

Minimum Data Requirements for Simulation Analysis

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To be asked in surveys of households and businesses in the project's zone of influence (ZOI), where the ZOI is the economy in which we want to measure the economy-wide impacts of the intervention (e.g., conditional cash transfer project).

Much of these data can be collected in the household survey; however, given the nature of the most samples, where many businesses are missed or undersampled, it will be necessary to carry out a separate enterprise survey. The more diverse the economy, the larger the supplementary business sample. Best practice would be to sample a few of each type of business in each cluster, skipping of course those businesses, such as agricultural production, which will be well captured in the household survey. By stratifying we make sure not to miss any unusual or one of a kind businesses, such as a furniture factory, which may employ people within the village. This requires some qualitative knowledge of the cluster. One option would be to inquire in the community survey about what kinds of businesses exist in the cluster, and then draw up a sample. If business activity is very homogenous across clusters, then it would not be necessary to sample in each cluster.

Q-Quantity; \$-value or price needed to calculate value. SAM cells correspond to the social accounting matrix that follows.

SAM Cell	Data Needed to Fill Cell
(a - e)	What economic activities (production, retail, services, etc...) did your household or your business do in the last 12 months?
(e)	How much did you or your business produce, whether you sold it or not, , and what's it worth? (Q,\$)
(a, g-i)	What did you do with what your produced? (Q used as inputs for your other production activities (e.g., corn fed to animals)); home consumption (Q); sold to buyer in the ZOI (Q,\$), sold to buyer outside ZOI (Q,\$))
(b)	What labor and capital did you use for this economic activity? Your own labor (Q=days); hired labor (Q, \$, origin (from inside or outside ZOI)); your own land (Q=hs); other people's land (hs, \$ paid, origin); your own capital (Q: e.g., tractor or oxen-days); other people's capital (Q,\$, origin).
(d)	What inputs did you buy to produce it? (Q, \$ and origin; e.g., amount of fertilizer, cost, bought outside the ZOI)
(c)	What taxes did you pay to do this activity? (\$, to government agency inside our outside the ZOI?)

- (f, j, k, o) How much income did your household receive in: Wages (\$, origin: working inside or outside the ZOI); rents (\$, origin); transfers from other households (\$, origin); migrant remittances (\$, origin); transfers from government (origin: government inside or outside ZOI); NGOs or other sources (\$, origin)
- (m) How much did you spend on consumption (\$, spent inside or outside the ZOI; this requires an expenditure-recall module, noting if expenditure was inside or outside the ZOI
- (l, n) What investments did you make? (\$, origin of investment goods); Savings; requires list of investment expenditures, e.g., housing, productive investments, schooling

Incomes	Expenses					
	1. PRODUCTION	2. FACTORS	3. INSTITUTIONS	4. CAPITAL	5. REST OF WORLD	TOTAL
1. ACTIVITIES Staples Other Ag Livestock Services	(a) Intermediate Inputs (Input- Output Matrix)		(g) Home Consumption	(h) Implicit Investment or Storage	(i) Sales inside and outside ZOI	(e) Total Production Value
2. FACTORS Family Hired Labor Land Capital	(b) Value-Added from Production				(o) Wages, rental income	Total Factor Receipts
3. INSTITUTIONS Households Government	(c) Indirect Taxes	(f) Household Value-Added Income	(j) Public and private transfers		(k) Migrant remittances	Total Household Income
4. CAPITAL			(l) Savings (incl. investments)			Total Savings
5. Rest of WORLD Rest of ZOI Rest of Country Rest of World	(d) Purchased inputs by place purchased		(m) Market Consumption	(n) Investment good purchases, formal and informal savings		Total Market Purchases
TOTAL	(e) Total Production Expenditures	Total Factor Payments	Total Household Expenditures	Total Investments	Total Market Sales	Total Incomes and Expenditures