

Technical Appendix to
**EVALUATING TRANSFER PROGRAMMES WITHIN A
GENERAL EQUILIBRIUM FRAMEWORK**

David P. Coady and Rebecca L. Harris

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Table A1
National Sectors in Model

1. Maize
2. Wheat
3. Beans
4. Other Grains (Sorghum, Barley)
5. Fruits and Vegetables
6. Other Crops (Tobacco, Hemp, Cotton, Cocoa, Sugar, Coffee, Soy, Safflower, Sesame and Others)
7. Livestock/Forestry/Fisheries (Bovines, Goats, Sheep, Bees, Poultry and Others, Forestry and Fisheries)
8. Dairy
9. Prepared Fruits and Vegetables
10. Wheat Manufacturing
11. Corn Manufacturing
12. Sugar Manufacturing
13. Other Processed Foods (Coffee Manufacturing, Processed Meats, Oils and Fats, Feeds, Alcohol, Beverages and Others)
14. Light Manufacturing (Lumber, Wood, Paper, Print, and Cigar Manufacturing, Soft Fibre Textiles, Hard Fibre Textiles, Other Textiles, Leather, Apparel)
15. Intermediates (Chemicals, Synthetics, Rubber, Glass, Cement, Fertilizers, Other Chemicals, Oil Refining, Oil and Gasoline, Petrochemicals, Coal, Iron, Non-Ferrous Metal, Sand/Gravel, Minerals)
16. Consumer Items (Pharmaceuticals, Soaps, Plastic, Metal Furnishings, Household Appliances, Electronic Equipment, Automobiles and Parts)
17. Capital Goods (Metal Products, Metal Manufacturing, Non-Electronic Machines, Electronic Machines, Other Electric Goods, Transportation Materials, Mineral Manufacturing, Iron Manufacturing, Non-Ferrous Metal Manufacturing, Others)
18. Professional Services (Professional Services, Education, Medical, Finance/Real Estate, Public Administration and Defence, Electricity, Gas and Water)
19. Other Services (Other Services, Restaurants)
20. Construction
21. Commerce, Trade and Transportation

Note: There are four activities for each of the agricultural crop sectors (sectors 1–6): one for each region. Otherwise, the activities are the same as these sectors. The commodities are the same as these sectors.

Table A2
Disaggregation Across Income Groups and Regions (Distribution of Households Across National Income Deciles By Region)

	Regions				
	North	Central	Southwest	Southeast	Urban
Decile Group					
1st (bottom)	0.06	0.18	0.15	0.23	0.03
2nd	0.09	0.17	0.12	0.19	0.05
3rd	0.11	0.14	0.13	0.14	0.07
4th	0.15	0.11	0.12	0.11	0.09
5th	0.11	0.1	0.12	0.09	0.1
6th	0.1	0.09	0.11	0.07	0.11
7th	0.09	0.07	0.07	0.06	0.13
8th	0.11	0.06	0.08	0.05	0.13
9th	0.09	0.05	0.06	0.04	0.14
10th (top)	0.08	0.03	0.04	0.02	0.15
Share of bottom decile in bottom three deciles	0.23	0.37	0.37	0.41	0.2

Note: Numbers are the proportion of households in the region falling into each decile.
Source: Authors' calculations based on 1996 national household income and expenditure survey.

Table A3
Summary Statistics

	Producer Tax	VAT	Sales Tax	Sectoral Composition (%)							Exports/Output	Imports/Domestic Supply
				Tariff	Export Tax	Output	Domestic Supply	Imports	Exports			
Maize	0	-	0.006	0.012	0.007	0.62	0.83	1.17	0.03	0.85	24.19	
Wheat	-0.571	-	0.000	0.007	0.032	0.12	0.12	0.00	0.01	1.44	0.07	
Beans	-0.003	-	0.008	0.009	0.006	0.11	0.10	0.14	0.17	29.03	24.37	
Oth. Grain	-0.449	-	0.000	0.000	0.008	0.16	0.16	-	0.00	0.15	-	
Fruit & Veg	-0.001	-	0.006	0.000	0.018	0.75	0.64	0.32	0.95	23.43	8.55	
Oth. Crops	-0.002	-	0.007	0.016	0.006	0.84	0.77	1.55	1.89	41.72	34.75	
Livestock	0.001	-	0.008	0.014	0.033	2.20	2.21	0.39	0.42	3.53	3.00	
Dairy	-0.308	-	0.008	0.005	0.007	1.81	1.89	0.56	0.12	1.18	5.04	
Maize Manuf.	-0.308	-	0.008	0.018	0.007	1.47	1.47	0.02	0.10	1.28	0.28	
Wht Manuf.	-0.308	-	0.008	0.03	0.006	1.13	1.03	0.17	0.70	11.54	2.75	
Fr.Veg. Prep	0.002	-	0.006	0.017	0.009	0.30	0.20	0.18	0.69	43.62	15.60	
Sugar	0.002	-	0.005	0.034	0.023	0.40	0.41	0.35	0.30	14.09	14.94	
Other Food	0.002	-	0.008	0.016	0.007	4.29	4.46	3.38	2.50	10.81	13.01	
Light Manuf	0.002	0.05	0.007	0.027	0.009	5.50	5.73	11.78	10.27	34.71	35.29	
Intermediates	0.002	0.05	0.006	0.016	0.019	5.43	5.57	12.50	11.44	39.14	38.54	
Cap. Goods	0.002	0.1	0.007	0.021	0.012	7.36	9.89	46.26	30.68	77.52	80.23	
Cons. Items	0.002	0.1	0.007	0.023	0.006	11.96	8.41	21.24	39.74	61.78	43.33	
Construction	0.003	0.1	0.006	-	-	5.24	5.28	-	-	-	-	
Prof.Services	0.007	0.05	0.008	-	-	19.96	20.15	-	-	-	-	
Oth. Services	0.004	-	0.009	-	-	11.15	11.27	-	-	-	-	
Commerce	0.003	0.1	0.009	-	-	19.22	19.43	-	-	-	-	

Note: (1) A negative entry for the producer tax represents a producer subsidy.
Source: Adapted from Banco de Mexico (1997).

Table A4
Baseline Marginal Budget Shares

(a) For Home Consumed Goods												
Sectors/Households	RP-N	RP-C	RP-SW	RP-SE	RM-N	RM-C	RM-SW	RM-SE	RR-N	RR-C	RR-SW	RR-SE
Maize	0.000	0.003	0.003	0.004	0.000	0.003	0.001	0.002	0.000	0.001	0.000	0.003
Wheat	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Beans	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Oth. Grains	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Frt & Veg	0.001	0.000	0.001	0.001	0.000	0.002	0.000	0.001	0.001	0.000	0.000	0.002
Oth. Crops	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
(b) For Marketed Goods												
Maize	0.001	0.008	0.006	0.010	0.000	0.005	0.002	0.003	0	0.013	0.005	0
Wheat	0.002	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0	0.000	0
Beans	0.001	0.001	0.001	0.001	0.000	0.001	0.001	0.000	0.001	0.001	0.005	0.001
Oth. Grains	0.003	0.001	0.002	0.003	0.002	0.001	0.001	0.001	0	0	0.011	0
Frt & Veg	0.007	0.009	0.010	0.007	0.007	0.011	0.011	0.008	0.005	0.004	0.015	0.010
Oth. Crops	0.001	0.001	0.000	0.000	0.001	0.001	0.001	0.001	0.000	0	0.001	0.000
Livestock	0.017	0.018	0.031	0.042	0.010	0.011	0.021	0.023	0.015	0.003	0.012	0.012
Dairy	0.066	0.057	0.066	0.050	0.045	0.035	0.052	0.041	0.023	0.010	0.065	0.028
Fr.Veg Prep	0.014	0.010	0.011	0.006	0.010	0.009	0.009	0.006	0.003	0	0.007	0.004
Wheat Mfg	0.018	0.027	0.025	0.027	0.013	0.019	0.024	0.023	0.020	0.007	0.021	0.016
Maize Mfg	0.037	0.034	0.035	0.038	0.030	0.026	0.043	0.030	0.079	0.013	0.062	0.023
Sugar	0.018	0.024	0.019	0.040	0.009	0.016	0.016	0.017	0.001	0.004	0.013	0.005
Other Food	0.079	0.061	0.058	0.062	0.079	0.056	0.067	0.059	0.056	0.043	0.067	0.050
Lt. Manuf	0.049	0.041	0.034	0.032	0.049	0.051	0.047	0.038	0.051	0.048	0.063	0.045
Intermediate	0.014	0.008	0.008	0.007	0.014	0.010	0.009	0.008	0.004	0.012	0.012	0.009
Cap. Goods	0.110	0.071	0.068	0.063	0.103	0.081	0.080	0.067	0.105	0.094	0.095	0.078
Cons.Goods	0.082	0.053	0.050	0.049	0.110	0.076	0.068	0.077	0.083	0.228	0.080	0.057
Prof. Svcs	0.083	0.077	0.081	0.072	0.082	0.076	0.071	0.068	0.043	0.156	0.086	0.053
Other Svcs	0.134	0.136	0.101	0.087	0.138	0.167	0.134	0.153	0.135	0.107	0.127	0.185
Commerce	0.264	0.360	0.391	0.399	0.297	0.342	0.344	0.374	0.373	0.256	0.251	0.418

Note: The column labels refer to the following sets of household and regions. Households : RP (Rural Poor), RM (Rural Medium), Regions: N (North), C (Central), SW (Southwest), SE (Southeast).

Table A5
Baseline Factor and Trade Elasticities

	Elasticity of Factor Substitution	Trade Substitution Elasticities	
		Imports	Exports
Maize	0.6	4	4
Wheat	0.6	4	4
Beans	0.6	4	4
Other Grains	0.6	4	4
Frt & Veg	0.5	2	4
Other Crops	0.5	4	4
Livestock	0.6	3	0.5
Dairy	1.5	3	3
Fr & Veg Prep	1.5	3	3
Wheat Mfg	1.5	3	3
Maize Mfg	1.5	3	3
Sugar	1.5	3	3
Other Food	1.5	3	3
Lt. Manuf	2	0.2	2
Intermediate	0.6	0.2	2
Capital Goods	0.6	0.2	2
Consumer Goods	1.5	0.2	2
Construction	0.8	2	2
Prof. Svcs	0.8	2	2
Other Svcs	2	2	2
Commerce	0.8	2	2

Source: These parameters were adapted from a similar model constructed by Bautista *et al.* (2001).

Table A6
Baseline Own Price Elasticity

(a) <i>Of Demand for Market Consumed Goods</i>													
Sectors/Households	RP-N	RP-C	RP-SW	RP-SE	RM-N	RM-C	RM-SW	RM-SE	RR-N	RR-C	RR-SW	RR-SE	HHUR
Maize	-0.10	-0.11	-0.11	-0.11	-0.10	-0.10	-0.10	-0.10	-	-0.61	-0.60	-	-0.10
Wheat	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.60	-	-0.60	-	-0.20
Beans	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.60	-0.60	-0.60	-0.60	-0.10
Oth. Grains	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-	-	-0.60	-	-0.20
Frt & Veg	-0.31	-0.31	-0.31	-0.30	-0.40	-0.41	-0.41	-0.40	-0.60	-0.60	-0.61	-0.60	-0.31
Other Crops	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.60	-	-0.60	-0.60	-0.30
Livestock	-0.90	-0.90	-0.90	-0.90	-0.80	-0.80	-0.80	-0.80	-0.70	-0.70	-0.70	-0.70	-0.70
Dairy	-0.91	-0.91	-0.91	-0.91	-0.81	-0.81	-0.81	-0.81	-0.71	-0.70	-0.72	-0.71	-0.81
Frt/Veg/Prep	-0.90	-0.90	-0.90	-0.90	-0.90	-0.90	-0.90	-0.90	-0.80	-	-0.80	-0.80	-0.90
Wheat Mfg	-0.71	-0.71	-0.71	-0.71	-0.80	-0.80	-0.80	-0.80	-0.80	-0.80	-0.80	-0.80	-0.71
Maize Mfg	-0.61	-0.61	-0.61	-0.62	-0.71	-0.71	-0.71	-0.71	-0.82	-0.80	-0.81	-0.80	-0.70
Sugar	-0.90	-0.90	-0.90	-0.90	-0.90	-0.90	-0.90	-0.90	-0.80	-0.80	-0.80	-0.80	-0.90
Other Food	-0.45	-0.44	-0.43	-0.44	-0.54	-0.53	-0.53	-0.53	-0.62	-0.62	-0.63	-0.62	-0.53
Lt. Manuf	-0.43	-0.42	-0.42	-0.42	-0.52	-0.53	-0.52	-0.52	-0.62	-0.62	-0.63	-0.62	-0.62
Intermed.	-	-	-	-	-	-	-	-	-	-	-	-	-
Cap. Goods	-	-	-	-	-	-	-	-	-	-	-	-	-
Cons. Gds.	-0.54	-0.53	-0.52	-0.52	-0.73	-0.72	-0.72	-0.72	-0.73	-0.77	-0.72	-0.72	-0.73
Prof. Svcs	-0.54	-0.54	-0.54	-0.54	-0.54	-0.54	-0.54	-0.53	-0.52	-0.58	-0.54	-0.53	-0.58
Other Svcs	-0.91	-0.91	-0.91	-0.91	-0.91	-0.92	-0.91	-0.92	-0.83	-0.82	-0.83	-0.84	-0.91
Commerce	-0.93	-0.94	-0.94	-0.94	-0.93	-0.93	-0.93	-0.94	-0.87	-0.85	-0.85	-0.88	-0.93
(b) <i>Of Home Consumed Goods</i>													
Sectors/Households	RP-N	RP-C	RP-SW	RP-SE	RM-N	RM-C	RM-SW	RM-SE	RR-N	RR-C	RR-SW	RR-SE	HHUR
Maize	-0.1	-0.1	-0.1	-0.1	0	-0.1	-0.1	-0.1	0	-0.6	-0.6	-0.6	-0.6
Wheat	-0.2	0	0	-0.2	-0.2	0	0	0	0	0	0	0	-0.6
Beans	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.6	0	-0.6	-0.6	0
Other Grains	-0.2	-0.2	0	-0.2	0	0	0	0	0	0	-0.6	0	-0.6
Frt & Veg	-0.3	-0.3	-0.3	-0.3	-0.4	-0.4	-0.4	-0.4	-0.6	0	0	-0.6	-0.6
Other Crops	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.6	0	-0.6	-0.6	-0.6

Note: The column labels refer to the following sets of household and regions.
Households : RP (Rural Poor), RM (Rural Medium), UP (Urban Poor), UM (Urban Medium), UR (Urban Rich)
Regions: N (North), C (Central), SW (Southwest), SE (Southeast).