#### Robert N. Thomas

Michigan State University

## Internal Migration In Latin America: An Analysis of Recent Literature

Before attempting to review research on internal migrations in Latin America, defining the term "internal migration" seems appropriate. "Internal" implies within countries, but a problem arises in defining "migration." There are almost as many definitions as there are investigations. The process has been variously described, as follows:

- 1) A permanent or semipermanent change of residence. No restriction is placed on distance of the move or the voluntary or involuntary nature of the act (Lee, 1966);
- 2) Movement that involves a change in the usual place of residence from one community to another (Hamilton, 1961);
- 3) The change of residence of an individual from one parish or commune to another (Hagerstrand, 1969);
- 4) Moving to a state different from the one in which the individual lived at the time of the last census Whetten and Burnight, 1956);
- 5) In most census enumerations, movements across administrative demarcations are viewed as migrations, but whether they are boundaries between local, civil, intermediate county, or larger provincial units is subject to the working definition of the specific census bureau (Ng, 1969);
- 6) Intercommunity movement cannot be employed with precise community boundaries, since these boundaries do not reflect the data available for the study of migration. Instead, some existing set of well-established and universally familiar boundaries must be used as an approximation. Counties, communes, *municipios*, and similar areas more closely match the definition and are practical. In the United States, for example, it is customary to define migration as intercounty mobility (Bogue, 1969);
- 7) A relatively permanent moving from one geographic place to another, preceded

by decision-making on the part of the migrant that results in a change in the interactional system of the migrant (Mangalam, 1968).

Clearly, the definitions vary from study to study, and the definition employed will depend on such considerations as the objectives of the research as well as the availability of the data.

#### **Directional Bias**

In recent years population growth in Latin America has been increasingly centered in urban areas. While Latin America's total population increased approximately 32 percent between 1950 and 1960, rural areas grew by only 16.8 percent while urban centers (2,000 and over) increased by 56 percent. During the same decade some fourteen million people moved from rural to urban areas as urban population rose from thirty-nine percent in 1950 to forty-six percent in 1960 (Miller and Gakenheimer, 1969). In 1960 twenty-seven million people lived in cities with a population of over one million people, and, if this unprecedented growth continues, there should be sixteen cities with a population of over one million in the early seventies and twenty-seven by 1980 (Morse, 1965). Although natural increase remains relatively high in most of Latin America, studies disclose that the most significant demographic fact in contemporary Latin America may well be the mass movement of people from rural areas to urban centers (Smith, 1960; Harr, 1963; Ducoff, 196S; Arriaga, 1968).

## **Migration Incentives**

According to migration literature the decision to migrate usually can be assigned to one of three general categories: 1) conditions associated with the generating area ("push" factors). 2) conditions associated with the area of destination ("pull" factors), and personal considerations (Lee, 1966). The causes of migration from the rural areas are many. Undoubtedly, the pressures of rural poverty assist in driving the farmer toward the city, but frequently poverty is a result of a myriad of social and economic variables, e.g., lack of education, a land tenure system that enables a few to monopolize the best lands (*latifundia*, where the small farmer is unable to provide an adequate return for his large family (*minifundia*, and where primitive methods of cultivation become progressively less productive (Eidt, 1962; Morse, 196S; Stewart, 1965; Fischlowitz, 1969).

The "pull" factors of urban areas also take many forms. The economist tends to consider job opportunities as paramount, but educational facilities, entertainment, and even crime have been considered in the literature (Herrick, 1965; Stewart, 1965; Stone, 1965). In reality, however, the decision to migrate most likely results from a combination of "push" and "pull" factors. Therefore, the bleakness of opportunities in rural areas coupled with a more promising future in the city is an appealing explanation for migration (Mar, 1961; Randall, 1962; Herrick, 1965; Sahota, 1968; Stevens, 1968; N. Adams, 1969).

Although most studies of internal migration in Latin America have been directed toward the urban sector, some investigations have employed a variety of socio-economic conditions to explain the flow of migrants to rural areas (Sariola, 1960; Crist, 1963; Gonzales, 1966; Minkel, 1966; Miller, 1968; J. Adams, 1969). These studies stress the dynamic importance of frontier settlement influenced by government programs as well as privately-generated schemes.

Even though the causes of migration are customarily divided into push-pull factors, these objective considerations are also filtered through the attitudes and decisions of individuals. Internal migration, therefore, is not merely a demographic response to specific social and economic conditions, but a direct and overt behavioral response (Morse, 1965).

# Distance and Spatial Mobility

In addition to origin and destination differentials, studies of migration include an additional, intervening variable -- that of distance. Most empirical studies support the distance-decay thesis that, as distance increases from the receiving center, the volume of migration decreases (Gossman, et al., 1968). An increase in distance may decrease the volume of migration for several reasons. An economic influence may prevail -- the greater the distance, the greater the cost. Distance also may deter the flow of information from the urban centers to potential migrants living within the migration field of a receiving area. Lack of knowledge of this receiving center may engender psychological barriers to inhibit the move. Although numerous Latin American studies have focused an one or another of these conditions (Whetten and Burnight, 1956; Elizaga, 1965a; Flinn, 1968; Sahota, 1968; D. Adams, 1969; Thomas, 1969), only Stephens (1970) employed various aspects of the distance variable per se in an attempt to explain internal migration to an urban center in Guatemala.

#### **Migration Differentials**

Migrants do not represent a random sample of a nation's population. Migration tends to be highly selective according to the social, economic, and biological characteristics of the migrants. Sufficient evidence exists in the migration literature to permit the formulation of several basic generalizations regarding these attributes.

Age

The typical migrant tends to be younger than the average population of his country and, in addition, younger than the urban population that receives him (Germani, 1961; United Nations, 1901; Hutchinson, 1963; Miro, 1964; Elizaga, 1965b; Stone, 1905; Thomas, 1969). More than six out of ten migrants to Santiago, Chile, arrived before their twenty-sixth birthday (Herrick, 1965). In San Salvador, sixty-six percent were in the age cohort fifteen to forty-four, twenty-five percent were under fifteen years of age, while only nine percent were forty-five years of age or over (Ducoff, 1962). Almost eighty percent of the migrants from rural Colombia left before the age of twenty-five, while approximately ninety percent departed before age thirty (Adams, 1969). Moreover, 42.5 percent of the migrant population residing in Guatemala City were between the ages of 15 and 29 at the time of their arrival (Thomas, 1969).

The young tend to migrate more than do other age groups, since at this time of life one seeks such essential life styles as a vocation, a wife, and u place to settle. Furthermore, moving is easier for the young because usually social ties are not so well fastened, commitments are fewer and weaker, and the spirit of independence prevails (Thomlinson, 1965).

Sex

More females than males migrate to urban areas of Latin America, since many women are able to find jobs as domestic servants or other similarly unskilled occupations. Women who have been widowed or separated from their husbands also migrate to cities to seek employment or a spouse (Ducoff, 1962). Supporting studies in Santiago, Chile, indicate that the sex ratio is 72.0 and that there were only 52 men for every 100 women within a migrant group aged 15-24. In the age cohort fourteen years and over, there were only sixty-four men for every one hundred women (Herrick, 1965; Elizaga, 1966). In San Salvador, sixty-one percent

of the migrants compared with fifty-two percent of the non-migrants were women. Whetten (1956) found in Mexico that a somewhat higher percentage of native-born females than males were living in a state other than that of their birth, while Miro (1964) disclosed that the urban sex ratios were as low as eighty-eight in Costa Rica, Chile, and El Salvador.

Most studies support the generalization that rural-urban migrants are better educated than the average person living in the area of out-migration (Browning and Feindt, 1969), but frequently less educated than the urban societies that receive them (Balan, 1969; Bock and Intaka, 1969). In rural Colombia the average level of education of non-migrants is significantly lower than that of the migrants (D. Adams, 1969). In addition, migrants who had moved out of the department of birth and higher levels of education than those who had moved within the department. In Guatemala City the internal migrant was better educated than the average Guatemalan at the time he arrived but somewhat less educated than the average city native (Thomas, 1969).

Several studies, however, take issue with the thesis that the individual arriving in the city is better educated than the native. A study done in Mexico implied that most of the migrants from the town of Tilaltongo who had migrated to Mexico City were illiterate, and a prime reason for moving to the capital was to take advantage of the city's educational facilities (Butterworth, 1962). In San Salvador, the frequency of illiteracy is much higher among the migrant (sixteen percent) than the non-migrant population (eight percent) (Ducoff, 1952).

## **Step-Wise Migration**

Several migration studies have included a discussion of the process by which a migrant moves from his rural environment to a major urban center. The migrant moves from his rural birthplace to a city by a series of steps, or stages, first to a local village, then on to a larger town, and eventually to a major city. One person may execute this step-wise migration process, or it may be accomplished by successive generations. It appears that the latter process occurs in many Latin American countries (Hutchinson, 1963; Stevens, 1968; Bock and Intaka, 1969). Specific empirical studies support the urban-origin thesis, but do not consider migration to the generating centers. Approximately fifteen percent of the internal migrants to Buenos Aires had migrated from rural areas, while more than one-third were born in medium-sized towns (2,000-20,000) and fifty percent in cities of over 20,000 (Germani, 1961). Forty-two percent of the migrants living in a

slum city of Bogota were born in urban places of over 2,000 inhabitants (Flinn, 1968), and almost one-half of the migrants living in Guatemala City were born in an urban area, specifically a department capital (Thomas, 1969). In Guatemala, the migrant who left the department capital for Guatemala City was replaced in the regional center by other migrants from nearby small towns or adjacent rural areas.

It appears, therefore, that the small towns in Latin America generally have been less than effective as administrative, marketing, and service centers. Meanwhile, even these few functions may be eroding as leaders desert the small urban centers for the large cities while their replacements are families of landless farm workers (Morse, 1965).

## **Consequences of Migration**

One of the principal manifestations of the urbanization process in Latin America is the existence of extensive belts of slum areas in and around major urban centers. Names assigned to these slum cities vary from country to country, e.g., Argentina, villa de miseria; Brazil, favela; Chile, callampa; Colombia, tugurio; Guatemala, barrios marginales; Mexico, colonia proletaria; Panama, barriada bruja; Peru, barriada or tugurio; Uruguay, cantegrite; and Venezuela, rancho. Assuming That the migrant was unable to find or afford adequate housing once he arrived in the city, Latin Americanists historically have viewed these areas as the direct result of internal migration (Mar, 1961; Mar, 1963; Elizaga, 1966; Margin, 1967; Rogler, 1967; Delgado, 1969). A recent review of slum city investigations, however, revealed that in many instances the inhabitants of the slum areas are natives of the urban centers (Man.,in, 19L)7). Regardless of its origin, the slum city may still be a considerable improvement over the living conditions in the former rural environment of the migrant population (Turner, 1955).

Another possible consequence of rural-urban migration involves fertility differentials (Hutchinson, 1961; Macisco, et al., 1969). The migration of Puerto Rican youth to the United States could have contributed to a decline in the birthrate of the Commonwealth (Stone, 1965), while migrant women had lower fertility rates than non-migrants (Meyers and Morris, 1960). In Mexico, a rise in urban fertility may be directly attributable to the presence in the city of large numbers of rural migrants whose attitudes toward family size are essentially traditional (Zarate, 1967a; Zarate, 1967b).

#### Research Guidelines In the Seventies

Before venturing farther into the seventies, geographers in general, and Latin Americanist geographers in particular, might benefit from rereading Edward A. Ackerman's classic article, "Where is a Research Frontier?" (Ackerman, 1963). The author's plea that problems be solved by using the scientific method generally has been accepted by the profession. Few purely descriptive studies are proposed, and fewer still accepted by funding agencies and leading graduate schools. Ackerman also stressed that geographers need to employ statistical techniques in research. Certainly this trend continues and quite possibly has reached proportions never envisioned by Ackerman when he wrote the article. In this regard, he did issue a veiled warning that the profession should be careful that "our computerized mathematical colleagues do not lead us to a dead end and that nonsense is not removed by hardware and symbolic logic."

Ackerman also appears to have correctly diagnosed the increasing importance of the "systems approach" to problems of spatial distribution and spatial structure. Research teams have handed together in an attempt to understand some of our most perplexing problems, e.g., the central city and urban societies, environmental pollution, population growth, and other ecological problems. Each of these areas attracts geographers who attempt to discover and explain regularities in spatial process and structure.

There appears to be considerable correlation between Ackerman's views in the early sixties and the problems confronting migration specialists in the late sixties (Mangalam and Sehwarzweller, 1958). Although the notion still persists that migration is a random phenomenon and the decision to migrate is a unique individual response to one's total environment, this emphasis of the idiographic approach runs counter to the spirit of scientific inquiry, which seeks similarities rather than differences, and generalizations, not unique situations. The failure to integrate these generalizations and to construct a viable migration theory may stem from the lack of primary source data. Normally, census information does not reflect basic social and psychological processes that may affect migration behavior. If this be the case, more studies should be based on data generated by the investigator to suit his own particular research problem.

When one does employ Latin American census and other statistical data, he should be aware of their limitations (Darbo, 1964; Mortaro, 1964a; Mortaro, 1964b; Elizaga, 1965c). In even the most developed countries, census enumerations are never precise, and errors of commission and omission are

inevitable. These discrepancies vary from country to country and should be familiar to the individual researcher.

#### Consequences of Out-migration

As for specific migration movements to he considered in the seventies, rural-urban studies probably will continue to have an important place in migration research. If the spatial effects of migration continue to interest geographers, however, future research might be directed to the impact of out-migration on the generating centers. Several studies have already considered this problem (Alexander, 1961; Lowenthal and Comitas, 1962; Parr, 1966), but if the rapid pace of urbanization continues this could be a fertile area for future research.

#### **Intra-urban Mobility**

Recent estimates are that approximately fifty-five percent of Latin America's population will live in urban areas (2,000 and over) by the year 1975, while over ninety million people will reside in cities of one million inhabitants or over by 1980 (Morse, 1965; Durand and Palaez, 1965). If the present rate of urbanization continues, greater attention might well be directed to the study of the migration process within a given urban setting. To date, researchers have conducted their investigation in landscape laboratories other than Latin America. A review of recent intra-urban investigations have been presented by Moore (1966), Simmons, (1968), Boyce, (1969), Moore, (1969a), and Brown and Moore (1970). Empirical research is numerous and includes a variety of approaches as well as testable hypotheses (Heiges, 1968; Brown and Moore, 1968; Brown and Longbrake, 1969; Moore, 1969b; Johnston, 1969; Adams, 1969; Clark, 1969; Moore, 1970). The lack of similar investigations in Latin America is probably attributable to the lack of data as well as research personnel interested in the topic. We might hope that migration and urban specialists will give increased attention to intra-urban mobility in Latin America during the remainder of the seventies

## **Behavioral Approach**

Although most migration research employs a variety of demographic variables in an attempt to explain migration networks, many investigators recognize the importance of personal considerations, individual behavior, or decision-making processes as they apply to the migration scheme (Wolpert, 1965; Wolpert, 1965; Brown and Moore, 1968; Wilkie, 1968). This general trend toward behavioral

studies in geography research most likely will involve migration research in Latin America, since the decision to migrate is such a highly personal one. Whether investigators to undertake such studies will be generated from the present group of Latin Americanists or from topical specialists with other areal interests is not the real problem. History has shown that, where a social problem exists, the social science investigator is certain to follow. This is the way of research.

#### **References Cited**

Ackerman, Edward A. "Where Is a Research Frontier?" *Annals of the Association of American Geographers*. Vol. 53 (1963), pp. 429-239.

Adams, Dale W. "Rural Migration and Agricultural Development in Colombia." Economic Development and Cultural Change. Vol. 17 (1969), pp. 527-539.

Adams, John S. "Directional Bias in Intra-Urban Migration." *Economic Geography*. Vol. 45 (1969), pp. 302-323.

Adams, Nassau A. "Internal Migration in Jamaica: An Economic Analysis." *Social and Economic Studies*. Vol. 18 (1969), pp. 137-151.

Alexander, C. S. "Margarita Island, Exporter of People." *Journal of Inter-American Studies*. Vol. 3 (1961), pp. 548-557.

Arriaga, Eduardo E. "Components of City Growth in Selected Latin American Countries." *Milbank Memorial Fund Quarterly*. Vol. 46 (1968), pp. 237-252.

Balan, Jorge. "Migrant-Native Socioeconomic Differences in Latin American Cities: A Structural Analysis." *Latin American Research Review*. Vol. 4 (1969), pp. 3-29.

Ball, John M. "The Migration of People in Mexico." *The Professional Geographer*. Vol. 19 (1967), pp. 5-8.

\_\_\_\_\_. "Some Comments on Mexico's Population." *Journal of Geography*. Vol. 60 (1961), p. 104.

Bock, E. Wilbur, and Intaka, Sugiyama. "Rural-Urban Migration and Social Mobility: The Controversy on Latin America." Rural Sociology. Vol. 34 (1969), pp.

Bogue, Donald J. *Principles of Demography*. (New York: John Wiley and Sons, Inc., 1969).

Boyce, Ronald R. "Residential Mobility and Its Implications for Urban Spatial Change." *Proceedings of the Association of American Geographers.* Vol. 1 (1969), pp. 22-26.

Bradfield, Stillman. "Selectivity in Rural-Urban Migration: The Case of Huaylas, Peru." Wenner-Gren Foundation for Anthropological Research, (1964).

Brown, Lawrence A., and Eric G. Moore. "Intra-Urban Migration: An Actor Oriented Framework." (Departments of Geography, Ohio State University and Northwestern University, 1968).

\_\_\_\_\_. "The Intra-urban Migration Process: A Perspective." Geografiska Annaler. (forthcoming, 1970).

Brown, Lawrence A., and David Longbrake. "On the Implementation of Place Utility and Related Concepts: The Intra-Urban Migration Case," in Kevin R. Cox and Reginald G. Golledge (eds.), *Behavioral Problems in Geography: A Symposium*. Studies in Geography No. 17, Northwestern University, (1969), pp. 169-196).

Browning, Harley L. "Recent Trends in Latin American Urbanization." *The Annals of the American Academy of Political and Social Science*. Vol. 316 (1958), pp. 111-120.

Browning, Harley L., and Waltraut Feindt. "Selectivity of Migrants to a Metropolis in a Developing Country: A Mexican Case Study." *Demography*. Vol. 6 (1969), pp. 347-358.

Butterworth, Douglas S. "A Study of the Urbanization Process Among Mixtec Migrants from Tilaltongo in Mexico City." *America Indigena*. Vol. 22 (1962), pp. 257-274.

Clark, W. A. V. "Information Flows and Intra-Urban Migration: An Empirical Analysis." *Proceedings of the Association of American Geographers.* Vol. 1 (1969), pp. 38-42.

Combeto, Roberto. Las Migraciones Internas en la Argentina. (Buenos Aires: Imprenta

de la Universidad, 1968). No. 26, p. 41.

Crist, Raymond E. Bolivians Trek Eastward." Americas. Vol. 155 (1963), pp. 33-38.

Darbo, Adolfo Gaeti. "Evaluación de las Estadísticas Vitales en América Latina." *América Latina*. Vol. 7 (1954), pp. 59-74.

Delgado, Carlos. "Three Proposals Regarding Accelerated Urbanization Problems in Metropolitan Areas: The Lima Case." *American Behavioral Scientist*. Vol. 12 (1969), pp. 34-4S.

Ducoff, Louis J. "The Migrant Population of A Metropolitan Area in a Developing Country: Case Study of San Salvador." *Ekistics.* Vol. 13 (1962), pp. 330-332.

\_\_\_\_\_. "The Role of Migration in the Demographic Development of Latin America." *Milbank Memorial Fund Quarterly*, Vol. 43 (1965), pp. 197-216.

Durand, John D., and Cesar A. Palaez. "Patterns of Urbanization in Latin America." *Milbank Memorial Fund Quarterly*. Vol. 43 (1965), pp. 166-195.

Eidt, Robert C. "Pioneer Settlement in Eastern Peru." Annals of the Association of American Geographers. Vol. 52 (1962), pp. 255-278.

Elizaga, Juan C. "Internal Migrations in Latin America." *Milbank Memorial Fund Quarterly.* Vol. 43 (1965a), pp. 144-165.

· '	'Internal	Migrati	on in L	atin A	merica:	Some I	Metho	do]	logical	Α	spects	and
Results.'	' Internat	ional Soci	ial Scien	ce Jour	nal. Vol.	17 (196	55b), p	p. 2	213-23	31	•	

\_\_\_\_\_. "Assessment of Migration Data in Latin America." *Milbank Memorial Fund Quarterly.* Vol. 43 (1965c), pp. 76-106.

\_\_\_\_. "A Study of Migration to Greater Santiago (Chile)." Demography. Vol. 3 (1966), pp. 352- 377.

Fischlowitz, Estanislau. "The Internal Migration in Brazil." *Migration News*. Vol. 13 (1964), pp. 1-7.

\_\_\_\_\_. "Internal Migration in Brazil." The International Migration Review. Vol. 3

(1969), pp. 36-45.

Flinn, William L. "The Process of Migration to a Shantytown in Bogota, Colombia." *Inter-American Economic Affairs*. Vol. 22 (1968), pp. 77-88.

Friedlander, Stanley L. Labor Migration and Economic Growth: A Case Study of Puerto Rico. (Cambridge, Mass.: The M.I.T. Press, 1965).

Germani, Gino. "Inquiry into the Social Effects of Urbanization in a Working-Class Sector of Greater Buenos Aires," in Phillip M. Hauser, ed., *Urbanization in Latin America*. (Paris: UNESCO, 1961), pp. 206-233.

Gonzalez, Alfonso. "Problems of Agricultural Development in a Pioneer Region of Southwestern Coastal Mexico." *Revista Geográfica*. Vol. 64 (1966), pp. 29-52.

Gonzales, Nancie L. Solien de. "Black Carib Adaption to a Latin Urban Milieu." *Social and Economic Studies*. Vol. 14 (1965), pp. 272-278.

Gossman, Charles S., Charles E. Nobbe, Theresa J. Patricelli, Calvin F. Schmid, and Thomas E. Steahr. *Migration of College and University Students in the United States*. (Seattle: University of Washington Press, 1968).

Haar, Charles M. "Latin America's Troubled Cities." Foreign Affairs. Vol. 41 (1963), pp. 536-549. Abstracted in Ekistics, Vol. 16, pp. 69-73.

Hagerstrand, Torsten. "On the Definition of Migration." Yearbook of Population Research in Finland. Vol. 11 (1969), pp. 63-71.

Hamilton, C. H. "Some Problems of Method in Internal Migration Research." *Population Index*. Vol. 27 (1961), pp. 297-307.

Hammel, Eugene A. "Some Characteristics of Rural Villages and Urban Slum Populations on the Coast of Peru." *Southwestern Journal of Anthropology*. Vol. 20 (1964), pp. 346-358.

Hannerberg, David, Torsten Hagerstrand, and Bruno Odeving, (eds.). "Migration in Sweden: A Symposium." *Lund Studies in Geography, Series B, Human Geography*, No. 13 (Lund: The Royal University of Lund, 1957).

Harewood, Jack. "Population Growth in Trinidad and Tobago in the Twentieth

Century." Social and Economic Studies. Vol. 12 (1963), pp. 1-26.

\_\_\_\_\_."Population Growth in Grenadan the Twentieth Century." *Social and Economic Studies*. Vol. 15 (1966), pp. 61-84.

Heiges, Harvey E. "Intra-Urban Residential Movement in Seattle, 1967." (Ph.D. Dissertation, Department of Geography, University of Washington, 1968).

Hernandez-Alvarez, José. "Migration, Return, and Development in Puerto Rico." Economic Development and Cultural Change. Vol. 16 (1966), pp. 574-587.

Herrick, Bruce H. *Urban Migration and Economic Development in Chile*. (Cambridge, Mass.: The M.I.T. Press, 1959).

Hutchinson, Bertram. "Fertility, Social Mobility, and Urban Migration in Brazil." *Population Studies*. Vol. 14 (1961), pp. 182-189.

\_\_\_\_. The Migrant Population of Urban Brazil. America Latina. Vol. 6 (1963), pp. 41-71.

\_\_\_\_\_. Urban Social Mobility Rates in Brazil Related to Migration and Changing Occupational Structure." *America Latina*. Vol. 6 (1963), pp. 47-61.

Johnston, R. J. "Some Tests of a Model of Intra-Urban Population Mobility: Melbourne, Australia." *Urban Studies.* Vol. 6 (1969), pp. 34-57.

Jones, Emrys. "Aspects of Urbanization in Venezuela." *Ekistics*. Vol. 18 (1964), pp. 420-425.

Kariel, Herbert G. "Selected Factors Areally Associated with Population Growth Due to Net Migration." *Annals of the Association of American Geographers*. Vol. 53 (1963), pp. 210-223.

Lasker, Gabriel, and Gaynor Evans. "Age, Environment, and Migration: Further Anthropometric Findings on Migrant and Non-Migrant Mexicans." *American Journal of Physical Anthropology*. Vol. 19 (1961), pp. 203-211.

Lee, Everett S. "A Theory of Migration." Demography. Vol. 3 (1966), pp. 47-57.

Lopes, Juarez Rubens Brandao. "Aspects of the Adjustment of Rural Migrants to Urban-Industrial Conditions in Sâo Paulo, Brazil," in Philip M. Hauser, ed.,

Urbanization in Latin America. (Paris: UNESCO, 1961), pp. 234-248.

Lowenthal, David and L. Comitas. "Emigration and Depopulation: Some Neglected Aspects of Population Geography." *The Geographical Review.* Vol. 52 (1962), pp. 195-210.

Lowry, Ira. S. Migration and Metropolitan Growth: Two Analytical Models. (Institute of Government and Public Affairs, University of California at Los Angeles, San Francisco: Chandler Publishing Company, 1966).

Macisco, John J. Jr., Leon F. Bouvier, and Martha Jane Renzi. "Migration Status, Education and Fertility in Puerto Rico, 1960." *Milbank Memorial Fund Ouarterly*. Vol. 47 (1969), pp. 167-187.

Macisco, John J. Jr., Leon Bouvier, and Robert H. Wheeler. "The Effect of Labor Force Participation on the Relation between Migration Status and Fertility in San Juan, Puerto Rico." *Milbank Memorial Fund Quarterly.* Vol. 48 (1970), pp. 51-70.

Mangalam, J. J. Human Migrations: A Guide to Migration Literature in English: 1956-1962. (University of Kentucky Press, Lexington, Ky., 1968).

Mangalam, J. J., and Harry K. Schwarzweller, "General Theory in the Study of Migration: Current Needs and Difficulties." *The International Migration Review*. Vol. 3 (1968), pp. 3-18.

Mangin, William. "Latin American Squatter Settlements: A Problem and a Solution." Latin American Research Review. Vol. 2 (1967), pp. 65-97. (Summer).

Mar, José Matos. "Migration and Urbanization - The "Barriadas" of Lima." *Ekistics*. Vol. 12 (1961a), pp. 356-360.

\_\_\_\_\_. "Migration and Urbanization - The "Barriadas" of Lima: an Example of Integration into Urban Life," in Philip M. Hauser, ed., *Urbanization in Latin America*. (Paris: UNESCO, 1961b), pp. 170-190.

\_\_\_\_\_. The Problem of Slums in South America." Ekistics. Vol. 15 (1963), pp. 266-267.

Maunder, W. F. "The New Jamaican Emigration." *Social and Economic Studies*. Vol. 4 (1955), pp. 38-63.

Meyers, George C. "Migration and Modernization: The Case of Puerto Rico, 1950-1960." *Social and Economic Studies*. Vol. 16 (1967), pp. 425-431.

Meyers, George C., and Earl W. Morris, "Migration and Fertility in Puerto Rico." *Population Studies*. Vol. 20 (1960), pp. 85-96.

Miller, E. Willard. "Population Growth and Agricultural Development in the Western Llanos of Venezuela." *Revista Geográfica*. Vol. 69 (1968), pp. 7-27.

Miller, John and Ralph Gakenheimer. "Editors' Preface." *American Behavioral Science*. Vol. 12 (1969), p.1.

Minkel, Clarence W. "Programs of Agricultural Colonization and Settlement in Central America." Revista Geográfica. Vol. 66 (1966), p. 25.

Mintz, Sidney W. "Puerto Rican Emigration: A Threefold Comparison." *Social and Economic Studies*. Vol. 4 (1955), pp. 311-325.

Miro, Carmen A. "The Population of Latin America." *Demography*. Vol. 1 (1964), pp. 5-41.

Morrison, Paul Cross. "Population Changes in Mexico, 1950-1960." Revista Geográfica. Vol. 59 (1953), pp. 79-92.

Mortara, G. "The Development and Structure of Brazil's Population." *Population Studies*. Vol. 8 (1954), pp. 121-139.

Moore, Eric G. "Models of Migration and the Intra-Urban Case." *Australian and New Zealand Journal of Sociology.* Vol. 2 (1960), pp. 16-37.

Moore, Eric G. "The Nature of Intra-Urban Migration and Some Relevant Research Strategies." *Proceedings of the Association of American Geographers.* Vol. 1 (1969a), pp. 113-116.

"The	Structure of	Intra-Urban I	Movement 1	Rates: An	Ecological 1	Model."
Urban Studies	. Vol. 6 (1969	b), pp. 17-33.				

\_\_\_\_\_. "Intra-urban Residential Mobility and Urban Spatial Structure." Paper presented at the Population Association of America meetings, Atlanta, Georgia, 1970.

Morse, Richard M. "Recent Research on Latin American Urbanization: A Selective Survey with Commentary." *Latin American Research Review*. Vol. 1 (1965), pp. 35-74.

Mortaro, Giorgio. "Evaluación de la Información censal para America Latina. America Latina. Vol. 7 (1964a), pp. 45-58.

\_\_\_\_\_. "Appraisal of Census Data for Latin America." *The Milbank Memorial Fund Quarterly.* Vol. 42 (1964b), pp. 57-85.

Ng, Ronald C. Y. "Recent Internal Population Movement in Thailand." *Annals of the Association of American Geographers*. Vol. 59 (1969), pp. 710-730.

Olsson, Gunnar. Distance and Human Interaction: A Review and Bibliography. (Bibliography Series No. 2. Philadelphia: Regional Science Research Institute, 1965).

Parr, John B. "Outmigration and the Depressed Area Problem." *Land Economics*. Vol. 42 (1966), pp. 149-159.

Pearse, Andrew. "Some Characteristics of Urbanization in the City of Rio de Janeiro," in Philip M. Hauser, ed., *Urbanization in Latin America*. (Paris: UNESCO, 1961), pp. 191-205.

Pinto, L. A. Costa, and W. Bazzanella. "Economic Development, Social Change, and Population Problems in Brazil." *Annals of the American Academy of Political and Social Sciences*. Vol. 316 (1958), pp, 121-126.

Randall, Laura. "Labor Migration and Mexican Economic Development." *Social and Economic Studies*. Vol. 11 (1962), pp. 73-79.

Roberts, G. W. "Emigration from the Islands of Barbados." *Social and Economic Studies*. Vol. 4 (1955), pp. 245-288.

"Prospects for	Population Growtl	h in the West	t Indies," $Sa$	ocial and Econor	mic
Studies. Vol. 11 (1962)	, pp. 339-350.				

\_\_\_\_\_. "Provisional Assessment of Growth of the Kingston-Saint Andrew Area 1960-1970." *Social and Economic Studies.* Vol. 12 (1963), pp. 432-441.

Rogler, Lloyd H. "Slum Neighborhoods in Latin America." *Journal of Inter-American Studies*. Vol. 9 (1967), pp. 507-528.

Rojas, Rodrigo M. "La Migración Interna en el Perú: Un Caso Concreto." *America Latina*. Vol. 10 (1967), pp. 83-108.

Sahota, Gian S. "An Economic Analysis of Internal Migration in Brazil." *Journal of Political Economy*. Vol. 76 (1968), pp. 218-245.

Sariola, Sakari. "A Colonization Experiment in Bolivia." Rural Sociology. Vol. 25 (1960), pp. 76-90.

Simmons, James W. "Changing Residence in the City: A Review of Intra-Urban Mobility." *The Geographical Review*. Vol. 58 (1968), pp. 622-651.

Smith, Robert S. "Population and Economic Growth in Central America." *Economic Development and Cultural Change*. Vol. 10 (1962), pp.134-149.

Smith, T. Lynn. "Un Analysis Comparativo do la Migración Rural-Urbana en Latinamerica." *Estadistica*. Vol. 16 (1958), pp. 436-453.

\_\_\_\_\_. "Urban-Rural Migration." *Latin American Population Studies, Social Sciences.* No. 8, Fall, 1960. (Gainesville: University of Florida Press, 1961).

Snyder, David E. "Urbanization and Population Growth in Mexico." Revista Geográfica. Vol. 64 (1966), pp. 71-84.

Stephens, John D. "Migration and Distance: A Case Study of Urban In-Migration in Guatemala." Unpublished M.A. Thesis, Indiana University of Pennsylvania, 1970.

Stevens, Robert P. "Spatial Aspects of Internal Migration in Mexico, 1950-1960." Revista Geográfica. Vol. 69 (1968), pp. 75-90.

Stewart, Norman R. "Migration and Settlement in the Peruvian Montana: The Apurimac Valley." *The Geographical Review*. Vol. 55 (1965), pp. 143-157.

Stone, Leroy O. "Net Migration and the Sex-Age Composition of Puerto Rico, 1950-1960." *Canadian Review of Sociology and Anthropology*. Vol. 2 (1955), pp. 108-116.

\_\_\_\_\_. "Population Redistribution and Economic Development in Puerto Rico, 1950-1960." *Social and Economic Studies.* Vol. 14 (1965), pp. 264-271.

Thomas, Robert N. Estudio de la Migración Interna Hacia la Cuidad de Guatemala. (Guatemala, C.A.: Sección de Estudios Geográficos, Direccion General de Obras Públicas, 1969).

Thomlinson, Ralph. Population Dynamics: Causes and Consequences of World Demographic Change. (New York: Random House, 1965).

Turner, John. "Lima's Barriadas and Corralones: Suburbs Versus Slums." *Ekistics*. Vol. 19 (1965), pp. 152-155.

United Nations, Bureau of Social Affairs, Population Branch. Demographic Aspects of Urbanization in Latin America. (Paris: UNESCO, 1961), pp. 91-117.

Vasconcelos, Luiz L. "Internal Migration in Brazil." Revista Brasileira de Economía. Vol. 10 (1956), pp. 83-114.

Whetten, Nathan L., and Robert G. Burnight. "Internal Migration in Mexico." Rural Sociology. Vol. 21 (1956), pp. 140-151.

Wilkening, E. A., J. R. Pinto, and J. Pastors. "Role of the Extended Family in Migration and Adaption in Brazil." *Journal of Marriage and the Family*. Vol. 30 (1968), pp. 689-695.

Wilkie, Richard W. "On the Theory and Process of Human Geography: A Case Study of Migration in Rural Argentina." Unpublished Ph.D. Dissertation, University of Washington, 1968.

Williamson, Robert C. "Population Dynamics in El Salvador." *Sociology and Social Research*. Vol. 43 (1959), pp. 421-426.

Wolpert, Julian. Behavioral Aspects of the Decision to Migrate." *Papers, Regional Science Association*. Vol. 15 (1965), pp. 159-169.

\_\_\_\_\_. "Migration as an Adjustment to Environmental Stress." *Journal of Social Issues.* Vol. 22 1966), pp. 92-102.

Zarate, Alvan O. "Some Factors Associated with Urban - Rural Differentials in

Mexico." Population Studies. Vol. 21 (1967a), pp. 283-293.

\_\_\_\_\_. "Fertility in Urban Areas of Mexico: Implications for the Theory of the Demographic Transition." *Demography*. Vol. 4 (1967b), pp. 363-373.

Zelinsky, Wilbur. "Population Growth in Central America and the West Indies." *Mineral Industries*. Vol. 35 (1966), pp. 1-7.