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## Comparisons of LSMS-ISA data collection and dissemination efforts in Central America

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#### Abstract

This article aims the comparison of LSMS survey in Central American countries to increase current knowledge of survey methodologies and ensure the most efficient dissemination and utilization of the results. It is improve the availability, quality and relevance of agricultural data for policy and research in Central America.

The criterion for this comparison consists of household survey data production, methodological validation/research, capacity building and dissemination. The integrated approach considers multi-topic questionnaire as agriculture plus non-farm, nutrition, inter alia, consumption –based welfare measure, global strategy to improve Ag statistics.

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The methodological validation/research is an extension of LSMS IV for

improvement of following measures: crop yields (plot size, quantities,

measurement tool, diaries/crop cards, cutting), module crop

development/sourcebooks (income source, fishery, livestock, and community

governance/empowerment.

The results would have the following priorities and principles: a) Support and

build longitudinal data systems that improve policy decision making, resource

allocation, and priority setting, b) Ensure free public access to all data as soon as

possible, c) Lower the costs of using data trough data access platforms,

harmonization of methodologies, and through outreach and capacity building, d)

Capitalize on synergies from integrating different types of data (e.g. broad

representative surveys as LSMS, more intensive surveys/sentinel sites, censuses,

geospatial data, etc.).

JEL Classification: C83, P52, E61.

Keyword: Panel Data, LSMS-ISA, MECOVI.

#### Introduction

The issue of data collection and dissemination efforts is important for policymakers in yours contribution for the rural development in Central America countries. The territorial concept referred to spatial differences in problems and perspectives, opportunities and options is used into rural development (OECD, 1995). multisectoral concept also is used in it referred to wide range of demographic, economic, social and environmental issues. Rural development in Central America is also referred to dynamic concept as medium to long term changes and adjustments in technology and ecology, economy and society (UNECE: 2007). However, one important deficiency that has been identified in the area of survey methodology and research related to Statistic in Central America is a dedicated forum for the publication and dissemination of results. Dissemination of Data and results, and improving information flows are decisive if we consider having an impact on the quality of data collected in Central Americans statistical institutions, and policy inputs where the CSUCA<sup>1</sup> universities must participate. The national statistical offices (NSOs) of each Central American countries have been generated a substantial amount of information in this issue. Nevertheless, this information is scattered, found only in the supposed "fugitive" literature or not written up in any form at all (World Bank: 2006). In parallel with these activities research is needed on how best to enhance the ability of household surveys to measure and quantify critical concepts.

<sup>&</sup>lt;sup>1</sup> CSUCA is a Spanish acronym for: Consejo Superior universitario centroamericano

These works proposal will focus on the documentation and dissemination of data and results, and the promotion of partnership activities to increase the capacity of national statistical offices (NSOs) to develop instruments and test new data collection techniques in Central America, and assessments the technical possibility of LSMS data for making impact measurement to social and economic programs.

The LSMS team has been an important effort of the World Bank Development Research Group (DECRG) for more than 20 year. LSMS staff has helped design and implement courses for both data producers and data users on household surveys and social policy analysis under the MECOVI project in Central America. The NSOs have received the technical support through the MECOVI program. It has assisted Central American countries in upgrading their capacity to plan and implement household surveys.

This article is divided into three major sections. The first section is a review of literature LSMS and the MECOVI program. It presents some activities that World Bank has made for supporting the National Statistical Offices of each one Central American Countries.

The second section presents the Central American comparisons of collecting data.

The comparisons refer to methodology, household count, sample size, questionnaire, etc. Finally, the third section presents the dissemination effort into each Central American Countries.

#### **Review of Literature**

The Living Standards Measurement Study (LSMS) is a research project that was initiated in 1980. It was established by the World Bank to explore ways of improving the type and quality of household data collected by national statistical offices in developing countries. Chander, Grootaert and Pyatt (1980) analyze the original statement of purpose and work program. The objectives of the LSMS were to develop new methods for monitoring progress in raising levels of living, to identify the consequences for households of current and proposed government policies, and to improve communications between survey statisticians, analysts, and policymakers (Grosh, Margaret E. and Glewwe, Paul: 1996).

To achieve the program objectives, LSMS actions have covered a range of task concerned with the design, implementation and analysis of household surveys in Central American developing countries. LSMS Phase I (1980-1985) work centered on evaluating survey experience prior to the 1980s identifying what information could be made feasible (Grosh, Margaret E. and Glewwe, Paul: 1996). LSMS Phase II (1985-1990) work concentrated heavily on the implementation of LSMS surveys. In Phase II LSMS surveys became increasingly customized to fit specific country circumstances, including policy issues. social and economic characteristics, and local household survey traditions. They also reflected the interest of the individuals planning the surveys. LSMS Phase III (1990- ongoing) has continued with greater emphasis in the project on building analytic capacity as well as data collection capacity. LSMS Phase IV (2006-2010) will extend the research that has been done on survey methodologies. It will focus on how to continue to improve the collection of quality household micro data, and how to make the process as efficient as possible. It will also create new tools and update the existing ones to expand the dissemination of literature, knowledge and results in the area of survey methodology in developing countries. The Living Standards Measurement Study-Integrated Surveys on Agriculture LSMS-ISA (2008-2015) project is a new initiative funded by Bill & Melinda Gates Foundation (BMGF) and led by the LSMS Team in the Development Research Group (DECRG) of the World Bank. The project will support governments in 7 Sub-Saharan African countries (Tanzania, Uganda, Malawi, Ethiopia, Nigeria, and Niger) to generate nationally representative, household panel data with a strong focus on agriculture and rural development. The objective of this program is to improve the understanding of development in Africa, particularly agriculture and linkage between farm and non-farm activities.

In 1980 was started the on-line LSMS Working Paper Series to provide researchers with a venue to publish working papers on data collection methods and improved methodologies. The early publications focused on specific survey, questionnaire and data processing designs and methods, while later papers demonstrated the breadth of policy analysis that can be carried out using LSMS data.

In the mid-1980s, the LSMS surveys were one of the first to take advantage of portable computers to carry out concurrent data sets allowing for the in-household correction of inconsistent data and the production of cleaned data sets almost immediately upon completion of the field work.

In 1996 was created the LSMS web site as a tool to efficiently and broadly distribute documents and data. It was one of the first web sites created under the World Bank site and its purpose is to distribute information about multi-topic household surveys in the most efficient manner.

To accomplish the LSMS objectives in Central America Countries MECOVI program has generated adequate and high quality information about the living conditions of people in the region, in terms of scope, coverage, reliability, timeliness and policy relevance.

The program has two main components: a) country-specific activities, and b) region-wide activities. It is executed by the World Bank, Inter-American Development Bank and the United Nations Economic Commission for Latin America and the Caribbean as well as specialized institutions or agencies in countries participating in the program (<a href="https://www.worldbank.org">www.worldbank.org</a>).

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#### **Data collection**

Central America depends directly or indirectly on agriculture for their livelihood. In order to assess the impact of Central America policy programs on the living standards rural households have to be designed a new survey. Census and surveys on the agriculture sector are major sources of data on the agricultural production units which are essentially household based (See table 1). Similar to population and housing census, agricultural censuses are comprehensive investigations providing structural information on the agricultural sector for small geographical units. They have the same limitations as the population censuses, mainly the length of time separating two censuses (10 years as recommended by the FAO) and the lack of coverage of expenditures, consumption and income patterns. In our case, Honduras is the exception in collect data for an agricultural census. During the interval separating two censuses, more frequent agricultural surveys (using the census data as the benchmark and sampling frame) are usually conducted to update census results (UNECE: 2007). The effort to collect agricultural information is focused in surveys. Nicaragua, Guatemala, and Panama have used the LSMS survey which consider agricultural module. The length of the time separating two LSMS survey is five years. On the other hand, El Salvador, Honduras y Costa Rica applied non LSMS surveys each year (See table We consider that rural development approach is shaping land use, 2, 3 y 4). employment opportunities (OECD, 2003); role of agricultural as the supply of labor for industrialized sectors (Lewis, 1954), but by emphasizing this as the only important contribution, other significant functions of the agricultural sector tended to be overlooked; Improvements in agricultural labour productivity have been quite remarkable in Central America Countries; Several different and emerging forces affect agriculture like globalization referred to competitive structure of agriculture is affected by rules of trade, domestic policies, infrastructure development and new technologies (Vogel: 2002), environmental consequences and social implication.

We only consider that Guatemala, El Salvador and Nicaragua are participating through its National Statistical Offices in the MECOVI Program. Honduras, Costa Rica and Panamá are in process of incorporating. Nevertheless, these countries have received support for strength your respective NSO (Robles: 2003).

The LSMS surveys collect data on many aspects of living standards, on the choices that households make, and on the economic and social environment in which household members live for achieving the objective of measurement and study of the determinants of living standards in Central America, especially the living standards of the poor (UNECE: 2007).

In Central America are including the agricultural module as a process of integration to LSMS (See table 2). The LSMS surveys usually employ three different kinds of questionnaires to collect data on many dimensions of household well-being, including consumption, income, savings, employment, health, education, fertility, nutrition, housing and migration (UNECE: 2007).

The questionnaires information obtained from Nicaragua, Guatemala, and Panama LSMS surveys have been modified along the time. We can outline the first of these questionnaires like *household questionnaires*. These collect detailed information on

the household members. Because economic welfare is traditionally deduced from consumption data, the measurement of consumption is usually strongly emphasized. A wide range of income information, such as wages or in kind compensation from principal as well as secondary jobs, is also collected. In addition, agriculture and small enterprise modules are designed to yield estimates of net household income from these activities. Data on other sources of miscellaneous income, such as private or public transfers, are also collected.

In order to limit the length of the household questionnaire a second questionnaire, the *community questionnaire*, is used to obtain information on local conditions that are common to all households in the area. Community questionnaires are normally used only in rural areas, where local communities are easier to define than in urban areas. Key community leaders and groups are asked to give information on the location and quality of health facilities and schools, the condition of local infrastructure such as roads, sources of fuel and water, availability of electricity, means of communication and agricultural conditions and practices (UNECE: 2007).

In Central American countries where the prices vary considerably, so a *price* questionnaire is used to gather information on the prices that households are faced with in practice.

A fourth type of questionnaire, the *Special Facility Questionnaires* on schools or health facilities, is sometimes used as well.

The Tables 1, 2, 3 and 4 demonstrate what kind of information is provides by the surveys of each Central America country that are presently available and how each

contribute to the overall needed to represent the socioeconomic dimension of rural space.

For Central America countries the problems is that just the NSOs of Panama, Nicaragua and Guatemala have LSMS surveys with an agricultural module integrated, Nicaragua have panel data sets and the date applied of each surveys is different along the time. This situation carries out difficult work paper on the academic community for analyzing rural development policy and impact of agricultural programs.

#### **Dissemination effort**

The National Statistical Offices of each Central American country have developing activities to increase the capacity for improving the documentation and dissemination of data and result. The NSOs have an access policy of free for download data survey. The MECOVI program (LSMS staff) with the World Bank has helped them design and implement courses for both data producers and data users on household surveys and social policy. The dissemination effort to distribute information about multi-topic household surveys has contributed to provide input to policymakers for designing poverty reduces strategy, social and economic policy in your respectively country. This kind of information is needed for the design, monitoring and evaluation of polices, programs and projects, aimed at reducing poverty and the promotion of greater social equality.

In these direction the Program MECOVI has developed 14 workshops in Argentina, Mexico and Peru where the Central America countries have been participated in the strength of the NSOs capacity (see table 5).

Guatemala has structured a users committee, technical team formed by INE, SEGEPLAN and Rafael Landivar University (NSI: 2000).

In El Salvador the dissemination effort has been focused for capacity to technical personnel, structure an international committee, and technical support. The institutions that participate in research are Professional College for Economic Sciences, Salvadorian Foundation for Health and development human, Foundation

for Salvadorian Integral Education, Enterprise Foundation for educative development (GDEC: 2000).

Honduras and Panamá have expressed attention to participate in the MECOVI program, but Panamá have three LSMS survey applied.

Since 1998 year, Costa Rica have available the main results of household survey on the web site <a href="www.inec.go.cr">www.inec.go.cr</a> and the Costa Rica University <a href="www.ccp.ucr.ac.cr">www.ccp.ucr.ac.cr</a> where users can find household surveys data base, but the LSMS survey is not used (NSI: 2000).

Nicaragua has applied four LSMS surveys during 93, 98, 2001 y 2005. These surveys are considering as panel data sets that emerge the multiple years of data. However, for these surveys, there is no data file that provides the cross-walk for households between surveys. That is, information on how to link households between individual years of the surveys may be described in the Basic information document, but have not been formally prepared for distribution. Therefore, to use these surveys as panels, users will need to match the households between the various surveys to construct a panel data set. Some work papers have been presented with these issues as Organic Fertilizer in small farms of Nicaragua, Wages and employment in non-farm agricultural activities, Stochastic Frontier on Nicaragua forest farms, Malmquist index (Zuniga: 2009-2010). Other issues as Non-Traditional crops, traditional constraints.....adoption Guatemalan smallholders are referred to Guatemala used work bank data base (Carletto: 2007-2009)

There are 622 publications and reports registered that use the work bank and NSOs data base. These publications refer issues about survey methodology, development, implementation and monitoring of poverty reduction strategies (see table 6). Also there are other authors that write papers but without use LSMS data surveys as my colleague Bravo Ureta (Bravo: 2010).

However, the Central American researches and academics from CSUCA universities or private universities not participate in work paper and discussion forum on survey methodology fostered trough work bank web site. There are outstanding issues to be resolved in the area of poverty measurement like income, consumption, subjective welfare as well as news topics that have been identified by researcher as key to understanding poverty alleviation but for which tested methods of data collection do not exist.

Table 6: Central America publications & reports					
Country	Publications and reports Counts	Period			
Guatemala	123	2009-1951			
El Salvador	102	2009-1969			
Honduras	128	2010-1989			
Nicaragua	115	2009-1993			
Costa Rica	111	2009-1982			
Panamá	43	2009-1981			
Central America	622	2010-1951			
Source: http://web.worldbank.org/					

#### **Conclusions**

The LSMS surveys comparisons between Central American countries about colleting and dissemination effort evidence that the World Bank and the Mecovi Program have been supporting the National Statistical Offices. The World Bank makes emphasize building capacity for planning, designing and executing the surveys, instead of just improving the survey instruments. The LSMS questionnaires along the time have suffering modification which it includes the agricultural module like a process of an agricultural integration system. The training offered through workshops and courses was essential to enhancing the technical capacity, as well as for creation of a network of cooperation. The Central American countries have received a practical horizontal, economical, technical cooperation and mutually beneficial mechanism for enhancement to NSO capacities. This has made close coordination between sponsoring helps to establish priorities and to conduct program activities in an integrated manner (Work Bank: web site).

These World Bank activities have permitted to the National Statistical Offices (NSO) a wide dissemination and democratization of statistical information which is essential for engendering trust and confidence in the statistical system that generates it. The problem is not enough LSMS survey available for researching agricultural policy designed to solve identified problems.

Conversely, the Central American universities with NSOs have the commitment to production of high quality statistical information creates a virtuous circle: better information, more credibility, more utilization of data, more demand, more resources, improved capacity, better information, and so forth. But furthermore, is needed produce papers about issues rural development using the LSMS surveys.

The universities have the key role and responsibility in your social projection for improving may work in two directions: a) ensuring the quality and relevance of the data produced and b) researching to resolve the issues of poverty measurement and impact development social programs merging to rural development.

Although, as will become evident, statistics of LSMS surveys in Central America for agricultural households are not fully developed, sufficient evidence exists to demonstrate the great policy relevance of this information (UNECE: 2007).

In conclusion is needed to harmonize LSMS surveys and the agricultural module for what academic researchers may work paper about agricultural policy and improvement the rural development policy in each Central America country.

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#### **Annexes**

Table 1. Data source: Agricultural Censuses and Surveys					
Country	Years	Censuses	Years	Surveys	
Guatemala	2003	CENAGRO	2000	ENCOVI	
			2006	ENCOVI	
El Salvador	2007	IV National	1998	EHPM	
		farming	1999	EHPM	
		census	2000	EHPM	
			2001	EHPM	
			2002	EHPM	
			2003	EHPM	
			2004	EHPM	
			2005	EHPM	
			2006	EHPM	
			2007	EHPM	
			2008	EHPM	
Honduras	2002	Agricultural	2001	ENCOVI	
		Survey non	2002	ENCOVI	
	2003	census	2004	ENCOVI	
	2004-05 2007				
Nicaragua			1993	ENMV	
			1998	ENMV	
			2001	ENMV	
	2005	III CENAGRO	2005	ENMV	
Costa Rica	2004	Coffee farmer	1966-1971	HCAS	
		census	1976-1986	NHEDS	
	2006		1985-1987	HMPS	
			1998	HMPS	
			1999	HMPS	
			2000	HMPS	
			2001	HMPS	
			2002	HMPS	
Panamá	2000	VI farming	1997	LSS	
		National	2003	LSS	
		Census	2008	LSS	
Source: Natio	nal Statistica	al Offices (NSOs)	/ http://web.worldbar	nk.org/	

Country	National Statistical Office (NSO)	Begin MECOVI activities	Surveys applied	Questionnaire	Data Base Available in web site
Guatemala	National Statistical Institute (NSI)	1999	National life conditions Survey (NLICOS) 2000	Households Community Rural prices	Yes
El Salvador	General Direction of Census and Statistic (GDCS)	1997	Household Multiple Purpose Survey (HMPS) 1975, 1997,1998 1999,2000,2001 2002, 2003,2004 2005,2006,2007 2008		Yes
Honduras	National Statistical Institute (NSI)	Notice Expression to participate 2001	Household Multiple Purpose Survey (HMPS) 2002		Yes
Nicaragua National Institute 1998 for Development Information (NIDI)		1998	Measurement Living Standards Survey (MLSS) 1993, 1998, 2001, 2005	Households Community Rural prices Anthropometry	Yes
Costa Rica	National Statistical Institute (NSI)	Notice Expression to participate 2001	Household Multiple Purpose Survey (HMPS) 1966- 1971, 1976- 1986,		Yes, since 1998
Panamá	General Controlling of Panama Republic/ Ministry of Economy and Finance	Notice Expression to participate 2001	Living Standards Survey 1997, 2003, 2008	Households Community Rural prices Anthropometry	Yes

	Guatemala	El Salvador	Honduras	Nicaragua	Costa Rica	Panama
	00 06			93 98 01 05		97 03 08
Household						
Modules						
Characteristics of	хх			XXXX		X X X
housing						
Migration	X X			XXXX		X X X
Demographic data	ХХ			XXXX		X X X
Education	хх			X X X X		X X X
Health	хх			x x x x		x x x
Employment	хх			X X X X		X X X
Time use	X X			X X X X		X X X
Agricultural activities	XX			XXXX	+	X X X
Non agricultural	XX			XXXX		X X X
household enterprise	\ \ \ \ \					
Expenditure on food	хх			x x x x		x x x
Expenditure on non-	XX			XXXX		X X X
food	^ ^					^ ^ ^
Fertility	хх			x x x x		x x x
Other income	X X			XXXX		x x x
Saving and	XX		+	XXXX		X X X
Borrowing	X X					
Anthropometric	хх			x x x x		x x x
Bequest and	X X			XXXX		X X X
preferences about	^ ^					
children						
Technology and	хх			X X X X		ххх
environment						
Intra-Household	хх			X X X X		ххх
decisions						
Intra-Household	X X			XXXX		X X X
transfers						
Community						
Modules						
Demographic	X X	x x x		X X X X		X X X
information						
Economy and	X X	X X X		X X X X		X X X
infrastructure						
Health	X X	X X X		X X X X		X X X
Agriculture	X X	X X X		X X X X		X X X
		_				
Price	X X	x x x		x x x x		x x x
Module						
	T	1	1	1		
Services	XX	XXX		X X X X		

Country	Year	Sample Size	Web Site	Modification in Questionnaire Module	Available for free download
Guatemala LSMS	2000 2006	7,940	http://www.ine.gob.gt	Households Community Rural prices	Yes
El Salvador Non LSMS	1975 1997 1998 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008	17,784	http://www.ine.gob.sv		Yes
Honduras Non LSMS	2004		http://www.ine-hn.org		Yes
Nicaragua LSMS	1993 1998 2001 2005	4,200 4,209 4,659 6,594	http://www.inede.gob.ni/	93 Household, community, anthropometry 98 Price Post-Mitch Household 01 -05 Household, community, anthropometry price	Yes
Costa Rica Non LSMS	1966 1971 1976 1986 1998 1999 2002	10,890 17,648 13,175	http://www.inec.go.cr/		Yes
Panamá LSMS	1997 2003 2008	4,945 8,000 7,045	http://www.contraloria.gob.pa/	97 Household, community, anthropometry, rural price 03 08 Rural and indigenous price	Yes

http://econ.worldbank.org/WBSITE/EXTERNAL/EXTDEC/EXTRESEARCH/EXTLSMS/0,,contentMDK:21370542~menuPK:4196952~pagePK:64168445~piPK:64168309~theSitePK:3358997~isCURL:Y~i

Issue	Workshop Topic	Date and Place	Participants Countries
1	Plan and development household surveys	Aguascalientes,	Costa Rica, El Salvador,
_	for living standards measurement	México, 1 al 3 abril de	Guatemala, Honduras,
	To the standard of the standar	1998	Nicaragua, Panamá
2	Income measurement of household	Buenos Aires,	Costa Rica, El Salvador,
	surveys	Argentina, 10 al 13 de	Guatemala, Honduras,
		noviembre de 1998	Nicaragua, Panamá
3	Expenditure measurement of household	Aguascalientes,	Costa Rica, El Salvador,
_	surveys	México, 24 al 28 de	Guatemala, Honduras,
		mayo 1999	Nicaragua, Panamá
4	Poverty measurement: Poverty lines	Buenos Aires,	Costa Rica, El Salvador,
	method	Argentina, 16 al 19 de	Guatemala, Honduras,
		noviembre de 1999	Nicaragua, Panamá
5	Poverty measurement: Methods and	Aguascalientes,	Costa Rica, El Salvador,
	Applies (ongoing)	México, 6 al 8 de junio	Guatemala, Honduras,
	FF (- 6- 6)	2000	Panamá
6	Indicators for social development	Buenos Aires,	Costa Rica, El Salvador,
		Argentina, 15 al 17 de	Guatemala, Nicaragua,
		noviembre de 2000	Panamá
7	Design and implementation of a integrated	Aguascalientes,	Costa Rica, El Salvador,
	system of household surveys	México, 30 de mayo al	Guatemala, Honduras,
		1 de junio 2001	Nicaragua
8	Past, present and future MECOVI program	Buenos Aires,	El Salvador, Guatemala,
		Argentina, 28 al 30 de	Honduras, Nicaragua
		noviembre de 2001	_
9	Design and assembly of the sampling	Lima, Perú, 17 al 19 de	Costa Rica, El Salvador,
	framework for household surveys	junio de 2002	Guatemala, Honduras,
			Nicaragua, Panamá
10	The sample practice for design household	Buenos Aires,	Costa Rica, El Salvador,
	surveys	Argentina, 27 al 29 de	Guatemala, Honduras,
		noviembre de 2002	Nicaragua, Panamá
11	Regional workshop about planning and	Aguascalientes,	Costa Rica, El Salvador,
	development household surveys for living	México, 1 al 3 de abril	Guatemala, Honduras,
	standards measurement	1998	Nicaragua, Panamá
12	Measurement and characteristic Employ of	Buenos Aires,	Costa Rica, El Salvador,
	the household surveys	Argentina, 3 al 5 de	Guatemala, Honduras,
		noviembre de 2003	Nicaragua, Panamá
13	The building line poverty in Latin America:	Lima, Perú, 7 al 9 de	Costa Rica, El Salvador,
	Practices and Methodology	Julio 2004	Guatemala, Honduras
14	Data attribution in the household surveys:	Buenos Aires,	Costa Rica, El Salvador,
14			
14	The methodological procedure and	Argentina, 17 al 19 de	Guatemala, Panamá