procedures
- Format specifications
- Concordances
- Utilities
- Problem areas
- Documentation
- What to send us?
- What do we check?

Services Trade Data

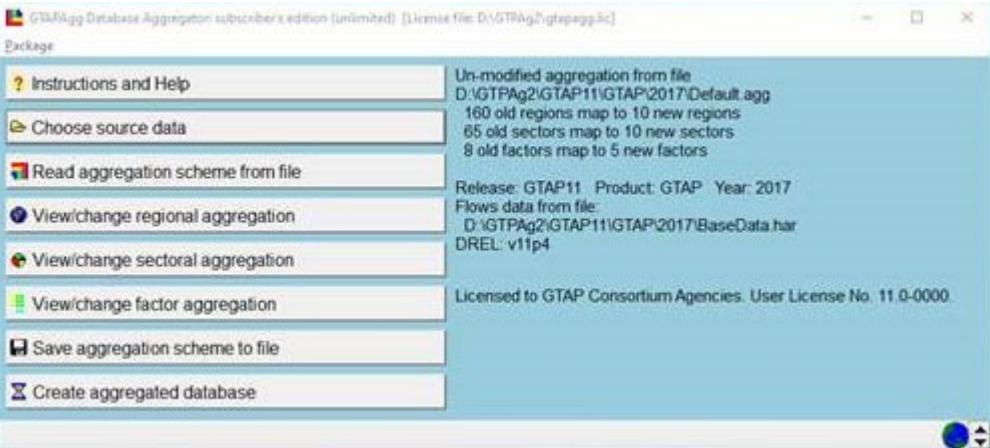
- In GTAP 11, we take advantage of two datasets:
 - Balanced Trade in Services (BaTiS) by the WTO/OECD
 - Trade in Service data by Mode of Supply (TiSMoS) by WTO/EC
- BaTiS sectors are sometimes more aggregated than GTAP,
 - But they are bilateral flows,
 - Then we use the extra detail in TiSMoS to disaggregate BaTiS

GTAP Data Base Uses

- **Satellite / Extensions**
 - Energy volumes data (GTAP-E),
 - Electricity detailed extension (GTAP-POWER),
 - Migration flows and remittances (GMIG2),
 - Foreign income payments and receipts (GDYN)
 - Land Use and Cover (GTAP-AEZ),
 - Multi-Region Input Output (GTAP-MRIO)
 - Bilateral time-series trade data, **CO₂**, **Non-CO₂**, **Air pollution**, Food balance sheets

Distribution Formats

GTAPAgg (GUI interface)



GAMS Data eXchange (GDX)

List View									
	Entry	Name	Type	Dim	Rn	% A	% D	% C	% Value
pdr	aut	4.24661e-06	Parameter	3	0.00124236	0.0194823	0.028728	0.00366479	0.00304884
	rdf	0.00133593		1	1e-06	0.00188997	0.000842141	0.000142577	0.000391792
	xdc	0.000305392	Parameter	1	5.65449e-05	0.0143126	0.00141756	0.000215641	0.000446647
	dch	1.40261	Set	1	0.193035	0.0384303	1e-06	1.812	3.10049
	10_OVER	Parameter	0						2.81
	5_ENDW_COMM	Set	1						
	24_EVFA	Parameter	3						
	23_EVOA	Parameter	2						
	36_FBEP	Parameter	3						
	37_FTRV	Parameter	3						
	1_GlobalSet	Set	1						
	38_ISEP	Parameter	4	5					
	7_MARG_COMM	Set	1						
	44_MPRV	Parameter	3						
	39_OSEP	Parameter	2						
	14_POP	Parameter	1						
	6_PRIOD_COMM	Set	1						
	42_PURV	Parameter	3						
	3_REG	Set	1						
	11_SAVE	Parameter	1						
	9_TARTYPE	Set	1						
	41_TFRV	Parameter	3	2					
	4_TRADE_COMM	Set	1						
	48_TVOM	Parameter	2						
	13_VDEP	Parameter	1						
	26_VDFA	Parameter	3	6					
	28_VDFM	Parameter	3	6					
	15_VDGA	Parameter	2						
	17_VDGM	Parameter	2						
	19_VDPA	Parameter	2						
	21_VDPH	Parameter	2						
	25_VPM	Parameter	3	6					
	27_VFPA	Parameter	3	6					
	29_VPM	Parameter	3	6					
	16_VSGA	Parameter	2						
	18_VSGM	Parameter	2						
	30_VWS	Parameter	3	14					
	31_VWVS	Parameter	3	14					

FlexAgg (Command line)

```
C:\Windows\system32\cmd.exe
Microsoft Windows [Version 10.0.19044.2251]
(c) Microsoft Corporation. All rights reserved.

D:\>cd flexagg1p4v17
D:\flexagg1p4v17>data-agg my_agg
Processing aggregation mapping/sets information...
Checking that aggregated sets are well defined...
Processing user provided parameters...
Aggregating data file gsdgdat.har to gsdgdat.har...
Aggregating parameters file gsdgpar.har to gsdgpar.har...
Aggregating energy volume data file...
Aggregating carbon emissions data file...
No time series trade data to be aggregated...
Creating GTAPView and GTAPtax files...
Creating SAM view of the database...
No Non-CO2 data to be aggregated...
No Air-Pollution data to be aggregated...
Convert data format for GTAP 7 Model...
Convert data from HAR to GDX...
D:\flexagg1p4v17>
```



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