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A PRELIMINARY SURVEY OF LIBRARY MATERIALS FOR SIX MAJOR GRADUATE PROGRAMS OF AGRICULTURAL ECONOMICS IN LATIN AMERICA 1/

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BIBLIOTECA

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Introduction

It is generally accepted that agricultural literature collections in Latin American libraries are deficient, not only in numbers of books and journals, but also the relevance these materials may have to the activities and objectives of an institution. Most studies have used measures that yield information on numbers, usually slighting the aspect of relevance and quality of the collection which is of equal, if not greater, importance.

The final goal of a specialized library is to convey the pertinent information (and only that information) to its users, at the time they need it. This implies an analysis of the bibliographic materials produced in order to assess their importance in terms of the needs of the clientele. This type of study is seldom carried out because, among other factors, it implies the utilization of subject-matter specialists not usually available within the regular library personnel.

The proliferation of graduate training programs in Latin American universities in recent years has aroused a preoccupation as to the fitness of these programs not only in terms of the availability of qualified staff and financial resources, but also in terms of other less apparent aspects such as library facilities to adequately support those programs.

This article presents results of a preliminary survey performed in the libraries of six major graduate training programs in Agricultural Economics at Latin American universities. The institutions included in the study were

Colegio de Postgraduados, Chapingo, Mexico

University of the West Indies, St. Augustine, Trinidad

Universidad Nacional - Instituto Colombiano Agropecuario, U.N.-ICA, Bogotá, Colombia

Universidad Católica, Santiago, Chile

INTA, Escuela de Postgrado, Depto. de Economía, Castelar, Argentina

Universidade Federal de Viçosa, Brazil

The data were obtained through personal interviews with personnel of the library as well as of the Department of Agricultural Economics of each institution involved Besides a list of questions which served as a guide for interviewing, a "master list" of 312 books and of 40 journals[1/] in Agricultural Economics, Economics, and Quantitative Methods, divided into categories of priority, was used as criteria for qualitative evaluation of the collections.

The list was prepared by Jorge Lopera and the placing of each book or journal in a given category (scores of 3, 2 or 1 points) was done in consultation with the Agricultural Economics staff of CIAT For each library, a total score as well as partial scores for each category were obtained.

Number of Graduate Students

The following table (Table 1) presents the total number of graduate students and those in Agricultural Economics in the various institutions included in the survey

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1/ See Appendix 1 and 2.

Table 1

Number of Graduate Students, Total and in Agricultural Economics, by Institution, Years 1971, 1972 and 1973 (projected)

	1971			1972			1973		
	Ag Ec.	Total	% Ag Ec.	Ag Ec	Total	% Ag.Ec	Ag.Ec.	Total	% Ag Ec
Castelar, Argentina	15	69	21 7	15	91	16 4	20	100	20 0
Chapingo, Mexico	34	194	17 5	45	230	19 5	45	275	16 3
U.N.-ICA, Colombia	36	128	28 1	24	129	18.6	30	135	22.2
U.W I , Trinidad	2	97	2.0	3	125	2.4	6	N A 1/	-
U F Viçosa, Brazil	48	209	22 9	41	187	21 9	40	200	20 0
Catholic U., Chile	17	128	13.2	35	353	9 9	40	N.A.	-

1/ N.A. = data not available

For 1972, Chapingo (Mexico), U.N -ICA (Colombia) and U.F. Viçosa (Brazil) show figures around 20 per cent graduate students in Agricultural Economics, in relation to the total number.

Although Chapingo shows a percentage reduction for 1973, the other two in this group will remain around the 20 per cent level. Personnel at these institutions plus Catholic University (Chile) stated that their goals for the near future was to stabilize the number of students in Agricultural Economics around 40, regardless of the relative growth of other graduate programs

Castelar, perhaps the most recently created program, shows a stable number of 15 Agricultural Economics graduates for 1971 and 1972. However, there is a decline in percentage because of the growth of other programs in 1972. The goal for 1973 appears to be 20 graduates (20 percent of total).

According to these data, the University of the West Indies program seems to place least emphasis in Agricultural Economics graduate training

Book Collections

Table 2 presents the number of titles catalogued in Agricultural Economics and the total number of titles in each library. Also a percentage figure of Agricultural Economics titles in relation to the total is presented.

Table 2

Number of Book Titles Catalogued, Total and in Agricultural Economics, by Institution (July, 1972)

	Agr Econ Titles	Total No. of Titles	Agr. Econ as Percent of Total
Chapingo, Mexico	1069	36811	2 90
U W.I., Trinidad	1187	34393	3.45
U F. Viçosa, Brazil	174	25194	0 69
Catholic U., Chile 1/	137	14988	0 91
U N -ICA, Colombia	108	12700	0 85
Castelar, Argentina	1000	6000	16.67

1/ Catholic University has a central library where most of the processing is done. Library holdings however, are located in the various specialized institutes These figures correspond to books at the Instituto de Economía only.

The wide variation encountered among the various Agricultural Economics collections should not be considered in absolute terms as the criteria for cataloguing books may vary from institution to institution and even from person to person. In most cases, these libraries cover the entire range of subjects classified as agricultural sciences, with the exception of Catholic University of Chile and the program at Castelar, Argentina, for which data refer only to their specialized institutes.

According to this table, Castelar would be the library having the highest percentage emphasis in Agricultural Economics, in relation to the total size of the collection. There is a second group composed of Chapingo (Mexico) and University of the West Indies (Trinidad), and finally, Catholic University (Chile), National University-ICA (Colombia) and Federal University of Viçosa (Brazil).

In absolute numbers, however, University of the West Indies, Chapingo, and Castelar have the greatest numbers of books catalogued in Agricultural Economics, and the difference to the other three institutions is quite considerable.

In Table 3, books needed for an Agricultural Economics graduate training program are presented not only in terms of a quantitative criterion, but also include a relative qualitative evaluation of titles based on a comparison to the "master list" mentioned earlier. Books which were considered "essential" to a graduate training program were assigned a score of 3 points. "Important" books and "desirable" books were assigned values of 2 and 1, respectively

Table 3

Numbers and Scores of Book Collections by Categories and Institutions

Institution	"Essential"		"Important"		"Desirable"		Total Number		Total Score	
	Number	Score	Number	Score	Number	Score	Number	%	Number	%
Catholic U. (Chile)	71	213	86	172	35	35	192	61.5	420	64.5
U.W.I (Trinidad)	58	174	79	158	29	29	166	53.2	361	55.4
U F. Viçosa (Brazil)	62	186	64	126	31	31	157	50.3	343	52.6
U.N.-ICA (Colombia)	60	180	63	128	27	27	150	48.0	335	51.4
Chapingo (Mexico)	38	114	49	98	19	19	106	34.0	231	35.4
Castelar (Argentina)	41	123	34	68	11	11	86	27.5	202	31.0
"Master List"	100	300	139	278	73	73	312	100.0	651	100.0

In this table, Catholic University (Chile) shows a considerable difference over the University of the West Indies (Trinidad), Federal University of Viçosa (Brazil) and National University-ICA (Colombia) which make a close group. These latter institutions are well above Chapingo (Mexico) and Castelar (Argentina) which run last. It should also be noted that the highest percentage of books - that of Catholic University -- is only 61.5 percent in terms of numbers and 64.5 percent in terms of scores whereas the lowest goes down to less than 30 percent of the maximum possible in the "master list".

This information is also presented graphically in Figures 1 and 2.

FIGURE 1 NUMBER OF BOOKS BY CATEGORY OF PRIORITY IN THE SIX INSTITUTIONS SURVEYED

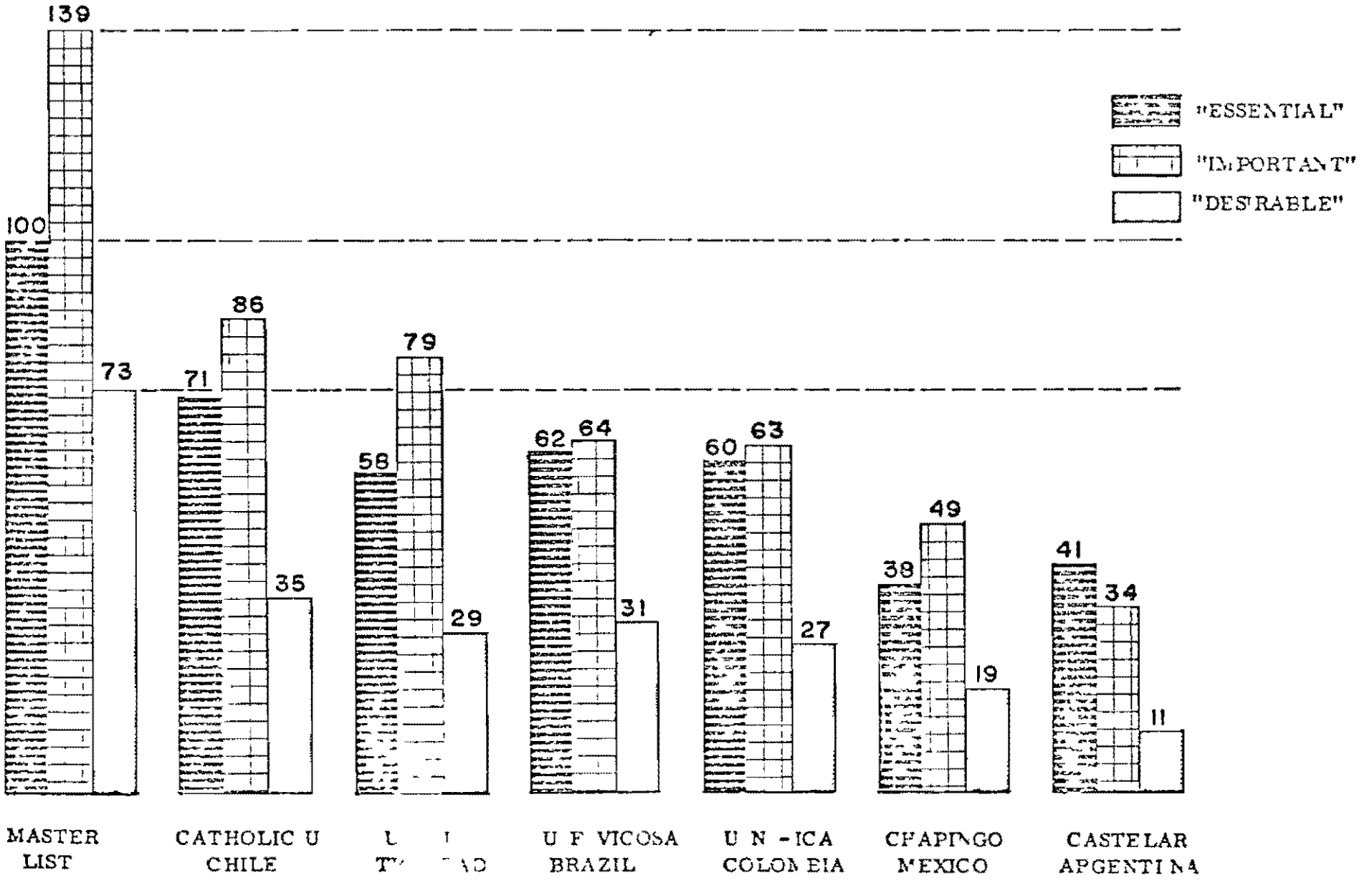
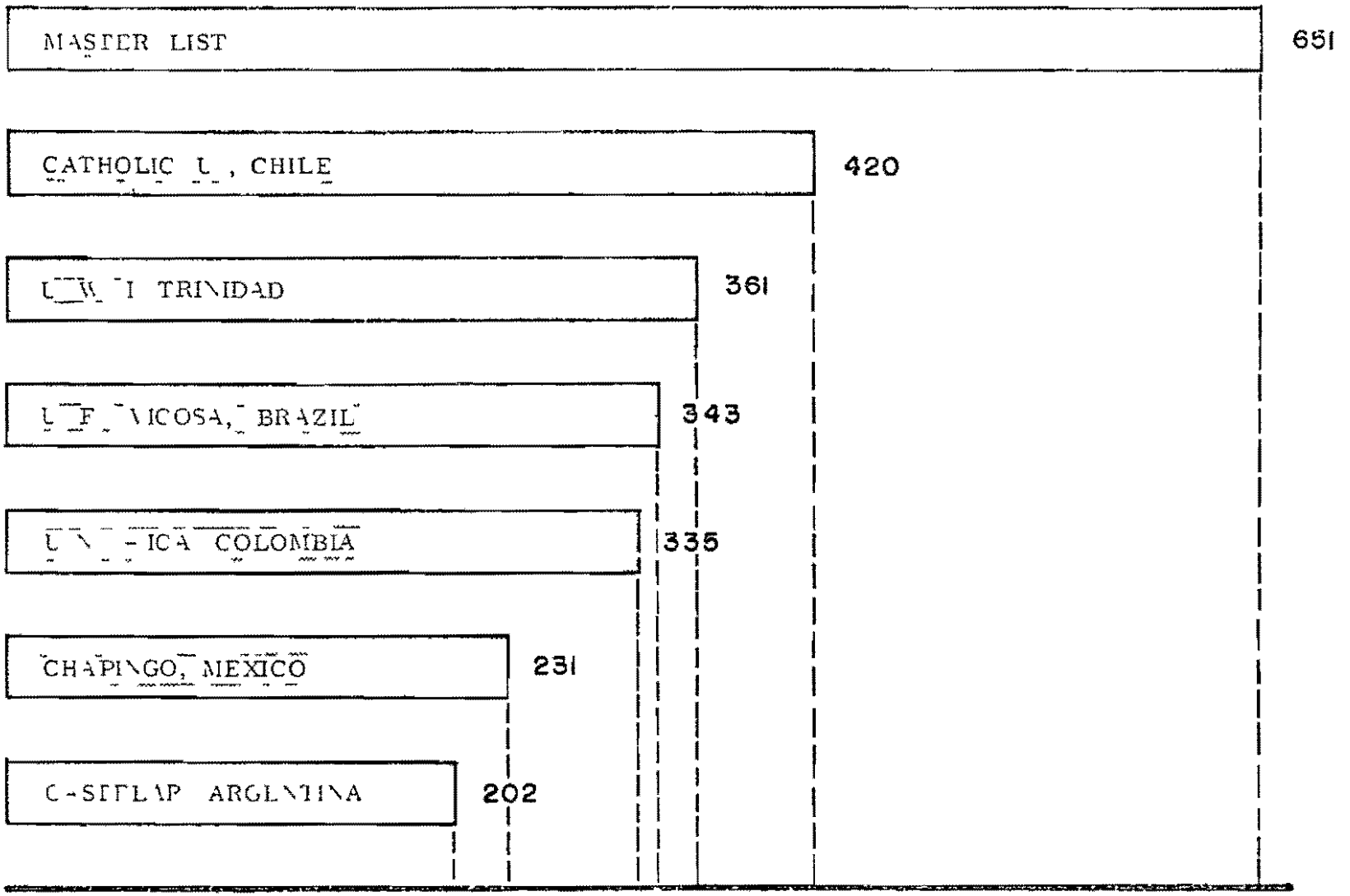


FIGURE 2 COMPARISON OF TOTAL SCORES FOR THE VARIOUS BOOK COLLECTIONS



If we rank the institutions studied in terms of number of Agricultural Economics graduates in 1972, number of books catalogued in Agricultural Economics, and scores obtained when comparing their collection to the "master list," the following comparison results

Number of Students, 1972	Number of Books Catalogued in Ag.Econ.	Scores in "Master List"
Chapingo (45)	U.W.I. (1187)	Catholic U. (420)
Viçosa (41)	Chapingo (1069)	U.W.I. (361)
Catholic U. (35)	Castelar (1000)	Viçosa (343)
U.N.-ICA (24)	Viçosa (174)	U.N.-ICA (335)
Castelar (15)	Catholic U (137)	Chapingo (231)
U.W I. (3)	U.N.-ICA (108)	Castelar (202)

Chapingo, which has the most students and runs second in number of books catalogued in Agricultural Economics, has a low score. The University of the West Indies, having few graduates this year, has the highest number of books catalogued in Agricultural Economics, and the "quality" of this collection also appears to be reasonably high -- second to Catholic University, although the difference in points is considerable

This situation seems to indicate that, when trying to appraise a literature collection, the number of books catalogued in a particular field is not the best indicator of how "good" that collection may be. Catholic University, with 137 books catalogued in Agricultural Economics, ranks first in score. A better measure for future studies, therefore, appears to be the comparison to "master lists" which are not restricted

by differences in cataloguing criteria but instead are oriented to the particular needs of the institution — in this case, the needs of a graduate training program in Agricultural Economics.

Periodicals

Although book collections play an important role in any training program, journal collections are essential in graduate training as research is involved, and recent developments are usually published in journals before appearing in books.

The situation of the six institutions in this respect is presented in the following tables.

Table 4

Numbers of Periodicals Received by the Libraries in all Fields and in Agricultural Economics by Subscription and by Exchange and Donation

	Agricultural Economics			All Fields		
	Subscription	Exchange and Donation	Total	Subscription	Exchange and Donation	Total
Catholic U , Chile 1/	25	6	31	68	283	351
Chapingo, Mexico	42	62	104	561	5180	5741
Castelar, Argentina	40	30	70	50	324	374
U W.I , Trinidad	9	82	91	629	1111	1740
U N -ICA, Colombia	14	13	27	642	658	1300
U F. Viçosa, Brazil	8	125	133	252	749	1001

1/ Data refer to the Instituto de Economía Library only

As in the case of book collections, a wide variation exists among institutions. Also differential use is being made of the exchange and donation mechanism for obtaining publications. While Chapingo obtains more than 5,000 periodicals through free exchanges, the other libraries are well below this figure.

However, the data presented in the next table (Table 5) gives a better appraisal of the journal collections in relation to the educational goals of these programs

Table 5

Numbers and Scores of Periodicals by Categories and Institutions[1/]

Institution	"Essential"		"Important"		Total Number		Total Score	
	Number	Score	Number	Score	Number	%	Number	%
Catholic U. (Chile)	25	75	8	16	33	82.0	91	85.0
Chapingo (Mexico)	23	69	4	8	27	68.0	77	72.0
Castelar (Argentina)	22	66	5	10	27	68 0	76	71.0
U W I (Trinidad)	22	66	5	10	27	68.0	76	71.0
U.N -ICA (Colombia)	18	54	1	2	19	48.0	56	52.0
U F. Viçosa (Brazil)	14	42	3	6	17	42.0	48	44.0
"Master List"	27	81	13	26	40	100 0	107	100.0

1/ When assigning these journals to the three categories used in the study ("essential", "important" and "desirable") the "desirable" set was empty

These institutions range from having approximately 40 per cent to 80 per cent of the journals listed in the "master list." Catholic University is again the leader, then a group made up of Chapingo, Castelar and the University of the West Indies with practically the same score, U.N.-ICA in third place, and finally Universidade Federal de Viçosa having less than 50 per cent of the journals listed.

By adding the scores for the book and journal collections, a final ranking of these libraries is obtained as follows

Rank	Institution	Pooled Score	Per Cent of Maximum Pooled Score
1	Catholic University, Chile	511	67
2	Univ. of the West Indies, Trinidad	437	57
3	Universidad Nacional-ICA, Colombia	391	52
3	Univ. Federal de Viçosa, Brazil	391	52
4	Chapingo, Mexico	308	40
5	Castelar, Argentina	278	36
Maximum pooled score possible ("master list")		758	100

Services Offered to Users

Having analyzed the relative situation of the collections *per se*, it seems important to analyze the use made of these materials. Whenever possible, numerical data on the use of some services that could possibly be offered by the libraries were obtained. These data are presented in Table 6.

Table 6

Services Offered by the Libraries in 1971

Service	Catholic U Chile	Chapingo Mexico	Castelar Argentina	U.W I Trinidad	U.N.-ICA Colombia	U.F.Viçosa Brazil
Total loans per month 1/	6000	2800	*	3000	2290	1668
Use of microforms	-	*	-	*	-	*
Photocopies (Xerox,etc.) Pages/Month	-	3700	*	5725	90	4500
Short bibliographies on request (1971)	5	167	-	10	26	120
Interlibrary loans (requested from other libraries)	20	202	*	30	30	-
Journals circulated	Yes 2/	Yes 2/	-	-	-	-
Copies of tables of contents	-	-	-	-	-	-
Abstracts distributed to users	-	-	-	-	-	-

* Yes, but no statistics kept.

1/ Includes loans of all types of publications.

2/ Limited to professors only.

In addition to showing that statistics usually kept by libraries are rather poor, the data presented in this table indicates that services are usually limited to the more traditional activities. Copies of tables of contents of selected journals are not offered by any of these libraries, nor a system of distributing abstracts to their users. These current awareness mechanisms are extremely important for professors and graduates as well. These help to keep them up-to-date in their field, but also to create habits of literature use in their research.

These data refer to services provided in all fields, not only Agricultural Economics. In relation to photocopying services, for example, U.N.-ICA (Colombia) despite having a total monthly average of 90 pages, for all fields, provided only 108 pages over the year 1971 in Agricultural Economics. This is an average of less than ten pages per month in this specific field. Institutions showing higher total per month figures, such as Chapingo and Viçosa, stated that around one per cent of the total number of pages photocopied were in Agricultural Economics If we assume an average figure of ten pages per article, the use of photocopying services in Agricultural Economics is limited to less than five articles per month in the best of cases.

Personnel

A limiting factor in the overall operation of libraries is sometimes that of personnel availability. Table 7 presents data on this aspect.

Table 7

Personnel Resources of the Libraries

	Castelar Argentina	Catholic U.[1/] Chile	Chapingo Mexico	U.N.-ICA Colombia	U.W.I Trinidad	U.F. Viçosa Brazil
Professional librarians	-	2	3	3	6	4
Librarians without university degree	1	3	8	8	7	1
Secretaries	-	-	7	3	1	1
Technical Assistants	-	-	5	-	22	18
Helpers (messengers, etc)	-	1	10	1	5	6
TOTAL	1	6	33	15	41	30

1/ Includes only personnel at the Instituto de Economía library. Technical processes (cataloguing, etc) are carried out by the central library of the University

The total numbers of personnel appear to be related to the size of the collection as measured by the total number of books catalogued (Table 2). In relation to services provided, however, this association is less marked.

Budget and Acquisitions

When collecting the data for this survey, great difficulty was encountered in obtaining budget figures. The following generalizations may be justified, granting that there are exceptions.

1. Most budgets stated by the accounting office as allocated to the library remain on paper and only a small percentage of the stated figure materializes as actual expenditures by the library.
2. In relation to the point above, an observation was made at least in two of the institutions visited. Apparently, it has happened that as soon as a grant by an outside source of funds was approved for the library, the regular budget was depleted in the same or even greater amount of money, therefore defeating the purpose of the grant or even working against the library's development. Furthermore, it seems that often libraries have first priority for budget cuts, and this apparently happens around mid-year.
3. Some librarians are unable to provide information about their own budgets. Frequently, no information is provided to the librarian from the accounting office on how much he has spent and how much he has left for the rest of the year. When the general budget starts getting tight, therefore, purchase orders from the library are not processed.

4. The librarians' lack of knowledge about their own budgets may be a consequence of the lower status of librarians in relation to other heads of programs or departments. Even in the case where organizationally speaking the library is at the same level as other departments, librarians frequently perceive their position at a lower level of authority then that of other department heads.

Since budget figures obtained in this survey have a dubious validity, Table 8 presents the number of books purchased in 1971 to give an idea of the magnitude of acquisitions in the various institutions. As far as the numbers in Agricultural Economics, however, the differences may be associated with differences in cataloguing criteria.

Table 8

Books Purchased by the Libraries in 1971

Program	Total	Agricultural Economics	
		Number	Percent of Total
Catholic U., Chile	520	350	67.31
U.W.I., Trinidad	2884	20	0.69
U.F Viçosa, Brazil	456	30	6.57
U.N.-ICA, Colombia	394	15	3.81
Chapingo, Mexico	684	67	9.80
Castelar, Argentina	N.A.1/	N.A.	N.A.

1/ N.A = Data not available.

Availability of New Materials

Another aspect in analyzing the library use problem is that of the time it takes for a book to be available to the users, i.e. from the time the decision to purchase is made to the time the book is catalogued and placed on the shelves. Although every library has a system of priorities for processing books, the cataloguing backlog is an indicator of how long it may take for a book to be processed. The head librarians gave the following figures as an average estimate of books awaiting to be catalogued

Institution	Cataloguing Backlog
University of the West Indies	6,000 books
Universidad Católica de Chile	649 books
INTA, Castelar, Argentina	500 books
Chapingo, Mexico	200 books
U.N.-ICA, Colombia	170 books
Universidade Federal de Viçosa	150 books

If the backlog is compared to the numbers of books purchased in 1971 (Table 8), it can be seen that books may remain unused for periods ranging from about four months up to two or three years. Of course, not all the books are in this situation, given the systems of cataloguing by priorities which most libraries have. However, if a book has such a low priority that it is allowed to remain unavailable to the users for more than a year, perhaps it should not have been purchased at all, especially considering the speed with which literature is produced at present. It would not be surprising to find that a new edition had already been published by the time some of these materials began to be processed.

In addition, the way the decision to purchase a certain book is made also presents deficiencies The librarian selects books on the basis of catalogs and announcements of the publishers. Even in the case where the Agricultural Economics staff collaborates with the librarian in making this selection, the decision is mainly based on the book title, they seldom use the more serious book review services.

In summary, the following points seem to be characteristic of the library situation in Agricultural Economics in those institutions included in this survey. We want to emphasize, however, that we consider the data in this survey as preliminary.

1. A direct relationship between the size of the book collection and the appropriateness of this collection to fill the needs of a graduate training program in Agricultural Economics does not necessarily exist. Some large libraries rank low in terms of these needs as assessed by the comparison to the "master list." This may be partially explained by the difficulties confronting the librarian when selecting important titles appearing on the market, as well as to the irregularities in the flow of financial resources which result in partial periods of active purchasing and others of total neglect.
2. The wide variation among libraries in book and journal collections can not be totally explained by the resources available to them. In this respect also, it seems that the selection and acquisition policies play an important role

3. The degree of under-utilization of the libraries observed through circulation data and other services provided is alarmingly low. Traditional current awareness mechanisms are slightly used and some of the more modern ways of reaching the users with pertinent information are not employed.
4. Although it is generally agreed that a good library service is essential to an educational program, this opinion does not appear to reflect actual behavior especially on budgetary matters. As pointed out earlier, quite often library funds are used to cover deficits of other departments In addition, outside grants obtained for the library sometimes run the risk of being used just to liberate core funds which are then used for other purposes not library-related.

Recommendations

It is apparent that many of the issues arising from this survey can only be resolved at the institutions' internal level of organization. However, some services could be established at the international level that would ameliorate the effectiveness with which these libraries operate.

A literature analysis project in Agricultural Economics might be set up at CIAT or elsewhere to perform the following activities

1. To evaluate the publications appearing in the field of Agricultural Economics and produce a periodical list of materials that would be appropriate for graduate training programs. This evaluation would make use not only of those standard tools such as published book reviews, but would also use the services of

locally available specialists to analyze the content of publications in the light of the specific socio-economic and cultural characteristics of the Latin-American situation.

Contacts would be established with the main publishing firms so as to have their publications for review as soon as published. The foundations and other financing agencies could then, use this list as a guide for directing the expenditure of grants allocated to the various national institutions. This service would include and emphasize the analysis of materials originally written in or translated into Spanish.

2. To analyze and evaluate articles appearing in the most important Agricultural Economics journals, and produce a service of cards containing the literature citation, key-words reflecting the main topics dealt with in a particular journal article, and an abstract of that article. These cards would be selectively distributed to libraries as well as to persons according to their specific interest profiles. Scientists, then, would have a better basis for selecting articles in which they were interested, and for ordering photocopies to set up a personal file of reprints essential to their work.

   This current awareness service plus retrospective searches on specific topics would be possible through a mechanized system such as is presently available at CIAT for its Cassava Document Analysis Center. Some additional inputs, however, would be necessary especially in terms of personnel having the necessary expertise to perform the analyses of books and journal articles for the two services outlined.

3. Despite the limitations of this survey, we consider that evaluations of library services and facilities of those institutions having graduate training programs in Agricultural Economics should continue to be made periodically. For future studies, however, the methodology could be improved to allow for a more refined statistical treatment of the data.

APPENDIX 1. "MASTER LIST" OF BOOKS ON AGRICULTURAL ECONOMICS, ECONOMICS, AND QUANTITATIVE METHODS

	SCORE
Abel, W., Política Agraria Buenos Aires, Editorial El Ateneo	2
Abrahamsen, M A , y C L Scroggs, Eds , Agricultural cooperation. Minneapolis, University of Minnesota Press, 1957	2
Abramovitz, M , et al , The allocation of economic resources Stanford, Stanford University Press, 1959	1
Ackerman, J , M Clawson y M Harris, eds , Land economics research Washington, Resources for the Future, 1962	2
Ackley, G , Teoría macroeconómica México, Uteha	3
Adelman, I , y E Thorbecke, The theory and design of economic development Baltimore, Johns Hopkins Press, 1967	2
Agarwala, A N , y S P Singh, Economía del Subdesarrollo Madrid, Tecnos, 1963	3
Aguilar, A , Desarrollo y desarrollismo Buenos Aires, Editorial Galerna, 1969	1
Ahumada, J., La planificación del desarrollo Santiago, Chile, Instituto de Capacitación e Investigación en Reforma Agraria (ICIRA), 1968	1
Alemann, R , Economic development issues Latin America New York Committee for Economic Development, 1967	1
Allen, R G D , Economía matemática Madrid, Aguilar	3
Anderson, C A , y Mary Jean Bowman, eds , Education and economic Development Chicago, Aldine, 1965	2
Anschel, K R , R H Brannon y E D Smith, eds , Agricultural cooperatives and markets in developing countries New York, Praeger, 1969	3
Baer, W , e I Kerstenetsky, eds , Inflation and growth in Latin America Homewood, Irwin, 1964	2
Baltra Cortes, A , Teoría económica Santiago, Chile, Editorial Andres Bello, 1968	1

	SCORE
Baran, P A , La economía política del crecimiento México, Fondo de Cultura Económica, 1964	2
Barlowe, R , Economía de la utilización del suelo (Trad) México Editorial Herrero	3
Barnett, H J , y C Morse, Scarcity and growth The economics of natural resources availability Baltimore, The Johns Hopkins Press for Resources for the Future, 1963	2
Baum, E.L , E O Heady, J T Pesek y C G Hildreth, eds Fertilizers innovations and resource use Ames, Iowa State College Press, 1957	2
Baumol, W J , Teoría económica y análisis de operaciones México, Herrero Hermanos	3
Behrman, J R , Supply response in underdeveloped agriculture - A case study of four major annual crops in thailand 1937-1963 Amsterdam, North Holland Publishing Co , 1968	2
Beneke, R R , Dirección y administración de granjas México, Centro Regional de Ayuda Técnica, 1964	3
Bird, R , La imposición fiscal en los países en desarrollo México Uteha, 1968	2
Bishop, C L y W D Toussaint, Introducción al análisis de economía agrícola (Trad) México, Limusa-Whiley	3
Black, J D , M Clawson, C R Sayre y W W Wilcox, Dirección de Explotaciones agrícolas. México, Editorial Reverté, 1962	2
Blalock, H M , Jr , Causal inferences in nonexperimental research Chapel Hill, The University of North Carolina Press, 1964	3
Blalock, H M , Jr , Theory construction - from verbal to mathematical formulations Englewood Cliffs, Prentice-Hall, 1969	3
Blase, M G , ed Institution in agricultural development Ames, Iowa State University Press, 1971	1
Boon, G K , Economic choice of human and physical factors in production Amsterdam, North-Holland, 1964	3
Borton, R E , ed Selected readings to accompany "Getting agriculture moving" New York, Agricultural Development Council, 1966	2

SCORE

Boserup, Esther, The conditions of agricultural growth The economics of agrarian change under population pressure London, George Allen and Unwin Ltd , 1965 2

Boudeville, J R , Los espacios económicos Buenos Aires, Eudeba, 1965 2

Boudeville, J R., Problems of regional economic planning Chicago, Aldine, 1966 2

Boulding, K E , Principios de politica económica Madrid, Aguilar 3

Boulding, K E , y W A Spivey, Linear programming and the theory of the firm New York, Macmillan, 1960 3

Boussard, J-M Programmation mathematique et theorie de la production agricole Paris, Editions Cujas, 1970 3

Bowman, Mary Jean, et al, eds , Readings in the economics of education-textes choisis sur l'economie de l'education Paris, Unesco 1968 3

Bowring, J R , H H Southworth, y F V Waugh, Marketing policies for agriculture Englewood Cliffs, Prentice-Hall, 1960 2

Bradford, L A , y G L Johnson Farm management analysis New York, Wiley, 1953 3

Breimyer, H F , Individual freedom and the economic organization of agriculture Urbana, University of Illinois Press, 1965 2

Brown, E H Phelps, The economics of labor New Haven, Yale University Press, 1962 1

Bunce, A C , The economics of soil conservation Lincoln, The University of Nebraska Press 1965 (reprinting) 2

Bunge, M ,La Investigación cientifica - su estrategia y filosofía Ediciones Ariel, Barcelona, 1969 2

Burton, I , y R W Kates, eds , Readings in resource management and conservation Chicago, University of Chicago Press, 1965 1

Bushaw, D W , R W Clower, Introduction to mathematical economics Homewood, Irwin, 1957 3

Calatrava, A , Jr , Evaluación del rendimiento agrícola Caracas, Ministerio de Agricultura y Cría 1970. 2

SCORE

Cameron, B , Input-output analysis and resource allocation Cambridge, Cambridge University Press, 1968 3

Case, H C M , y D B Williams, Fifty years of farm management Urbana, University of Illinois Press, 1957 2

Castañeda, J , Lecciones de teoría económica Madrid, Aguilar 1968 1

Castle, L N , M Becker, y F J Smith, Farm business management The decision making process New York, Macmillan 1972 1

Castro, Josué de, Ensayos sobre el subdesarrollo Buenos Aires, Siglo Veinte, 1965 2

Cheung, S N , The theory of share tenancy Chicago, University of Chicago Press, 1969 2

Chisholm, M , Rural settlement and land use London, Hutchinson University Library, 1968 1

Christ, C F , Econometric models and methods. New York, Wiley,1966 3

Ciriacy-Wantrup, S V Resource conservation, Economics and policies Berkeley, University of California Press, 1952 2

Clark, C , The economics of irrigation New York, Pergamon Press, 1967 2

Clark, C., y M Haswell, Economics of subsistence agriculture London Macmillan, 1964 1

Clarkson, G P E , Teoria de la demanda de los consumidores México Herrero Hermanos 1

Coale, A J , y E M Hoover, Crecimiento de población y desarrollo económico México, Centro Regional de Ayuda Técnica, 1965 2

Cohen, K J , y R M Cyert, Theory of the firm resource allocation in a market economy Englewood Cliffs, Prentice-Hall, 1965, 2

Cowling, K , D Metcalf, y A J Rayner, Resource structure of agriculture an economic analysis New York, Pergamon Press, 1970 2

Croteau, J T , The economics of the credit union Detroit, Wayne State University Press, 1963 1

Currie, L , Desarrollo económico acelerado México, Fondo de Cultura Económica, 1968 3

CATIE
BIBLIOTECA

	SCORE
Currie, L , Obstacles to development East Lansing, Michigan State University Press, 1967	2
Cyert, R M , y J G March, Teoría de las dicisiones económicas de la empresa México, Herrero Hermanos	2
Dan, Sven, Industrial production models - a theoretical study New York, Springer-Verlag, 1966	3
Darrah, L.B , Food marketing New York, The Ronald Press, 1967	2
Day, R H , Recursive programming and production response Amsterdam North-Holland Publishing, 1963	3
Delgado, O, Reformas agrarias en América Latina México, Fondo de Cultura Económica, 1965	2
Dell, S , A Latin American common market London, Oxford University Press, 1966	2
Denman, D R , Estate capital, the contribution of landownership to agricultural finance London, Allen and Unwin 1957	1
Dillon, J L The analysis of response in crop and livestock production New York, Pergamon Press, 1968	3
Doll, J.P , V J Rhodes, y J.G West. Economics of agricultural production, markets and policy Homewood, Ill., R.D. Irwin, 1968	2
Dorfman, R , P A Samuelson, y R M Solow, Programación lineal y analisis económico Madrid, Aguilar	
Dubov, I , ed , Contemporary agricultural marketing Knoxville, The University of Tennessee Press, 1968.	2
Duckham, A N , y C B Masefield, Farming systems of the world New York, Praeger, 1970	2
Duerr, W A , Fundamentals of forestry economics New York, McGraw - Hill, 1960	2
Duesenberry, J S , Income, saving, and the theory of consumer behavior Cambridge, Harvard University Press, 1962	3
Dumont, R., Types of rural economy New York, Praeger, 1957	1
Dunn, E S , Economic and social development A process of social learning Baltimore, The John Hopkins Press for Resourses for the future, 1971	2

SCORE

Dunn, E.S , Jr., The location of agricultural production Gainsville University of Florida Press, 1954 2

Eckstein, O , Water resource development, the economics of project evaluation Cambridge, Harvard University Press, 1958 1

Eicher, C K , y L W Witt, Agriculture in economic development New York, McGraw-Hill, 1964 3

Ellis, H , y otros, Desarrollo económico y América Latina México, Fondo de Cultura Económica, 1963 2

Ely, R T , y G S Wehrwein, Land economics University of Wisconsin Press, 1964 (reprinting) 1

Fei, J C H , y G Ranis, Development in the labor surplus economy Theory and policy New Haven, Yale University, The economic Growth Center, 1964. 3

Fellner, W., y B F Haley, eds , Ensayos sobre la teoría de la distribución de la renta Madrid, Aguilar, 1961. 1

Ferguson, C E , The neoclassical theory of production and distribution Cambridge University Press, 1969 3

Fernández, R Economía agrícola y reforma agraria México, Fondo de Cultura Económica, 1965 1

Fernández, R Política Agrícola México, Fondo de Cultura Económica, 1961 1

Figueroa, E de, Curso de Política económica Madrid, Editorial Revista de Derecho Privado, 1968. 1

Firth, R , y B S Yamey, eds Capital, saving and credit in peasant societies Chicago, Aldine, 1964 2

Fishel, W L , ed , Resource allocation in agricultural research Minneapolis, University of Minnesota Press. 1971 3

Fisher, W D , Clustering and aggregation in economics Baltimore, The Johns Hopkins Press, 1969 2

Flores, L Tratado de economía agrícola México, Fondo de Cultura Económica, 1961 3

Flores, X , Agricultural organizations and economic and social development in rural areas Geneva, International Labor Office, 1971 2

Foote, R J , Analytical tools for studying demand and price structures U S Dept of Agriculture, Agriculture Handbook 146 Washington, U S Government Printing Office, 1958 3

	SCORE
Fossati, E., Política económica racional Madrid, Aguilar,	1
Fox, K A , Econometric analysis for public policy Ames, Iowa State College Press 1958.	3
Fox, K A , Intermediate economic statistics New York, Wiley, 1966	3
Fox, K A., y D G Johnson, Readings in the economics of agriculture Homewood, Ill. Irwin 1969.	2
Fox, K A , J K Sengupta, y E Thorbecke, The theory of quantitative economic policy Amsterdam, North-Holland Publicing, 1966	3
Friedman, M , Price theory. Chicago, Aldine, 1962	3
Friedman, J , y W Alonso, eds., Regional development and planning MIT Press, 1964	3
Frisch, R , Theory of production Chicago, Rand McNally, 1965	3
Fromont, P., Economía Agrícola Madrid, Aguilar, 1961	1
Fundacao Calouste Gulbenkian, Analise e planeamento da exploracao agrícola Lisboa, Fundacao Calouste Gulbenkian, 1964	1
Fundacao Calouste Gulbenkian, Credito Agricola. Lisboa, Fundacao Calouste Gulbenkian, 1967.	1
Furtado, C , Desarrollo y subdesarrollo Buenos Aires, Eudeba, 1970	2
Furtado, C , La economía latinoamericana desde la conquista ibérica hasta la revolución cubana Santiago de Chile, Editorial Universitaria, 1969.	2
Furtado, C , Teoría y política del desarrollo económico México, Siglo Veintiuno, 1968	2
Gale, D , The theory of linear economic models, New York, McGraw-Hill, 1960	2
Galenson, W , Labor in developing economies Institute of Industrial Relations, University of California, Berkeley, 1963	1
Gibson, W L , Jr, R J Hildreth y G Wunderlich, eds Methods for land economics research Lincoln, University of Nebraska Press, 1966	3
Glade, W P , The Latin American economies - A study of their institutional evolution New York, American Book, 1969	3

	SCORL
Goldberger, A S , Econometric Theory, New York, Wiley, 1964	3
Gordon, W C , The political economy of Latin America New York, Columbia University Press, 1965	2
Graaf, J de V , Teoría de la economía del bienestar Buenos Aires, Amorrortu, 1967.	2
Greenhut, M L , Plant location in theory and in practice the economics of space Chapel Hill, The university of North Carolina Press, 1956	1
Grunwald, J , y P Musgrove, Natural resources in Latin American Development Baltimore, The Johns hopkins Press, 1969 (edición en español publicada por la Unión Panamericana, Washington)	2
Gutiérrez, E., Contabilidad agrícola México, Instituto Interamericano de Ciencias Agrícolas de la OEA, 1964	1
Hagen, E E , The economics of development Homewood, Irwin, 1968	2
Hagen, E E , ed , Planeación del desarrollo económico México, Fondo de Cultura Económica, 1964	2
Halter, A N , y C W Dean, Decisions under uncertainty with research applications Cincinnati, South-Western Publishing, 1971	3
Hallet, G , Economic of agricultural land tenure London, Land Book Ltd 1960	2
Hallet, G , The economics of agricultural policy Oxford, Basil Blackwell, 1968	2
Halpering, H , Agrindus integration of agriculture and industries New York, Praeger 1963	2
Hamilton, H R , et al , Systems simulation for regional analysis, an application to river basin planning Cambridge, MIT Press, 1969	3
Hapgood, D Normas para el fomento del desarrollo agrícola Informe de la conferencia sobre productividad e innovaciones en agricultura en los países en desarrollo México, Centro Regional de Ayuda Tecnica, 1967	2
Harbison, F , y C A Myers, Education, manpower and economic growth Strategies of human resource development New York, McGraw-Hill, 1964	1

	SCORE
Hathaway, D E Government and agriculture public policy in a democratic society New York, The Macmillan Co 1963	1
Hayami, Y , y V Ruttan, Agricultural development An international perspective Baltimore, Johns Hopkins Press, 1971	3
Heady, E O , Agricultural policy under economic development Ames, Iowa State University Press, 1962	2
Heady, E.O , ed , Economic models and quantitative methods for decision and planning in agriculture, Proceedings of an East-West Seminar Ames, Iowa State University Press, 1971	2
Heady, E O Economics of agricultural production and resource use Englewood Cliffs, N J , Prentice-Hall, 1952	3
Heady, L O , y W Candler Linear programming methods, Ames, Iowa State College Press, 1958	3
Heady, E O , y J L Dillon, Agricultural production functions Ames Iowa State University Press, 1961	3
Heady, E O , et al , eds , Agricultural supply functions - Estimating Techniques and interpretation Ames, Iowa State University Press, 1961	3
Heady, E O , y H R Jensen, Farm management economics Englewood Cliffs, N J., Prentice-Hall, 1954	2
Heady, E O , G L Johnson y L S Nordin, eds Resource productivity, Returns to scale, and farm size Ames, Iowa State College Press, 1956	2
Heady, E.O , y L G Tweeten Resource demand and structure of the agricultural industry Ames, Iowa State University Press, 1963	2
Hedges, T R , Farm management decisions Englewood Cliffs, Prentice-Hall, 1963	2
Heilbroner, R L , ed , Economic means and social ends-essays in political economics Englewood Cliffs, Prentice-Hall, 1969	2
Henderson, J M , y R E Quandt, Microeconomic theory New York, McGraw-Hill, 1958	3
Herfindahl, O C , Natural resource information for economic development Baltimore, Johns Hopkins, 1969	2
Hicks, Ursula K , Development finance planning and control New York, Oxford University Press, 1965	1

SCORE

Higgins, B , Economic development New York, Norton, 1968 (rev ed) 2

Hildreth, R J , ed , Reading in agricultural policy Lincoln, University of Nebraska Press, 1968 1

Himichs, H H , La estructura tributaria durante el desarrollo México, Fondo de Cultura Económica, 1968 2

Hirsch, W Z , ed Elementos of regional accounts Baltimore, Johns Hopkins Press, 1964 2

Hirschman, A O , The strategy of economic development New Haven Yale University Press, 1958 3

Hirshleifer, J , Investment, Interest, and capital Englewood Cliffs, Prentice-Hall, 1970 2

Hodder, B W , Economic development in the tropics London, Methuen, 1968 2

Hood, W C , y T C Koopmans, eds Studies in econometric method Cowles Commission Monograph 14 New York, Wiley, 1953, 2

Hoover, E M , The location of economic activity New York, McGraw-Hill, 1949, 2

Hopkins, J A , Administración rural Turrialba, Costa Rica, Instituto Interamericano de Ciencias Agrícolas de la OEA, 1962 3

Hopkins, J A , y E O Heady, Estadística y Contabilidad Agrícolas México, Editorial Reverté, S.A 2

Horowitz, I , Decision making and the theory of the firm New York Holt, Rinehart, and Winston, 1970 3

Hoselitz, B F , et al , Teorías del crecimiento económico México, Editorial Herrero Hermanos Succs 2

Hunt, K E , ed Policies, planning and management for agricultural development Proceedings of the 14th International Conference of Agricultural Economists, Minsk, USSR, 1970 Oxford, Institute of Agrarian affairs for International Association of Agricultural Economists, 1971 3

Hurst, J W , Law and economic growth Cambridge, Belknap Press of Harvard University Press, 1964 3

SCORE

Inter American Committee for Agricultural Development (CIDA) Land Tenure conditions and socio economic development of the agricultural sector 7 vol Argentina, Brazil, Chile, Colombia, Ecuador, Guatemala, y Peru Washington, Unión Panamericana, 1966 3

International Conference on Technological Change and Human Development Hebrew University, 1969 Technological change and human development Edited by W L Hodges and M A Kelley Ithaca, New York State School of Industrial and Labor Relations, 1970 2

Intriligator, M D , Mathematical optimization and economic theory Englewood Cliffs, Prentice-Hall, 1971 3

Iowa State University Center for Agricultural and Economic Development, Research and education for regional and area development Ames, Iowa State University Press, 1966 2

Isard, W , Location and space economy MIT, The technology Press, 1956 3

Isard, W , Methods of regional analysis an introduction to regional science New York, Wiley, 1960 3

Johnson, E A J , The organization of space in developing countries Cambridge, Harvard University Press, 1970 2

Johnson, G L , et al , A study of managerial processes of midwestern farmers Ames, Iowa State University Press, 1961 2

Johnson, H G , Economic policies toward less developed countries Washington, D.C , The brookings Institution, 1967 2

Johnson, V W , y R Barlowe, Land problems and policies , New York, McGraw-Hill, 1954 2

Johnston, J , Econometric methods New York, McGraw-Hill, 1963 3

Johr, W A , Fundamentos teóricos de política económica Buenos Aires, Editorial El Ateneo, 2

Jones, G The role of science and technology in developing countries New York, Oxford University Press, 1971 2

King, R A , ed , Interregional competition research methods The Agricultural Policy Institute, North Carolina State University at Raleigh, API Series 10, 1963 2

Klatzmann, J , B Y Ilan y Y Levi, eds , The role of group action in the industrialization of rural areas New York, Praeger, 1971 2

	SCORE
Klein, L.R , Manual de econometría Madrid, Aguilar	2
Kmenta, J., Elements of econometrics New York, Macmillan, 1971	2
Kneese, A V , y B T Bower, Managing water quality Economics, Technology, institutions Baltimore, The Johns Hopkins Press for Resources for the future, 1968	2
Kohls, R L , y W D Downey Marketing of agriculture products, 4th ed New York, Macmillan, 1972	3
Koopmans, T C , Activity analysis of production and allocation New York, Wiley, 1951	2
Koopmans, T C , ed , Statistical inference in dynamic economic models Cowles Commission for Research in Economics, Monograph 10 New York, Wiley 1950	2
Koopmans, T C , Three essays on the state of economic science New York, McGraw-Hill, 1957	3
Kuznets, S , Economic Growth and structure New York, Norton, 1965	3
Kuznets, S , Modern economic growth New Haven, Yale University Press, 1966,	2
Lancaster, K , Introduction to modern microeconomics Chicago, Rand McNally, 1967	3
Lancaster, K , Mathematical economics New York, Macmillan, 1968	3
Land Economics Institute Modern land policy Urbana, University of Illinois Press, 1960	2
Lave, L B , Technological change its conception and measurement Englewood Cliffs, Prentice-Hall, 1966	2
Leitao e Silva, J , Curso de administracao rural Escola Superior de Agricultura, Vicosa, M G , Brasil, 1966	1
Leven, C L , J B Legler y P Shapiro, An analytical framework for regional development policy Cambridge, The MIT Press, 1970	2
Lewis, W A , Teoría de la planificación económica México, Fondo de Cultura Económica, 1968	2
Lewis, W A , Theory of economic growth Homewood, Irwin, 1955	3
Little, I M D , A critique of welfare economics Oxford University Press, 1965	2
Marchal, A , Metodología de la ciencia económica Buenos Aires, Editorial El Ateneo,	2

	SCORE
Marrama, V , Politica económica de los países subdesarrollados Madrid, Aguilar	1
Marshall, A , Principios de economía Madrid, Aguilar	2
Martín, F , y M Zuleta, Economía Agraria Madrid, Salvat, 1956	1
Mac, H , Investigación económica, su metodología y su técnica México, Fondo de Cultura Económica, 1963.	3
McClelland, D C The achieving society New York, D Van Nostrand, 1961	1
McCrone, G , The economics of subsidizing agriculture Toronto, University of Toronto Press, 1962.	1
McKean, R N, Efficiency in government through systems analysis New York, Wiley 1958	1
McLoughlin, Urban and regional planning A systems approach London, Faber and Faber,	1
McPherson, W.W , ed , Economic development of tropical agriculture Gainsville, University of Florida Press, 1968	3
Meier, G M , ed , Leading issues in development economics New York, Oxford University Press, 1964	3
Meier, G M , y R E Baldwin, Desarrollo económico Madrid, Aguilar	2
Mellor, J W , The economics of agricultural development Ithaca, Cornell University Press, 1966	3
Mendez, J M , Agricultura y desarrollo económico Madrid, Rialp, 1963	1
Miller, C J , ed Marketing and economic development readings in agribusiness research Lincoln, U of Nebraska Press, 1967	1
Montero, Emilio, y S Pérez Investigación económica y experimentación agrícola Seminario internacional, Santiago de Chile, 1966 Montevideo, Instituto Interamericano de Ciencias Agrícolas de la OEA, Zona Sur, 1967	2
Moore, J R , y R G Walsh, eds , Market structure of the Agricultural Industries some case studies. Ames Iowa State University Press, 1966	1

	SCORE
Mosher, A , Como hacer avanzar la agricultura México, UTEHA, 1966	3
Mosher, A T , Creating a progressive rural structure to serve modern agriculture New York, Agricultural Development Council, 1969	3
Murray, W G , Farm appraisal and valuation. Ames, Iowa State University Press, 1969	2
Murray, W G , y A G Nelson, Agricultural Finance Ames, Iowa State University Press, 1960	2
Myint, H , Economic theory and the underdeveloped countries New York, Oxford University Press, 1971	3
Myrdal, G , Asian drama, an inquiry into the poverty of nations 3 vols New York, Pantheon Books, 1968	3
Myrdal, G , Teoría económica y regiones subdesarrolladas México, Fondo de cultura Económica, 1964	2
Naciones Unidas, Programa CLPAL-AAT, Manual de proyectos de desarrollo económico México, 1958	3
Nader, C , y A B Zahlan, eds , Science and technology in developing countries Proceeding of an International Conference at the American University of Beirut New York, Cambridge University Press, 1969	2
Nerlove, M , Distributed lags and demand analysis for agricultural and other commodities U S Department of Agriculture Handbook 141 Washington, Government Printing Office, 1958	3
Nerlove, M The dynamics of supply estimators of farmers response to price Baltimore, The Johns Hopkins Press, 1958	3
Nou, J , Studies in the development of agricultural economics in Europe Uppsala, Sweden Almqvist and Wicksells Boktryckeri a/b 1967	1
Nourse, H O , Regional economics New York, McGraw-Hill, 1968	2
Oliveira, Fernando de, Manual de desenvolvimiento económico Uma abordagem problematica Río de Janeiro, Editora Fundo de Cultura, 1964	1
Ozga, S A , Las expectaciones en teoría económica Barcelona, Labor, 1968	1
Padberg, D I , Economics of food retailing Ithaca, The food Distribution Program, Cornell University, 1968	1

	SCORE
Papanek, G F , ed , Development policy-theory and practice Cambridge, Harvard University Press, 1968	1
Parsons, K H , R J Penn, y P M Raup, eds , Land tenure, Madison, University of Wisconsin Press, 1956	1
Penrose, L T , Teoría del crecimiento de la empresa Madrid, Aguilar	1
Pereira, M , Método dos modelos e analise economico da explotacao agrícola Lisboa, Fundacao Calouste Gulbenkian, 1962	1
Prebisch, Raul, Change and development - Latin America's great task Report submitted to the Inter-American Development Bank New York, Praeger, 1970	3
Production economics in agricultural research Proceedings of a Conference Urbana, University of Illinois, 1966	2
Ramos, J R , Labor and development in Latin America New York, Columbia University Press, 1970	2
Rasmussen, K , Variance and production function analyses of farm accounts Oxford, Basil Blackwell, 1962	2
Ray, P K , Principles and practices of agricultural insurance Sanker Ghosh Lande, Calcutta, India Bookland Private Ltd 1958.	2
Rehovoth conference on fiscal and monetary problems in developing States 3rd , 1965 Proceedings, edited by D Krivine, New York, Praeger, 1967	2
Renborg, U , Studies on the planning environment of the agricultural firm Uppsala, Sweden, Almqvist and Wiksells Boktryckery Ab, 1962	3
Renne, R R Land economics rev ed , New York, Harper and Brothers, 1958	3
Richardson, H W , Regional economics, location theory, urban structure and regional change. New York, Praeger, 1969	3
Rochac, A Crédito Agrícola Barcelona, Salvat, 1956	1
Rodríguez Caballero, M , Métodos modernos de planeación, programación y control México, Limusa-Wiley ,	2
Ruttan, V W , The economic demand for irrigated acreage new methodology and some preliminary projections 1954-1980 Baltimore, John Hopkins Press for Resources for the Future, 1965	1
Salter, L A , Jr , A critical review of research in land economics Madison, University of Wisconsin Press, 1967 (reprinting)	1

	SCORE
Salter, W E G , Productivity and technical change University of Cambridge, Department of Applied Economics Monograph 6 Cambridge University Press, 1960	1
Samuelson, P A , Fundamentos del análisis económico Buenos Aires Editorial El Ateneo, 1967	3
Sanderson, F H Methods of crop forecasting Cambridge, Harvard University Press, 1954	2
Sauvy, A , Teoría general de la población Madrid, Aguilar	2
Scott, A , The economics of conservation Toronto, The University of Toronto Press, 1955	2
Schaefer, W , Análisis económico de las explotaciones agrarias Buenos Aires, INTA, 1960	1
Schickele, R , Agrarian reform and economic progress a primer for development New York, Praeger, 1968	1
Schickele, R , Tratado de política agrícola México, Fondo de Cultura Económica, 1962	2
Schmid, A A , Converting land from rural to urban uses Baltimore, The Johns Hopkins Press for Resources for the Future, 1968	2
Schultz, H , The theory and measurement of demand University of Chicago Press, 1957 (reprinting)	2
Schultz, T W , Economic growth and agriculture New York, McGraw-Hill, 1968	3
Schultz, T W , The economic organization of agriculture New York, McGraw-Hill, 1953	1
Schultz, T W , Investment in human capital the role of education and of research New York, The Free Press, 1971	2
Schultz, T W , Transforming traditional agriculture New Haven, Yale University Press, 1964.	3
Schumpeter, J A Teoría del desenvolvimiento económico México, Fondo de Cultura Económica, 1963	1
Senior, C , Land reform and democracy Florida, University of Florida Press, 1958	1

	SCORE
Shepherd, G S, Agricultural price analysis Ames, Iowa State University Press, 1963	3
Shepherd, G S , Agricultural price and income policy Ames Iowa State College Press, 1952	1
Shepherd, G S , Marketing farm products-economic analysis Ames Iowa State College Press, 1955	1
Silva, B , Uma teoria geral de planejamento Rio de Janeiro, Fundacao Getulio Vargas, 1964	1
Singh, D B , Economics of development New York, Asia Publishing House, 1971	3
Sorenson, V L , ed Agricultural market analysis East Lansing, Bureau of Business and Economic Research, Michigan State University, 1964	2
Southworth, H M , y B F Johnston, eds Agricultural development and economic growth Ithaca, Cornell University Press, 1967	3
Stigler, G J , y K E Boulding, eds , Ensayos sobre la teoría de los precios Madrid, Aguilar,	3
Stowe, Econometría y teoría macroeconómica Madrid, Aguilar	2
Study week on the econometric approach to development planning Vatican City, Pontificiae Academiae Scientiarum, Scripta Varia 28 1963	2
Sukhatme, P V , y B V Sukhatme, Sampling theory of surveys with applications Ames, Iowa State University Press, 1970	3
Sunkel, O , y P Paz, El subdesarrollo latinoamericano y la teoría del desarrollo México, Siglo veintiuno Editores, 1970	1
Sunkel, O , et al., Inflación y estructura económica Buenos Aires Paidos, 1967	1
Takayama, T , y G G Judge, Spatial and temporal price and allocition models Amsterdam, North-Holland, 1971	3
Taylor, H C , y A D Taylor, The story of agricultural economics Ames, Iowa State College Press, 1952	2
Theil, H , Agragación Lineal de relaciones económicas Madrid, Aguilar	2
Theil, H , Applied economic forecasting Chicago, Rand Mcnally, 1966	2

	SCORE
Theil, H , Principles of econometrics New York, Wiley, 1971	2
Theil, H , Optimal decision rules for government and industry Amsterdam, North-Holland, 1964	2
Thomsen, F L , y R J Foote, Agricultural prices New York, McGraw Hill, 1952	3
Timmons, J F , y W G Murray, eds , Land problems and policies Ames, Iowa State College Press, 1950	1
Tinbergen, J , Política Económica México, Fondo de Cultura Económica, 1968	3
Turk, K L , y L V Crowder, eds , Rural development in tropical Latin America Ithaca, N Y., Cornell University Press, 1967	2
Tweeten, J G Foundations of farm policy, Lincoln, The University of Nebraska Press, 1970	3
United Nations, Education, Human resources, and development in Latin America New York, 1968	2
United Nations Economic Commision for Latin America, Development Problems in Latin America Austin, University of Texas Press, 1970	3
Urquidi, Victor L., The challenge of development in Latin America New York, Praeger, 1964	1
Vincent, W H , ed Agricultura normas sobre economía y administración México, Limusa-Wiley	2
Wagner, H M , Principles of operations research Englewood Cliffs, Prentice-Hall, 1969	2
Wald, H P , Tributación de tierras agrícolas en economías subdesarrolladas México, Compañía General de Ediciones, 1964	2
Wald, H P , y J N Froomkin, eds , Conference on agricultural taxation, and economic development Cambridge, The International Program in Taxation, Law School of Harvard University, 1954	2
Walsh, V C , Introduction to contemporary microeconomics New York, McGraw-Hill, 1970	3
Warrimer, Doreen, Economics of peasant farming London, Frank Cass & Co , Ltd , 1964 (reprinting)	2

SCORE

Weber, A , Theory of the location of industries Chicago, University Press, 1957 1

Weitz, R From peasant to farmer a revolutionary strategy for development New York, Columbia University Press, 1971 2

Weitz, R , ed , Rehovoth conference on comprehensive planning of agriculture in developing countries Cleveland, Press of Western Reserve University, 1966 2

Weller, J , Modern agriculture and rural planning London, The Architectural Press, 1967. 1

Westveld, R H , y R H Peck, Forestry in farm mangement New York, Wiley, 1951 1

Wibberleu, G P , Agriculture and urban growth (A study of the Competition for Rural Land) London, Michael Joseph Ltd 1959 2

Wionczed, M S , ed , Latin American economic integration New York, Praeger, 1966 2

Wold, H , y L Jureen, Demand analysis a study of econometrics New York, Wiley, 1953 3

Wonnacott, R J , y T H Wonnacott, Econometrics New York, Wiley, 1970 3

Yamame, T , Mathematics for economists Englewood Cliffs, Prentice-Hall, 1968 3

Yang, W Y , Methods of farm management investigations FAO Agricultural Development Paper 64 Roma, FAO, 1965. 3

Young, S , Management systems analysis Glenview, Ill , Scott, Foresman 1966 3

Youngson, A J , Overhead capital a study in development economics Edinburgh, University Press, 1967 1

Yudelman, M , El desarrollo agrícola en América Latina México, Centro de Estudios Monetarios Latinoamericanos, 1967 3

Zamora, F , Dinámica Económica México, Fondo de Cultura Económica, 1968 1

	SCORE
Zamora, F , Tratado de teoría económica México, Fondo de Cultura Económica, 1968	1
Zarkovech, S S., Quality of statistical data Roma, Food and Agriculture Organization of the United Nations, 1966	2
Zimmermann, E W , World resources and industries New York, Harper and Brothers, 1951	2
Zook, P , Desarrollo económico y comercio internacional Mexico, Libreros Mexicanos, 1963	1

APPENDIX 2. "MASTER LIST" OF JOURNALS ON AGRICULTURAL ECONOMICS, ECONOMICS, AND QUANTITATIVE METHODS

	SCORE
Agricultural economics research	2
American economic review	2
The american journal of economics and sociology	2
American journal of agricultural economics	2
The Australian journal of agricultural economics	2
Boletín económico de América Latina (Cepal)	2
Boletín mensual de economía y estadística agrícolas (FAO)	2
Bulletin of the Institute of Economics and Statistics (Oxford)	1
Canadian journal of agricultural economics	2
Demografía y economía (El Colegio de México)	1
Desarrollo económico (Buenos Aires)	2
Desarrollo rural en las Americas (IICA, Bogotá)	2
Development digest (AID, Washington)	2
Econométrica	1
Economic development and cultural change	2
The economic journal	1
Económica (Argentina)	1
Economica, New series	1
Finanzas y desarrollo (Fondo Monetario Internacional)	1
International economic review	2
International journal of agrarian affairs	2
Journal of agricultural economics (England)	2
Journal of development studies	2
Journal of economic education	1

Journal of economic literature	2
The journal of human resources (Madison, Wisc , U. S A)	1
Journal of political economy (Chicago)	2
Journal of regional science (Regional Science Research Inst , Pa U S A)	1
Journal of the American Statistical Association	2
Journal of the Royal Statistical Society	2
Land economics	2
Oxford economic papers	2
Quarterly journal of economics (Harvard)	2
Review of economic studies	2
Review of economics and statistics	2
Review of regional studies	1
Southern economic journal	1
El trimestre económico (México)	2
Western economic journal	1
World agricultural economics and rural sociology abstracts	2