Y Haiti

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Y.1 Introduction

This chapter describes the transformation of the 2012 Haiti Social Accounting Matrix (SAM) to the GTAP format. The next section presents the source data. Section 3 describes the reformatting steps. Section 4 describes the concordance between the original classification of sectors and the GTAP sectors.

Y.2 Source Data

The Haiti SAM was provided by World Bank staff. The table consists of 19 sectors. The SAM contains no tax or land information. There are vectors of exports and import values.

Y.3 Data processing

The Input-Output Table (IOT) derived from this SAM does not fully satisfy the requirements of the GTAP data base described in Huff et al. 2000. Main adjustments to the derived IOT are as follows:

— Disaggregation of sectors

— Split total use into import and domestic matrices

The derivation of the IOT from a SAM and further adjustments to meet the GTAP IOT format are implemented using the GAMS programs documented in Aguiar and Pereira n.d.[27]

The disaggregation of sectors relied on the representative table. The matrix of imports is estimated assuming the import share is uniform across users, except for exports as it would imply re-exports. Domestic flows are then obtained as residual given the initial data and the newly estimated matrix of imports.

Y.4 Concordance between I-O sectors and GSEC3

The sectors in the original data are first aggregated and then mapped to the GTAP classification of 65 sectors (Table 8.43).

[27] Programs and further documentation are available upon request.

Table 8.43: Concordance between original sectors and GTAP classification

No.	Original sectors	GTAP
1	Agriculture, forestry and fishery products	GTAP1_14
2	Ores and minerals	GTAP15_18
3	Food products, beverages and tobacco	GTAP19_25
4	Textiles, apparel and leather products	GTAP26_29
5	Products of wood, paper and refined petroleum products	GTAP30_32
6	Other manufacturing products	GTAP33_45
7	Electricity	GTAP46_47
8	Water	GTAP48
9	Construction	GTAP49
10	Wholesale and retail trade	GTAP50
11	Transport services	GTAP52_55
12	Accommodation, food and beverage services	GTAP51
13	Telecommunications, broadcasting and information supply services	GTAP56
14	Financial and related services	GTAP57_58
15	Professional, technical and business services	GTAP59_60
16	Public administration and other services provided to the community as a whole; compulsory social security services	GTAP62
17	Education services	GTAP63
18	Human health and social care services	GTAP64
19	Other services	GTAP61_65

Y.5 Diagnostics

Before and after conversion, the IOT met all balance and sign conditions. There were no large tax rates over 100% in the data. The GTAP cost shares comparisons appear correct or at least consistent with the original data.

References

Aguiar, Angel H and Maria Seara e Pereira (n.d.). “Transforming a Social Accounting Matrix (SAM) into GTAP format”.

Huff, Karen et al. (2000). *Contributing Input-Output Tables to the GTAP Data Base*. GTAP Technical Paper 01. Department of Agricultural Economics, Purdue University, West Lafayette, IN: Global Trade Analysis Project (GTAP). URL: `https://www.gtap.agecon.purdue.edu/resources/res_display.asp?RecordID=304`.