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ABSTRACT

This report examines the college of pharmacy library in relation to its historical development, present facilities, services, and user satisfaction, and makes a statistical comparison between the University of Houston College of Pharmacy Library and other accredited pharmacy libraries nationwide. Data were gathered through 28 completed library survey questionnaires returned by pharmacy library directors, and through 194 completed user satisfaction questionnaires returned by users. Statistics are presented for the following: library status, college characteristics, library staff, equipment, hours open, circulation, library collection, library size, growth in acquisitions, budget, technical processing, policy, and services. The user survey data indicate user satisfaction with library staff, services, facilities, and collections. In addition to data analysis, the report contains a literature review, details of the survey methodology, recommendations, and tables. Appendices provide samples of the questionnaires, and a bibliography cites 18 sources. (FM)

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A STUDY OF THE COLLEGE OF PHARMACY LIBRARY CONCERNING FACILITIES, SERVICES, AND USER SATISFACTION

A SURVEY MADE POSSIBLE THROUGH A GRANT FROM THE UNIVERSITY OF HOUSTON, CENTRAL CAMPUS

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INTRODUCTION

Seventy-two universities throughout the country support a college of pharmacy program accredited by the American Council of Pharmaceutical Education (ACPE). One of the primary purposes of the ACPE is to stimulate excellence in both instruction and research within the pharmaceutical colleges across the country. The college of pharmacy library has emerged as a vital part of this specialized educational process, in part, through application of more stringent standards.

CHAPTER 41 THE PROBLEM

The Problem Statement

The college of pharmacy library fills an active position within many American universities today. This report will examine the college of pharmacy library in relation to its historical development, present facilities and services, and user satisfaction. A statistical comparison will be made between the University of Houston College of Pharmacy Library, and other accredited pharmacy libraries throughout the country. This will be done in an effort to ascertain possible areas of weakness at the University of Houston Pharmacy Library, and to provide a standardized method for evaluating the effectiveness of user services.

Delimitations

In order to focus clearly on the objectives, the following delimitations have been placed: 1) only pharmacy libraries of colleges accredited by the ACPE were considered, 2) medical libraries were not contacted unless they served directly as the library of an accredited college of pharmacy, 3) in order to better assess the current needs and trends of the pharmacy library, a broader definition that included all health science libraries was used in compiling the literature search.

Methodology

The methodology included two questionnaires sent to all ACPE accredited colleges of pharmacy libraries within the Continental United States. The first questionnaire ("Library Survey," see Appendix A) surveyed present facilities and user

services. Additional information was solicited concerning the following areas: enrollment, staff, budget, and total number of hours the library was open. An understanding of each library's priorities was vital to the survey; therefore, a portion of the questionnaire provided for self-assessment and a ranking of eleven services.

The second questionnaire ("User Survey," see Appendix B) was addressed to fifteen frequent and typical library users as chosen by each pharmacy librarian. The intention was to survey user satisfaction. A gradient scale of from one through five was assigned to each of the thirty-two categories. Such areas as staff, services, hours, policies, physical facilities, and collection were included.

All usable questionnaires from both surveys were key-punched and submitted through the Statistical Package for the Social Sciences (SPSS) software program at the University of Houston Computing Center. The statistical analysis of frequency distribution and minor, cross-tabulation are discussed in Chapters IV and V.

CHAPTER II THE LITERATURE SEARCH

Pharmaceutical Education

The development of pharmaceutical education in the United States was similar to many emerging professions—emphasis was placed on apprenticeship rather than on formal, structured During the early part of the 19th Century, the American druggist had little in the way of a certificate of grad-Not until 1808 did the territory of Louisiana become the first to make a diploma and an examination pre-requisite for practice. 1 Most early schools of pharmacy were operated by pharmacists or physicians, as a business enterprise to stimulate the growth of individual apothecary shops. Recognition of the importance of formal education began in 1905, when New York State required a college degree as pre-requisite for registration of a licensed pharmacist. The founding of the American Conference of Pharmaceutical Faculties in 1900 was one impetus to the rise in educational standards. It was succeeded by the American Association of Colleges of Pharmacy in 1925, which by 1932, had established the American Council of Pharmaceutical Education (ACPE). 3 The ACPE steadily strengthened the educational standards and has since served as the agency of accreditation.

Development of Pharmacy Libraries

The development of the pharmacy library played a secondary role in the growth of pharmacy education. Foremost in importance were such pressing matters as the establishment of curriculum standards, quality of faculty, teaching techniques, and entrance standards. No doubt library collections were growing

during this early period, but for the most part, libraries remained neglected. Then in 1933, the Executive Committee of the American Association of Colleges of Pharmacy formed a standing committee on libraries. This committee proved to be the stimulating force behind a gradual recognition of the pharmacy library as a vital part of the integral educational process. As a pre-assessment of this newly found role, the executive committee issued the following statement:

The great importance of a good library for undergraduate institutions is recognized in all fields of education, especially in the field of the professions. The absolute necessity of it in graduate work is acknowledged by all. Your Executive Committee believes that pharmacy colleges as a group are weak in library facilities. This is due, in most cases, to lack of funds, but may be due, in some cases, to the lack of appreciation of the importance of a good library and the necessity of requiring undergraduates to use this important educational tool 5

A brief history of this committee, along with its accomplishments, was published in a 1953 <u>Bulletin of the Medical Library Association</u>. Under the direction of its first chairman, Dr. C. O. Lee, the committee's achievements were numerous. Perhaps its most extensive work was in publishing lists of selected books and periodicals of special interest to pharmacy librarians. Fifteen such lists were prepared between the years of 1935 and 1952.

An analysis of two surveys initiated by the committee on libraries in 1939 and 1946, revealed the significant weaknesses of pharmacy libraries to have been: 1) inadequate budgets, 2) a lack of trained, qualified, library personnel, 3) and a failure of faculty to acknowledge the professionalism of librarians. 7-8

The Committee on Libraries, in 1952, was reorganized in name and in membership. The new Joint Committee on Pharmacy College Libraries was established to utilize the combined efforts of individuals from differing areas of pharmaceutical

interest. No longer did it represent only the AACP, but now set aside four of the six committee seats for pharmacy librarians chosen by the Medical Library Association and the Special Libraries Association. In a 1953 report, the committee issued a statement of objectives toward certain troubled areas:

- (1) The need to specify qualifications for library personnel
- (2) The need to establish minimum lists of library holdings
- (3) The need for suggestions to help students develop, good library habits.

The Joint Committee has more recently sponsored numerous activities, including the publication Unlisted Drugs, through the Pharmaceutical Section of SLA.

Library Surveys

As the number of health-care professionals increased during the fifties and early sixties, so did library services. Prior to 1960, there was a general lack of information on the various institutions providing library services for the health sciences. To fill this void, in 1965, the first Committee on Surveys and Statistics (COMSAS) was appointed by the Medical Library Association. 10 In 1969, from data collected on two earlier surveys, a Directory of Health Sciences Libraries in the United States was published. A companion volume, the Statistic's Profile, was. later issued to analyze the 1969 data. , The size, distribution, and composition of the health science library population was de-Although pharmacy libraries represented less than 6 percent of the total survey population, a significant insight was offered as to their emerging social context, and as to selected events of formative importance in the preceding decade. 11 A second survey was undertaken by COMSAS in 1973, the methodology for which is outlined in the Directory of Health Sciences Libraries, 1973.

The 1973 data showed a decrease of 171 libraries (5.4%) in the years following the 1969 survey. This did not necessarily imply an impairment of services, as many libraries had merged rather than been discontinued. Although the total number of libraries decreased between 1969 and 1973, the combined number of bound volumes increased by 19 percent, and current journal subscriptions by 16 percent. It was also reported that a total of 887 library personnel were added during this five year period.

The nine states with the greatest number of libraries (52% of the total), remained unchanged in both the 1969 and the 1973 surveys. The concentration of libraries correlated closely with the density of user population. ¹³ Increased user demand during this period precipitated a more effective regional, medical liabrary network, initiated by the National Library of Medicine. This eleven region network currently serves more than eight hundred libraries throughout the United States. ¹⁴

Other statistical surveys have been conducted in recent years, providing a broader spectrum on collection needs and user services in medical libraries; 15-17 however, only one study specifically dealt with the college of pharmacy library. Hall and Nelson surveyed physical facilities and services, and provided a geographical comparison of pharmacy libraries in 1974. Their report included a brief self-assessment of twenty-six librarians, representing twenty-one libraries. The participants rated their library in regard to sta ', equipment, computer services, and collection.

Standards for Libraries

The late 1960's began a shift in public demand from the basic, standardized research approach, towards more effective public services in libraries. Health science librarians, as well as professionals in other fields, became more concerned with user satisfaction. Informational requirements were no

longer totally satisfied through the assistance of standardized library sources. The new information specialist was required to provide a synthesis of information based upon subject expertise and reference experience. This trend in library service has helped to create a need for evaluation of present library facilities, and their effective utilization in assisting the user to obtain success in his library encounter.

As early as 1964, general standards for special libraries had been adopted by the Special Libraries Association regarding library objectives, staff, budget, library collection, and user services. 19 This document provided excellent guidelines to libraries for many years, and in fact, helped frame the standards recently adopted by the American Association of Colleges of Pharmacy. In 1975, the final edition of Standards and Planning Guide for Pharmacy Library Service was published by the AACP. It provided pharmacy librarians with an excellent tool for assessing present library conditions and for planning future library needs and objectives.

CHAPTER III DATA COLLECTION

Approach

The University of Houston College of Pharmacy supports a faculty of thirty-nine and a student body of just over five hundred. The amount of both sponsored and non-sponsored research has steadily increased over the past several years. Library facilities in the past have been adequate, though handicapped by the lack of floor space and sufficient funding. In the fall of 1977, the library moved to an expanded facility within the newly built Science and Research II Building. It was just prior to this time, during an assessment concerning the present status of the UH Pharmacy Library, its future, services, and facilities, that this study was proposed. It was decided that a survey be taken of all accredited pharmacy libraries throughout the United States. It was within the following areasy that a standard for comparison was sought: library services, physical facilities, and user satisfaction.

Survey Plan

For the gathering of data, two questionnaires were devised, one to solicit information regarding present library facilities and services, and the other, directed to the library user in an attempt to ascertain levels of user satisfaction within the following categories: 1) staffing, 2) services, 3) facilities, and 4) library collection. It was considered necessary in the study to obtain standardization regarding responses of opinion; therefore, a numeric scale was used in such cases. To provide additional background information and obtain primary data regarding certain policies, practices, and services, a personal visit

was made to four college of pharmacy libraries in the states of Indiana, Kansas, Ohio, and Texas. Due to the anonymity expressed within the cover letter of each questionnaire, the only direct reference made to any specific library will be to the University of Houston Pharmacy Library.

Preparation

A search of the literature was undertaken during the summer and fall of 1977, and then updated during 1978-79, to ascertain pertinent material already in print. The search revealed several general surveys of health science libraries, their facilities, staff, salaries, etc., but little specific information about pharmacy libraries.

After having determined the area to be tested, two preliminary questionnaires were prepared and submitted for evaluation to various staff and faculty members at the University of Houston. Their criticisms proved quite beneficial in preparing the final draft. A meeting with user service personnel at the University of Houston Computing Center provided additional guidelines in phraseology and format so as to be compatible with the SPSS computer program.

Collection Technique

It was decided to survey all pharmacy libraries presently serving ACPE accredited college of pharmacies within the Continental United States. A listing of colleges was obtained from the current directory issued by the ACPE. Each questionnaire was sent by mail, accompanied by an explanatory cover letter and a self-addressed, stamped envelope. The results of all returned and answered questionnaires were key-punched and processed by the SPSS computer program at the University of Houston.

Analysis of Returns

<u>Library Survey</u>: There were a total of 72 sent. The number of returned questionnaires totaled 28 (39%). Of the 28, 6 were not completed, leaving 22 (31%) for usable data.

<u>User Survey</u>: There were a total of 1,110 questionnaires sent. The number returned totaled 284 (26%). Ninety came back uncompleted, leaving 194 (17%) for usable data.

CHAPTER IV

ANALYSIS OF DATA: LIBRARY SURVEY

Introduction

Since the primary objective of the survey was directed toward the pharmacy library, a separate category was tabulated for comparison in the presentation of data, Tables 3 thru 7. The responses from each of the individual pharmacy libraries were combined, hereafter referred to as the "separate library group." All returned questionnaires were also considered together as representing another group, hereafter referred to as the "combined library group." In formulating comparisons, the median rather than the mean figure was used whenever applicable, in order to minimize the high numerical influence exhibited by the larger health science libraries. Specific responses from the University of Houston Pharmacy Library were also tabulated and presented in Tables 2 thru 7. A full narrative discussion of the UH Library in comparison-to-the "separate library group" and the "combined library group" was determined lengthy and unnecessary. Such specific data can be easily obtained directly from the tables.

Library Status

Nine (41%) of the responding libraries were separate branch libraries, located in close proximity to their respective col-7 lege of pharmacy. Three (14%) responded from independent libraries, with 5 (23%) responding as part of a larger health science library. One respondent (4%) indicated their library to be nothing more than a reading room. Two (9%) indicated theirs to be part of a separate research library, with the remaining two (9%) indicating their library was part of a main campus library. [Table 1.]

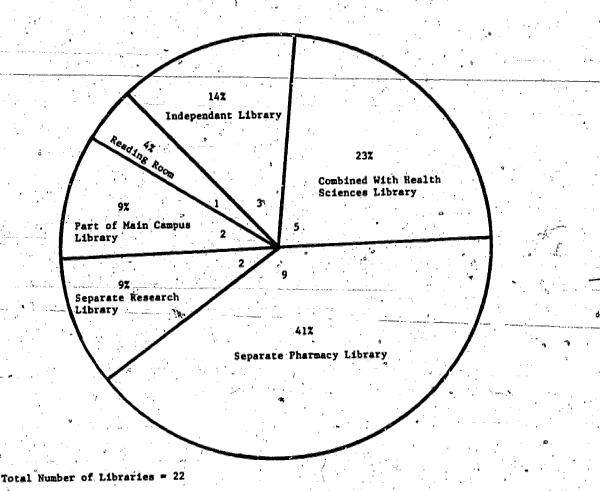


Table 1.--Percent of libraries polled showing division by library type

College Characteristics

Questions 2 thru 7 sought information concerning statistical characteristics of the college of pharmacy. It was found that 22.7% had a faculty of over 45, and 18.2% had 20 teachers or less. The mean number of faculty per college calculated at 37.0, the median at 32.5. The mean number of undergraduates per college was 472; the median figured was 455. The enrollments of colleges served by the 22 responding libraries were as follows: 4 enrolled 300 undergraduates or less, 16 had between 301 and 700 students and 1 reported an enrollment of over 700 students.

Seven of the colleges did not offer a Master's program. Of the remaining 15 institutions, the following were enrolled in a Master's program: 2 reported between 1 and 5, 2 reported 6 to 10 students, 6 were in the 11 to 50 range, and 2 indicated an enrollment in excess of 50 students. Nearly 60% of the colleges did not offer a pharm D.program. The majority of those that did reported an enrollment of under 25 students. From the total sampling, the mean enrollment of combined graduate programs per college was 46.0 students. The median figure was slightly less at 39.5 students per college. [Table 2.]

	grange in		
Table showing di	 Percent of vision by char 	libraries polled acteristic of col	lege
		NUMBER	
and the second s	SIZE *	RESPONDING	PERCENT
Pharmacy Faculty	1-20		18.2
Fratmacy Faculty	21-25	\ 3	13.6
Mean = 37.0 Median = 32.5 U of H College of Pharmacy = 39	26-30	3	13.6
Hedian =-32.5	31-36	4	18.2
of Pharmacy # 39	37-40 41-45	2 1	9.1 4.5
	over 45	3. 5	22.7
4			
Pharmacy Undergraduates	1 200	· 4	10.0
Finaturacy DidetEtaduates	301-400	. 3	19.0 14.3
	401-500	\ <u>*</u>	33.3
Mean = 472	501-600 601-700	2,	9.5
Median = 455 U of H College	601-700 over 700	4	19.0
of Pharmacy = 486	OVER /UU		4.8
or rinstally - 400		1. 8 J B 12	* T - 1
		· · · · · · · · · · · · · · · · · · ·	
Pharmacy Students in a	nor offer	or and a second of the second	36.8
Pharmacy Students in Masters Program	ace offer.*d 1-5	····· /,	10.5
	1-5 6-10 	2	10.5
U of H College	11-25	<u>3 </u>	15.8
of Pharmacy = 50	26-40 41-50	1	5.3 10.5
A	over 50	2 2	10.5
	 ,		
Pharmacy Students in	and the second		4
Pharmacy Students in Pharm D Program U of H College	.not offered	11	57.9
	1-5	i	5.3
	6-10	0	0.0
U of H College of Pharmacy = 0	6-10 11-25 26-30 31-35	5 1	26.3
OI FRAIMACY = U	31 = 35	1 0	5.3 0.0
	over 35	1	5.3
	•		
Pharmacy Students in			
Phd Program	.not offered	7	36.8
	1-5	A	21.1
U = 6 U Ø=21===	6-10	3	15.8
U of H College of Pharmacy = 6	11-30 31-35	0 1	0.0 5.3
	over 35	4	21.1
Total Students in	and the second second		** - #
Graduate Programs			ŏ
Mean = 46.0			
Median = 30 5			, -
U of H College	• '		
of Pharmacy = 56			•
,			

Library Staff

In the Hall and Nelson 1974 survey²¹, 7 out of 9 responding libraries reported an annual starting salary for pharmacy librarians of \$9,000 or less. Even with inflationary factors considered median starting salaries still tended to be low. The median annual salary for a beginning librarian in the "separate library . group" was \$10,000, compared to \$10,030 for a librarian represented in the "combined library group." Salaries for other library personnel tended to fluctuate only slightly between the two responding groups. Beginning clerical help averaged between \$2.73 and \$3 per hour; student help averaged \$2.34 and \$2.43 per hour. The greatest difference was found in the para-professional's salary; \$7,000 for those at the "separate library group," versus \$8,000 for those from the "combined library group." the "separate library group" was staffed by only one librarian, whereas the "combined library group" averaged nearly 5 librarians; however, the median number figured at just under 2. [Table 3.]

Equipment

Each responding library was queried in questions 52 thru 63 concerning the use of certain audiovisual and microform equipment. It was found that the "separate library group" averaged 1 photocopier per library and charged just over 6¢ per copy; whereas those from the "combined library group" averaged nearly 2 photocopiers and charged just over 5¢ a copy. Of the nine in the "separate library group," none reported having an automated circulation control system. This similar low percentage also held true for "the combined library group"; out of a total of 20 responses, only 3 had an automated circulation control system. Security control systems at pharmacy libraries were similarly lacking. Only 2 out of 9 in the "separate library group" reported having such a system, while 10 out of 20 in the "combined library group" did. OCLC terminals were reported in only 2 of the 9 "separate libraries," and in 9 of the 22 "combined libraries [Table 3.]

Hours

The total number of hours per week varied only slightly between the two groups. The "separate libraries" averaged 70 hours, while those in the "combined group" averaged 71 hours per week. Only 4 out of 9 "separate libraries," remained open on Saturdays, while 13 out of 22 "combined libraries" did.

As might be expected, a larger number of libraries were open on Sundays; 17 out of 22 "combined libraries," and 7 out of 9 for "separate libraries." [Table 3.]

Circulation

Six of the 9 "separate libraries" allowed bound journals to circulate, while 14 out of 22 in the "combined group" did. These figures represent 66% and 64% of the total response for each group respectively. Seven (78%) of the "separate libraries" allowed current journals to circulate, compared to 12 (55%) of the "combined group."

Question 39 sought information concerning the activity of the library's reserve collection in comparison with externally circulated material. "Separate branch libraries" estimated that 86% of the total library circulation was for reserve material used within the library. The "combined group" reported this figure to be an estimated 84%. [Table 3.]

Table 3.--Percent of libraries polled showing comparison by library type

CATEGORY	ALL LIBRARIES COMBINED	SEPARATE PHARMACY LIBRARY	U of H.
	Total Responding Mean Median	Total Responding Hean Hedian	PHARMACY LI
BRARY STAFF			
Number of Librarians (MLS) Number of Paraprofessionals # of Clerical hours/week # of Student hours/week Librarians contract	21 4.5 1.0 18 103.4 40.1 18 111.4 46.0	9 .7 .8 8 .8 '.8 6 44.2 40.0 7 50.7 50.0 6 PERCENT	1 1 40 30
9 Month	11 91.7	1 16.7 5 83.3	1 0
9 Month		1 5 83.3	0 1
Salary for Beginning Personnel			
Paraprofessional (12 months) . Clarical (per hour)	15 \$10,211.00 10,030.00 10 \$7,661.00 \$8,000.00 10 \$ 2.99 \$ 3.00 17 \$ -2.42 \$ 2.34	6 \$9,996.00 10,000.00 3 \$7,112.00 \$7,000.00 2 2.73 \$ 2.73 7 \$ 2.48 \$ 2.43	
UIPMENT		a	
Number of Photocopiers Charge per copy Number of Microfilm machines Number of Microfiche machines Number of Microform reader/	20	9 .9 .1.0 7 6.4c 6.0c 9 .9 .8 9 1.2 1.1	1 5e 2 2
printers	14 11.8c 9.6c 20 . 22.8 7.5	9 .7 .6 4 10.0c 10.0c 9 7.7 3.0	1 100 0
YesNo	3 15.0	0 0.0 9 100.0	No

The State of the S	* .		<u> </u>
9 1	Table 3.—continued		
			100
	ALL LIBRARIES COMBINED	SEPARATE PHARMACY LIBRARY	U of H PHARMACY
	Total Responding Mean Median	Total Responding Mean Median	LIBRARY
EQUIPMENT CONT'D.		9 PERCENT.	. †
Security Control System		2 11	Yes .
Yes No	10 50.0	78	
g If yes, satisfaction Yes	7 100.0	1 100.0	ξ Yes
OCLC Terminals. One or more	22	9	
No	, 13	77.8	No
lours .		· · · · · · · · · · · · · · · · · · ·	
Hours open Mon-Sun Open on Saturdays?	22 75 7,1 22 PERCENT	9 71 70 9 PERCENT	70.5
Yes	13 ·	4 44,4 5 55.6	No
No		9 93.0	
Yen	77.7	77 77.7	No No
in the engineering of the engine			
IRCULATION Bound journals circulate?	22 PERCENT	9 PERCENT	
Yes	14 63.6*	6.7 3 33.7	Yes
Current issues circulate?	22	9	
Yên		7 77.8 2 22.2	No.
Estimate percent of total weekly			es de la companya de La companya de la co
circulation represented by in-hou	me <u> Mean Median</u> 11 66 84	<u>Mean</u> <u>Median</u> 81	952
CAMPAGA CAMPAG		and the state of t	

Collection

Significant variation in the mean value of collection size was demonstrated between the groups. As might be expected, the larger health science libraries tended to skew the figure upward in the "combined group"; however, when considering the median value, this large variation diminished significantly. The median figure of library holdings were as follows in "separate libraries": "monographs," 6,244; "bound journals," 10,005; "current journals," 171; "microforms," 938; and "audiovisual materials," 13. Respondents in the "combined group" reported median holdings of: "monographs," 9,525; "bound journals," 7,705; "current journals," 348; "microforms," 699; and "audiovisual materials," 90.

Six of the 9 responding "separate libraries" (67%) had the printed edition of <u>Chemical Abstracts</u>. No library in this group had <u>Chemical Abstracts</u> microform edition. Fourteen out of the 21 libraries in the "combined group" (67%) had <u>Chemical Abstracts</u> printed edition. Two of the "combined libraries," or just under 10%, reported having the microform edition of <u>Chemical Abstracts</u>. [Table 4.]

Size of Library

As might be expected, "combined libraries" had a significantly higher floorspace average than those in the "separate library" group; 18,141 sq ft versus 4,040 sq ft. This difference, however, dropped notably when the median rather than the mean value was considered; 4,086 sq ft for "combined libraries" as opposed to 3,600 sq ft for "separate libraries." The median number of square feet allocated for stack area was comparable between both groups. The "combined libraries" averaged 1,261 sq ft and the "separate libraries" averaged 1,261 sq ft and the "separate libraries" averaged just over 1,000 sq ft. [Table 4.]



Growth in Acquisitions

Questions 32 and 33 sought information concerning the number of new books and journal subscriptions during the latest 12 month period. The median new-book acquisition rate for the "separate libraries" was 422. "Combined libraries" had a slightly higher acquisitions rate of 469 new books per year. New journal subscriptions averaged 12 per year for "combined libraries" and 8 per year for "separate libraries." [Table 4.]

Budget

Questions 40 thru 43 dealt with library budgets, both in dollars spent and in administrative responsibility. Among the eight respondents in the "separate library group," the median budget for monographs was \$5,750. "Combined libraries" had a median budget of \$7,800. Seven of the eight "separate libraries" indicated fiscal responsibility by personnel at the main library. The one remaining response indicated the budget was set and maintained by personnel at the pharmacy branch library. [Table 4.]

Table 4.--percent of libraries polled showing characteristics of library operations

	ALL LIBRARIES C Total Responding Mean		SEPARATE PHARMACY L Total Responding Hean	IBRARY Median	U of H Pharmacy Library
Monographs Bound journals Current journals All acroforbs All AV materials Presently subscribe to Chemical Abstracts	14 16,929 17 723 9 4,787 7 4,468 21 PERCENT	9,525 7,705 348 699 90	8 .7.721 6 11,733 8 .255 4 .4.548 2 13	6,244 10,005 171 938 13	4,000 2,300 160 50
Hard Copy Hiero-form SIZE OF LIBRARY (Sq. Ft.) Total area	2 9,5		6 66.7		Part No
GROWTH IN ACQUISITIONS Monographs (12 month) New journals (12 month) CURRENT BUDGET	1015,595-	1,261	9 4,040 5 1,119 8 495 8 9	3,600 1,000 422 8	3,600 700 216 14
For monographs Budget is set by: Main library Pharm library University Adm. Health Sciences Library Administrati	18 PERCENT 13 .72.2 2 11.2 1 5.6	\$7,800	8 \$8,827 8 PERCENT. 7 87.5 1 12.5 0 0.0	\$5,750	\$7,000

. Technical Processing

Questions 62 thru 7. listed nine technical services common to most libraries. Respondents were asked to identify those services presently performed at their library. Those representing the "separate library group" responded positive to the following services, with ratios as indicated: "verification," 6 out of 9; "OCLC input," 1 of 8; "original cataloging," 2 of 8; "filing in card catalog," 9 out of 9; "typing of purchase requests," 8 of 9; "typing of invoices," 1 out of 8; "payment of orders," 0 out of 8; "maintain budget ledger," 1 of 9; and "prepare call-number labels," 2 out of 9.

The ratio of positive responses to the nine listed categories for the "combined libraries" were as follows: "verification", 18 of 22; "OCLC input", 8 out of 21; "original cataloging," 13 of 21; "filing in card catalog," 22 out of 22; "typing of purchase requests," 21 of 21; "typing of invoices," 13 out of 21; "payment of orders," 10 of 21; "maintain budget ledger," 13 out of 22; and "preparing call-number labels," 13 out of 21. [Table 5.]

Policy

Questions 84 thru 86 concerned library policies; whether a written copy was maintained and to whom library policies were applicable. Five out of the 9 "separate libraries" indicated a written copy was maintained. Seventeen out of 21 of the "combined libraries" responded affirmatively. In the "separate libraries," 6 of 9 indicated their policies were uniform in all branch libraries. The positive responses in the "combined libraries" totaled 8 out of 20. It was found that the policies of most libraries were formulated by several individuals. Respondents from "separate libraries" showed library policies to be formulated and approved by individuals in the following positions: "pharmacy faculty," 4 out of 9; "library committee," 7 of 9; "pharmacy librarian," 8 of 9; and the "library director,"

8 out of 9. The responses of "combined libraries" derived the following ratios: "pharmacy faculty," 4 out of 21; "library committee," 17 of 21; "pharmacy librarian," 10 out of 21; and the "library director," 16 out of 22. [Table 5.]

Table 5.-- Technical processing performed by responding libraries showing division by library group

		•	- ,50	A STATE OF THE STA	<u> </u>	ن ر
	g A	LL LIBRARIES		SEPARATE BRANCH LI	BRARY	The second
		YES	NO	YES	NO Uo	f H
	Total	1 1	1 1	Total	Phari	
The second of th	Responding	No. Z	No. X	Responding No. 2	- No - 2 - Lib	rary
4		1.00	.577na.			
CATEGORY		es =				<u>Sail.</u>
- All All All All All All All All All Al					= 20 00 0	<u> </u>
Verification		18 81.8	4 18.2	1		Yes, No
OCLC Input	21	8 38.1	13 61.9 8 38.1	8 1 12.		No -
Original Cataloging		13 61.9 22 100.0	0 0 0 30.T	9 9 100.	7 . 7	Yes
Filing in Card Catalog		21 95.5	1 4.5	9 8 88.		Yes
Typing of Purchase Requests Typing of Invoices	21	13 61.9	8 38.1	8 1 12.		No
Payment of Orders	21	10 47.6	11 52.4		'	No
Mainrain Budget Ledger	22	13 59.1	9 40.9	l 'a''.	-	No No
Prepare & Apply Call # Labels	21	13 61.9	8 ~ 38.1	8 2 25.	0 6 • 75.0	ио .
		*		The second secon		
POLICIES		1. 190		/		
A Written Copy is Maintained?	21	17 77.3	°a 5 22.7	9 5 55.		No
Uniformily Apply to all Branches .	20	8 40.0		1	7 3 33.3	No
Individuals in the following						
positions help set the library's	*	en grande en g				
policy:	1			1	, ,	Yes
Pharmacy Faculty		4 19.0	17 81 0			Yes
Library Committee		17 81.0 10 47.6	4 19.0 11 52.4	1 1 1 2 1 2 1 1 1 1	T	Yes
Pharmacy Librarian Library Director	99	16 72.7	6 27.3	'() - ^ '() 2 24 보기 (중앙)	F =	Yes
Library Director	***	e jamen ingeneral				

Services

Questions 72 thru 83 solicited priority ratings for various library services. Participants were asked to rate thirteen services in relation to the emphasis at their library. The rating scale was placed at "one" through "ten"; "one" being a very high priority, and "ten" indicating a service not offered.

The category, "provide reference assistance," led all services of both groups with a mean rating value of 1.00. One

hundred percent of all respondents gave it top priority in library service. Second and third place ratings for services for "separate branch libraries" rated "telephone reference service" second, with a 3.00 mean value, and "provide inter-library loan service" third, with a value of 3.44. Those same services were listed in reverse order by the "combined library" group, with values of 2.62 and 2.63 respectively. The fourth most important service for both groups was "preparing acquisition lists." The "combined libraries" and the "separate libraries" ranked this service 4.00 and 3.98 respectively.

Although "personalized research assistance" for faculty rated fifth in both groups, "research assistance for graduates" and "research assistance for undergraduates" rated much lower. In the "separate libraries" group, both "graduates" and "undergraduates" rated eighth, with a 6.22 value. The "combined libraries" rated "research assistance for graduates" eighth at 6.23, and "research assistance for undergraduates" twelfth, at 6.77. The "separate libraries" rated "outreach program services" sixth with a 5.66 value, and "lectures to classes or groups" seventh, with a value of 6.11. Respondents in "combined group" reversed these priorities, with values 4.54 and 5.27 respectively.

The emphasis placed on computerized data base services varied significantly between the groups. "Separate libraries" rated this service as twelfth, with a value of 8.13, while "combined libraries" placed it ninth, with a value of 6.33. Only 37% of the "separate libraries" offered data base services, while more than 47% of "combined libraries" did. "Preparing subject bibliographies" received a low rating; both groups placed it eleventh out of a total of thirteen listed services. Half the respondents in "separate libraries" reported classroom instruction for credit, while only 38% of the "combined libraries" did. [Table 6.] [Table 7.]

Table 6. — <u>All Responding Libraries Combined</u> Rating of user services on a scale one to ten One= very high through Ten= do not offer

RANKING CATEGORIES SHOWING PERCENTAGE RESPONSE

the state of the s				, 200101	****							<u>'</u>	
SERVICES +	ONE	TWO	ŢijŖĔĔ	FOUR	FIVE	SIX	SEVEN	EIGHT	NINE	TEN	MEAN	RANK	TOTAL RESPONDING
PREPARE SUBJECT BIBLIOGRAPHIES	14.3	4.5	9.5	19.5	4.8	4.8	0	4.8	11.3	26.9	6.3	11	21
PERSONALIZED RESEARCH ASSISTANCE UNDERGRADUATES GRADUATES PACULTY	27.3	9.1	0	0	9.1 4.5 4.5	4.5 4.5 9.1		0	4.5		6.77 6.23 4.41	. 8	22 22 22
LECTURES TO CLASSES OR GROUPS PREPARE ACQUISITION LISTS	31.8	18.2	4.5°	0.	13.6 0		0	4.5 5 9.1	4.5 4.5		4.54		22 22
PREPARE LIBRARY NEWSLETTER			4.5	4.5	.0	0	0	0	4.5	54.5	6.50	10	22
OUTREACH INSTRUCTIONAL PROGRAMS BOTH PRINTED AND AUDIO-VISUAL	31.8	9.1	4.5	o	9.1	- 0	Ô	13.6	9.1	22.7	5.27	- 7	4-
PROVIDE INTER-LIBRARY LOAN SERVICE . PROVIDE PERSONAL ASSISTANCE					о О	0	0	0	0		1.0		21 · 22
PROVIDE TELEPHONE REFERENCE ASSISTANCE TO QUALIFIED USER	111 12-1		i i i i i i i i i i i i i i i i i i i		4.5	4.5	0 .	9.1	4.5	· 0	2.63	. 3	22'
TEACH CLASSES FOR CREDIT								4.8					21 \
PROVIDE COMPUTERIZED LITERATURE SEARCHES	28.6	9.5	0	0.	4.8	0	0	4.8	.0	52.4	6.33	9	21

Table 7. -- Separate Branch Library and U. of H. Pharmacy Library

Rating of user services on a scale one to ten

		One=	very hi				not of		CENTAG	E RESI	PONSE	5 . - - <u>- 4</u> 5	· · · · · · · · · · · · · · · · · · ·	U. c PHAF LIB.	
	ONE	TWO	THREE	FOUR	FIVE	SIX	SEVEN	EIGHT	NINE	TEN	MEAN	R N K	TOTAL NUMBER	VALUE	RANK
PREPARE SUBJECT BIBLIOGRAPHIES	12.5	0	0	0	12.5	, O . e	, 0	12.5	12.5	50.0	7.94	11	9	5	. 2
PERSONALIZED RESEARCH ASSISTANCE UNDERGRADUATES GRADUATES FACULTY		11.1 11.1 11.1	 O	0 0	11.1 11.1 0	0 0 11.1	11.1 11.1 11.1	0 0 0	0	33.3	6.22 5.33	. B . 5	9 9 9	5 5 6	2 2 3
LECTURES TO CLASSES OR GROUPS PREPARE ACQUISITION LISTS		11.1	11.1	0	22.2	0	0	0 11.1	11.1		6.11 3.98		9	1	1
PREPARE LIBRARY NEWSLETTER	11.1	0	0 ~	0	0.	p. 0	0 4	0,	0	88.9	9.00	13	9 3	10	4
OUTREACH INSTRUCTIONAL PROGRAMS BOTH PRINTED AND AUDIO-VISUAL.	33.3	0	0	0	22.2	Ó	0	11.1	0		5.66	2-	9	- 5	2
PROVIDE INTER-LIBRARY LOAN SERVICE PROVIDE PERSONAL ASSISTANCE	55.6 100.0		C	11.1	0	0 8	0	0	. 0	22.3 0	3.44 1.00		9	ı.	. 1
PROVIDE TELEPHONE REFERENCE ASSISTANCE TO QUALIFIED USER .	55.6	. 0	11.1	ų.ī	11.1	11.1	0.	11.1	0	. 0	3.00	1	9	5 10	2
TEACH CLASSES FOR CREDIT	12.5	0	. 0 .	12.1	5 0	. 0	Q	12.5	12.5	50.0	7.85	10		1	[]
PROVIDE COMPUTERIZED LITERATURE SEARCHES	0	12.5	.,0	· · · O	12.5	0	0	12.5	, 0	62.5	8.13	12	. 8	10	4

CHAPTER V

ANALYSIS OF DATA: USER SURVEY

Introduction

The "User Survey" questionnaire was designed exclusively for the frequent and knowledgeable pharmacy library user. Fifteen questionnaires were distributed to each of the seventy-two accredited college of pharmacy libraries, in an attempt to ascertain present levels of user satisfaction in a variety of areas. Twenty questionnaires were administered to users at the University of Houston, Pharmacy Library. Mean values were determined from a standardized rating scale from "one" to "five." A mean value of 1.33 would indicate that the response fell one-third the distance between "very pleased" and "adequate," or "excellent" and "above average," according to the appropriate scale used (see Appendix B).

All returned questionnaires were tallied together as a single group. The statistical analysis is presented as Table 8, and shall hereafter be referred to as the "combined group.". It was pertinent to the study to also obtain a separate analysis of data, specific to the University of Houston, College of Pharmacy Library. The statistical analysis is presented for comparative purposes in Table 9.

Hereafter, this second group shall be referred to as the "Houston Pharmacy Library." Tables 10 thru 13 can be easily scanned for a comparison of the groups; the graphs have been color-keyed for quick reference.

Staff

Most avid library users would be the first to admit that the degree of user success in libraries is largely dependent on the quality and accessibility of the staff. Questions 1 thru 5 presented an opportunity for the user to evaluate library staff, both full and part-time, in the following five areas: "willingness to help," "knowledge of subject," "attitude," "accessibility," and "dependability." The mean value in four of five catagories for both groups was in the "above average" to "excellent" range. The only remaining category, "subject knowledge" of part-time personnel, was rated as "average" to "above average" for the "combined group," with a mean of 2.40. Permanent staff received higher ratings than part-time personnel in all five categories Respondents in the "Houston Pharmacy Library" for both groups. ranked UH library personnel significantly higher than comparable "Willingness to help" of categories in the "combined group." permanent personnel in the "Houston Pharmacy Library" led all ratings with a perfect 1.0 mark; the same category received a value of 1.33 from the "all combined group." [Tables 8. 9. 10.]

Services

In questions 6 thru 8 the participants were able to appraise current services in regard to "library hours," "loan periods," and "photocopying services." The only area of obvious dissatisfaction was weekend hours at the "UH Pharmacy Library." Respondents in this group assigned a "Saturday" rating of 2.63 and a "Sunday" rating of 3.01. The "all combined group" gave a mean value of 2.37 for "Saturday" and 2.41 for "Sunday" library hours.

"Evening" hours received a fairly respectable rating in both groups; the "all combined group" gave a 1.82 and the "Houston Pharmacy Library" a 1.75. In general, respondents felt "length of loan period" and "photocopying services" were quite adequate. The only exception concerned the "machine dependability" of photocopiers—the mean from all responses figured at 2.23. [Tables 8. 9. 11.]

Facilities

Questions 9 thru 12 presented an opportunity for the user to evaluate the physical facilities of the library with regards to "study area," "lounge area," "reference area," and "microreading area." Respondents rated the UH Pharmacy Library between "adequate" and "very pleased" for all six categories. The highest was 1.65 for the "quiet study area," and the lowest was at 1.95 for the "size of study area."

The "Houston Pharmacy Library" group rated the remaining facilities as follows: "lounge area," 1.85; "reference area," 1.50; "micro reading area," 1.80; and "number of micro machines," 1.80. Respondents in the "combined group" rated "lounge area," "micro reading area," and "number of micro machines" as less than adequate with a mean value of 2.14, 2.13 and 2.17 respectively. The "combined group" rated the remaining three categories as follows: "quiet study area," 1.85; "size of study area," 1.94; and "reference area 1.89. [Tables 8. 9. 12.]

Collection

The remaining portion of the questionnaire evaluated the library's collection, regarding both print and non-print material. Answers were based on how adequately the collection size fulfilled the needs of the user. Respondents at the University of Houston consistently rated their Pharmacy Library higher than did respondents at the other pharmacy libraries. Mean rankings reflected a higher rating for the UH library in all eight categories.

In general, library users perceived the print material collection as more adequate than the non-print collection. "The combined libraries" assigned "books," "journal titles," and "total journal volumes" at 1.97, 1.97, and 2.00 respectively; while the "Houston Pharmacy Library" recorded 1.55, 1.47 and 1.60 for the same. "Reference materials" also received a fairly satisfactory rating of 1.47 at the University of Houston, and

1.90 for the "combined group." The University of Houston" and the "combined group" library users determined the mean ratings for "non-print materials" to be respectively: "slides," 2.28 and 1.89; "filmstrips," 2.29 and 1.72; "cassettes," 2.24 and 1.77; "microforms," 2.23 and 1.88. [Tables 9. 12.]

Table 8.--User satisfaction survey. All Library Users
Showing percent distribution by category rank

		Ot	Æ.		TWO .	TH	IREE	F	OUR	FI	VE .	,
e de la companya de l	TOTAL	Excel No.	llent %	Above No.	Average	Ave No.	rage	Below No.	Average	Very No.	Poor	Mean
STAFF								1			•	·
Permanent							, ,			١		-
Willingness to Help .	192	142	74,0	39	20.3	9	4.7	1.	0.5	1	0.5	1.33
Knowledge of Subject,	190	103	54.2	52	27.4	31	16.3	4	2.1	ō	0	1.67
Attitude	192	115	59.9	59	30.7	14	7.3	4	2.1	ō	ō .	1.52
Accessibility	191	110	57.6	54	28.3	. 25	13.1	2	1.0	ō	0	1.58
Dependability	188	119	63.3	47	25.0	16	8.2	5	2.7	1	0.5	1.52
	' '					• •					•	
Part-time					111		10.0	_			A 4	
Willingness to Help .	139	65	46.B	45	32.4	25	18.8		2.2	1	0.7	1.77
Knowledge of Subject.	136	34	25.0	38	27.9	44	32.4	15	11.0	. 5	3.7	2.40
Attitude	138	53	38.4	51	37.0	30	21.7	, 5	2,9	. 0	0 🐈	1.89
Accessibility	136	61	44.9.	45	33.1	27	19.9	2	1.5	. 0	0	1.80
Dependability	134	. 45°	36.6	: 48	35.8	33	24.6	4	3.0	0	0	1.94

Table 8.--continued

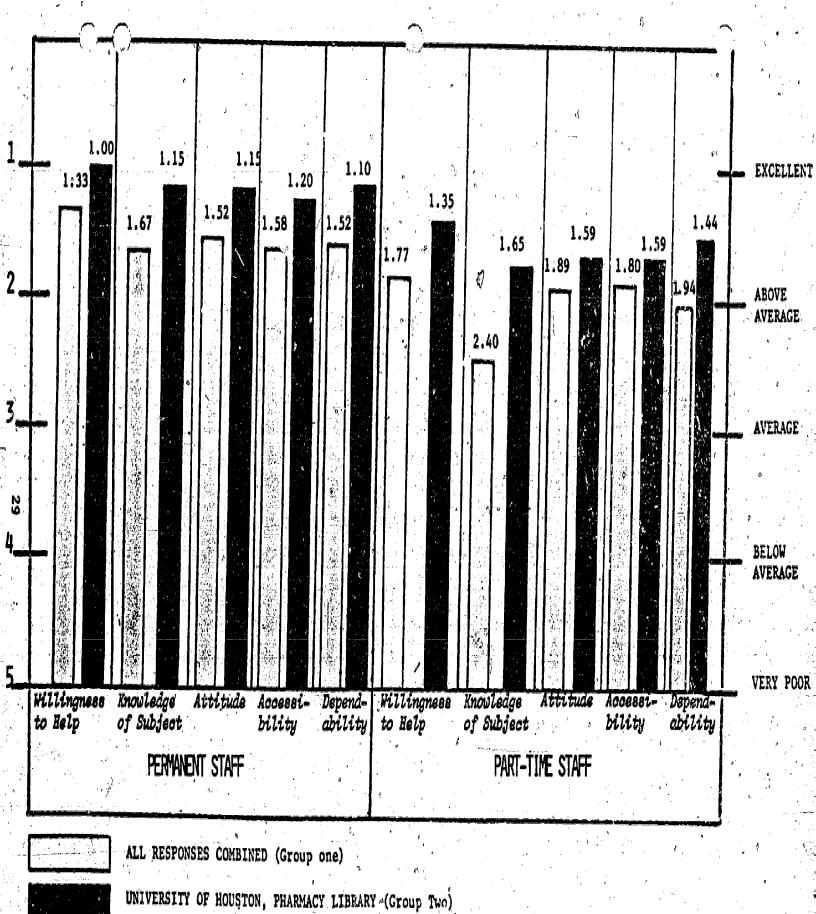
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	·		<u> </u>				ب	'				+		`
İ	SERVICES	7 /	2.0											
1		* /	:1179	4										٠.
	Hours library is Open				•								-	J. 1.
i .	Evenings Saturdays	188	72	38.3		. 80	42.6		18.1		1 2	1.1		1.82
1		182	36	19.8		69	37.9		28.€		25	13.7		2.37
1	Sundays	180	. 37	20.6		57	31.7	63	35.0	, ,	23	12.8		2.41
1	Length of Loan Period		•										,	
1	General Collection	186	85	45.7		85	45.7	13	7.0)	3	1.6	1	1.65
1 .	Bound Periadicals	181	59 .	32.6		95	52.5	18	9.9		. 8	4.4		1.88
ļ	Current Periodicals	1 30	58	32.2		89	49.4		13.9		8	4.5		.91
	Photocopying Services												, -	
١,	Staff Dependability	183	89	48.6	•	63	24.4	25					٥ .	
1	Machine Dependability	185	46			77					6 26	3.3		.72
١.		703		24.7		. "	41.0	36	19.3		20	14.1	*	2.23
Ι.	FACILITIES .						1.1						1.5	
	Study Area				. 1						,			• • •
ŀ	Ouiet	192	72	37.5	1	86	44.8	25	13.0		9	4.7		.85
4	Size of Arta	190	60	31.6	,		47.4		16.3		á	4.7		.94
	Lounge Area	180	49			71		46	25.6		14	7.8	-	.14
	Reference Area	188	58	30.9	٠.	. 96		30			- 4	2.1	_	. 89
	Micro Reading Room				. '	,	19				•	-,-	_	
	Size of Area	166	40	24.1		72	37.1	46	23.7		8	4.8	2	-13
	No. of Machines	165	33	20.0		80	- 48.5°	43	26.1		9	5.5		.17
- 7	COLLECTION			4	•								.,	
-				,	ż									
ı	Number of Books	190	51	26.8	•	101	53.2	31	16.3		7,	3.7	Ţ	.97
		189	57	30.2		88	46.6	36	19.0		8	74.2	1	.97
ي ا	Number of Journal Vols	188	53	27.3	*	89 -	***		20.7	٠.	. 7,	3.7	2	.00
'		155	23	14.8		80	51.6	40	25.8		12	7.7	. 2	. 28
		150	20	13.3			-52.0	41	27.3		. 11	7.4		. 29
		157		14.0	•	85	54.1	41	26.1		9	5.7		. 24
		154	22	14.3		86	55.8	35	22.7		11	7.1		.23
	Number of Ref. Material	184	64	34.8.		83	45.1	29	15.8	-	8	4.3	1	.90

Table ?.--User satisfaction survey. University of Houston College of Pharmacy Library users. Showing percent distribution by category rank

	TOTAL	Ехсе	NE 11ent		TWO e Average	Av	HREE erage . %	l .	UR Average I Z	Very	VE Poor %	Mear
	, 9,	No.	Z Z	No.	7		<u>` </u>	No.	<u> </u>		上二	<u> </u>
									. *		*	
						='						
STAFF						-			:			
_						•						
Permanent	20	20	100.0	0	۰0	0		n '	0	0	0	1.0
Willingness to Help	20			0	15.0		0		ñ	Ō	Õ	1.1
Knowledge of Subject	20	17	85.0	3		. 0	-	0	, ,	ň	ň	1.1
Attitude	20	17	85.0	3	15.0	0		Ō	ŭ	۸	ň	1.2
Accessibility	20	16	80.0	4	20.0	. 0	0	0 .	Ü		: 0	1.1
Dependability	20 🔑	18	90.0	2	10,0	a	0 .	* 0	U,		. 0	. 1.1
		.1				٠.	6				*	
Part-time	17	12	70.6	1.	23.5	1	5.9	0	0	0	0	1.3
Willingness to Help				ž	29.4	2	17.6	ñ	ň	Ō	0	1.6
Knowledge of Subject .	17	9	52.9			-		0	ŏ		ō	1.5
Attitude	17	10	58.8	. 4	23.5		17.6	Ü	0	0	ň	1.5
Accessibility	17	10	58.8	4	23.5	3	17.6	Ü	0 .	0	. 0	
Dependability	16 .	11	68.8	3	18.8	2	12.5	0	O	Ü	U	1.4

Table 9.--continued

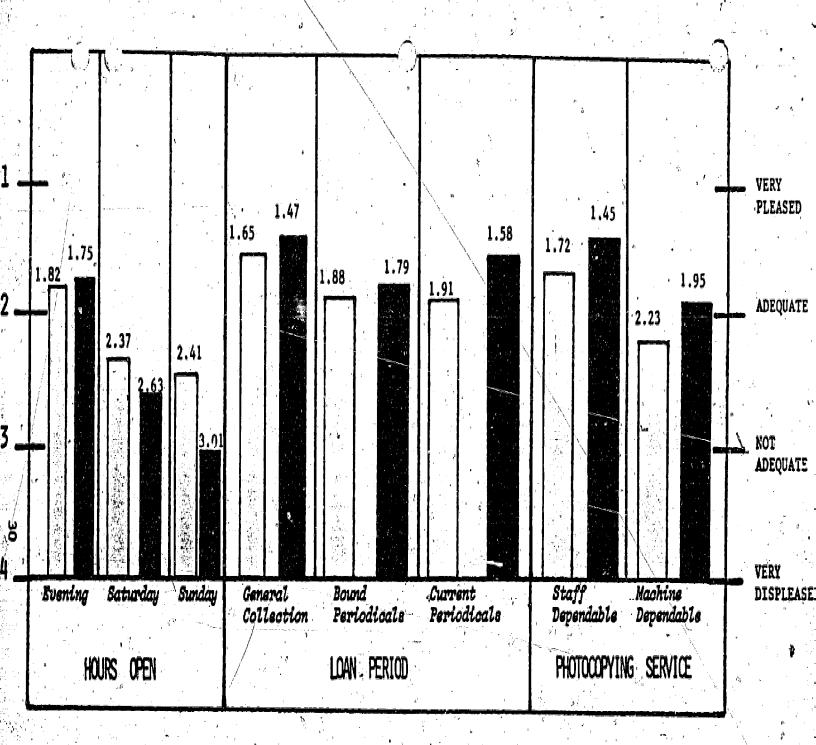
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The state of the s	е .	~ ONE	TWO	THREE	FOUR	
	1	Very		Not	Very	,
	Total	Pleased	Adequate	Adequate	Displeased	. ·
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- 1	No.1 %	No. 1- %	No 7	No. #	Mean
•		بالنايا		<u> </u>		<u> </u>
	1		·		6 .	
<u>SERVICES</u>						1
Hours library is Open	1 4	•	* _{*1}	3		3' 75
Evenings	20			3 15.0	0 0.0	1.75
Saturdays	16		» 4 25.0	3 31.3	6 37.5 6 40.0	2.63 3.01
Sundays	15	1 6.7	3 20.0	5 33.3	6 40.0	3.01
Length of Loan Period				•	e	
General Collection	19	10 52.6	9 47.4	0 0	0 0	1.47
Bound Periodicals	19	7 36.8		1 5.3	1 5.3	1.79
Current Periodicals	19	8 42.1	11 57.9°	0 0	0 0	1.58
الأمام. 			, ts *			
Photocopying Services	20	11 55.0	9 45.0	0 0	0 0	1.45
Staff Dependability Machine Dependability		5 25.0		2 10.0	1 5.0	1.95
machine Dependantitry	20 .		-			* *
FACILITIES				*		٠,
Study Area				Burney .	•	. • •
Ouiet	20	8 40.0	11 55.0	1 5.0	0,0	1.65
Size of Area	. 20	6 30.0	9 45.0	5 25.0		1.95
Lounge Area	20	5 25.0	13 65.0	2 10.0	0 0	1.85
Reference Area	20	10 50.0	10 50.0	00	0 0	1.50
Micro Reading Room		5.		3 15.0	00	1 80
Size of Area	20	7 35.0		315.0′ 3 15.0	0 0	1.80
No. of Machines	20	7 35.0	10 50.0	3 15.0	U . U	1.00
COLLECTION			*		5	
	20	10 50.0	9 45.0	1 5.0	0 0	1.55
Number of Books Number of Journal Titles	19	11 57.9	7 36.8	1 5.3	o o	1.47
Number of Journal Vols	20	10 50.0	8 40.0	2 10.0	ŏ ŏ	1.60
Number of Slides		4 22.2	12 66 7	2 11.1	o o	1.89
Number of Filestrips	1 -5	6 33.3	11 61.6	1 5.6	0 0	1.72
Number of Cassettes		6 35.3		2 11.8	0 0	1.77
Number of Microforms		4 23.5		2 11.8	0 . 0	1.88
Number of Ref. Material		11 57.9	7 36.8	1 5.3	0 \ 0	1.47
Mannet As des i meserges	J :				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<u> </u>



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Table 10.—User evaluation of library staff showing division by respondant groups

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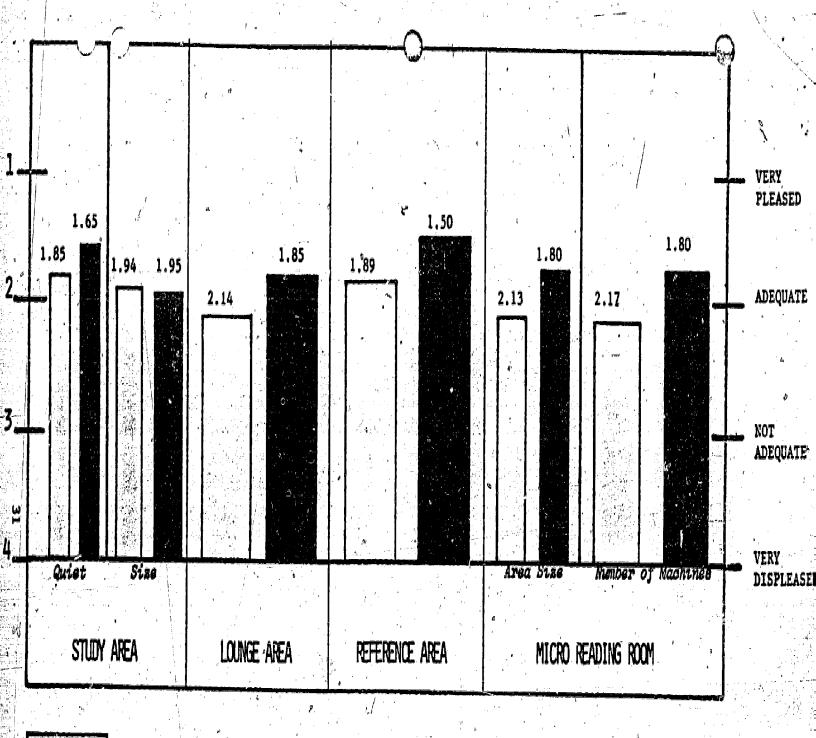




ALL RESPONSES COMBINED (Group One)

UNIVERSITY OF HOUSTON, PHARMACY LIBRARY (Group Two)

Table 11.--User evaluation of library services showing division by respondent groups



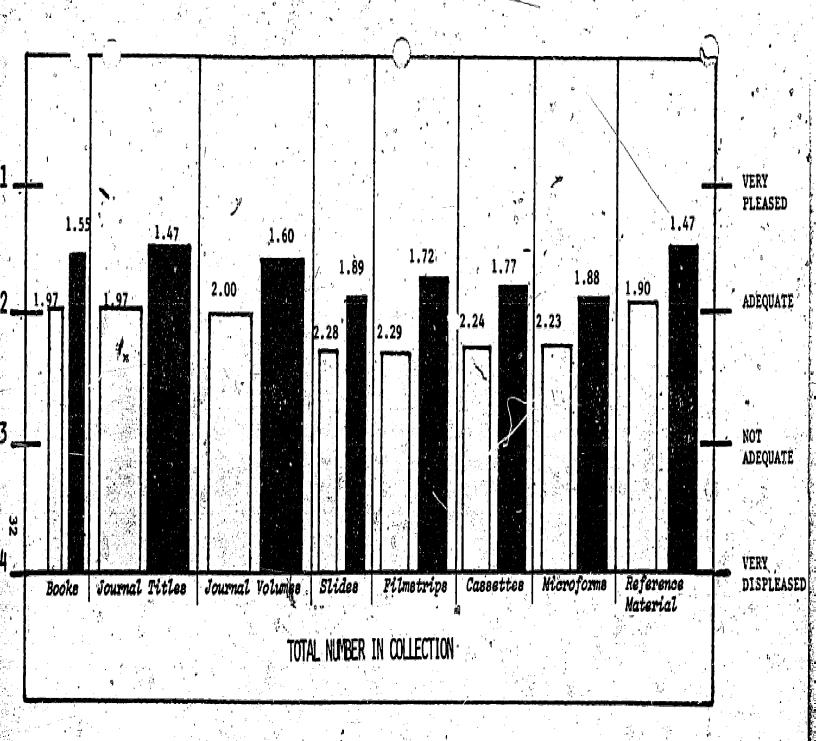
ALL RESPONSES COMBINED. (Group One)

UNIVERSITY OF HOUSTON, PHARMACY LIBRARY (Group Two)

Table-12.--User evaluation of library facilities showing division by respondent groups

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ALL RESPONSES COMBINED (Group One)

UNIVERSITY OF HOUSTON, PHARMACY LIBRARY (Group Two)

Table 13.--User evaluation of library collection showing division by respondant groups

CHAPTER VI CONCLUSION AND RECOMMENDATIONS

This report has sought to identify the present status of pharmacy libraries in general, with particular emphasis on the University of Houston Pharmacy Library, as viewed by both the pharmacy librarian and the typical library user. A library's optimum effectiveness is dependent upon the physical facilities, the collection, the services, and the library skills of its patrons. It was this premise that gave impetus to the methodological approach of this study.

The data collected in the "library survey" clearly indicates that the UH Pharmacy Library is strong in most areas surveyed when compared with the norm of other responding libraries. UH Pharmacy Library reported a higher response value in many categories for both questionnaires.

Physical Facilities

The physical facilities at the UH Pharmacy Library proved adequate in most areas. Of the nine reporting libraries, the UH Library was one of the two reporting an automated book detection security system. The five micro-machines at UH library proved more than adequate when considering the low number micro-material presently in the collection. The UH Pharmacy Library has recently moved into a newly expanded facility that provides a substantial increase in overall area. This new facility, as indicated in the survey, proved adequate but not optimum when compared to other responding libraries. Fifty percent of the libraries surveyed reported a facility with larger overall area than the 3,600 sq ft reported by the UH Pharmacy Library.

It was especially disconcerting to find the size of the stack area at UH in the lower thirtieth percentile. A recent projection at UH indicated an adequate area for collection expansion for the next six to eight years, with an option after that time for adding additional stacks. A partial answer to this dilemma is reflected in UH Library's low annual book acquisition rate.

Collection

The UH Pharmacy Library's response to the "Library Survey" indicated its annual book acquisitions rate to be 216, while the median figure for all libraries was 422. Though the latter figure nearly doubled the UH library total, it is not felt the collection at the UH library has been neglected, only that extreme care has been exhibited in the expenditure of book funds. An appreciable portion of each year's budget goes for purchase of reference materials and the first year's subscription cost of all newly acquired journals. The total amount available at the UH library for its monographic collection did not appear to be significantly different from the median amount figured for all responding libraries. For the year reported, the UH pharmacy library acquired new journal subscriptions at a much higher rate than the norm at the other responding libraries; 14 versus the overall median of 8.

It might be noted, that due to severe budgetary restraints of the main UH campus library, a serial review committee was established in the fall of 1978 to monitor all new journal requests. As a result, this past year has seen a drastic reduction of new journal purchases at the UH Pharmacy Library. In order to maintain full integrity of the collection in fulfilling the research needs of the faculty, a more unrestrictive approach to the acquisition of new journals should be found.

Operations & Services

Most libraries responding to the survey perceived themselves as emphasizing user service and personal assistance, the
UH Pharmacy Library being no exception. Personnel at the UH
Pharmacy Library take pride in their keen awareness to the needs
of the library user. The responses of the UH Library in this
portion of the survey largely paralleled those given by a significant number of other participating libraries. Most, including
the UH Library, considered top priorities to be: "provide personal assistance," "provide telephone reference assistance," and
"provide interlibrary loan service." The UH Pharmacy Library
also indicated a very high interest in "providing research assistance to faculty and students," while a large number of the
remaining group rated this service as a fairly low area of concern.

User Satisfaction

Concerning that portion of the survey dealing with user satisfaction, it was surprising to find such a significant difference between the overall rating of pharmacy libraries in general, and those ratings specific to the UH Pharmacy Library. The UH Pharmacy Library was rated higher in all but three categories, indicating a very high user success rate. It was made obvious by this survey, that users at the UH Library saw their library as successful in fulfilling the needs of the user. Two of the most criticized policies at the UH Library were the lack of study hours on Saturday and Sunday; presently the library is closed on both days. In the past, based on input from faculty and students, projected use of the library during these times did not seem to justify the additional staff needed to keep it open. However, in light of this recent trend, the possibility of extending library hours should be examined further.

The third area in which the UH Library rating fell below the norm of other responding libraries concerned the space allocated for personal study. In light of a future need to further reduce study area in lieu of collection-expansion, a thorough examination of possible ramifications should be undertaken.

Library Policy

It was surprising to find nearly one-half of all responding libraries without a written policy manual. At the time of the survey, UH Library was also included within this group; however, in recent months an extended effort has been made to formulate both a library policy manual and a library procedure manual.

Summary

The purpose of this report was to survey present facilities, services, and user satisfaction of pharmacy libraries throughout the country, in order to better access the effectiveness and user success at the University of Houston, College of Pharmacy Library. This study, although mainly intended as a statistical analysis of survey data, has sought also to uncover and assess certain strengths and weaknesses exhibited at the UH Pharmacy Library. This report did not accomplish all of its goals, nor was it uniformly successful in those it did attain; yet, the author hopes he has presented a significant insight into the present status of pharmacy libraries and their relationship with the library user, utilizing adequate statistical justification. Much of the data merely confirmed that which was already assumed, but in so doing, provided a framework for a further comprehensive evaluation within specific areas of concern.

The author has a direct investment in the UH Pharmacy Library and feels a commitment to its continued success along with the faculty and the students. The College of Pharmacy has given total support to the library and should certainly be commended again for its provision of an additional full time staff position. Excellence in both research and teaching continue as a high

priority of the College. Dean Buckley's pioneer research on hypertension has brought him National acclaim. The faculty are actively involved in research in a variety of areas. Success in federal funding has never been better, including state and local funds for research. It has been the goal of the Pharmacy Library for several years to match the excellence of the college with an excellence of library services and collection expansion. Continued strength and growth at all levels of library functions can only be guaranteed through a recommitment of library staff and the continued increase of financial support.

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APPENDIX A

QUESTIONNAIRE

The College of Pharmacy Library

Library the follo	Status (Please indicate your library's classification by checking one of owing categories).
$\frac{1}{\text{to the}}$	A branch library of the main campus library, located in close proximity College of Pharmacy. Please check if located in the same building
2.	A division, floor, room, etc. of the main campus library.
3.	An independent library.
4.	Other. Please explain.
<u>College</u>	of Pharmacy (Please fill in the appropriate number).
_5.	Total number of faculty.
6.	Total number of present undergraduates.
7.	Total number of present graduates. In Masters program In Pharm D program Other
Personne	l (Please fill in the appropriate numbers).
8.	Professional Librarian (MLS).
9.	Paraprofessional (BS, BA plus some administrative responsibilities).
10.	Clerical (Total clerical hours per week).
11.	Student (Total student hours per week).
12.	Other (Please specify).
Salaries	
	13. Professional Librarian (Check one)
	14. Paraprofessional (Check one)
lleri Eliza	15. Clerical (Per hour).
	16. Students (Per hour).
	17. Other. (Specify)
	on (Please fill in the appropriate numbers).
	18. Present number of monographs.
	19. Present number of bound journals.
	20. Present number of current periodical subscriptions.
	21. Present number of microforms. Fiche Film
	22. Present number of audio-visual materials. Slides Filmstrips Other. (Specify).

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23, P:	resently subscribe to CHEMICAL ABSTRACTS.
	Hard copy? Yes No Microfilm edition? Yes No .
24. Pr	resently subscribe to DEHAEN DRUG INFORMATION SYSTEM. In part? Yes No Which parts? Full subscription to all parts? Yes No
	fill in the approximate figures in sq/ft).
	Total area of library.
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The second of th	Lounge area.
28:	Staff work area.
29.	Reference area. Microform reading area.
	Other. (Specify).
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74.	Offer lectures to classes or groups.
 75.	Prepare acquisitions list for distribution at regular intervals.
76.	Prepare library newsletter for distribution at regular intervals.
77.	Prepare out-reach or instructional programs for the benefit of the library user. Printed . Audio . Visual .
	Provide inter-library loan service to: Faculty . Graduates
79.	Provide personal assistance (as conditions permit) to the library user.
	Provide telephone reference service to qualified callers.
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APPENDIX B

Dear Library User,

SCALE # ONE
A = EXCELLENT
B = ABOVE AVERAGE
C = AVERAGE

PHARMACY LIBRARY USER SURVEY

You have been selected to participate in a nationwide survey concerning user atisfaction at college of pharmacy libraries. This brief questionnaire is one of fifteen sent to each pharmacy library throughout the United States. If, for any reason, you cannot fill it out, please return it so that it can be given to another user. Remain anonymous by withholding your name or any other identification.

This survey is made possible by a grant from the University of Houston, and is being conducted by the Pharmacy Librarian at the same institution.

WHEN YOU HAVE COMPLETED THE QUESTIONNAIRE, PLEASE FOLD IT AS YOU WOULD A LETTER, STAPLE IT CLOSED, AND RETURN IT TO YOUR LIBRARIAN.

Thank You For Taking The Time:

OUESTIONNAIRE

Please rate your library's effectiveness in the following areas. In each blank, print the appropriate letter. A rating should be given each item, even though your library may not offer the service/facility etc.

IAFF (USE SCALE # ONE)	FACILITIES (USE SCALE # TWO)
l. Willingness to help	9. Study area
2. Knowledge of subject	of the \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
3. Attitude	Number of tables, etc
4. Accessibility	10. Lounge area
5. Dependability	11. Reference area
RVICES (USE SCALE # TWO)	12. Microform reading area
The boundary of the second of	Enough area
6. Hours library is open	Number of machines
Evening	COLLECTION (USE SCALE # TWO)
Saturday	13. Number of books
Sunday	14. Number of journal titles
General collection	15. Number of journal backfiles
Bound periodicals	16. Number of slides
Periodical dissues	17. Number of filmstrips
8. Photocopying Service	, 18. Number of cassettes
Staff dependability	19. Number of microforms
Machine dependability	20. Number of reference material