

THE GEROULD STATISTICS

1907/08-1961/62

Robert E. Molyneux

**Association of Research Libraries
Washington, D.C.
1986**

This publication is printed on a stable and enduring paper.

**Association of Research Libraries
1527 New Hampshire Avenue N.W.
Washington, D.C. 20036
(202) 232-2466**

ISBN 0-918006-11-2

THE GEROULD STATISTICS

The University of Minnesota
Minneapolis
THE GENERAL LIBRARY

STATISTICS OF STATE UNIVERSITY LIBRARIES. 1907-08.

	Books in Library	Added Last Year.	Spent for Books, per- iodicals & Binding.	Number Assist- ants.	Total Salaries
California	(2). 173000	11902	\$ 19709	15	\$17500.
Illinois	108383	12437	34714	30	18972
Indiana	70000	4500	10000	8	8500
Iowa	72300	5176	4250	6 (4)	5120
Kansas	62340	5265 (1)	8000	6	5050
Michigan	250000	18507	26500	32 (4)	20000
Minnesota	120000	9976	19129	13 (4)	12490
Missouri	(3) 101563	9013	11546	8 (4)	6740
Nebraska	81000	5275	14000	9 (4)	8150
N. Dakota	26421	1537	2823	2 (4)	1650
Ohio.	80000	4822	10000	10 (4)	9150
S. Dakota	14000	1500	2500	2 (4)	820
Washington.	35519	4398	7596	6 (4)	5940
Wisconsin	135000	13000	33293	19	17465

1. Exclusive of duplicates in class libraries.
2. Not including Bancroft Collection of about 30,000 volumes.
3. Includes pamphlets.
4. Not including student assistants or pages.

The first year of the Gerould data. Courtesy of the University Archives, University of Minnesota.

To Kendon Stubbs,
with thanks

TABLE OF CONTENTS

Acknowledgments	vii
Chapter 1. Introduction	1
1.1. Advantages of Looking at Library Data Over a Number of Years	1
1.1.1. Library Data Problems	
1.1.2. Comparability of Data	
1.2. An Overview of the Gerould Data, 1907/08--1961/62	4
1.2.1. Years the Gerould Data Were Issued	
1.2.2. Variables Reported in the Gerould Data	
1.2.3. Libraries Included in the Gerould Data	
1.2.4. Relationship of the Gerould and ARL Data Series	
1.3. Organization of This Study	9
Chapter 2. Method Used to Compile This Edition Of the Gerould Statistics	11
2.1. Overview	11
2.2. Compiling Data	11
2.3. Previous Compilations of Library Data	12
2.3.1. The Princeton and Purdue Compilations of Academic Library Data	
2.3.1.1. The Princeton Compilation of the Gerould Data	
2.3.1.1.1. Clerical Errors in the Princeton Compilation	
2.3.1.1.1.1. Rounding errors	
2.3.1.1.1.2. Transcription errors	
2.3.1.1.1.3. Other apparent clerical errors	
2.3.1.1.2. Intentional changes	
2.3.1.1.3. The Princeton Compilation: An Assessment	
2.3.1.2. The Purdue Data	
2.3.1.3. The ARL Compilation	
2.4. Principles Followed in Assembling this Edition of the Gerould Data	20
2.4.1. The Data Should be Published	
2.4.2. Publish Changes in the Data	
2.4.3. Use Authority Rather than Consistency as a Criterion For Changing Data	
2.4.3.1. How Principles of Authority Were Implemented	
2.4.3.2. Implications of the Use of Authority as an Editing Criterion	
2.4.4. Disclose Variant Data or Texts	

Chapter 3. The Gerould Data	25
3.1. Variables Recorded in the Gerould Data	25
3.1.1. Volumes Held	
3.1.2. Volumes Added	
3.1.3. Expenditures for Library Materials and Binding	
3.1.4. Appropriations	
3.1.5. Total Expenditures	
3.1.6. Total Staff	
3.1.7. Staff Salaries	
3.1.8. Student Wages	
3.2. The Gerould Data Tables	42
Chapter 4. Library Growth from 1907/08 to 1983/84	103
4.1. Overview	103
4.2. Academic Library Growth	103
4.2.1. History of the Study of Growth	
4.2.2. Measuring Library Growth	
4.2.3. Plots of Growth at ARL Libraries Included in the Gerould Data	114
Appendices	
1. Data Sources Consulted	209
2. Differences Found in the Values of Variables Reported by the Sources Of Gerould Statistics Consulted	219
3. Differences in Data Between the Gerould Statistics and the Princeton Compilation	237
4. Differences in Data Between the Gerould and Purdue Statistics	249
5. Machine Readable Version of the Gerould Data	263
References	267

ACKNOWLEDGMENTS

Many people have helped me during the course of the research on the Gerould data and I wish to thank them here. They should not be held responsible for errors in the text or in the analysis presented here.

Before thanking those who helped me in this study, it is appropriate to note that this book--and what we will learn from these data--would have been impossible without the pioneering work of James Thayer Gerould (1872-1951), who began this series of library data in 1908 and continued to compile it until he retired in 1938. By that time, the series had been established as making a useful contribution to the understanding of academic libraries. Gerould's work is continued today in the annual issues of the ARL Statistics and in the ACRL Statistics.

I would particularly like to thank Dr. Robert Broadus and Dr. Martin Dillon, both from the School of Library Science at the University of North Carolina, Dr. Melvin Hinich, Frank Erwin Professor of Government at the University of Texas, and Mr. Kendon Stubbs, Associate University Librarian at the University of Virginia. I would never have been able to contemplate a project of this scope nor to complete it without their support and encouragement. They helped in ways too numerous to list.

Ms. Nicola Daval of the Association of Research Libraries read the manuscript and had many helpful suggestions. Ms. Shirley Echelman, Executive Director of ARL, and a good reference librarian, ran down a nagging puzzle in the early history of the ARL data. Dr. Edward G. Holley, former Dean of the School of Library Science at the University of North Carolina, apparently taught me more about historical research than either of us might have suspected and was always ready to listen and to offer good advice. Dr. Robert Maloy, Director of the Smithsonian Institution Libraries, bravely offered to read a portion of the manuscript that I had had a great deal of difficulty with. My thanks go to them for their help.

Gathering the data turned out to be substantially more difficult than I had anticipated. Ms. Margaret O'Bryant, Ms. Irene Norvelle, Ms. Peggy Holley, and Mrs. Mary Kessler of the Interlibrary Loan Section at the University of Virginia sent requests for the original Gerould data to every library likely to have a copy. Their good spirits in spite of the meager returns from that effort was appreciated, as was the work of those working in interlibrary loan departments at the libraries receiving requests.

The Illinois collection of the annual issues of the original Gerould data included data from years before the academic year 1919/20. The consensus in the literature had been that 1919/20 was the first year of the series and, because Interlibrary Loan had been exhausted, a new tactic had to be found to locate all the early data. I asked Dr. Haynes McMullen, of the School of Library Science at the University of North Carolina, if he had any idea where to look. He went to his files and pulled out copies of what appears to be all the early years of the data!

Requests for information on Gerould were also sent to archives or manuscripts departments at a number of university libraries. The response I had from my vague inquiries was remarkable because those responding clearly had made my problem their problem and they supplied me with much useful information. I thank the following people for their help: Ms. Nancy Bartlett, Reference Archivist, Bentley Historical Library, University of Michigan; Mr. Maynard Brichford, University Archivist, University of Mr. Earle E. Coleman, University Archivist, Seeley G. Mudd Manuscript Library, Princeton University; Penelope Krosch, Archivist, University Archives, University of Minnesota; and Ms. Jean Preston, Curator of Manuscripts, Princeton University Library. I also thank Mr. Michael Plunkett, Associate Curator of Manuscripts, University of Virginia who introduced me to the files of Harry Clemons, former University Librarian at the University of Virginia.

Producing the tables, plots, and the machine readable version of the Gerould data involved using computers a good deal. I had help from Mr. Jeff Bromm and Mr. Bill Niebel both of whom are at the Administrative Computing Center at the University of Virginia; Ms. Patricia Blanton and Ms. Lynne Petterson, of the Institute for Research in the Social Sciences at the University of North Carolina; and Mr. Marvin McCauley of the Computation Center at the University of North Carolina.

Ms. Marie Carter and Ms. Sada Crismond, both of whom work in the General Office of Alderman Library at the University of Virginia, have been of great help during the work on this and other projects.

I would also like to thank the following organizations for their financial support: the Association of Research Libraries, the Council on Library Resources, the School of Library Science at the University of North Carolina, and the University of Virginia. I could not have finished this work without their help.

And thanks to Jean, again, for her encouragement, patience, and help.

CHAPTER 1

INTRODUCTION

The Association of Research Libraries has published statistics on its member libraries beginning with data from the 1961/62 academic year. The ARL data build on an earlier series that James Thayer Gerould began with university library data from 1907/08. At the time, Gerould was Librarian at the University of Minnesota. Gerould continued to publish the statistics after he moved to Princeton in 1920 and, after he retired in 1938, they were issued by staff members at Princeton library. The series is occasionally referred to as the "Princeton" statistics because of its connection with that university.

The purpose of this monograph is to make this early series of library data available in hardcopy, to serve as a guide to the machine readable version of the data which is also being made available, and to illustrate one use of the Gerould data by combining them with the ARL series.

Having data that begin so many years ago is a great advantage in analyzing the behavior of libraries through time. Time series analysis makes it possible to observe trends and to relate these trends and changes in them to events external to the library. If we can understand the relationship of the behavior of library variables and events in the economy, for instance, we will have taken a step toward an understanding of the behavior of libraries that would allow librarians to anticipate and prepare for the effects of economic events instead of merely reacting to them. In forming such an understanding, the more years of data we have to work with, the better.

1.1. Advantages of Looking at Library Data Over a Number of Years

Librarians have been collecting and reporting statistics as far back in time as the Alexandrian library, but while the statistics have been used, librarians have also been embarrassed by problems with them. These problems center around whether data from one institution are comparable to those from another. Before discussing the effects of the comparability question directly, and how analyzing data over time mitigates many of these effects, we will examine library data problems through the eyes of a man who may have been the first to describe them systematically.

1.1.1. Library Data Problems

Public Libraries in the United States of America (U.S. Bureau of Education, 1876) included a chapter on "Library Reports and Statistics" (Chapter XXXVII, pp. 745-836). Part of this chapter (pp. 746-761) was a study by "the eminent statistician M. Balbi" who had attempted to discover how many volumes were held by Europe's major libraries by comparing published reports. The tables included in the article show considerable variation

in the estimates of numbers of volumes held at these libraries. Balbi was, as he wrote, "disheartened by this surprising disparity of opinion." (p. 756) Balbi speculated about why this disparity existed:

National writers sometimes repeat, without any criticism whatever, the extravagant verbal or written estimates of an unscrupulous librarian, who thinks he adds to the fame of the collection intrusted [sic] to his charge by exaggerating the number of volumes it contains...(p. 756)

Balbi also observed that the number of volumes held by a library does not measure its importance (pp. 745), that different libraries counted volumes in different ways (p. 757), and that volume counts were not useful in comparing different libraries (pp. 745-746).

Balbi's observations have been echoed in numerous subsequent articles although the data we have today are better. We have an advantage over Balbi because statistics like those published by ARL are collected in a systematic fashion and published annually. The statistics Balbi used were not collected systematically but were collected for one year in one source, another year in another source. The inherent advantages of collecting data in a systematic fashion over a number of years by one source are dealt with elsewhere (Molyneux, 1984, pp. 48-53) but can be summarized here. First, compilers of these kinds of data make an attempt to obtain uniform and continuous data. Data collected sporadically by different agencies during different years using different definitions will probably be neither uniform in definition nor available for all years in a series. These conditions are important because we cannot know that changes observed between two years of data are real or artifacts of the means of collection unless we can have confidence that the data from one year are comparable in definition with data from another. The second advantage of data collected systematically becomes clear in considering variables that have not been collected before. Experience has shown that when new data items are added to the ARL Statistics, they tend to fluctuate erratically in the first few years. This experience seems to indicate that the advantages of data collected systematically over a number of years is more than a matter of editorial control by the compiler of the data because adjustments are being made by the reporting libraries. Perhaps the libraries collecting data do a better job as they grow more experienced in counting variables. A collection of data published one time has neither the attempt at uniformity nor the advantage gained by the experience of counting and reporting a variable over many years.

1.1.2. Comparability of Data

If the available library data have not been collected using uniform definitions, it is difficult to make comparisons between reporting libraries. Comparability of data can be of at least four different types:

1. Within year comparability: are two institutions reporting comparable data in a given year?
2. Comparability between two series of data: for example, are the Gerould and ARL series reporting comparable data?
3. Between year comparability for one institution: for example, are the data reported for Michigan in 1970 comparable with the data reported for Michigan in 1980?

4. Comparability between institutions over time: are two institutions which reported comparable data in one year reporting comparable data in another year?

The latter two will not be dealt with in detail here. There are cases where data from an institution change definition from one year to the next but they are uncommon and usually relatively easy to see. Comparability of data between institutions over time involves the possibility that definitions used by two institutions may be comparable one year and drift apart over a period of time. Whether definitional drift exists will be left for future study.

It is widely held that library data for any given year are collected in so many different ways that comparing, say, the numbers of volumes held at two different institutions is not likely to be useful because they were probably estimated using two different definitions. The view that there are problems in the first type of comparability, comparability between the data from different institutions within a given year, is often presented in absolute terms: if there is any difficulty with the definitions or methods of collecting data used by any two institutions, then no comparisons are valid.

The absolute view is certainly too stringent, especially considering the fact that the subject has not been studied. Comparability is relative, not absolute, and depends on the question at hand and the characteristics of the variables. The general perception that within year comparability is a serious problem causes results of analysis of library data to be questioned, regardless of the merit either of the perception or the analysis.

The second type of comparability is that between two series of data. For example, is the definition of a volume reported in 1950 in the Gerould data the same as the definition of a volume reported in 1970 in the ARL data? There is evidence presented below to believe that these series are comparable.

In spite of questions of within year comparability between institutions, we can draw useful information out of these data by studying library variables over a number of years. Studies of library variables for a given year, often called "cross sectional," are of value but the time series approach has advantages: it mitigates a few of the bad effects of different ways of counting a variable. In effect, within year comparability, which is suspect, is traded for two questions neither of which is suspect: comparability of data between the ARL and Gerould series, or comparability of the data from one institution between two different years. Observing variables over time also mitigates the effects of year to year fluctuations that many library variables are prone to and that seem to fuel arguments that the data lack within year comparability.

In addition to overcoming certain kinds of problems that arise with these data, this approach has an advantage in creating a more dynamic picture of libraries. Observing library variables over time can lead to understanding how libraries behave in relation to changes in their environments. If we understand the nature of this relationship, we can understand more about the libraries and be able to predict future behavior. Clearly, the better we understand how libraries respond to factors in their environments such as periods of recession or inflation, the better our predictions. And the more years of data we have to examine--as long as these data are comparable--the better that understanding is likely to be. Using the ARL data from their beginning in 1961/62 through today allows us to study a considerable period. Because the Gerould data go back further, are a predecessor to the ARL data, and deal with so many of the same libraries, they should be

of considerable value in understanding and predicting the behavior of large academic libraries.

We shall turn now to a look at this series so we can understand the general structure of the Gerould data.

1.2. An Overview of the Gerould Data, 1907/08--1961/62

There is no history of the Gerould data, which is unfortunate because such a history would be of great help in understanding the data. In this section, a general look at these data is presented.

1.2.1. Years the Gerould Data Were Issued

Issues of the data were found for the academic years 1907/08, 1909/10, 1911/12 through 1942/43, and 1944/45 through 1961/62. It appears that the original intention was to issue the data every two years, or so it might be deduced from a 1913 letter from Gerould soliciting information for the next compilation. This letter says, in part, "I have been requested by a number of libraries to compile and publish annually rather than biennially the statistics of university and college libraries" (Gerould, 1913). The statistics solicited in this letter would have been for 1912/13 so it seems reasonable to conclude that previous years of the statistics were issued biennially and that there would have been no data for 1908/09 and 1910/11. In addition, there were probably no statistics for 1905/06. Gerould gave a talk at the 1906 ALA meeting at Narragansett Pier entitled "A Plan for the Compilation of Comparative University and College Library Statistics." The printed version of this talk appeared in the November, 1906 Library Journal. A footnote reports that a committee had been appointed to consider Gerould's recommendations about collecting statistics (Gerould, 1906 p. 763). It seems likely that there was no issue of the data for 1905/06, given that the 1905/06 data would have been collected late in 1906, and that Gerould probably would have allowed time for the committee to report before undertaking compilation of the data himself.

Beginning in 1911/12, the data were issued continuously through 1942/43 although not, apparently, for 1943/44. A letter from the secretary of Julian Boyd, Librarian at Princeton, to Harry Clemons, Librarian at the University of Virginia blames "the war and the shortage of paper" for there being no issue for this year (Boyd, 1945). These data did finally appear in the 1947 College and University Library Statistics, 1919/20 to 1943/44 which was a compilation of data for the first 25 years they were issued at Princeton (Princeton, 1947). The data from 1943/44 in the present edition of the Gerould data come from the 1947 compilation. This early compilation will be referred to a great deal and in order to avoid confusing it with the annual sheets of data, it will be called the "Princeton Compilation" while the annual issues--including even those issued after Gerould's retirement in 1938--will be referred to as the "Gerould" statistics.

1.2.2. Variables Reported in the Gerould Data

The first issue of the Gerould data reports volumes held, volumes added, the dollar expenditures for materials and for salaries, and the number of staff members. The next issue, 1909/10, adds "appropriations," which is the amount budgeted for materi-

expenditures in the current fiscal year. The amount paid in wages was added in 1949/50. Appropriations were dropped in 1953/54, the same year that "total expenditures" were added. Total expenditures were defined as the sum of materials expenditures and the expenditures for salaries and wages.

It will be argued in section 1.2.4. below that the Gerould series is the foundation upon which the Association of Research Libraries built its statistical series. If we consider these series together, we can see a pattern of change in what has been collected. The Gerould data report expenditures for materials and binding while the ARL Statistics disaggregate binding expenditures from materials expenditures and report each separately. The volumes added figure reported by Gerould is a gross figure which does not take into account discards or theft while ARL now reports volumes added net and volumes added gross. Other operating expenditures, which have grown recently (Stubbs, 1985), were separated from total expenditures by ARL. In addition to the process of disaggregating data into its constituent elements, items have been dropped (for example, the figure for appropriations) and others added (for example, interlibrary loan figures). Over the years these statistical series have adapted and changed as requirements for data have changed. This process continues today as ARL is attempting in a formal fashion to consider different data items which may be of use to its member libraries. One purpose for the ARL Supplementary Statistics, 1983-84 (Molyneux and Stubbs, 1985) is to find new data elements that will shed light on library problems. An example of a new variable being investigated is the amount expended for automation, which is an increasingly important part of the library budget. It may also be that this expenditure category can help explain why operating expenditures, where computer expenses usually are included, have been growing.

1.2.3. Libraries Included in the Gerould Data

The institutions that have data reported in any year of the Gerould statistics are given on pages 6 and 7 in Table 1 with the range of years each reported. There are 60 institutions in this list. A number of these institutions, such as the University of California, Berkeley, report data for every year, and two, McGill and Toronto, report data for only two years. Twelve libraries not currently members of ARL are in this list (Bryn Mawr, Joint University Libraries, Mt. Holyoke, North Dakota, Oberlin, St. Louis, Smith, South Dakota, Vassar, Wellesley, Wesleyan, and Western Reserve). St. Louis was a member of ARL and reported data from 1963 through 1973. The Joint University Libraries, which joined ARL in 1946, last reported data in 1979 although one of its parts, Vanderbilt, began reporting data in 1980. Western Reserve merged with Case Institute to form Case Western Reserve which first reported data in 1969.

Nine of the institutions in Table 1 did not report data for all years in the range of years given. These institutions are indicated by asterisks. Appendix 5, which discusses the machine readable version of these data in detail, includes a list of all such missing years. For most uses of machine readable data, the institution number in the left hand column is easier to use than the institution name. With the forms of the names of the institutions used here, the alphabetical arrangement of Table 1 results in the same order as that for these institution numbers. The form of the name used is according to current practice so that "Leland Stanford Jr. University" appears here as "Stanford," for example. Occasionally when space is a consideration, abbreviations are used (for example, "UCLA" for "California, Los Angeles"), but the order in Table 1 is used throughout the tables, plots, and machine readable data.

TABLE 1

INSTITUTIONS REPORTING DATA IN THE GEROULD STATISTICS

Institution Number	Institution	Range of Years
800	Brown	1911/12--1961/62
830	Bryn Mawr	1923/24--1950/51
900	California, Berkeley	1907/08--1961/62
1100	California, Los Angeles	1929/30--1961/62
1600	Chicago	1911/12--1961/62
1700	Cincinnati	1940/41--1961/62
1800	Colorado	1917/18--1961/62*
2000	Columbia	1911/12--1961/62
2200	Cornell	1911/12--1961/62
2300	Dartmouth	1913/14--1950/51*
2400	Duke	1928/29--1961/62
2600	Florida	1956/57--1961/62
3100	Harvard	1913/14--1961/62*
3500	Illinois	1907/08--1961/62
3600	Indiana	1907/08--1961/62
3700	Iowa	1907/08--1961/62
3800	Iowa State	1927/28--1961/62
3900	Johns Hopkins	1911/12--1961/62
4000	Joint University	1936/37--1961/62
4100	Kansas	1907/08--1961/62
4300	Kentucky	1951/52--1961/62
4400	Louisiana State	1938/39--1961/62
4500	McGill	1949/50--1950/51
4900	Massachusetts Institute of Technology	1938/39--1961/62
5100	Michigan	1907/08--1961/62
5200	Michigan State	1957/58--1961/62
5300	Minnesota	1907/08--1961/62
5400	Missouri	1907/08--1961/62
5490	Mt. Holyoke	1940/41--1950/51
5500	Nebraska	1907/08--1961/62*
5700	New York	1935/36--1961/62
5800	North Carolina	1921/22--1961/62
5860	North Dakota	1907/08--1950/51
5900	Northwestern	1912/13--1961/62*
6030	Oberlin	1913/14--1950/51
6100	Ohio State	1907/08--1961/62
6400	Oregon	1921/22--1950/51

TABLE 1
(Continued)

INSTITUTIONS REPORTING DATA IN THE GEROULD STATISTICS

Institution Number	Institution	Range of Years
6500	Pennsylvania	1911/12--1961/62
6700	Pittsburgh	1942/43--1950/51
6800	Princeton	1911/12--1961/62
6900	Purdue	1956/57--1961/62
7200	Rochester	1925/26--1961/62
7300	Rutgers	1940/41--1961/62*
7350	St. Louis	1942/43--1950/51
7390	Smith	1923/24--1950/51
7430	South Dakota	1907/08--1924/25
7700	Stanford	1911/12--1961/62
8200	Temple	1940/41--1950/51
8400	Texas	1913/14--1961/62*
8600	Toronto	1949/50--1950/51
8860	Vassar	1923/24--1950/51
8900	Virginia	1921/22--1961/62
9100	Washington	1907/08--1961/62
9200	Washington State	1942/43--1950/51
9300	Washington U.--St. Louis	1922/23--1961/62
9420	Wellesley	1925/26--1950/51
9440	Weslyan	1946/47--1950/51
9520	Western Reserve	1942/43--1950/51
9600	Wisconsin	1907/08--1961/62*
9700	Yale	1911/12--1961/62

* Indicates that data are not reported for all years in the range.

There are 17 institutions listed in Table 1 that stopped reporting data in 1950/51. Of these, 14 were not then ARL members although five (Oregon, Pittsburgh, St. Louis Temple, and Washington State) joined subsequently. It is not clear why data from these libraries were dropped from but a short article by "VWC" [probably Verner W. Clapp] in 1951 may provide a clue. In noting the receipt of the statistics for 1949/50, the following statement appeared:

These statistics are highly regarded by college and university librarians, and when Princeton, because of the difficulties of compilation, suggested their suspension approximately a year ago, the Association of Research Libraries hastened to urge continuance and to offer assistance in compilation. (Clapp, p. 15)

We can infer that Princeton was evaluating whether to continue compiling the data and that it was later decided to continue the data only for the ARL members. Why three ARL member libraries (Dartmouth, Toronto, and McGill) were also dropped from the Gerould data after 1950/51 is not known.

The institution numbers listed in Table 1 are similar to those used in the ARL machine readable data, to facilitate splicing the Gerould and ARL series together. Institution numbers were developed by Stubbs and Buxton for the ARL data and are listed in the Cumulated ARL University Library Statistics, 1962-63 through 1978-79, which serves as the guide to the ARL tape (Stubbs and Buxton, 1981). In subsequent years, new institution numbers as have been added as new institutions have joined ARL. The ARL institution numbers have three digits while the Gerould numbers have four. In order to give the non-ARL libraries institution numbers, it was necessary to expand the Stubbs-Buxton numbering system which was done by multiplying the ARL numbers by 10. If the machine readable form of the Gerould data is to be joined with the machine readable form of the ARL data, it is necessary to multiply the latter institution numbers by 10 to make the two numbering systems compatible. The one exception to this general rule occurs with the institution numbers of St. Louis (which does not report data after 1973/74) and Saskatchewan (which first reports data in 1979/80). These institutions were inadvertently given the same number (735) for tapes produced from 1981 through 1985, when Saskatchewan's number was changed to 737.

1.2.4. Relationship of the Gerould and ARL Data Series

The ARL statistics were intended to continue the Gerould data. The connection between these two series is apparent from Clapp's statement quoted above but there is other evidence.

In 1961/62, both sets of data were issued. The Gerould data for that year include data on 42 institutions while the ARL data has information on 64 institutions. All institutions in the Gerould data are also in the ARL data. The ARL data also report two more variables, "Total Library Expenditure" and "% of Total Lib. Exp. Spent for books, etc." There is, of course, substantial overlap with seven variables from 42 institutions reported in both issues of data. For those data items which overlap, the values reported in the two series are the same. This fact indicates that the two series used common definitions and means of collecting data in this year, at least.

The minutes of the sixth meeting of the ARL Board of Directors record that "It was agreed that the Secretariat should assume responsibility for publishing ARL statistics in lieu of the 'Princeton Statistics'." (ARL Minutes, January 28, 1963, item 8) How this decision was arrived at is not clear but two facts probably contributed to the decision. After Gerould's retirement in 1938, the person at Princeton who seems to have had the most to do with the compilation was Lawrence Heyl, who retired in 1962. If the series had been continued at Princeton, someone else would have had to do the work. The Librarian at Princeton at the time was William Dix, who would have made the decision about who was to compile the statistics after Heyl's retirement. Dix was also Chairman of ARL. It seems reasonable to speculate that there is a connection between these facts and that Dix wished to be free of the burden of compiling these data.

1.3. Organization of This Study

There are four chapters and five appendices. Chapter 1, of course, includes introductory matters.

Chapter 2 discusses the methodology used in compiling these data. The Princeton Compilation and the data compiled for the Purdue studies (Dunn, Seibert, and Scheuneman, 1965) are discussed in order to show flaws in the approach of both that were taken into account here. The cumulation of the ARL data done by Stubbs and Buxton is also examined and serves as a model for the present cumulation of the Gerould data. Appendices 1 through 4 are also a part of the methodological discussion. Appendix 1 lists the different issues of the Gerould data consulted for this edition and Appendix 2 lists variant values found between these different issues. Appendix 3 lists differences between the values reported by the Princeton Compilation and this edition of the Gerould data while Appendix 4 lists differences between values reported in this edition of the Gerould and the Purdue data.

Chapter 3 is largely made up of tables of the data, arranged by institution and then by year, but it begins with a discussion of the variables reported by Gerould with a comparison of the definitions of the Gerould variables and the related ARL variables.

Chapter 4 explores one use that the Gerould data can be put to. By joining data from institutions which report in both the Gerould and ARL series, we can shed light on questions of interest. In this chapter, library growth is examined using plots of data from the two series.

Appendix 5 contains the documentation for the machine readable version of the Gerould data and the data in the Princeton Compilation.

All bibliographic references in the text can be found at the end of the text on pages 267-268.

CHAPTER 2

METHOD USED TO COMPILE THIS EDITION OF THE GEROULD STATISTICS

2.1. Overview

This chapter will present the methodology used to assemble this edition of the Gerould statistics from the annual sheets of data issued by Gerould and the Princeton University library from 1907/08 through 1961/62. The statistics themselves are listed in Chapter 3. The principles followed in compiling the present edition were derived after a consideration of characteristics of the Gerould data and of three other compilations of library data: the edition of the Gerould data done at Princeton, the data used in the Purdue studies, and the compilation of the ARL statistics published in 1981.

As in Chapter 1, the term "Gerould" data is used here to mean the annual sheets of academic library data issued both by Gerould from 1907/08 through 1938/39 and by staff members of the Princeton library through 1961/62; "Princeton Compilation" (or "Compilation") refers to the compilation of the annual data for the years 1919/20 through 1943/44 done at Princeton in 1947.

Before dealing with the Princeton and Purdue series, factors that should be considered in compiling data will be discussed briefly in order to make the issues involved clearer.

2.2. Compiling Data

Compiling data means collecting them.

Although statistics collected from libraries should reflect the true values, there is likely to be uncertainty in measuring any library variables, with the amount of that uncertainty of measurement (often referred to as measurement error) dependent on the characteristics of the variable. The variable reporting the number of volumes held is usually a large number and collected over many years by summing volumes added with the previous year's number of volumes held. Recounts of the number of volumes held in a library, of course, are rare. These characteristics imply that errors in measurement or in reporting the value in one year will be perpetuated in subsequent years. Variables measuring staffing, on the other hand, will have relatively little measurement error because control over the numbers of staff is comparatively tight, the numbers reported are relatively small, and they are collected each year so that errors are not continued year after year.

ARL compiles statistics on its member libraries each year and is often able to help correct errors introduced by the process of compilation itself, either in measurement or in reporting. For instance, if the volumes added at an institution were to increase or decrease by an inordinately large amount, an inquiry can be made about whether the correct number has been reported. More sophisticated means of detecting possible errors, which take into account characteristics of variables and their relationships with other variables, are being developed. Of course, errors are caught by reporting institutions after

the publication of the ARL Statistics, and these errors are reported by errata or in the ARL Newsletter.

ARL can make inquiries about possible errors because the people who collected the statistics at the libraries are still at these libraries. Correcting possible errors that have been discovered is relatively easy if only a little time has elapsed since the data were reported but what happens if an apparent error occurs with a variable reported ten or twenty years ago? A problem faced in compiling this edition of the Gerould data is similar to that faced in the Princeton, Purdue, and ARL compilations: the data were published years ago so that apparent errors whether in measurement or reporting cannot be checked with anyone who knows what the facts are. For this reason, few changes in data are possible in the case of suspected errors that are more than a few years old.

2.3. Previous Compilations of Library Data

There have been three major compilations of previously existing library data and two, those done at Princeton and Purdue, which are alike in several important ways, will be examined first to discover the methodologies that were used to compile these library data. The later compilation of the ARL data done by Stubbs and Buxton in 1981 will be considered subsequently.

The purpose of discussing these compilations is to build on the methodologies used in assembling them. Unfortunately, the methodological notes made by the compilers of these series are sparse and the methodologies have to be divined by considering what was said about methodology and what was actually done with the data. The means apparently used to compile the Princeton and Purdue series, to the extent they can be understood, are not adequate for emulation in compiling this edition of the Gerould data nor can the Princeton Compilation be used as a source of data for it. The ARL compilation will be shown to be a good model for the present compilation of the Gerould data.

2.3.1. The Princeton and Purdue Compilations of Academic Library Data

The series of data examined first are those done at Princeton and at Purdue. The Princeton Compilation was a printed edition of twenty-five years of the Gerould data. The Purdue data were assembled from a variety of sources for nine studies, all entitled The Past and Likely Future of 58 Research Libraries. The data were never printed, although they were made available in a deck of computer cards.

Three kinds of problems arise with the two compilations:

1. There are apparent mistranscriptions of data and other minor errors, such as apparent errors in rounding. These kinds of errors are generally not serious not only because they are usually small--the rounding errors differ from the correct values by only 1--but also because they are probably not systematic. Analyzing the data as a time series will generally allow seeing the trends in the data accurately if the errors are random or the mistranscriptions rare.

2. The methodologies used were not explicitly stated so that it is not possible to know with certainty what was done. Stating the methodology allows others to judge whether the steps taken were proper and to compensate if they were not. There is virtually no methodological discussion in the Princeton Compilation and little in the Purdue studies so that we often cannot say unequivocally what was done with the data.

3. The compilers of the Purdue data explicitly stated that they interpolated data, and the compilers of the Princeton data apparently did also. For reasons given below, interpolation is not an acceptable practice in compiling data. Because there is little methodological discussion in either compilation, it is impossible to compensate for interpolated data or even to identify them.

2.3.1.1. The Princeton Compilation of the Gerould Data

The data collected and published originally from 1919/20 through 1942/43 first by Gerould and, after Gerould's retirement, by the staff at Princeton were reissued with the data for 1943/44 as College and University Library Statistics (Princeton, 1947). The Foreword includes a few remarks by Lawrence Heyl, who was Associate Librarian at Princeton, about how the data were assembled for that edition. The data had originally been issued each year, of course, but the Compilation is arranged by institution. When the compilers rearranged the data by institution they noted what Heyl called "inconsistencies" from year to year. Letters were sent to various libraries (which ones are not recorded) asking for clarification. Copies of an exchange of such letters between Heyl and Harry Clemons, Librarian at the University of Virginia are at Alderman Library at the University of Virginia (Clemons, 1946).

In a letter to Clemons on February 6, 1946, Heyl says:

...we are trying to clear up a few questions concerning former years. In your case we do not have a figure for Volumes Added for the year 1921/22. For Expenditures for 1933/34 we have the figure 40,264, although the year before it was 27,827 and the year after it was 29,766. Will you also please check the figures for salaries for the following years:

1941/42	\$81,089
1942/43	70,192
1943/44	93,150

On February 9, 1946, Clemons replied to Heyl. He had been unable to locate figures for volumes added in 1921/22 but the expenditure figures were correct. He also noted that a mistake had been made on the salaries:

...those for 1942/43 and 1943/44 include full time Staff only while that for 1941/42 includes both full time and part time Staff. Our records are as follows:-

<u>Year</u>	<u>1941/42</u>	<u>1942/43</u>	<u>1943/44</u>
Full time	\$78,509.42	\$70,191.84	\$93,150.39
Part time	2,580.00	4,737.50	550.00
Total	81,089.42	74,929.34	93,700.39
Student	11,265.74	12,345.87	11,988.25
Grand total	\$92,353.16	\$87,275.21	\$105,688.64

It appears from Clemons's reply that the salaries for 1941/42 were calculated in a different fashion from those in the other years. In the Princeton Compilation, the figure for salaries in 1941/42 is reported as \$78,509. The other two values questioned by Heyl are unchanged. For reasons given on page 18, the figure used in the present compilation is the uncorrected figure, \$81,089.

Two changes were made to values from Virginia in the Compilation that were not discussed in this exchange of letters. Appendix 3, which lists differences between the values reported in the edition of the Gerould data presented here and those reported in the Compilation, shows that Virginia's volumes added for 1933/34 appear in the annual issue as 16,566, while in the Compilation this number is given as 16,586; in 1936/37 expenditures are given in the annual issue as \$29,006.74 and in the Compilation as \$29,807. While these changes may have been made as a result of a second set of letters between Heyl and Clemons which has not been found, there is reason to be skeptical of this explanation. It seems more likely that errors were introduced in the text of these data during the process of compiling the data.

Although it is impossible to be sure the Compilation introduces errors, it seems likely that many of the differences between the values reported in the annual issues of these data and the values reported in the Compilation are the result of inadvertent clerical mistakes in the latter's execution. This judgment is based on circumstantial evidence which is reviewed next in section 2.3.1.1.1. Intentional changes in the data will be examined in section 2.3.1.1.2. As a result of the evidence presented in these sections, it will be seen that the Compilation is flawed.

2.3.1.1.1. Clerical Errors in the Princeton Compilation

2.3.1.1.1.1. Rounding Errors

The Princeton Compilation reports no fractional values (except for a few cases in the number of staff members) so there are no values to the right of decimal points in the Compilation while there are in the most of the annual issues of these data. There are many cases (on the order of several hundred) where there are apparent errors in rounding the values from the annual issues in the Compilation. For example, the 1931/32 annual issue reports that Brown appropriated \$64,067.65 while the Compilation reports \$64,067. The amount expended, however, is correct: \$68,567.58 is rounded to \$68,568.

There is no readily discernible pattern to these many apparent errors. It should be noted that apparent rounding errors are also seen in Rider's data (Molyneux, 1986a) and in the Purdue data (see section 2.3.1.2.).

2.3.1.1.1.2. Transcription Errors

The change in Virginia's volumes added for 1934/35 from 16,566 in the annual issue to 16,586 in the Compilation is probably a transcription error. The difference between the two numbers is small--they differ by only one digit--and it is doubtful whether any method used to discover inconsistent values would pick out this year's volumes added for scrutiny (1933/34's volumes added is given as 16,846; 1935/36's as 16,693). On the other hand, it is relatively easy to imagine the difference between these two numbers is a result of typing an "8" instead of a "6" in one place. The change in materials expenditures may

also be a transcription error. The original value, \$29,006.74, should have been rounded to \$29,007 which could have been typed as \$29,807 by mistyping one digit.

In an attempt to understand what might have happened, it is worthwhile to consider how this Compilation was done. Data in machine readable form can be rearranged accurately and easily in a fraction of a second--a fact that can lead us to overlook how difficult it would have been to take data arranged by year and rearrange them by institution without the aid of computers. It can only be speculated about how the process was carried out but the data were probably copied from the individual annual sheets to some kind of work sheet and then typed in a final copy. In such a process, there are many opportunities for mistranscription and Appendix 3 displays many apparent mistranscriptions.

2.3.1.1.1.3. Other Apparent Clerical Errors

There are cases where the discrepancies between the values reported in the annual issues of the Gerould data and the Compilation show a more subtle relationship. Consider these values for volumes added for Washington University at St. Louis as given in the annual issues of the Gerould data and in the Princeton Compilation:

Year	Gerould	Princeton
1926/27	16,584	16,584
1927/28	7,420	16,584
1928/29	8,934	7,420
1929/30	6,256	8,934
1930/31	12,322	6,256
1931/32	12,322	12,322
1932/33	7,445	9,310
1933/34	4,998	7,445
1934/35	7,840	4,998
1935/36	7,426	7,840
1936/37	7,077	7,426
1937/38	6,288	7,077

For most years, the values reported in the annual issues are the same as those reported for the next year in the Compilation. When the values were reported originally, it would have been impossible to report in a given year the number of volumes that would be added in the next, so the values in the Compilation which repeat the previous year's values in the annual issues must be wrong. A clerical mistake was probably made in transcribing the data.

The values reported in the issues of the Gerould data for 1930/31 and 1931/32 are not likely to be right either because it is unlikely that the same number of volumes were added two years in a row and this fact is as obvious now as it would have been in 1946. For this reason, it may be that the changes in the Compilation were intentional and should be considered with the intentional changes below. However, a change like the one made here, which is logically impossible, could not be the result of a consideration of documents and records at this library. Intentional changes, though, can be either a result of a process like that followed by Clemons with the salary figures or for the sake of expediency. An expedient change is one made to make the numbers consistent according to some ideal without regard to the truth. This kind of change would be inadvisable because, while consistency is a reasonable criterion to use in trying to spot possible

wrong numbers with a view to writing letters about them, it is not a sufficient criterion for deciding which numbers should be changed. This point is discussed further below.

Apparent clerical errors like those described introduce changes in the text of the data presented in the annual issues. Other changes were intentional--the editorial changes that resulted from exchanges of letters like that between Heyl and Clemons mentioned above. Two of these changes will be discussed next.

2.3.1.1.2. Intentional Changes

It is impossible to be sure that apparent intentional changes are not the result of clerical errors but two changes made in the data between the annual issues and the Compilation, one minor and one major, do not seem accidental.

A minor change is shown in the figures for volumes held for Indiana from 1929/30 through 1931/32 as given in the Gerould data and the Princeton Compilation:

Year	Gerould	Princeton
1929/30	218,344	218,344
1930/31	218,800	232,800
1931/32	247,320	247,320

The Gerould figure for 1930/31 seems unlikely and it is easy to understand how such an "inconsistency" could have come to an editor's attention.

Numerous changes occur in the values of variables reported for Illinois for all years of the data in the Compilation. The variable recording the number of volumes held will be focused on here because it seems to be the key to all the changes. Bear in mind that the annual issue from 1943/44 was not published so the present edition of the Gerould data uses the data from the Princeton Compilation for this year. Consider the following sample of volumes held, according to the issues of the Gerould statistics and the Princeton Compilation:

Year	Gerould	Princeton
1919/20	440,372	549,873
.....		
1929/30	841,395	1,006,900
.....		
1939/40	1,209,977	1,618,579
1940/41	1,262,046	1,687,847
1941/42	1,306,561	1,765,203
1942/43	1,364,906	1,834,437
1943/44	1,881,432	1,881,432

The few years listed above give an indication of a systematic change in the values for volumes held for each year of the data from Illinois. There is a similar systematic change in the number of volumes added by year.

The big change in volumes held occurs between 1942/43 and 1943/44. We know from the letter from Heyl to Clemons that work on the Compilation was going on in early 1946. Shortly after Robert B. Downs became librarian at Illinois in 1943, he argued that the

basis of the volume count should be the bibliographic, not the physical volume (Downs, 1946; see also Kuhlman, 1960). One effect of this change, apparently, was the 500,000 volume leap in that we see between 1942/43 and 1943/44.

It is reasonable to speculate that someone decided to make the data consistent with this new definition because it seems unlikely that anyone at Illinois recorded the number of bibliographic volumes from 1919/20 until 1943/44, so the numbers were probably interpolated, that is, made up. How it was done is not clear and given that these events occurred almost forty years ago, it is not surprising that Downs has no recollection of how the changes were made (Downs, 1985).

2.3.1.1.3. The Princeton Compilation: An Assessment

There are fundamental and serious problems with interpolating or making any other kinds of expedient changes in an edition of data. If an incorrect value can be documented, it should be changed, not because it is inconsistent according to some theory, but because it is proven to be wrong and a better value is known. Consistency is a reasonable criterion for examining data for anomalies, but not for changing values; numbers should not be changed unless the changes are documented authoritatively. There are several reasons for advancing this argument:

1. Until we are certain that we understand the behavior of library variables well enough to know what is consistent behavior and what is not, we should be careful about changing data.
2. Future research is limited when numbers are altered because potentially useful information is thrown away. Techniques may be developed in the future that will allow others to use data not useable today.
3. We should not use theories to derive numbers; we should derive our theories from numbers.

Consider a result of interpolation. To interpolate data there must be an implicit idea of how the data should be arranged. For example, in 1946 the best evidence about how academic libraries grew indicated they grew exponentially. If data on volumes or volumes added were to be interpolated, this theory of the nature of library growth might be the basis for filling in the missing numbers. There is now evidence (discussed in Chapter 4) that library growth is not an exponential phenomenon but subsequent research on the nature of growth using interpolated numbers would, naturally, discover an exponential series of numbers. This research would conclude growth was exponential (assuming this pattern was the basis of the interpolation) without being aware the results were biased.

The changes in volumes held at Indiana in 1930/31, and also those for Illinois, may be the result of the same kind of careful checking as Clemons apparently did when he checked the Virginia records but we do not know, and from what has been shown here about the Compilation there is ample reason to doubt whether such care was exercised. Because the suspicion that expedient changes have been made that could bias results and because we cannot distinguish between these kinds of changes or between clerical and documented changes, it was concluded the Compilation could not be used as a basis for this edition of these data except for 1943/44, a year the annual Gerould data were not

issued. Unfortunately, in not using the changes in the Compilation we will not correct values in the annual issues that were at one time known to be wrong. The cost of not documenting changes is high.

Subsequent research on the Princeton Compilation may give us sufficient understanding of what was done to make changes in the text of the Gerould data. Until that time, however, no changes which arose as a part of the Compilation, including the value for salaries at Virginia in 1941/42 are included in the present edition.

It was recognized others might disagree with the reasoning which led to excluding the data from the Princeton Compilation so these data have been included on the tape of the machine readable Gerould data. Appendix 5 discusses this tape.

One cause for concern with the data published after Gerould's retirement in 1938 is that the same people who assembled the Princeton Compilation and made the conceptual error of interpolating and the errors of execution like rounding or mistranscribing, also compiled the annual sheets of the data from 1938 through 1961/62, which are accepted as authoritative for the present edition. Interpolating data is the serious problem but it is impossible to interpolate with only one year's worth of data at a time. The unintentional errors probably exist but perhaps to a lesser extent because collecting one year's worth of data at a time would have been substantially less complex than collecting many years and, hence, more checking would have been possible.

2.3.1.2. The Purdue Data

A series of studies entitled The Past and Likely Future of 58 Research Libraries was conducted at Purdue from 1965 through 1973 using data assembled for those studies (Dunn, Seibert, and Scheuneman, 1965). Unlike the Princeton Compilation, which was an attempt to present a corrected edition of one series of data, the Purdue data resulted from an amalgamation of several series of data. The resulting set of data overlaps the Gerould data from 1950/51 through 1961/62. Appendix 4 presents a comparison of these two sets of data for this period.

In general, the same kinds of problems arise in the Purdue data as arose in the Princeton Compilation. There are apparent mistranscriptions and apparent rounding errors (which come from the source of the data used by the compilers). There are also cases of interpolation as the section on Procedures points out:

....In other cases, omitted data could be supplied by interpolation, extrapolation, or other calculations from the data at hand. (p. 5)

In addition to these apparent errors and interpolations, there is a question of comparability between two different series of data: what happens when numbers from different series of data derived perhaps from different definitions are intermingled? It is not clear how this matter was handled. Also, the compilers of the Purdue data report no values as

missing. Although instances where values are not reported are a common occurrence in library data, there are none in this series, a fact which, along with interpolating data, leads to curious cases. Consider the figures for volumes added for Indiana for the years 1954/55 through 1962/63 in the Purdue data, the source given by Purdue for its data, the Gerould data, and the ARL data:

Year	Purdue	Purdue Source	Gerould	ARL
1954/55	30,000	*	*	NP
1955/56	83,000	*	*	NP
1956/57	46,500	*	*	NP
1957/58	82,500	*	*	NP
1958/59	69,000	*	*	NP
1959/60	59,000	*	*	NP
1960/61	97,000	*	*	NP
1961/62	102,100	*	*	*
1962/63	0	*	NP	*

(The symbol "*" is used to denote that the source of the data records a missing value for volumes added for Indiana in the given year. "NP" indicates the data were not published in the given year. The value for 1962/63 given here is not noted in Appendix 4 because it does not overlap with a Gerould value.)

Indiana reported values for volumes added to 1953/54 and after 1963/64 but not during this interval. It is not clear where the values reported by Purdue came from. They may have been interpolated, calculated "from data at hand" by an unstated formula, or arrived at by another means. The "0" for 1962/63 apparently comes from converting a missing value to zero. Appendix 4 shows other cases where this same conversion seems to have been done, particularly the figures for the wages reported at various libraries.

The objections raised to the means used to assemble the Princeton Compilation apply as well, then, to the Purdue data.

The principles used to compile the ARL data will be considered next. It will be seen that the method used to assemble this compilation is superior to that followed in the Princeton and Purdue compilations.

2.3.1.3. The ARL Compilation

The Cumulated ARL University Library Statistics, 1962-63 through 1978-79 was compiled by Kendon Stubbs and David Buxton and published in 1981 by the Association of Research Libraries (Stubbs and Buxton, 1981). In addition to printing the data, a tape of the ARL data was made available. The printed edition of the data has not been updated, although subsequent years of data are available in machine readable form and in the annual issues of the ARL Statistics.

In contrast to the complicated methodologies that seem to have been followed in compiling the Princeton and Purdue series, the method followed by Stubbs and Buxton was simple: to reproduce what was found in the annual issues of ARL's statistics, while incorporating "all corrections reported to the ARL Office for the annual editions of the ARL statistics." After a short discussion of changes not made in the data and sources of

confusion in them, the compilers say: "These vagaries in data collection over the years stand here as they appeared in the original annual issues of the statistics (unless corrections were reported by individual libraries)." (p. v.)

Since the publication of these data, a few mistranscriptions have been reported in the ARL Newsletter and one case where a correction which apparently was not made properly in the ARL files (Molyneux, 1984, p. 57) was also reported. But there is no question of interpolated data in this series and the data can be used without fear of bias introduced in the process of compiling the data.

The present compilation will follow the lead of the ARL compilation and attempt to reproduce what appears in the annual issues "as they appeared in the original annual issues of the statistics." In addition to this goal, other aspects of the ARL compilation will be followed with additions as dictated by the special circumstances of these data. For example, these data exist in a number of different editions and it is not always clear what the correct number is because of these conflicting texts, so a means of deciding which number is correct in cases of disputes had to be derived. The principles followed here are discussed next.

2.4. Principles Followed in Assembling this Edition of the Gerould Data

A set of principles has been followed in compiling the data presented here. In the discussion of these principles, references are made to Appendix 1 where the sources of the Gerould data consulted are given, and Appendix 2, which lists variant values of Gerould data found in the different sources used.

The purpose in describing these principles is twofold. The first is obvious from the discussions of the Princeton and Purdue compilations: to make explicit what was done so future work with the data will not be hampered by the kinds of ambiguities that impede analysis using either of these two series of data. The second purpose for the following discussion is to start the development of a method or set of practices which can be used in compiling library data. By stating these principles explicitly, others can use them and can contribute to the development of the methodology, just as making the Gerould data available in an explicit fashion allows others to contribute to our understanding of this series of data. This discussion borrows from and attempts to add to the principles followed by Stubbs and Buxton in compiling the ARL data.

2.4.1. The Data Should be Published

The first principle is that the data should be published in both machine readable form and hardcopy, if possible. Publication makes the data and the studies derived from them better by bringing to bear a scholarly apparatus that can be regarded as a means of focusing the efforts of people separated by place and time on a problem. To be more specific:

1. The act of publishing the data will make them better because more care will be taken by the compiler. There is a tendency in using machine readable data to ignore the data after a level of confidence in their integrity is reached so results are often considered without reference to the data. Publishing the data is a discipline that forces the compiler to look at the data carefully.

2. Publishing the data in an accessible medium allows others to examine them. If the list of figures of volumes added for Indiana compiled at Purdue had been published in hardcopy, then anyone could have seen that no volumes are reportedly added in 1962/63 and this number could have been corrected. The Purdue data were made available only in machine readable form which makes inspection of the data difficult for anyone who does not have access to a computer.

3. If the data are published and readily available then research can be replicated. Replication of research results is important in advancing our knowledge in most disciplines. If a piece of research cannot be replicated by someone other than the original researcher, then there is reason to be skeptical of it.

This principle means that the data are fully disclosed. A result of this disclosure is that the problems in the data, for example its "inconsistencies," are visible to anyone who cares to look. The alternative is not to publish the data, thereby hiding "inconsistencies," but then the advantages of disclosure, three of which are given here, are lost. It should be clear that if we are to improve the data that we should disclose them.

2.4.2. Publish Changes in the Data

Clerical problems like rounding and transcription errors are inevitable in any edition of data--no matter how strenuous the effort to check for accuracy. In spite of repeated checks of the Gerould data presented here, cases of miskeying will be discovered and this fact must be accepted and addressed. A problem with the Princeton Compilation, the Purdue data, and the major sources of the Purdue data is that there was no mechanism for correcting known errors because there was no means to publish the changes. As a result, someone using the data today would use data containing errors that at one time were known but are not any longer. It should be noted again: the cost of not documenting changes is high.

Corrections to this edition of the Gerould data will be reported in the ARL Newsletter, following the practice of reporting errors in the ARL Statistics or the ARL cumulation there.

2.4.3. Use Authority Rather Than Consistency as a Criterion for Changing Data

In order to avoid the problems inherent in the Princeton and Purdue compilations, this edition uses textual authority as the guiding principle. Using the textual authority of a document or a number is an attempt to reconstruct what the author (or compiler) of a text had decided the correct numbers were.

Consistency and authority certainly are not antithetical principles in examining data. Consistency is a criterion to be used in examining data for possible incorrect values but not for changing data. Authority, however, is a criterion that can be used to examine and to change data provided that the change was the compiler's intent. Consistency could be used to suggest places to look for numbers that are not correct and whose authority should be checked.

The next section (2.4.3.1.) will discuss how the criterion of authority was implemented in the construction of this edition of the Gerould data. The following section (2.4.3.2.) will discuss a few of the implications of this approach to compiling data.

2.4.3.1. How Principles of Authority Were Implemented

Appendixes 1 and 2 go into detail in the matters addressed here. This section will serve as a general statement of what was done to collect the Gerould data for this edition.

The following principles of textual authority have been applied in reverse order of precedence, so the second listed principle takes precedence over the first, and the third over the second and first.

1. The original text, where there is one, is the source of data.
2. In cases where there are two or more issues of the Gerould data for a given year, the version put out by Gerould is the source. The Gerould data, particularly the early years, exist in a number of different copies done on different typewriters and probably done at different places by different people. Because each retyping increases the possibility of introducing new errors in the text, we should use Gerould's issue. (The problem of variant annual issues of the data does not exist after Gerould retired.) This question is discussed further in Appendix 2.
3. In two kinds of cases there is a higher authority than the Gerould text. There are a few errata to individual values in the annual issues of the data listed in the second part of Appendix 1. These errata have precedence over the values in the original copies of the data because they correct mistakes noted in the copy of the data after it was distributed or because they add data reported late. In a few cases, the errata have not been found but are presumed to exist because of the nature of the corrections made in individual issues of the data. A second kind of higher authority is a case where the source Gerould used for his data exists. In this case, which is discussed in Appendix 2 under Texas, 1913/14, Gerould appears to have mistranscribed a number.

There are comparatively few cases where there is more than one possible value for a variable and these principles of authority were sufficient to adjudicate all but a handful of them. In the cases where these principles were not adequate, other means were used. All cases where there is more than one possible value are listed in Appendix 2 and it can be seen that these principles were applied rigorously except in one case (see the listing for Louisiana State, 1954/55 in part 1 of Appendix 2.)

2.4.3.2. Implications of the Use of Authority as an Editing Criterion

The chief implication of the use of authority as an editing criterion for a series of data is that an edition of data compiled by it is a deliberate attempt to reconstruct what the original compiler intended the numbers to be. We cannot correct errors of measurement or errors that arose in compiling the data, nor can we ever know the true values of the variables, so the original compiler's intent is the best guess that can be made today

about those true values. In a compilation using authority, there are no interpolations over existing or missing values; the data appear in their raw state.

The chief advantage of this approach is that it does not introduce changes in a text for reasons that may be biased in an unclear fashion and which may interfere with future research. Of course, if research is based on these data, the person doing the research can interpolate or change whatever seems reasonable (although it should be made clear in reporting results where and how it is done). However, the restrictions on compiling data should be more stringent than those on using data because a case of undocumented interpolation in a series of data cannot be undone and will affect conclusions arrived at using the series in unknown ways.

Textual authority, as described here, has been applied rigorously in compiling this edition of the Gerould data and while such rigor limits the kinds of bias that can come from expedient changes, there are disadvantages because data that seem extremely suspicious may be included. In addition, in rejecting several possible values as lacking sufficient authority (as indicated in Appendix 2), possibly wrong values were included in the text. Part 2 of this Appendix lists values that may be preferred to the values chosen. Another disadvantage not directly related to the others is that techniques used on what might be considered sanitized versions of data may not help elucidate how the libraries or their variables behave with these data. New techniques may have to be developed.

2.4.4. Disclose Variant Data or Texts

If the changes made at Princeton had been documented, the present edition could have built on that work and added to it. Because this earlier work was not documented and because no one is likely to remember what happened in sufficient detail to be useful, the effort that went into it is lost. Documenting what has been done is another way of permitting different people at different places and times to build on and, if necessary, correct earlier work.

What should be disclosed and documented?

1. The sources of data consulted.

New copies of the raw data may be found which may shed light on a value for which there is more than one possibility.

Appendix 1 lists the sources consulted.

2. Errata consulted.

Any new erratum is a important discovery and it is necessary to alert anyone who discovers one that it is new.

Part 2 of Appendix 1 lists errata consulted.

3. Variant values with good authority.

By disclosing variant values that have good authority, places where there are questions are made explicit. This practice has the great advantage of alerting others to these questions and thereby bringing other views or even other copies of data to bear on them. Also, in applying the principle of textual authority, a conclusion was arrived at that one of the two main Gerould texts was the correct one. This conclusion was based on circumstantial evidence and may prove to be wrong. In that case, the choices made between the values which differ between the editions arranged by name and by size will have to be changed. Disclosing those differences makes correcting this potential problem relatively easy.

Appendix 2 lists the variant values.

4. Variant values without good authority but which may be correct.

Applying the principles used here can lead to cases where the authority for a decision is impeccable but the value chosen is likely to be wrong. These few cases are listed in part 2 of Appendix 2.

In addition to the items which should be disclosed in presenting the data, an implication of the principles of authority and of disclosing as much as possible about the data affects how changes in this edition of the Gerould data should be reported in the ARL Newsletter. The authority for the change should be given. If the change results from the discovery of a typographical error that fact should be noted. Other changes should be documented.

CHAPTER 3

THE GEROULD DATA

The bulk of this chapter is made up of the tables of the Gerould data. The first section, 3.1, contains a discussion of the variables, and section 3.2 contains the data.

Are the Gerould variables comparable to similar variables reported by the Association of Research Libraries in its annual statistics? This question is important because if we can examine data stretching back to 1907/08, we have a means to understand libraries better than we do now. The question is partly a matter of definition. The definitions of the variables are dealt with below in the sections that discuss the Gerould variables, and it appears the definitions employed are close enough to permit splicing the two series together. However, whether these two sets of data use comparable definitions is more than a question of definition; it is a matter of scholarly consensus that can only be formed after the data have been studied. Chapter 4 contains the first attempt to join the Gerould and ARL series by examining the old question of library growth using data from both series.

Two general discussions of library variables by Stubbs and Buxton (1981, pp. vii-xiii) and by Hayes et al. (1983, pp. 297-306) provide background on the variables found in the ARL data and are helpful in understanding variables in the Gerould statistics.

3.1. The Variables Recorded in the Gerould Data

Eight variables are reported in the Gerould statistics: volumes held, volumes added, expenditures for materials, staff, salaries, appropriations (for materials expenditures in the current year), total expenditures, and wages. The latter three are not recorded in all years. These variables will be discussed in the following pages. Plots are included in the case of five variables (volumes added, materials expenditures, appropriations, total staff, and total salaries) to give a general picture of their behavior over the years of the data. In plots of dollar figures, it is usually best to use dollar figures discounted for inflation, usually referred to as "real" dollars. However, there is a clear suspicion that methods of calculating real dollars using indices such as the Consumer Price Index underestimate the effects of inflation on libraries. Until an accepted means of calculating "real" dollars in a library setting is developed, the plots of raw expenditures should be viewed with care.

Before discussing the variables themselves, the structure of the plots will be examined. These plots show the mean value of the given variables for the twelve university libraries that report data in both 1907/08 and 1961/62. This group of libraries will give a general picture of the five variables over the entire period. The twelve institutions are:

California, Berkeley
Illinois
Indiana
Iowa
Kansas
Michigan

Minnesota
Missouri
Nebraska
Ohio State
Washington
Wisconsin

The rationale of grouping library data is dealt with in detail elsewhere (Molyneux, 1984, pp. 53-61) but can be briefly summarized for this discussion. Grouping data from a number of libraries allows us to form a picture of trends while limiting distractions caused by fluctuations in the data. Grouping, therefore, is a useful technique for "damping" the kinds of fluctuations that occur with library variables.

The horizontal axis in each of the plots is the same and covers the period of the data. The vertical axis is different for each of the plots except that of appropriations, which are plotted with the same vertical axis as expenditures in order to make comparisons between the two easier.

Tables showing the values plotted are directly opposite the respective plots.

3.1.1. Volumes Held

The number of volumes a library holds is probably the oldest and most frequently referred to library statistic. This variable is reported for all years of these data.

One of the problems with using volumes to compare libraries is that there is no accepted definition of what a volume is. The two most widely accepted definitions are the physical volume and the bibliographic volume, a distinction discussed by Downs (1946) and Kuhlman (1960). Whatever kinds of volumes are being measured, they have increased greatly over the years of these data. The twelve libraries listed above had an average of 107,425 volumes in 1907/08--or "Books in Library" as that year's statistics reported--and by 1961/62 this number had risen to 1,772,831 (and 4,040,578 in 1983/84 according to the ARL data).

For any library, volumes held should increase steadily without any declines, unless there is a disaster, such as a fire. However, this statistic, as reported in the ARL data and in the Gerould data, occasionally declines from one year to the next, often for no apparent reason. This kind of drop in volumes held may be a result of mistakes in reporting, changes in a library's definition of a volume, or new and more accurate estimates of volumes held. While these kinds of fluctuations do not seem logical, they do occur. Grouping libraries, as with the 12 featured in the plots, will obscure fluctuations like a decline in volumes at one library.

Given the range of these numbers and the fact that the increase is steady, a plot of the mean value of volumes held at the twelve libraries would not contribute much to our understanding of these libraries.

3.1.2. Volumes Added

While the number of volumes held at an academic library is a indicator of the past commitment of its parent institution, the number of volumes added is an indicator of a continuing commitment. If two libraries of the same size were observed over a decade and one added twice as many volumes as the other, it would be reasonable to conclude the one that added the larger number of volumes had more institutional support and, in addition, a more up-to-date collection than the other.

The annual issues of the ARL Statistics record volumes added gross and volumes added net. The Gerould figure probably corresponds to volumes added gross, that is, volumes added without taking into account volumes that were discarded or lost. In 1962/63, the first year the distinction was drawn between the two kinds of volumes added, only 25 of the 63 libraries reporting had figures for volumes added net while 60 reported figures for volumes added gross. These figures indicate that there was more familiarity with the gross category, probably because it had been used longer. In fact, of the three libraries not reporting volumes added gross, Syracuse and Wayne State are not included in the Gerould data. The third library was Indiana which, as was noted in section 2.2.2., did not report volumes added from 1954/55 through 1962/63.

Figure 3-1 is a plot of the mean value of the number of volumes added for the 12 libraries being used here to illustrate the behavior of Gerould variables. This Figure and the values plotted are found on the following two pages.

Figure 3-1 on the opposite page plots the number of volumes added for the 12 libraries. The mean number of volumes added, by year, for the 12 institutions is:

Year	Mean Volumes Added	Year	Mean Volumes Added
1907/08	8,689	1935/36	21,660
1908/09	*	1936/37	24,379
1909/10	10,976	1937/38	27,014
1910/11	*	1938/39	25,400
1911/12	12,245	1939/40	25,988
1912/13	11,420	1940/41	28,445
1913/14	13,771	1941/42	28,319
1914/15	14,090	1942/43	24,588
1915/16	13,831	1943/44	25,066
1916/17	13,276	1944/45	24,551
1917/18	11,670	1945/46	33,841
1918/19	11,780	1946/47	31,168
1919/20	11,614	1947/48	46,369
1920/21	13,144	1948/49	37,839
1921/22	16,747	1949/50	37,199
1922/23	15,357	1950/51	42,677
1923/24	15,508	1951/52	42,262
1924/25	17,518	1952/53	46,191
1925/26	17,398	1953/54	52,215
1926/27	18,638	1954/55	51,159
1927/28	22,104	1955/56	52,948
1928/29	19,915	1956/57	54,343
1929/30	22,604	1957/58	57,517
1930/31	21,941	1958/59	56,701
1931/32	22,414	1959/60	61,988
1932/33	19,748	1960/61	66,465
1933/34	18,475	1961/62	76,068
1934/35	18,915		

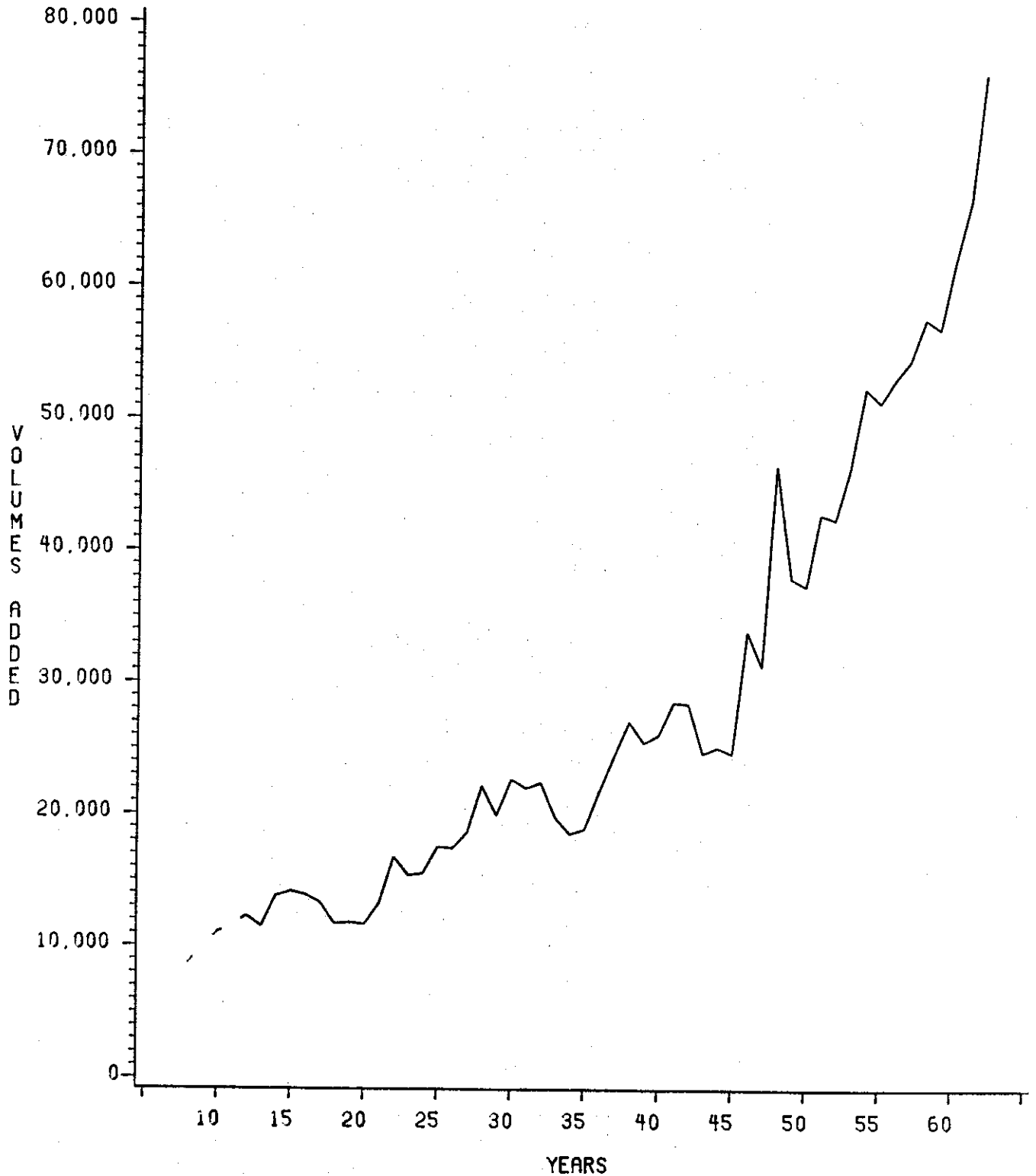
The number of volumes added for these libraries fluctuates from year to year but it can be seen that the number of volumes added annually increased over the period. There are drops in the annual levels of volumes added during the period of World Wars I and II. There is also a drop in the early 1930's which is probably a result of the Depression.

Chapter 4 deals further with library growth.

FIGURE 3-1

AVERAGE VOLUMES ADDED

AT 12 UNIVERSITY LIBRARIES
BY YEAR, 1907/08-1961/62



3.1.3. Expenditures for Library Materials and Binding

The first issue of the Gerould statistics reports the amount "Spent for Books, periodicals & Binding [sic]," and this amount is reported for all subsequent years of the data. Issues of ARL Statistics currently separate expenditures for books and for binding. Serials expenditures, a subset of materials expenditures, is also reported. Binding expenditures were first separated in 1962/63 and expenditures for serials in 1975/76. In order to make the data from the Gerould series comparable to those from ARL, the disaggregation of these data will have to be taken into account.

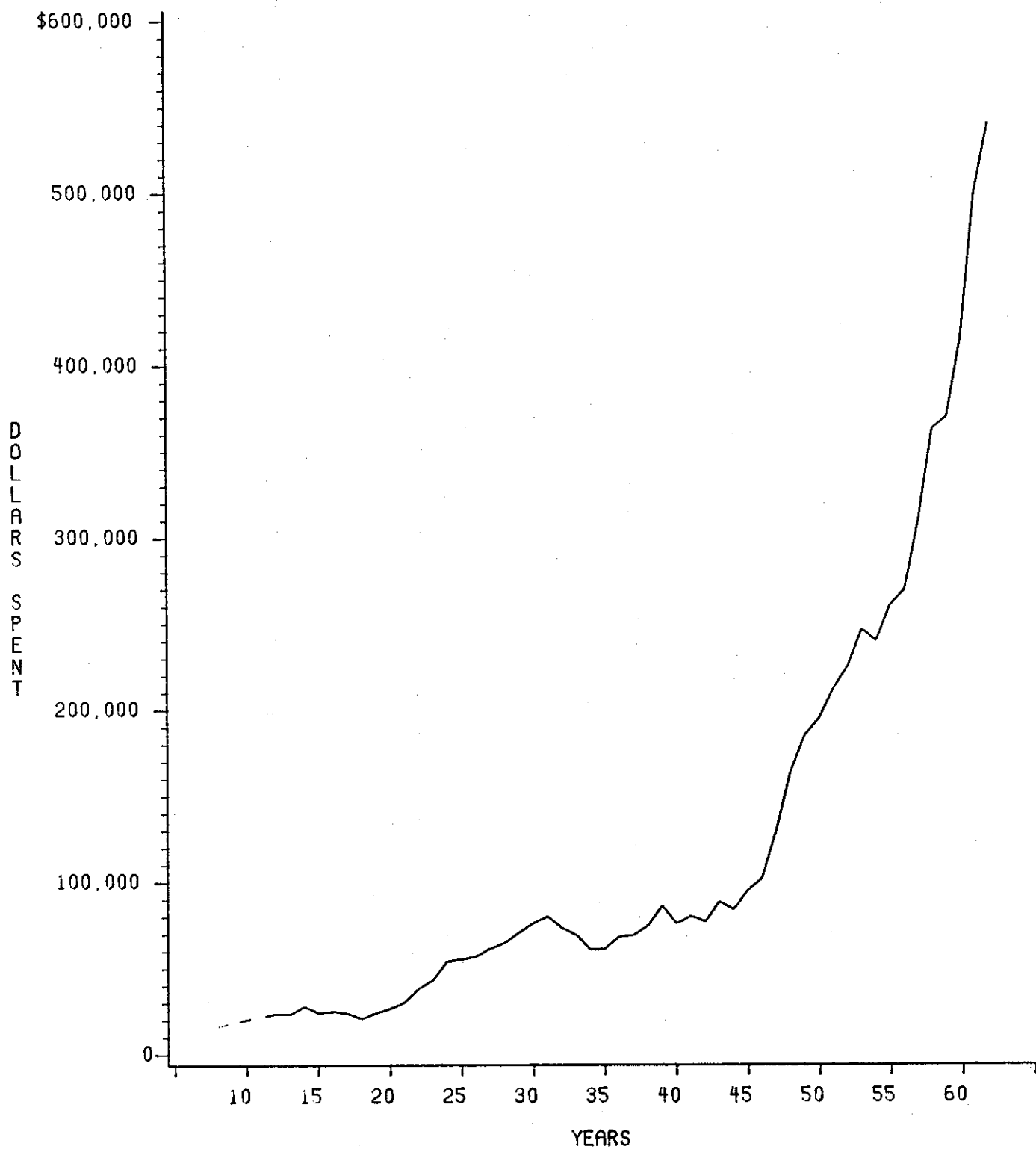
Figure 3-2 shows mean expenditures for materials and binding for the 12 libraries reporting data from 1907/08 through 1961/62. There has been a substantial increase in the levels reported for this variable over the period. The nominal levels of materials expenditures, as well as other expenditure categories, have increased with the general decline of the value of the dollar. For reasons discussed above in section 3.1. no attempt is made at plotting these values in "real" dollars.

Year	Mean Dollars Expended	Year	Mean Dollars Expended
1907/08	\$16,561	1935/36	\$68,242
1908/09	*	1936/37	69,284
1909/10	20,535	1937/38	74,752
1910/11	*	1938/39	85,862
1911/12	23,668	1939/40	75,940
1912/13	23,386	1940/41	80,049
1913/14	28,049	1941/42	76,789
1914/15	24,046	1942/43	88,307
1915/16	24,893	1943/44	83,699
1916/17	23,860	1944/45	95,025
1917/18	20,954	1945/46	102,075
1918/19	24,123	1946/47	130,030
1919/20	26,466	1947/48	163,931
1920/21	30,533	1948/49	184,812
1921/22	38,195	1949/50	194,381
1922/23	43,180	1950/51	212,134
1923/24	54,240	1951/52	224,729
1924/25	55,407	1952/53	246,286
1925/26	57,229	1953/54	239,605
1926/27	61,557	1954/55	260,499
1927/28	64,913	1955/56	269,050
1928/29	71,037	1956/57	309,885
1929/30	76,399	1957/58	362,738
1930/31	80,208	1958/59	369,542
1931/32	73,335	1959/60	415,960
1932/33	69,163	1960/61	498,644
1933/34	60,662	1961/62	539,913
1934/35	61,148		

FIGURE 3-2

AVERAGE MATERIALS EXPENDITURES

AT 12 UNIVERSITY LIBRARIES
BY YEAR, 1907/08-1961/62



3.1.4. Appropriations

Appropriations are reported from 1909/10 through 1953/54. There is no comparable figure currently reported by ARL. The figure reported for materials expenditures shows how much was spent the previous year and one possible reason for keeping track of the appropriations is to show how much is expected to be spent in the current year. Why this variable was dropped after 1953/54 is not clear.

Figure 3-3 depicts the mean values of appropriations at the 12 libraries. The scale of the vertical axis of this plot was chosen to make it comparable with the plot for materials expenditures. The mean values for appropriations are:

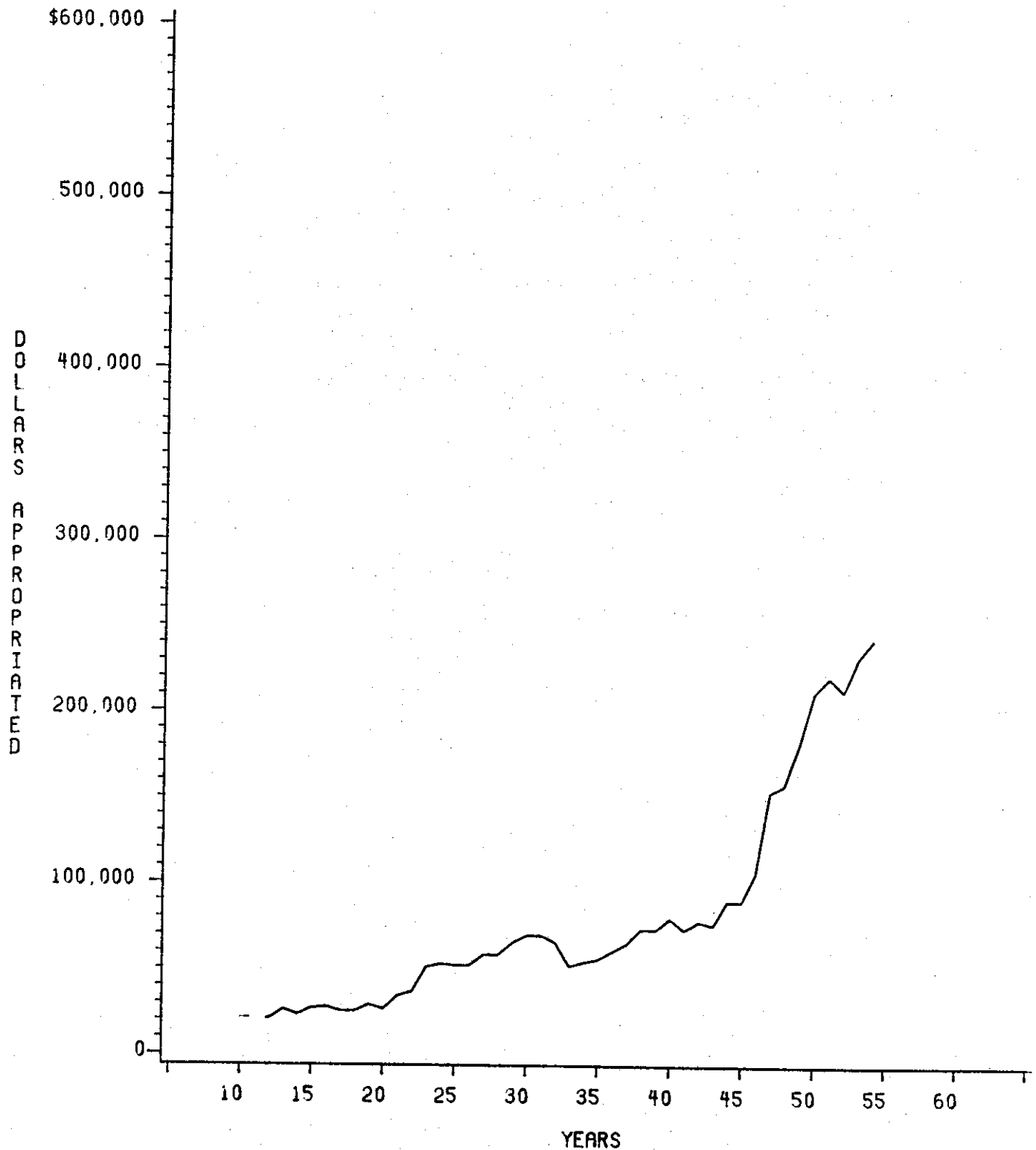
Year	Mean Dollars Appropriated	Year	Mean Dollars Appropriated
1907/08	*	1935/36	\$60,261
1908/09	*	1936/37	65,022
1909/10	\$21,174	1937/38	73,518
1910/11	*	1938/39	72,806
1911/12	20,547	1939/40	79,523
1912/13	25,761	1940/41	73,123
1913/14	22,853	1941/42	77,749
1914/15	26,717	1942/43	75,212
1915/16	27,326	1943/44	89,545
1916/17	25,134	1944/45	89,125
1917/18	24,879	1945/46	105,943
1918/19	28,589	1946/47	152,710
1919/20	26,154	1947/48	157,112
1920/21	34,026	1948/49	181,207
1921/22	36,475	1949/50	211,357
1922/23	51,131	1950/51	220,160
1923/24	52,925	1951/52	211,614
1924/25	51,733	1952/53	231,865
1925/26	51,982	1953/54	241,984
1926/27	58,435	1954/55	*
1927/28	58,525	1955/56	*
1928/29	65,514	1956/57	*
1929/30	69,426	1957/58	*
1930/31	69,744	1958/59	*
1931/32	65,212	1959/60	*
1932/33	51,527	1960/61	*
1933/34	54,183	1961/62	*
1934/35	56,013		

FIGURE 3-3

AVERAGE APPROPRIATIONS

AT 12 UNIVERSITY LIBRARIES

BY YEAR, 1907/08-1961/62



3.1.5. Total Expenditures

A figure for the total expenditures was first reported in 1954/55 (replacing appropriations). The figure is calculated by adding expenditures for materials and binding, salaries, and student salaries. For the present edition, the total figure was entered from the annual data, not calculated from the formula

The Gerould figure for this variable is not directly comparable to the ARL figure which is calculated by adding expenditures for materials, binding, salaries (which include student wages), and other operating expenditures. There is no Gerould equivalent of operating expenditures and student salaries are not reported before 1949/50. A total figure which would be comparable for both sets of data can be assembled from 1949/50 by using the formula used from 1954/55 to 1961/62 in the Gerould data from 1949/50 through 1983/84.

Total expenditures for the 12 libraries are not plotted over the few years of the data. It can be seen from the list of these values for the eight years that it almost doubled during the period. The mean values for this variable for the years it was collected are:

Year	Mean Total Expenditures
1954/55	\$832,823
1955/56	873,547
1956/57	973,933
1957/58	1,127,834
1958/59	1,169,559
1959/60	1,284,647
1960/61	1,458,109
1961/62	1,594,947

3.1.6. Total Staff

A count of staff is reported each year of the data. The issue from 1909/10 defines this number as the "Number of members of the staff (excluding pages and student assistants)" while the letter Gerould sent out in 1916 defines it as the "Number of members of staff (excluding janitors, pages and student assistants)." This definition was apparently followed throughout the period in the sources consulted. ARL collects data on the numbers of professional and nonprofessional employees and adding the two figures will yield the number of full time staff which should be comparable to the Gerould variable. See the discussion on salaries in section 3.1.7. for a related matter.

The mean number of total staff for the group of 12 libraries and a plot of these numbers is given on the next two pages.

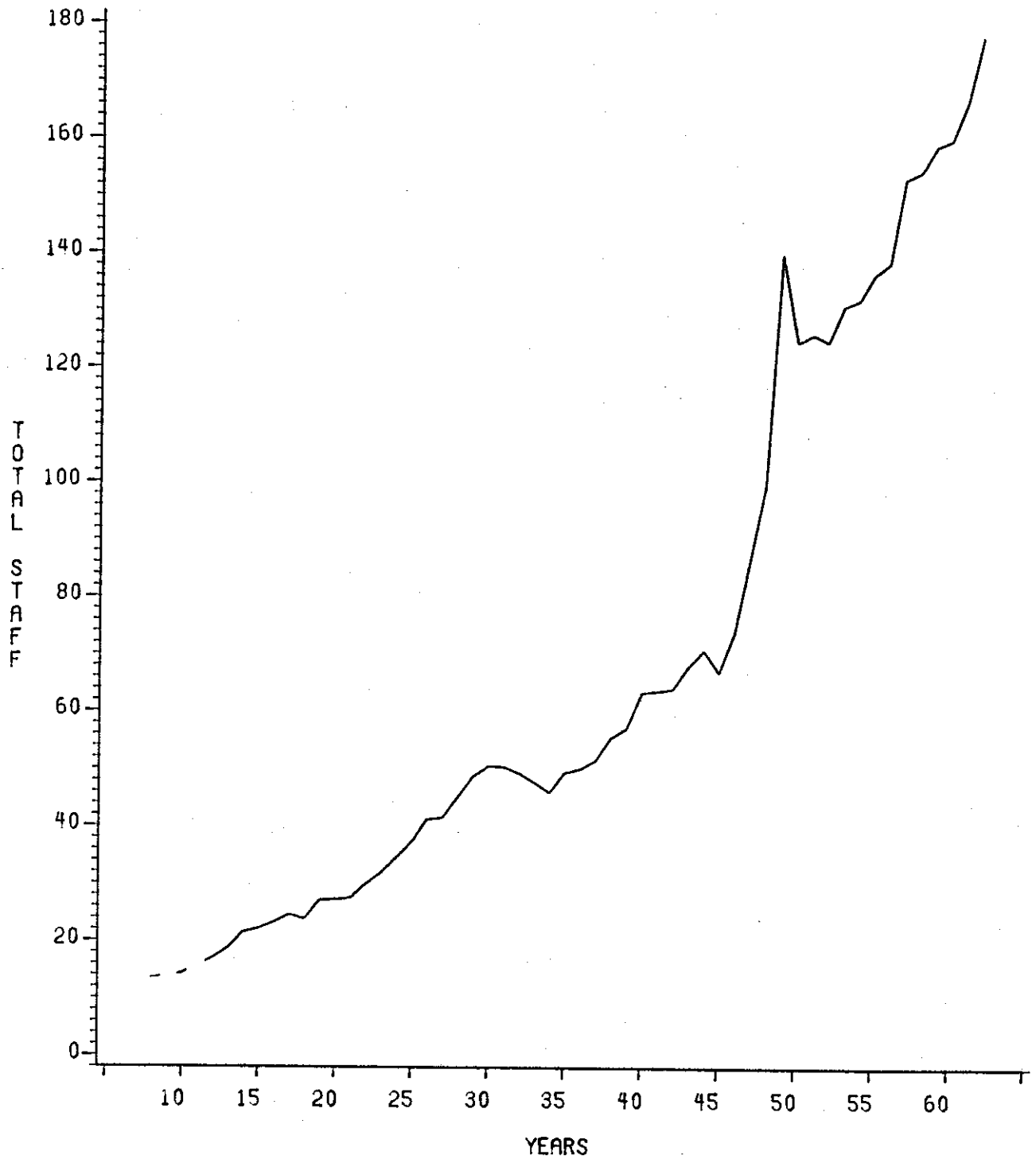
The average number of staff for the 12 libraries has been plotted in Figure 3-4. The steady increase in staff members is readily apparent as is the sharp rise and then decrease after World War II.

The values plotted in Figure 3-4 are:

Year	Mean Total Staff	Year	Mean Total Staff
1907/08	13.5	1935/36	50.0
1908/09	*	1936/37	51.5
1909/10	14.3	1937/38	55.4
1910/11	*	1938/39	57.1
1911/12	16.9	1939/40	63.3
1912/13	18.7	1940/41	63.6
1913/14	21.4	1941/42	64.0
1914/15	22.1	1942/43	67.8
1915/16	23.2	1943/44	70.7
1916/17	24.5	1944/45	66.8
1917/18	23.8	1945/46	73.9
1918/19	27.0	1946/47	86.7
1919/20	27.2	1947/48	99.6
1920/21	27.5	1948/49	139.7
1921/22	29.8	1949/50	124.4
1922/23	31.9	1950/51	125.7
1923/24	34.5	1951/52	124.4
1924/25	37.2	1952/53	130.6
1925/26	41.2	1953/54	131.8
1926/27	41.5	1954/55	136.2
1927/28	45.1	1955/56	138.2
1928/29	48.6	1956/57	153.0
1929/30	50.4	1957/58	154.1
1930/31	50.3	1958/59	158.6
1931/32	49.3	1959/60	159.7
1932/33	47.6	1960/61	166.6
1933/34	45.8	1961/62	177.7
1934/35	49.3		

FIGURE 3-4

AVERAGE TOTAL STAFF
AT 12 UNIVERSITY LIBRARIES
BY YEAR, 1907/08-1961/62



3.1.7. Staff Salaries

This variable is the "total salary account during current fiscal year" (1909/10 issue) and seems to have been interpreted as the money paid full time employees, presumably the same people measured under total staff.

Salaries as measured in the Gerould statistics appear to differ from the salary figure in the ARL data because this latter figure reports the previous year's salaries. When the change of definitions occurred is not clear. ARL's salary figure includes full-time employees, students, and part-time employees.

The relatively low degree of comparability inhibits one calculation that would be intriguing, average salary per library employee, which could be calculated by dividing total salaries by total staff. However, interpreting the results of this calculation would require care not only because of the question of comparability of the two series of data but also because both numbers mix professional and non-professional employees. This distinction may not be reasonable in the early Gerould years in any case, but a drop or rise in the average amount paid each employee might be a result of a change in salary rates or a change in the ratio of professionals to non-professionals. There is evidence from the period covered by the ARL data to indicate that this ratio is dynamic. (Molyneux, 1986c)

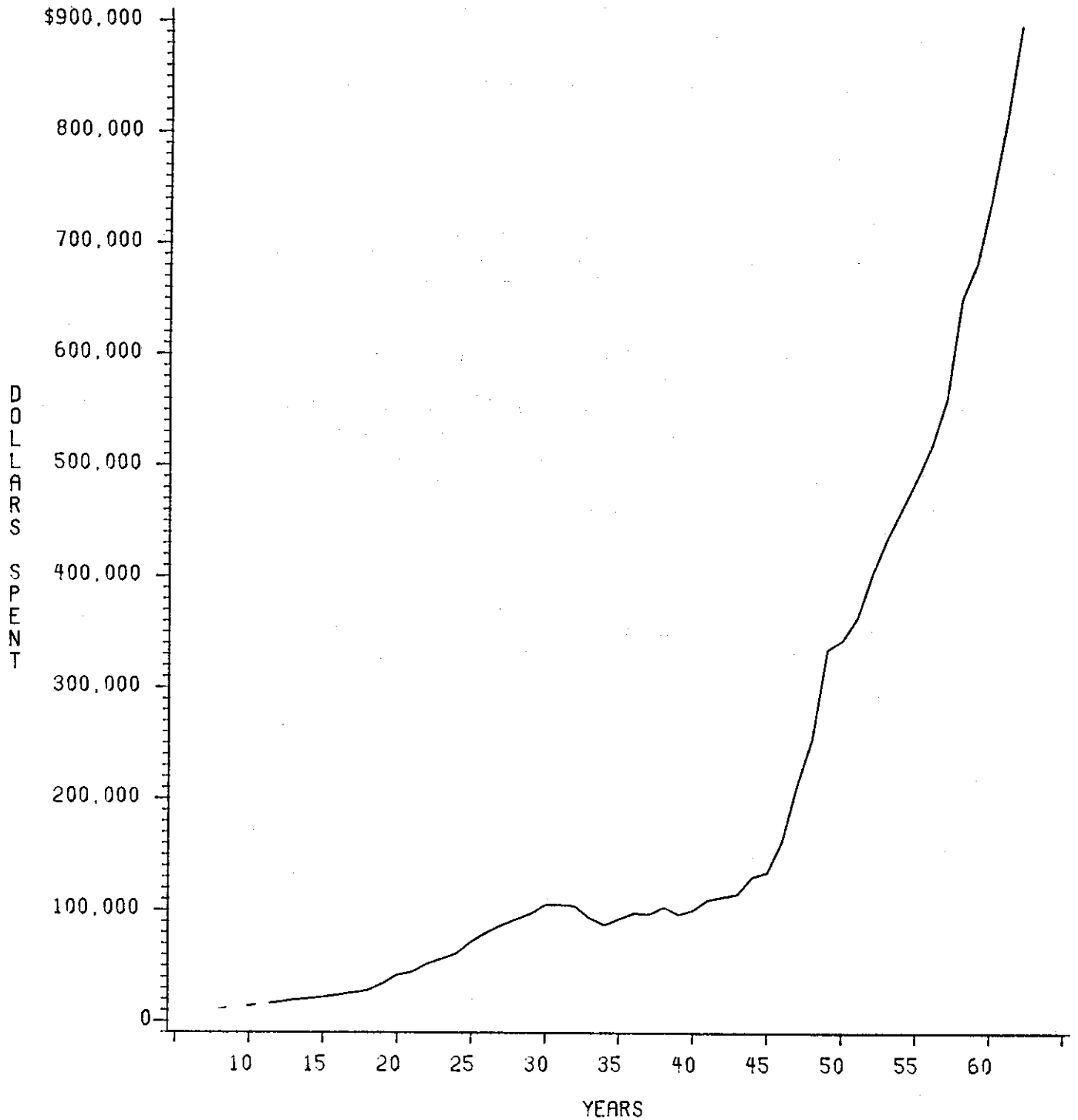
The average figures paid in staff salaries at the 12 libraries for the years of the Gerould data, are plotted in Figure 3-5 and listed below:

Year	Mean Total Salaries	Year	Mean Total Salaries
1907/08	\$11,256	1935/36	\$97,961
1908/09	*	1936/37	96,491
1909/10	14,023	1937/38	103,409
1910/11	*	1938/39	96,843
1911/12	17,548	1939/40	100,726
1912/13	19,511	1940/41	109,667
1913/14	20,624	1941/42	112,549
1914/15	22,283	1942/43	115,302
1915/16	23,691	1943/44	130,735
1916/17	26,230	1944/45	134,947
1917/18	27,686	1945/46	162,445
1918/19	34,290	1946/47	213,292
1919/20	41,744	1947/48	255,195
1920/21	44,665	1948/49	335,470
1921/22	51,681	1949/50	343,281
1922/23	56,494	1950/51	364,119
1923/24	61,309	1951/52	403,035
1924/25	71,702	1952/53	435,513
1925/26	79,897	1953/54	461,680
1926/27	86,760	1954/55	488,458
1927/28	91,967	1955/56	519,638
1928/29	97,588	1956/57	561,228
1929/30	105,321	1957/58	650,817
1930/31	105,557	1958/59	683,445
1931/32	104,274	1959/60	742,276
1932/33	93,070	1960/61	811,330
1933/34	87,132	1961/62	896,349
1934/35	92,761		

FIGURE 3-5

AVERAGE EXPENDITURES FOR SALARIES

AT 12 UNIVERSITY LIBRARIES
BY YEAR, 1907/08-1961/62



3.1.8. Student Wages

The wages paid students were added to these data in 1949/50, perhaps because these wages were becoming an increasing part of library budgets, but there is no way to be sure. The ARL data report total salaries--the sum of salaries for full-time employees, students, and part-time employees.

The data for this variable have not been plotted.

3.2. The Gerould Data Tables

The tables that begin on the page 42 are made up of data transcribed from the annual sheets of academic library statistics compiled by James Thayer Gerould and by members of the staff at the Princeton University Library. These data are in order by the name of the institution, in the form used in Table 1.

In these tables and in the machine readable form of the data, blank lines have been added. There are no data for 1908/09 and 1910/11 but institutions which report data before either of those years have a blank line added for the missing years. Eight institutions (Colorado, Dartmouth, Harvard, Nebraska, Northwestern, Rutgers, Texas, and Wisconsin) did not report data in all years of the Gerould data, and lines with the year but no data have also been added for the missing years. This practice was adopted for two reasons: first, to provide a visual cue that data were missing and, second, to make certain data manipulations easier.

These data are produced from the same machine readable file used to produce the tape of the data that is discussed in more detail in Appendix 5. On that tape, the data are in order by the institution number, which is found in the upper right hand corner of each of the tables in this section. Missing values are indicated here by an asterisk ("*").

Individual values discussed in Appendix 2, where variant values from different texts are given, are indicated by a question mark ("?") or by an ampersand ("&"). Part 1 of Appendix 2 discusses cases where there is more than one possible value and chooses between these values using criteria discussed in Chapter 2. Part 2 discusses cases where there is reason to doubt a value chosen and presented in the following tables and in the machine readable form, in spite of its good authority. All values discussed in Part 2 are also discussed in Part 1. The ampersand indicates a value discussed in Part 2 (and also in Part 1, of course) while the question mark indicates values discussed only in Part 1. Many values appear in both parts of this appendix but space does not permit using both symbols.

These tables also include blank lines which are not included on the tape, strictly as a visual cue to a special set of cases occurring as a result of the data collected by Phineas Windsor at Illinois in 1909/10. These data are discussed in Appendix 2 (see Chicago, 1909/10 in Part 1 for a general explanation) and include data that appear to be comparable to the Gerould data from ten institutions (Chicago, Columbia, Cornell, Harvard, Johns Hopkins, Northwestern, Pennsylvania, Princeton, Stanford, and Yale). In order to include a reference to the data in Appendix 2, in these ten cases there will be a line for 1909/10 with the variables volumes, volumes added, expenditures, appropriations, staff, and salaries listed thus: "**&", indicating these numbers are missing and there is a good variant text discussed in Part 2 of Appendix 2 that may be preferred in some applications. A blank line is then inserted in the data in these tables for 1910/11 and for each year until data are reported by Gerould.

GEROULD DATA FOR BROWN

INSTITUTION

NUMBER: 800

YEAR	VOLUMES	VOLUMES ADDED	MATERIALS EXPENDITURES	APPROPS.	TOTAL EXPENDITURES	STAFF	SALARIES	WAGES
1911/12	215,000	14,060	25,581.11	20,743.00	*	13.00	12,850.00	*
1912/13	232,000	8,600	23,766.00	21,000.00	*	18.00	20,010.00	*
1913/14	245,000	10,026	16,876.25	*	*	16.00	18,617.55	*
1914/15	215,000	15,000	8,544.41	10,000.00	*	10.00	9,390.00	*
1915/16	222,000	6,706	8,208.83	10,000.00	*	12.00	10,330.00	*
1916/17	252,000	8,104	8,525.00	6,700.00	*	9.00	8,382.00	*
1917/18	245,000	9,235	10,553.61	8,000.00	*	10.00	10,650.00	*
1918/19	253,000	7,829	10,788.00	10,500.00	*	12.00	13,270.00	*
1919/20	258,300	8,299	15,975.18	18,136.00	*	14.00	19,240.00	*
1920/21	269,150	10,840	20,358.05	17,000.00	*	14.00	20,730.00	*
1921/22	281,375	12,225	19,986.33	22,390.00	*	15.00	22,013.00	*
1922/23	292,827	11,452	24,714.26	22,771.00	*	19.00	*	*
1923/24	305,427	12,600	24,310.38	27,650.00	*	20.00	33,656.00	*
1924/25	316,211	15,860	34,254.00	26,600.00	*	21.00	38,223.00	*
1925/26	336,117	19,906	36,460.40	30,733.00	*	23.00	39,690.00	*
1926/27	351,202	15,085	37,182.60	37,282.50	*	23.00	41,410.00	*
1927/28	367,794	16,592	40,890.82	45,318.00	*	23.00	42,170.00	*
1928/29	384,783	16,224	55,688.19	53,214.93	*	25.00	47,836.00	*
1929/30	395,930	17,513	52,031.08	58,912.00	*	27.00	52,536.00	*
1930/31	418,576	21,485	67,035.33	73,486.93	*	31.00	53,660.00	*
1931/32	430,683	20,485	68,567.58	64,067.65	*	29.00	51,410.00	*
1932/33	448,348	17,665	46,897.98	58,911.00	*	28.00	44,936.00	*
1933/34	462,922	14,574	46,798.00	54,432.00	*	29.00	45,632.00	*
1934/35	481,150	18,228	50,050.00	44,590.00	*	29.00	46,041.00	*
1935/36	499,027	17,877	42,973.00	45,961.00	*	29.00	46,041.00	*
1936/37	512,359	13,332	41,801.45	51,983.96	*	31.00	48,466.00	*
1937/38	535,950	17,931	48,070.00	49,769.00	*	38.00	55,266.00	*
1938/39	558,291	22,256	51,112.91	46,333.82	*	52.00	61,531.00	*
1939/40	577,027	20,683	50,819.00	56,685.00	*	54.00	71,821.00	*
1940/41	592,566	16,098	48,530.35	54,179.82	*	54.00	71,446.00	*
1941/42	611,258	16,958	35,952.91	47,910.09	*	52.00	79,330.00	*
1942/43	622,716	16,094	38,502.00	46,501.00	*	54.00	78,768.00	*
1943/44	635,483	12,767	31,452.00	45,091.00	*	52.00	83,068.00	*
1944/45	648,469	12,583	33,723.00	39,265.00	*	50.00	83,068.00	*
1945/46	743,176	19,288	42,685.00	99,956.00	*	59.00	116,600.00	*
1946/47	770,431	27,255	75,368.17	103,228.00	*	72.00	154,528.00	*
1947/48	802,311	31,880	110,554.00	73,446.00	*	74.00	160,787.00	*
1948/49	830,405	28,094	82,838.00	74,796.00	*	84.00	163,022.00	*
1949/50	735,871	16,503	72,218.00	73,985.00	*	69.10	149,527.00	9,967
1950/51	752,885	17,014	76,044.00	78,795.00	*	61.00	129,954.00	10,474
1951/52	770,105	17,220	87,218.00	84,901.00	*	56.50	130,289.00	14,926
1952/53	789,846	19,741	92,090.00	94,660.00	*	56.50	150,385.00	15,889
1953/54	807,902	18,056	93,689.00	89,800.00	*	55.24	150,749.00	16,055
1954/55	825,797	17,895	94,511.00	*	272,893	61.08	156,495.00	21,886
1955/56	844,383	18,586	105,779.00	*	321,578	65.13	196,402.00	19,397
1956/57	862,674	18,291	106,687.00	*	342,665	67.53	212,217.00	23,761
1957/58	884,247	21,584	118,056.00	*	374,716	68.26	226,961.00	29,699
1958/59	906,415	25,993	130,308.00	*	396,205	74.50	265,897.00	33,093
1959/60	1,025,479	34,248	161,623.00	*	518,904	84.00	321,968.00	35,313
1960/61	1,059,343	34,665	202,303.00	*	614,761	90.60	369,064.00	43,394
1961/62	1,170,755	47,410	214,619.00	*	654,477	95.40	390,387.00	49,471

GEROULD DATA FOR BRYN MAWR

INSTITUTION
NUMBER: 830

YEAR	VOLUMES	VOLUMES ADDED	MATERIALS EXPENDITURES	APPROPS.	TOTAL EXPENDITURES	STAFF	SALARIES	WAGES
1923/24	104,851	3,600	10,937.70	9,050.00	*	9.00	13,400.00	*
1924/25	107,822	2,971	10,834.00	9,500.00	*	9.00	13,864.00	*
1925/26	112,136	4,397	12,965.60	14,275.00	*	10.00	14,674.96	*
1926/27	116,492	4,676	16,870.66	16,000.00	*	10.00	16,050.00	*
1927/28	121,481	5,108	16,801.50	16,500.00	*	10.00	16,050.00	*
1928/29	127,111	5,545	17,448.80	16,500.00	*	11.00	17,518.00	*
1929/30	131,788	6,218	17,250.45	17,500.00	*	11.00	19,050.00	*
1930/31	135,077	4,948	19,803.71	18,000.00	*	11.00	18,750.00	*
1931/32	139,916	5,091	18,387.57	17,500.00	*	12.00	19,860.00	*
1932/33	143,600	4,032	16,819.26	15,300.00	*	10.00	18,202.00	*
1933/34	147,020	3,735	18,038.00	16,500.00	*	10.00	18,470.00	*
1934/35	150,244	3,705	13,604.00	16,500.00	*	10.00	19,136.00	*
1935/36	154,931	4,212	19,791.46	17,000.00	*	10.00	18,690.00	*
1936/37	157,703	4,052	17,088.65	17,500.00	*	10.00	18,780.00	*
1937/38	161,601	4,195	17,190.27	17,500.00	*	10.00	18,980.00	*
1938/39	165,986	5,066	18,426.23	18,500.00	*	11.00	19,462.00	*
1939/40	171,196	5,206	17,566.80	17,500.00	*	12.00	20,805.00	*
1940/41	175,345	4,450	15,269.94	17,500.00	*	13.00	21,627.47	*
1941/42	180,622	5,533	15,902.20	15,750.00	*	14.00	22,414.08	*
1942/43	184,796	4,381	14,336.31	15,750.00	*	13.00	21,813.50	*
1943/44	189,666	5,099	14,172.00	15,500.00	*	12.00	21,304.00	*
1944/45	193,079	3,609	14,151.00	*	*	11.00	20,760.00	*
1945/46	196,623	3,705	17,589.60	15,000.00	*	11.00	21,373.91	*
1946/47	201,165	4,753	17,012.94	17,577.23	*	13.00	27,940.00	*
1947/48	204,488	3,599	16,312.00	15,440.00	*	13.00	30,600.00	*
1948/49	208,168	3,680	18,904.00	15,650.00	*	13.00	32,600.00	*
1949/50	211,904	4,575	19,211.00	31,087.00	*	14.00	32,930.00	2,520
1950/51	230,476	5,501	21,015.13	28,552.00	*	16.00	34,604.00	2,336

GEROULD DATA FOR CALIFORNIA, BERKELEY

INSTITUTION

NUMBER: 900

YEAR	VOLUMES	VOLUMES ADDED	MATERIALS EXPENDITURES	APPROPS.	TOTAL EXPENDITURES	STAFF	SALARIES	WAGES
1907/08	173,000	11,902	19,709.00	*	*	15.00	17,500.00	*
1908/09	*	*	*	*	*	*	*	*
1909/10	198,231	16,497	*	32,983.00	*	21.00	23,300.00	*
1910/11	*	*	*	*	*	*	*	*
1911/12	238,506	26,161	33,800.00	24,000.00	*	25.00	30,630.00	*
1912/13	259,737	21,231	36,538.00	33,950.00	*	36.00	41,650.00	*
1913/14	282,072	22,325	34,000.00	30,000.00	*	40.00	41,115.00	*
1914/15	304,662	23,038	30,000.00	30,000.00	*	40.00	46,110.00	*
1915/16	332,884	28,218	29,611.25	30,025.00	*	40.00	44,393.06	*
1916/17	355,192	22,308	30,000.00	20,000.00	*	40.00	52,040.00	*
1917/18	374,269	19,374	15,000.00	25,000.00	*	35.00	54,000.00	*
1918/19	392,682	18,527	26,000.00	37,642.00	*	31.00	56,840.00	*
1919/20	413,824	21,399	26,612.00	29,000.00	*	28.00	76,683.00	*
1920/21	413,824	25,984	39,500.00	45,500.00	*	28.00	76,300.00	*
1921/22	472,687	34,140	68,717.00	46,412.00	*	33.00	97,500.00	*
1922/23	511,259	39,666	81,085.00	57,719.00	*	37.00	101,625.00	*
1923/24	544,449	33,721	72,618.00	54,363.00	*	41.00	111,146.00	*
1924/25	570,544	29,475	54,363.00	57,749.00	*	47.00	118,300.00	*
1925/26	638,993	28,624	78,304.00	66,007.00	*	43.00	125,400.00	*
1926/27	665,680	28,278	86,282.00	72,500.00	*	40.00	121,175.00	*
1927/28	706,635	42,674	97,630.00	77,750.00	*	51.00	127,079.00	*
1928/29	735,718	31,388	102,074.00	89,625.00	*	51.00	141,940.00	*
1929/30	756,505	31,424	118,127.00	87,125.00	*	52.00	152,930.00	*
1930/31	773,354	32,956	129,077.48	96,475.00	*	55.00	152,067.81	*
1931/32	802,817	38,297	118,601.29	94,937.00	*	54.00	158,990.00	*
1932/33	839,813	39,911	123,910.00	66,000.00	*	55.00	104,528.00	*
1933/34	869,475	29,662	102,300.00	77,000.00	*	55.00	131,093.00	*
1934/35	896,502	29,939	74,609.61	72,000.00	*	56.00	133,767.00	*
1935/36	944,589	31,047	93,739.41	*	*	56.00	131,388.00	*
1936/37	981,471	38,072	84,752.71	*	*	58.00	144,603.10	*
1937/38	1,002,764	41,772	137,308.00	*	*	59.00	154,079.00	*
1938/39	1,039,447	38,567	156,000.00	94,950.00	*	69.00	119,831.47	*
1939/40	1,081,151	45,738	113,921.32	99,300.00	*	80.00	137,902.77	*
1940/41	1,124,858	45,616	112,937.57	102,300.00	*	86.00	149,441.94	*
1941/42	1,170,738	47,648	122,832.15	98,300.00	*	82.00	161,262.50	*
1942/43	1,207,784	38,039	120,753.00	65,000.00	*	87.00	161,262.50	*
1943/44	1,229,916	27,623	110,036.00	92,000.00	*	76.50	136,459.00	*
1944/45	1,260,504	30,598	103,893.00	131,000.00	*	82.00	166,688.00	*
1945/46	1,378,602	118,098	162,027.97	189,394.74	*	123.00	225,127.46	*
1946/47	1,422,494	43,892	210,689.05	277,767.96	*	132.00	366,306.51	*
1947/48	1,554,282	133,576	266,261.00	305,229.00	*	201.00	502,721.00	*
1948/49	1,626,146	71,864	330,926.00	300,000.00	*	309.00	840,543.00	*
1949/50	1,665,063	38,917	340,612.00	640,000.00	*	272.70	772,401.00	203,536
1950/51	1,744,784	79,721	480,886.29	468,000.00	*	289.95	877,194.00	196,190
1951/52	1,812,686	80,599	412,570.00	384,879.00	*	278.75	974,751.00	191,654
1952/53	1,878,389	65,703	422,805.00	491,697.00	*	297.85	1,079,386.00	226,887
1953/54	1,986,818	79,276	417,047.00	485,361.00	*	299.30	1,183,811.00	249,202
1954/55	2,063,082	82,335	481,517.00	*	1,911,010	309.05	1,209,267.00	220,226
1955/56	2,142,801	85,299	464,057.00	*	2,029,196	310.05	1,310,312.00	254,827
1956/57	2,226,359	89,334	503,459.00	*	2,224,625	313.75	1,407,605.00	313,561
1957/58	2,305,121	90,231	545,865.00	*	2,479,697	322.10	1,590,454.00	343,378
1958/59	2,397,117	99,267	592,668.00	*	2,549,438	325.60	1,626,604.00	303,166
1959/60	2,503,060	114,989	771,070.00	*	2,756,088	307.39	1,650,253.00	334,765
1960/61	2,596,526	106,022	978,147.00	*	3,125,808	320.95	1,793,497.00	354,164
1961/62	2,701,186	106,710	1,097,598.00	*	3,654,363	370.00	2,045,954.00	510,811

GEROULD DATA FOR CALIFORNIA, LOS ANGELES

INSTITUTION
NUMBER: 1100

YEAR	VOLUMES	VOLUMES ADDED	MATERIALS EXPENDITURES	APPROPS.	TOTAL EXPENDITURES	STAFF	SALARIES	WAGES
1929/30	153,855	17,220?	52,500.00	52,500.00	*	32.00	64,350.00	*
1930/31	173,600	23,433	52,500.00	52,500.00	*	33.00	64,350.00	*
1931/32	191,250	17,602	52,500.00	49,875.00	*	33.00	66,500.00	*
1932/33	206,800	17,450	52,500.00	32,300.00	*	33.00	56,750.00	*
1933/34	217,991	14,090	32,300.00	44,416.00	*	36.00	63,707.00	*
1934/35	232,401	14,410	44,416.00	63,000.00	*	36.00	69,237.00	*
1935/36	250,401	18,000	63,000.00	63,000.00	*	38.00	76,060.00	*
1936/37	272,401	22,000	63,000.00	70,500.00	*	38.00	80,120.00	*
1937/38	296,401	24,000	73,250.00	71,500.00	*	40.00	83,800.00	*
1938/39	320,701	24,300	72,600.00	83,200.00	*	45.00	83,180.00	*
1939/40	355,965	27,300	83,700.00	88,800.00	*	47.00	87,720.00	*
1940/41	385,884	30,300	88,800.00	95,400.00	*	49.00	92,042.00	*
1941/42	416,346	32,512	95,400.00	88,500.00	*	51.00	96,402.00	*
1942/43	474,175	28,683	116,415.00	70,289.00	*	57.00	108,780.00	*
1943/44	469,486	24,589	60,000.00	66,000.00	*	50.00	99,420.00	*
1944/45	478,722	16,395	68,500.00	81,866.00	*	56.00	99,420.00	*
1945/46	543,281	28,699	142,261.00	164,559.00	*	70.00	145,508.00	*
1946/47	581,842	34,008	136,526.00	168,137.00	*	71.00	191,889.00	*
1947/48	623,906	42,064	144,846.00	210,905.00	*	79.00	218,669.00	*
1948/49	697,892	68,186	276,049.00	201,661.00	*	157.00	386,926.00	*
1949/50	762,366	64,920	273,170.00	360,385.00	*	136.00	364,560.00	119,178
1950/51	790,012	72,139	353,094.76	316,176.00	*	139.00	432,120.00	139,647
1951/52	913,644	79,857	455,159.00	301,083.00	*	149.00	454,792.00	167,914
1952/53	987,878	73,876	365,218.00	375,990.00	*	161.25	539,698.00	162,981
1953/54	1,051,677	63,799	389,734.00	398,535.00	*	165.00	643,329.00	180,972
1954/55	1,114,876	63,199	383,325.00	*	1,240,066	168.00	660,620.00	196,121
1955/56	1,159,728	64,998	382,620.00	*	1,302,944	175.00	720,675.00	199,649
1956/57	1,229,572	68,612	434,800.00	*	1,487,200	183.00	824,492.00	227,908
1957/58	1,301,075	75,265	474,054.00	*	1,698,603	197.50	943,465.00	281,084
1958/59	1,375,262	81,410	488,335.00	*	1,744,645	214.00	950,716.00	305,594
1959/60	1,464,308	90,706	592,455.00	*	1,962,803	232.00	1,068,496.00	301,852
1960/61	1,568,565	105,995	959,276.00	*	2,640,794	237.00	1,350,079.00	331,439
1961/62	1,719,359	154,801	1,085,073.00	*	2,925,381	256.50	1,478,362.00	361,946

GEROULD DATA FOR CHICAGO

INSTITUTION
NUMBER: 1600

YEAR	VOLUMES		MATERIALS		TOTAL		STAFF	SALARIES	WAGES
	VOLUMES	ADDED	EXPENDITURES	APPROPS.	EXPENDITURES				
1909/10	*&	*&	*&		*&	*&	*&		
1910/11	*	*	*	*	*	*	*	*	*
1911/12	381,351	27,689	37,686.12	37,595.34	*	48.00	43,216.00?	*	*
1912/13	402,503	21,936	42,374.00	41,066.00	*	70.00	52,285.00	*	*
1913/14	431,544	31,087	37,908.97	48,416.80	*	86.00	57,530.85	*	*
1914/15	458,616	28,280	34,821.82	40,568.68	*	94.00	72,028.00	*	*
1915/16	485,847	31,723	32,315.40	44,446.29	*	93.00	76,841.34	*	*
1916/17	517,936	35,310	34,722.42	48,046.54	*	93.00	76,409.20	*	*
1917/18	545,890	28,461	34,462.38	50,700.28	*	96.00	84,651.56	*	*
1918/19	570,849	25,866	40,833.72	62,163.74	*	96.00	90,308.79	*	*
1919/20	599,492	29,081	51,358.77	64,777.02	*	93.00	105,528.46	*	*
1920/21	623,423	26,583	66,146.37	54,979.74	*	94.00	124,118.08	*	*
1921/22	646,798	24,110	58,835.83	57,368.81	*	91.00	121,742.11	*	*
1922/23	670,749	24,564	62,792.77	70,784.49	*	94.00	*?	*	*
1923/24	694,000	24,024	67,470.46	66,641.63	*	95.00	165,962.96	*	*
1924/25	717,153	24,201	78,372.00	57,562.00	*	99.00	171,400.00	*	*
1925/26	739,213	23,105	70,750.21	74,482.00	*	103.00	188,337.89	*	*
1926/27	768,559	30,352	105,785.01	100,754.89	*	106.00	164,571.00	*	*
1927/28	799,593	32,593	127,427.69	134,335.00	*	116.00	230,857.00?	*	*
1928/29	871,276	40,803	139,651.02	150,903.95	*	113.00	221,603.00	*	*
1929/30	915,837	44,561	191,859.52	186,657.00	*	115.00	225,835.00	*	*
1930/31	966,195	50,358	184,102.09	171,151.00	*	116.00	236,407.43	*	*
1931/32	1,012,535	46,340	200,539.18	135,087.61	*	108.00	221,673.00	*	*
1932/33	1,050,482	36,950	112,792.45	114,210.73	*	94.00	185,392.00	*	*
1933/34	1,077,633	29,632	102,306.00	210,541.00	*	91.00	160,910.00	*	*
1934/35	1,117,818	40,185	120,724.95	191,834.00	*	94.00	162,125.00	*	*
1935/36	1,161,859	44,041	145,026.89	120,000.00	*	94.00	167,880.00	*	*
1936/37	1,196,118	34,259	112,021.10	140,306.68	*	97.00	170,474.90	*	*
1937/38	1,232,745	36,627	110,071.66	142,769.73	*	93.00	174,618.48	*	*
1938/39	1,271,296	38,551	120,861.84	124,397.00	*	100.00	189,578.36?	*	*
1939/40	1,300,785	29,489	108,168.91	140,443.85	*	101.00	192,671.71	*	*
1940/41	1,330,152	29,367	123,990.24	140,332.87	*	100.00	164,508.43	*	*
1941/42	1,369,206	39,054	113,420.68	142,525.56	*	100.00	157,292.58	*	*
1942/43	1,436,244	67,766	93,112.09	113,859.00	*	93.00	189,086.41	*	*
1943/44	1,498,899	63,888	109,504.00	119,259.00	*	112.00	203,834.00	*	*
1944/45	1,533,976	34,354	114,318.00	130,000.00	*	103.00	231,858.00	*	*
1945/46	1,584,264	51,671	130,000.00	152,500.00	*	100.00	256,000.00	*	*
1946/47	1,645,827	68,962	198,590.51	150,000.00	*	150.00	298,000.00	*	*
1947/48	1,705,398	50,651	223,304.00	205,000.00	*	199.00	389,829.00	*	*
1948/49	1,763,012	57,614	201,691.00	232,811.00	*	205.00	434,500.00	*	*
1949/50	1,797,584	56,660	199,333.00	245,939.00	*	209.50	474,644.00	*	*
1950/51	1,862,071	45,459	198,301.04	292,731.00	*	145.00	476,259.00	*	*
1951/52	1,885,602	51,763	188,719.00	253,407.00	*	200.00	483,369.00	*	*
1952/53	1,883,621	49,560	204,285.00	230,000.00	*	137.00	393,470.00	87,743	
1953/54	1,900,137	45,896	194,348.00	198,000.00	*	133.00	402,996.00	88,454	
1954/55	1,911,111	47,282	185,014.00	*	684,684	106.00	394,003.00	105,667	
1955/56	1,925,754	43,038	192,867.00	*	732,383	122.00	419,934.00	119,582	
1956/57	1,952,374	47,017	219,609.00	*	814,318	121.00	456,381.00	138,327	
1957/58	1,988,700	49,829	242,299.00	*	877,926	124.00	480,125.00	155,502	
1958/59	2,044,335	54,741	290,991.00	*	948,786	123.00	500,813.00	156,982	
1959/60	2,094,824	60,040	348,035.00	*	1,119,145	126.00	590,597.00	180,513	
1960/61	2,142,223	53,393	366,832.00	*	1,233,838	144.50	679,847.00	187,159	
1961/62	2,210,062	82,284	457,213.00	*	1,420,223	154.00	767,140.00	195,870	

GEROULD DATA FOR CINCINNATI

INSTITUTION
NUMBER: 1700

YEAR	VOLUMES		MATERIALS		TOTAL		STAFF	SALARIES	WAGES
	VOLUMES	ADDED	EXPENDITURES	APPROPS.	EXPENDITURES				
1940/41	511,974	20,437	36,391.97	56,111.24	*	39.00	54,634.02	*	
1941/42	540,935	24,624	49,470.94	52,374.96	*	37.00	51,415.59	*	
1942/43	551,991	15,393	32,822.55	43,504.00	*	32.00	58,950.00	*	
1943/44	568,600	17,066	38,243.00	40,626.00	*	36.00	51,791.00	*	
1944/45	583,546	14,946	38,549.00	73,857.00	*	35.00	57,125.00	*	
1945/46	592,425	16,353	42,122.91	80,464.77	*	39.00	63,964.47	*	
1946/47	606,452	13,974	47,310.00	86,930.74	*	40.00	85,327.00	*	
1947/48	621,752	18,316	63,989.00	55,014.00	*	46.00	99,734.00	*	
1948/49	636,022	15,379	58,012.00	68,291.00	*	61.00	129,176.00	*	
1949/50	649,747	13,725	60,679.00	62,780.00	*	55.25	122,758.00	11,027	
1950/51	660,140	12,198	51,188.78	54,865.00	*	54.00	111,925.00	11,299	
1951/52	662,173	12,220	54,511.00	54,850.00	*	45.50	126,205.00	12,085	
1952/53	661,227	12,487	62,542.00	61,110.00	*	45.00	139,414.00	13,657	
1953/54	672,989	14,808	66,142.00	76,330.00	*	47.50	143,423.00	15,301	
1954/55	727,610	17,404	76,656.00	*	241,318	47.50	152,853.00	11,809	
1955/56	736,547	19,460	95,441.00	*	275,976	46.50	158,583.00	15,577	
1956/57	753,160	18,712	87,400.00	*	286,597	51.00	176,980.00	22,217	
1957/58	770,946	18,659	102,531.00	*	320,251	53.00	196,393.00	21,327	
1958/59	784,358	16,578	115,160.00	*	344,970	53.30	210,010.00	19,800	
1959/60	799,873	16,259	110,656.00	*	358,551	52.50	225,029.00	22,866	
1960/61	813,181	18,002	126,026.00	*	381,051	54.00	229,975.00	25,050	
1961/62	829,628	17,706	155,302.00	*	435,147	58.00	251,620.00	28,225	

GEROULD DATA FOR COLORADO

INSTITUTION
NUMBER: 1800

YEAR	VOLUMES		MATERIALS		TOTAL		STAFF	SALARIES	WAGES
	VOLUMES	ADDED	EXPENDITURES	APPROPS.	EXPENDITURES				
1917/18	112,747	7,384	2,444.36	3,500.00	*	12.00	6,500.00	*	
1918/19	115,264	4,179	13,780.26	13,800.00	*	9.00	9,715.00	*	
1919/20	120,468	7,340	8,670.89	9,000.00	*	8.00	10,260.75	*	
1920/21	129,025	8,557	16,904.62	13,000.00?	*	11.00	13,360.00	*	
1921/22	134,685	7,918	18,068.68	16,833.33	*	11.00	14,917.93	*	
1922/23	*	*	*	*	*	*	*	*	
1923/24	*	*	*	*	*	*	*	*	
1924/25	167,000?	9,000?	7,500.00?	7,700.00?	*	15.00?	24,085.00?	*	
1925/26	173,800	9,765	25,200.00	28,200.00	*	24.00	28,596.00	*	
1926/27	182,655	8,855	24,721.92	27,225.00	*	15.00	26,473.00	*	
1927/28	192,283	9,702	27,155.00	27,350.00	*	15.00	30,697.00	*	
1928/29	207,462	10,196	30,094.90	44,000.00	*	17.00	31,844.00	*	
1929/30	220,465	13,066	43,137.42	33,000.00	*	16.00	33,714.00	*	
1930/31	*	*	*	*	*	*	*	*	
1931/32	246,776	14,188	37,950.00	32,500.00	*	18.00	35,855.00	*	
1932/33	257,764	11,588	24,936.90	19,569.11	*	19.00	33,979.00	*	
1933/34	265,726	10,225	27,187.00	25,000.00	*	16.00	31,375.00	*	
1934/35	273,853	8,140	23,020.00	26,000.00	*	18.00	34,450.00	*	
1935/36	262,828	8,464	23,842.11	25,755.00	*	16.00	29,944.00	*	
1936/37	285,000	9,000	9,750.00	11,000.00	*	20.00	29,000.00	*	
1937/38	282,983	9,145	11,000.00	10,200.00	*	20.00	31,061.66	*	
1938/39	293,833	11,012	24,442.04	27,072.50	*	21.00	31,061.69	*	
1939/40	307,387	13,554	30,580.04	30,580.04	*	23.00	47,940.00	*	
1940/41	457,935	34,502	35,559.14	28,639.03	*	23.00	37,280.00	*	
1941/42	502,477	44,542	27,105.79	25,265.00	*	24.00	41,340.08	*	
1942/43	526,512	53,935	22,851.56	25,000.00	*	26.00	37,430.00	*	
1943/44	560,000	57,000	29,419.00	31,500.00	*	27.00	47,947.00	*	
1944/45	568,098	7,265	30,114.00	35,516.00	*	27.00	47,947.00	*	
1945/46	626,602	32,572	40,666.49	59,880.27	*	28.00	51,865.00	*	
1946/47	659,996	35,216	48,038.41	59,569.09	*	28.00	66,810.00	*	
1947/48	683,849	36,385	56,605.00	58,535.00	*	31.00	81,720.00	*	
1948/49	675,759	30,832	55,142.00	61,773.00	*	60.00	128,710.00	*	
1949/50	706,371	36,190	63,209.00	61,128.00	*	34.00	96,020.00	33,940	
1950/51	720,686	30,329	57,589.16	64,399.00	*	35.75	104,513.00	33,685	
1951/52	732,118	30,942	67,384.00	85,061.00	*	33.50	107,778.00	35,212	
1952/53	805,090	36,809	91,727.00	91,023.00	*	44.00	148,013.00	36,733	
1953/54	783,594	30,540	86,846.00	89,873.00	*	38.00	132,038.00	34,501	
1954/55	804,937	31,712	93,687.00	*	273,287	38.75	143,140.00	36,460	
1955/56	835,681	34,596	107,771.00	*	300,183	41.00	154,821.00	37,591	
1956/57	861,314	35,234	125,125.00	*	333,142	44.00	167,116.00	40,901	
1957/58	603,340	21,790	150,462.00	*	409,106	51.50	210,996.00	47,648	
1958/59	623,407	22,082	157,124.00	*	447,316	56.00	223,680.00	66,512	
1959/60	656,575	24,375	187,488.00	*	501,816	56.00	250,742.00	63,586	
1960/61	722,939	68,214	247,352.00	*	608,991	64.50	295,461.00	66,178	
1961/62	785,542	56,374	358,218.00	*	824,880	77.25	384,472.00	82,190	

GEROULD DATA FOR COLUMBIA

INSTITUTION
NUMBER: 2000

NUMBER: 2000									
YEAR	VOLUMES		MATERIALS		TOTAL		STAFF	SALARIES	WAGES
	VOLUMES	ADDED	EXPENDITURES	APPROPS.	EXPENDITURES				
1909/10	%&	%&	%&	%&			%&	%&	
1910/11	*	*	*	*	*	*	*	*	*
1911/12	540,338	23,528?	48,232.47	48,500.00	*	62.00	61,030.00	*	*
1912/13	516,774	26,223	37,548.00	*	*	55.00	64,075.00	*	*
1913/14	608,361	33,655	50,147.79	52,282.79	*	106.00	77,648.87	*	*
1914/15	630,075	21,714	45,000.00	50,000.00	*	74.00	68,000.00	*	*
1915/16	659,600	29,500	49,700.00	60,000.00	*	62.00	70,950.00	*	*
1916/17	685,822	24,683	41,004.65	59,654.04	*	53.00	74,790.82	*	*
1917/18	711,416	24,137	32,709.80	46,728.62	*	51.00	75,701.11	*	*
1918/19	709,845	23,154	43,023.86	99,393.70	*	57.00	60,350.00	*	*
1919/20	761,448	28,926	73,899.63	80,042.11	*	62.00	90,422.66	*	*
1920/21	797,106	36,768	75,623.44	76,838.48	*	72.00	122,910.70	*	*
1921/22	833,089	35,983	84,012.11	*	*	121.00	125,821.00	*	*
1922/23	863,341	30,524	85,833.26	*	*	75.00	*	*	*
1923/24	893,147	32,329	82,202.36	*	*	83.00	*	*	*
1924/25	930,541	37,394	103,600.00	*	*	86.00	*	*	*
1925/26	1,055,198	30,773	101,239.75	106,132.10	*	90.00	*	*	*
1926/27	1,092,343	37,145	120,461.00	119,916.00	*	133.00	262,116.00	*	*
1927/28	1,132,236	39,893	124,072.38	139,735.32	*	161.00	281,372.00	*	*
1928/29	1,166,621	34,385	147,151.23	194,088.44	*	157.00	285,568.00	*	*
1929/30	1,214,524	47,903	175,506.00	197,898.00	*	163.00?	308,202.00	*	*
1930/31	1,305,595	91,072	192,851.39	175,682.70	*	166.00	337,569.33	*	*
1931/32	1,358,389	52,793	193,273.00	169,021.00	*	166.00	360,089.00	*	*
1932/33	1,405,518	47,129	158,197.48	145,089.85	*	166.00	360,981.00	*	*
1933/34	1,443,307	37,799	142,882.00	150,954.00	*	215.00	325,948.00	*	*
1934/35	1,476,450	33,149	129,414.45	161,748.00	*	215.00	313,693.00	*	*
1935/36	1,520,089	43,633	164,323.74	156,728.00	*	214.00	385,058.00	*	*
1936/37	1,563,167	43,078	144,596.00	162,104.00	*	227.00	431,176.00	*	*
1937/38	1,615,051	51,884	160,054.00	161,998.00	*	230.00	426,626.00	*	*
1938/39	1,662,843	47,382	173,783.09	160,719.00	*	231.00	444,776.42	*	*
1939/40	1,715,263	50,082	198,297.96	192,569.05	*	283.00	441,829.25	*	*
1940/41	1,845,611	51,959	200,885.45	178,542.85	*	292.00	457,767.00	*	*
1941/42	1,677,974	43,930	165,929.46	166,498.87	*	253.00	378,412.75	*	*
1942/43	1,719,397	42,336	123,705.00	167,219.00	*	257.00	378,412.00	*	*
1943/44	1,756,861	37,464	112,492.00	146,269.00	*	244.00	379,326.00	*	*
1944/45	1,731,533	42,835	151,150.00	278,950.00	*	353.00	430,652.00	*	*
1945/46	1,778,058	46,711	237,158.22	237,036.44	*	348.00	488,387.27	*	*
1946/47	1,836,590	60,770	237,583.79	270,694.78	*	427.00	617,592.37	*	*
1947/48	1,900,488	62,065	263,650.00	298,668.00	*	427.00	745,631.00	*	*
1948/49	1,923,243	57,279	241,966.00	222,672.00	*	345.00	783,046.00	*	*
1949/50	1,897,715	44,210	244,774.00	239,824.00	*	319.00	780,952.00	*	*
1950/51	1,936,923	57,636	250,463.00	245,204.00	*	313.50	775,728.00	*	*
1951/52	1,979,503	56,737	283,105.00	266,729.00	*	323.00	767,863.00	*	*
1952/53	2,025,902	62,193	326,800.00	271,733.00	*	320.00	841,781.00	*	*
1953/54	2,069,795	62,740	429,915.00	287,853.00	*	310.50	863,986.00	*	*
1954/55	2,116,641	65,537	354,074.00	*	1,231,414	312.00	877,340.00	*	*
1955/56	2,164,652	63,640	330,483.00	*	1,233,834	313.00	903,351.00	*	*
1956/57	2,218,641	69,501	414,792.00	*	1,411,335	320.00	996,543.00	*	*
1957/58	2,274,586	69,062	423,881.00	*	1,496,070	326.00	1,072,189.00	*	*
1958/59	2,730,732	73,802	433,597.00	*	1,631,881	267.25	1,015,095.00	183,189	
1959/60	2,875,761	79,954	502,860.00	*	1,745,787	273.92	1,017,327.00	225,600	
1960/61	2,939,751	89,707	524,007.00	*	1,911,614	283.00	1,150,658.00	236,949	
1961/62	3,012,464	85,875	558,846.00	*	2,058,207	297.00	1,231,712.00	267,649	

GEROULD DATA FOR CORNELL

INSTITUTION
NUMBER: 2200

YEAR	VOLUMES	VOLUMES ADDED	MATERIALS EXPENDITURES	TOTAL APPROPS. EXPENDITURES	STAFF	SALARIES	WAGES
1909/10	%&	%&	%&	%&	%&	%&	%&
1910/11	*	*	*	*	*	*	*
1911/12	409,700	14,491	19,878.00	24,200.00	*	18.00	21,380.00
1912/13	423,570	13,870	28,000.00	28,000.00	*	28.00	27,500.00
1913/14	439,517	15,947	27,000.00	28,000.00	*	23.00	23,000.00
1914/15	461,129	15,615	12,631.73	23,909.25	*	21.00	23,008.00
1915/16	474,382	14,117	21,410.00	29,775.01	*	29.00	23,572.00
1916/17	489,655	15,378	18,910.14	31,851.66	*	18.00	23,770.00
1917/18	557,931	16,322	18,224.29	49,074.45	*	20.00	22,830.00
1918/19	603,100	24,494	25,355.91	50,032.64	*	20.00	24,825.00
1919/20	630,637	27,587	26,118.81	52,812.47	*	20.00	25,925.00
1920/21	655,086	24,449	39,952.49	44,780.76	*	20.00	29,200.00
1921/22	673,352	20,722	36,232.93	34,390.79	*	20.00	31,070.00
1922/23	688,686	15,332	33,511.55	33,360.08	*	21.00	30,700.00
1923/24	710,575	21,889	40,360.00	*	*	36.00	52,437.00
1924/25	724,453	13,877	46,148.00	*	*	22.00	58,215.00
1925/26	742,723	18,270	52,420.00	*	*	32.00	57,255.00
1926/27	787,127	10,188	53,901.89	*	*	20.00	71,125.00
1927/28	780,790	18,922	53,384.58	*	*	20.00	58,700.00
1928/29	804,239	13,117	53,299.47	53,054.99	*	21.00	36,600.00
1929/30	831,000	23,000	36,207.00	44,306.00	*	20.00	38,600.00
1930/31	855,596	32,815	34,566.00	38,608.00	*	21.00	43,600.00
1931/32	877,393	21,796	38,638.00?	33,322.00	*	21.00	43,598.00
1932/33	901,627	20,061	60,523.00	51,750.00	*	36.00	73,145.00
1933/34	917,942	15,315	52,774.00	52,109.00	*	38.00	68,106.00
1934/35	939,724	16,885	52,771.59	52,579.00	*	39.00	65,741.00
1935/36	955,681	16,892	53,319.92	68,228.00	*	42.00	73,052.00
1936/37	985,262	28,628	61,628.00	69,950.00	*	43.00	72,262.00
1937/38	1,010,170	24,859	66,151.00	72,510.00	*	45.00	77,590.00
1938/39	1,036,404	26,234	66,036.00	69,076.00	*	45.00	84,459.00
1939/40	1,063,203	26,797	57,470.00	77,934.00	*	45.00	84,480.00
1940/41	1,094,117	25,287	56,964.00	83,475.00	*	47.00	86,520.00
1941/42	1,120,967	41,217	53,828.00	90,221.00	*	47.00	88,048.00
1942/43	1,142,579	21,612	53,911.00	63,198.00	*	46.00	85,388.00
1943/44	1,147,492	21,906	54,884.00	90,126.00	*	47.00	91,130.00
1944/45	1,170,943	23,237	46,812.00	93,329.00	*	48.00	97,930.00
1945/46	1,206,195	26,960	65,568.00	127,830.00	*	70.00	144,106.00
1946/47	1,299,798	32,729	121,422.00	161,997.00	*	124.50	180,298.00
1947/48	1,350,636	50,585	172,932.00	172,462.00	*	131.00	261,138.00
1948/49	1,396,789	49,716	180,535.00	167,353.00	*	107.29	366,243.00
1949/50	1,463,968	65,946	181,038.00	185,968.00	*	126.66	354,550.00
1950/51	1,509,728	44,420	195,499.00	188,851.00	*	144.50	368,093.00
1951/52	1,559,614	52,766	194,940.00	228,475.00	*	150.25	431,150.00
1952/53	1,612,956	55,844	206,652.00	217,169.00	*	161.50	489,858.00
1953/54	1,674,735	64,775	240,705.00	252,740.00	*	169.00	516,354.00
1954/55	1,745,987	74,742	261,719.00	*	893,358	171.33	561,126.00
1955/56	1,812,826	71,432	295,520.00	*	1,005,013	182.67	600,947.00
1956/57	1,870,728	63,224	335,597.00	*	1,092,185	185.00	675,001.00
1957/58	1,967,599	79,872	361,724.00	*	1,216,049	196.00	756,662.00
1958/59	2,043,026	79,672	417,629.00	*	1,325,106	224.00	823,621.00
1959/60	2,116,230	78,233	501,528.00	*	1,458,555	223.00	929,415.00
1960/61	2,198,654	97,509	528,410.00	*	1,724,452	272.00	1,066,061.00
1961/62	2,278,046	135,260	684,283.00	*	2,134,898	280.00	1,290,153.00
							160,462

GEROULD DATA FOR DARTMOUTH

INSTITUTION
NUMBER: 2300

YEAR	VOLUMES	VOLUMES ADDED	MATERIALS EXPENDITURES	APPROPS.	TOTAL EXPENDITURES	STAFF	SALARIES	WAGES
1913/14	130,200	3,778	7,790.00	10,310.00	*	7.00	10,075.00	*
1914/15	*	*	*	*	*	*	*	*
1915/16	*	*	*	*	*	*	*	*
1916/17	*	*	*	*	*	*	*	*
1917/18	*	*	*	*	*	*	*	*
1918/19	*	*	*	*	*	*	*	*
1919/20	*	*	*	*	*	*	*	*
1920/21	175,000	8,500	23,570.00	28,220.00	*	11.00	18,773.00	*
1921/22	180,000	9,170	27,050.00	27,050.00	*	12.00	19,690.00	*
1922/23	185,000	10,297	28,776.50	*	*	13.00	22,113.83	*
1923/24	195,000	12,440	28,817.00	31,000.00	*	15.00	28,460.00	*
1924/25	215,000	13,044	32,008.00	30,350.00	*	17.00	32,000.00	*
1925/26	226,000	9,780	31,154.00	34,200.00	*	19.00	37,700.00	*
1926/27	235,000	8,500	34,500.00	50,000.00	*	19.00	39,600.00	*
1927/28	240,000	11,715	52,239.00	62,250.00	*	28.00	57,000.00	*
1928/29	299,790	14,138	57,020.00	105,300.00	*	37.00	62,000.00	*
1929/30	331,146	18,986	72,480.00	71,303.00	*	46.00	66,671.00	*
1930/31	330,000	22,400	84,800.00	107,800.00	*	48.00	79,700.00	*
1931/32	351,907	23,002	78,611.00	87,000.00	*	48.00	79,800.00	*
1932/33	370,678	18,771	61,201.61	53,500.00	*	47.00	77,515.00	*
1933/34	387,000	15,958	59,322.00	79,950.00	*	47.00	69,182.00	*
1934/35	402,643	15,643	54,375.00	83,224.00	*	47.00	71,916.00	*
1935/36	418,451	15,808	55,822.00	82,900.00	*	47.00	72,743.00	*
1936/37	434,947	16,496	63,919.00	90,200.00	*	47.00	72,743.00	*
1937/38	454,005	19,058	70,417.58	77,300.00	*	49.00	74,488.98	*
1938/39	497,009	19,232	59,401.94	73,750.00	*	46.00	69,683.12	*
1939/40	512,400	15,391	48,896.29	56,300.00	*	56.00	73,633.19	*
1940/41	527,801	15,170	44,172.00	90,536.00	*	49.50	73,493.00	*
1941/42	543,973	16,172	45,927.00	97,954.00	*	56.00	80,808.00	*
1942/43	558,788	14,815	52,048.62	98,900.00	*	56.00	75,296.82	*
1943/44	576,957	18,169	50,291.00	54,677.00	*	56.00	84,731.00	*
1944/45	597,424	20,467	56,922.00	100,751.00	*	59.00	92,740.00	*
1945/46	618,474	21,050	64,902.00	85,347.00	*	66.50	100,192.00	*
1946/47	635,367	16,893	73,381.97	73,712.77	*	67.00	112,259.74	*
1947/48	658,915	19,016	64,074.00	66,129.00	*	63.00	114,975.00	*
1948/49	671,727	12,812	59,367.00	67,776.00	*	71.50	126,325.00	*
1949/50	666,443	11,438	57,542.00	57,700.00	*	57.50	118,819.00	9,148
1950/51	679,785	13,342	63,208.00	75,400.00	*	59.50	142,186.00	8,000

GEROULD DATA FOR DUKE

INSTITUTION
NUMBER: 2400

YEAR	VOLUMES	VOLUMES ADDED	MATERIALS EXPENDITURES	APPROPS.	TOTAL EXPENDITURES	STAFF	SALARIES	WAGES
1928/29	151,520	28,860	95,406.16	95,000.00	*	26.00	35,560.00	*
1929/30	192,915	41,495	155,384.00	124,200.00	*	25.00	42,230.00	*
1930/31	246,280	55,380	171,106.21	140,000.00	*	52.00	79,964.26	*
1931/32	307,601	61,321	242,004.18	50,000.00	*	54.00	93,730.00	*
1932/33	347,302	43,039	88,123.70	62,000.00	*	53.00	95,470.00	*
1933/34	387,737	40,435	74,364.00	102,500.00	*	54.00	85,533.00	*
1934/35	421,517	33,780	124,405.22	106,000.00	*	54.00	96,492.00	*
1935/36	452,444	32,180	141,977.00	128,000.00	*	56.00	100,337.00	*
1936/37	487,592	35,148	134,247.48	120,000.00	*	55.00	105,796.75	*
1937/38	529,060	41,548	135,695.88	120,000.00	*	68.00	111,463.49	*
1938/39	569,140	40,578	124,858.30	100,000.00	*	65.00	99,519.24	*
1939/40	600,235	31,695	119,077.84	120,000.00	*	65.00	116,241.17	*
1940/41	631,049	31,728	119,411.91	110,000.00	*	65.00	103,584.98	*
1941/42	659,044	30,206	101,072.14	100,000.00	*	60.00	111,989.33	*
1942/43	681,095	23,994	100,423.24	*	*	57.00	98,238.87	*
1943/44	705,925	24,738	86,803.00	118,482.00	*	66.00	107,024.00	*
1944/45	722,613	17,611	110,460.00	110,000.00	*	64.00	101,932.00	*
1945/46	740,493	18,902	116,768.67	100,000.00	*	70.00	122,824.44	*
1946/47	898,444	26,208	144,465.00	110,000.00	*	74.00	153,665.00	*
1947/48	927,701	30,868	160,720.00	140,000.00	*	73.00	169,756.00	*
1948/49	960,859	34,240	130,988.00	135,000.00	*	92.00	204,097.00	*
1949/50	994,233	34,776	163,254.00	150,000.00	*	82.00	193,522.00	31,149
1950/51	1,038,898	45,643	166,679.00	160,000.00	*	83.50	204,811.00	30,981
1951/52	1,085,166	47,722	185,454.00	185,000.00	*	83.00	215,668.00	31,541
1952/53	1,123,598	43,276	180,522.00	185,000.00	*	87.00	215,938.00	31,558
1953/54	1,159,153	35,651	186,988.00	185,000.00	*	79.50	234,187.00	31,659
1954/55	1,198,497	40,757	191,177.00	*	465,775	81.00	244,858.00	29,740
1955/56	1,244,880	47,748	224,963.00	*	516,355	81.25	260,965.00	30,426
1956/57	1,292,448	50,514	235,311.00	*	536,511	82.63	273,609.00	27,593
1957/58	1,343,768	53,860	250,104.00	*	629,040	86.38	322,420.00	29,329
1958/59	1,390,544	48,488	279,969.00	*	667,106	86.83	354,632.00	31,505
1959/60	1,435,164	45,775	286,890.00	*	725,104	93.00	403,799.00	34,415
1960/61	1,493,022	60,455	362,820.00	*	840,629	98.50	427,803.00	50,006
1961/62	1,540,063	47,041	480,416.00	*	1,050,430	115.50	507,464.00	62,550

GEROULD DATA FOR FLORIDA

INSTITUTION
NUMBER: 2600

YEAR	VOLUMES	VOLUMES ADDED	MATERIALS EXPENDITURES	APPROPS.	TOTAL EXPENDITURES	STAFF	SALARIES	WAGES
1956/57	736,855	37,600	187,068.00	*	616,475	111.00	369,894.00	59,513
1957/58	788,731	39,335	316,590.00	*	860,780	131.50	479,446.00	64,142
1958/59	827,791	44,556	331,908.00	*	935,488	139.50	534,503.00	69,077
1959/60	875,088	50,684	292,667.00	*	932,697	142.00	568,903.00	71,127
1960/61	917,739	45,227	297,119.00	*	957,137	142.60	584,428.00	75,590
1961/62	970,429	52,690	317,924.00	*	1,030,286	145.60	635,564.00	76,798

GEROULD DATA FOR HARVARD

INSTITUTION
NUMBER: 3100

YEAR	VOLUMES	VOLUMES ADDED	MATERIALS EXPENDITURES	TOTAL APPROPS. EXPENDITURES	STAFF	SALARIES	WAGES
1909/10	*&	*&	*&	*&	*&	*&	
1910/11	*	*	*	*	*	*	*
1911/12	*	*	*	*	*	*	*
1912/13	*&	*&	*&	*&	*&	*&	*
1913/14	1,121,236	38,375	*	*	*	*	*
1914/15	*	*	*	*	*	*	*
1915/16	1,230,190	46,731	*	*	*	*	*
1916/17	1,780,000	56,404	72,319.00	*	*	*	*
1917/18	*&	*&	*	*	*	*	*
1918/19	*	*	*	*	*	*	*
1919/20	2,028,000	87,500	90,720.00	*	*	*	*
1920/21	2,101,200	73,100	107,053.00	*	*	*	*
1921/22	2,187,900	86,700	111,757.00	*	*	*	*
1922/23	2,256,500	68,600	126,591.00	*	*	98,645.00	*
1923/24	2,322,400	88,800	156,598.00	*	*	102,017.00	*
1924/25	2,416,500	94,100	157,040.00?	*	*	103,653.00	*
1925/26	2,497,200	81,459	179,807.00	*	*	106,406.00	*
1926/27	2,622,400	119,596	125,228.00	*	*	122,960.00	*
1927/28	2,784,300	151,500	236,597.00	*	*	132,365.00	*
1928/29	2,866,200	123,640	636,666.65	*	*	138,900.00	*
1929/30	2,971,600	105,400	326,939.32	*	106.00	152,525.00	*
1930/31	3,165,400	193,800	365,391.37	*	109.00	175,135.92	*
1931/32	3,341,700	138,986	380,101.12	*	131.00	177,656.00	*
1932/33	3,472,000	122,418	216,548.00	*	113.00	161,404.00	*
1933/34	3,603,040	131,106	215,737.00	*	117.00	162,357.00	*
1934/35	3,696,620	98,580	251,348.00	*	118.00	163,995.00	*
1935/36	3,795,502	132,473	242,291.52	*	113.00	166,204.00	*
1936/37	3,863,050	67,448	292,924.27?	*	110.00	167,679.08	*
1937/38	3,941,359	99,028	297,614.15	*	120.00	192,034.54	*
1938/39	4,079,541	136,280	248,458.20	*	148.00	226,532.84	*
1939/40	4,159,606	79,888	266,515.90	*	169.00	222,681.29	*
1940/41	4,265,792	106,186	272,442.93	*	175.00	251,915.28	*
1941/42	4,400,870	135,078	225,660.74	*	161.00	240,273.54	*
1942/43	4,513,163	112,293	215,800.53	*	153.00	259,151.93	*
1943/44	4,608,862	95,700	233,243.00	196,590.00	148.00	464,276.00	*
1944/45	4,702,292	93,430	255,454.00	241,806.00	154.00	488,500.00	*
1945/46	4,804,968	102,676	362,938.63	265,014.00	172.00	543,363.00	*
1946/47	4,965,731	160,516	410,015.22	291,212.00	197.40	398,162.26	*
1947/48	5,119,976	151,648	467,469.00	286,818.00	206.00	425,641.00	*
1948/49	5,230,226	110,250	457,330.00	336,858.00	393.00	872,363.00	*
1949/50	5,397,286	167,060	525,109.00	358,568.00	346.60	846,894.00	25,000
1950/51	5,542,674	145,388	457,568.87	358,285.00	338.25	855,911.00	45,000
1951/52	5,648,794	106,120	475,700.00	375,499.00	337.25	890,000.00	45,000
1952/53	5,702,947	54,153	598,332.00	392,564.00	340.37	981,615.00	45,000
1953/54	5,832,912	129,965	506,422.00	370,077.00	358.00	1,057,510.00	50,000
1954/55	5,955,766	122,650	546,015.00	*	1,741,169	1,125,154.00	70,000
1955/56	6,085,761	129,995	595,374.00	*	1,842,374	1,177,000.00	70,000
1956/57	6,225,447	139,686	551,270.00	*	1,871,703	1,246,933.00	73,500
1957/58	6,350,227	162,186	661,847.00	*	2,365,966	1,552,752.00	151,367
1958/59	6,492,124	142,677	806,616.00	*	2,751,018	1,741,815.00	202,587
1959/60	6,697,111	204,651	903,630.00	*	2,962,580	1,875,892.00	183,058
1960/61	6,848,635	151,524	926,547.00	*	3,291,163	2,136,209.00	228,407
1961/62	6,931,293	82,658	1,023,889.00	*	3,621,908	2,354,122.00	243,897

GEROULD DATA FOR ILLINOIS

INSTITUTION
NUMBER: 3500

YEAR	VOLUMES		MATERIALS		TOTAL		STAFF	SALARIES	WAGES
	VOLUMES	ADDED	EXPENDITURES	APPROPS.	EXPENDITURES				
1907/08	108,383	12,437	34,714.00	*	*	30.00	18,972.00	*	
1908/09	*	*	*	*	*	*	*	*	
1909/10	163,549	30,730	53,780.00	25,000.00	*	33.00	29,280.00	*	
1910/11	*	*	*	*	*	*	*	*	
1911/12	212,720	29,158	56,533.00	32,000.00	*	40.00	39,000.00	*	
1912/13	233,586	24,057	45,000.00	50,000.00	*	42.00	37,400.00	*	
1913/14	262,926	29,340	86,000.00	*	*	51.00	47,000.00	*	
1914/15	326,893	44,306	57,225.00	55,000.00	*	51.00	47,438.00	*	
1915/16	343,170	30,303	53,808.00	60,500.00	*	54.00	53,121.00	*	
1916/17	384,452	30,787	56,074.00	55,000.00	*	51.00	62,310.00	*	
1917/18	403,257	25,299	59,143.00	55,000.00	*	47.00	63,860.00	*	
1918/19	418,949	23,454	53,136.00	55,000.00	*	58.00	61,849.00	*	
1919/20	440,372	21,423	43,000.00	45,000.00	*	51.00	52,384.00	*	
1920/21	456,503	17,352	53,000.00	57,000.00	*	42.00	55,184.00	*	
1921/22	480,595	28,873	72,919.00	62,500.00	*	51.00	77,795.00	*	
1922/23	541,942	28,506	97,113.00	93,400.00	*	58.00	108,407.00	*	
1923/24	567,787	25,863	106,210.00	88,900.00	*	56.00	105,097.00	*	
1924/25	655,139	32,678	105,779.00	89,500.00	*	57.00	121,898.00	*	
1925/26	687,345	32,206	114,076.00	89,500.00	*	62.00	110,494.00	*	
1926/27	708,850	25,522	109,512.00	96,100.00	*	51.00	132,838.00	*	
1927/28	768,329	59,579	127,006.00	98,100.00	*	63.00	143,302.00	*	
1928/29	800,330	32,001	117,599.00	113,000.00	*	65.00	121,974.00	*	
1929/30	841,395	35,086	126,286.50	115,325.00	*	68.00	158,409.00	*	
1930/31	887,884	36,489	134,889.36	120,325.00	*	69.00	164,769.94	*	
1931/32	916,452	38,568	103,634.00	101,775.00	*	65.00	183,868.00	*	
1932/33	947,043	30,591	94,456.20	94,125.00	*	87.00	169,179.00	*	
1933/34	978,212	31,169	94,648.00	102,000.00	*	76.00	134,389.00	*	
1934/35	1,011,938	34,155	103,535.86	115,250.00	*	85.00	161,776.00	*	
1935/36	1,052,684	40,746	113,910.70	117,250.00	*	84.00	171,742.00	*	
1936/37	1,086,212?	33,528	117,557.89	139,773.00	*	90.00	151,318.00	*	
1937/38	1,130,584	43,298	139,565.00	139,700.00	*	118.00	180,233.00	*	
1938/39	1,175,692	45,108	138,859.99	135,700.00	*	120.00	193,926.76	*	
1939/40	1,209,977	34,285	135,189.39	133,700.00	*	126.00	204,552.00	*	
1940/41	1,262,046	44,371	133,724.68	137,500.00	*	138.00	244,124.00	*	
1941/42	1,306,561	44,515	156,682.00	141,200.00	*	138.00	244,124.00	*	
1942/43	1,364,906	58,455	164,362.86	137,000.00	*	148.00	245,252.83	*	
1943/44	1,881,432	65,632	153,979.00	154,000.00	*	154.00	276,816.00	*	
1944/45	1,964,308	61,621	200,251.00	133,000.00	*	152.00	281,430.00	*	
1945/46	2,003,622	58,424	220,915.31	135,500.00	*	149.26	326,477.78	*	
1946/47	2,076,212	72,590	267,907.69	265,850.00	*	216.00	571,772.00	*	
1947/48	2,185,108	108,896	312,910.00	280,000.00	*	201.00	555,718.00	*	
1948/49	2,283,501	98,393	375,158.00	296,660.00	*	195.54	439,057.00	*	
1949/50	2,383,503	100,002	346,889.00	359,000.00	*	220.18	694,607.00	104,666	
1950/51	2,476,954	93,451	385,444.00	339,000.00	*	233.25	739,819.00	96,215	
1951/52	2,570,278	93,324	378,006.00	334,000.00	*	234.08	794,039.00	100,635	
1952/53	2,656,103	85,825	425,445.00	400,000.00	*	233.50	814,368.00	101,900	
1953/54	2,789,863	133,760	436,000.00	400,000.00	*	242.75	842,919.00	92,742	
1954/55	2,888,557	98,694	447,240.00	*	1,394,124	244.75	857,016.00	89,868	
1955/56	2,978,597	90,040	491,554.00	*	1,539,967	252.00	952,480.00	95,933	
1956/57	3,049,741	88,601	493,438.00	*	1,573,930	255.00	974,183.00	106,309	
1957/58	3,125,882	88,067	486,289.00	*	1,727,228	259.00	1,121,870.00	119,069	
1958/59	3,209,404	93,461	536,065.00	*	1,833,723	273.00	1,182,314.00	115,344	
1959/60	3,288,158	93,908	666,924.00	*	2,069,843	269.00	1,274,807.00	128,122	
1960/61	3,383,384	95,246?	705,415.00	*	2,231,298	269.00	1,370,869.00	155,014	
1961/62	3,525,820	142,436	810,445.00	*	2,467,872	265.75	1,500,184.00	157,243	

GEROULD DATA FOR INDIANA

INSTITUTION
NUMBER: 3600

YEAR	VOLUMES	VOLUMES ADDED	MATERIALS EXPENDITURES	APPROPS.	TOTAL EXPENDITURES	STAFF	SALARIES	WAGES
1907/08	70,000	4,500	10,000.00	*	*	8.00	8,500.00	*
1908/09	*	*	*	*	*	*	*	*
1909/10	74,961	6,600	13,000.00	*	*	7.00	6,475.00	*
1910/11	*	*	*	*	*	*	*	*
1911/12	86,521	4,919	9,900.00	9,900.00	*	6.00	7,000.00	*
1912/13	91,591	4,550	9,975.00	*	*	7.00	7,500.00	*
1913/14	104,287	12,687	14,160.69	*	*	8.00	8,800.00	*
1914/15	104,502	5,939	14,215.70	*	*	8.00	11,600.00	*
1915/16	117,454	6,374	11,637.08	13,910.00	*	8.00	12,000.00	*
1916/17	119,441	7,961	12,322.29	*	*	7.00	10,300.00	*
1917/18	126,013	6,572	5,649.53	*	*	7.00	10,300.00	*
1918/19	130,400	4,400	6,302.45	9,195.00	*	7.00	12,900.00	*
1919/20	134,128	4,728	8,308.37	8,800.00	*	10.00	16,120.00	*
1920/21	141,658	6,529	13,336.39	15,632.00	*	11.00	19,200.00	*
1921/22	149,160	7,480	19,276.00	15,935.00	*	10.00	26,800.00	*
1922/23	155,850	6,689	16,882.00	*	*	10.00	27,700.00	*
1923/24	166,000	6,299	18,500.00	*	*	11.00	20,300.00	*
1924/25	171,359	8,700	21,157.00	19,635.00	*	11.00	33,490.00	*
1925/26	178,851	8,825	20,366.97	19,400.00	*	11.00	21,800.00	*
1926/27	188,199	7,349	18,983.46	25,875.00	*	20.00	37,684.00	*
1927/28	187,384	10,403	29,041.16	18,275.00	*	19.00	32,200.00	*
1928/29	197,787	8,092	24,347.23	29,025.00	*	21.00	40,600.00	*
1929/30	218,344	20,588	31,355.37	34,775.00	*	21.00	40,600.00	*
1930/31	218,800	14,500	32,836.28	33,855.00	*	22.00	40,600.00	*
1931/32	247,320	14,034	32,027.09	23,801.75	*	21.00	40,400.00	*
1932/33	256,786	9,480	24,829.96	22,662.25	*	21.00	50,225.00	*
1933/34	269,438	12,664	25,962.00	37,514.00	*	21.00	45,531.00	*
1934/35	282,656	13,237	25,334.34	23,560.00	*	21.00	36,911.00	*
1935/36	292,894	10,294	28,685.43	29,033.00	*	20.00	44,387.00	*
1936/37	304,575	11,806	29,090.53	22,662.60	*	21.00	38,950.00	*
1937/38	316,776	12,201	46,065.60	48,899.50	*	20.00	38,950.00	*
1938/39	329,451	12,675	51,605.30	62,723.70	*	22.00	41,450.00	*
1939/40	349,765	15,900	62,248.24	61,304.00	*	22.00	41,600.00	*
1940/41	437,009	22,234	62,986.25	64,054.00	*	22.00	41,900.00	*
1941/42	436,183	22,046	74,116.00	67,916.00	*	37.00	57,650.00	*
1942/43	478,340	20,005	127,765.00	108,750.00	*	46.00	77,700.00	*
1943/44	485,329	18,633	138,852.00	130,000.00	*	50.00	101,440.00	*
1944/45	590,036	35,000	141,024.00	127,000.00	*	56.00	119,233.00	*
1945/46	618,000	37,724	121,000.00	110,000.00	*	68.00	140,000.00	*
1946/47	703,944	39,122	158,250.00	170,000.00	*	67.00	132,000.00	*
1947/48	755,727	51,763	191,000.00	200,000.00	*	76.00	170,000.00	*
1948/49	800,329	39,212	222,000.00	250,000.00	*	103.00	215,000.00	*
1949/50	796,797	40,000	213,000.00	230,000.00	*	84.50	220,000.00	30,000
1950/51	831,755	40,000	254,000.00	260,000.00	*	85.00	223,200.00	32,800
1951/52	869,805	38,050	257,416.00	213,000.00	*	93.67	321,405.00	40,000
1952/53	910,076	40,271	252,764.00	233,000.00	*	94.67	328,896.00	39,000
1953/54	946,599	36,523	256,000.00	225,500.00	*	93.50	326,895.00	46,817
1954/55	976,909	*	262,850.00	*	684,850	95.00	375,150.00	46,850
1955/56	1,059,850	*	293,000.00	*	709,000	98.00	365,000.00	51,000
1956/57	1,106,299	*	310,800.00	*	759,400	98.00	387,250.00	61,350
1957/58	1,190,566	*	419,956.00	*	972,874	107.00	451,037.00	77,655
1958/59	1,258,038	*	432,684.00	*	957,911	109.00	443,475.00	81,752
1959/60	1,317,269	*	454,029.00	*	983,907	115.00	440,340.00	89,538
1960/61	1,414,286	*	496,736.00	*	1,196,415	121.00	559,141.00	107,331
1961/62	1,828,992	*	571,812.00	*	1,339,002	139.00	643,450.00	123,740

GEROULD DATA FOR IOWA

INSTITUTION
NUMBER: 3700

YEAR	VOLUMES	VOLUMES ADDED	MATERIALS EXPENDITURES	APPROPS.	TOTAL EXPENDITURES	STAFF	SALARIES	WAGES
1907/08	72,300	5,176	4,250.00	*	*	6.00	5,120.00	*
1908/09	*	*	*	*	*	*	*	*
1909/10	80,100	6,004	12,200.00	12,800.00	*	8.00	6,900.00	*
1910/11	*	*	*	*	*	*	*	*
1911/12	108,947	8,239	17,700.00	17,500.00	*	11.00	9,280.00	*
1912/13	103,000	8,039	13,680.00	15,000.00	*	9.00	10,040.00	*
1913/14	107,250	8,002	14,564.00	15,000.00	*	10.00	7,540.00	*
1914/15	114,895	7,688	15,000.00	15,000.00	*	11.00	8,800.00	*
1915/16	140,925	8,347	17,500.00	17,500.00	*	12.00	11,490.00	*
1916/17	149,140	9,080	17,511.00	30,000.00	*	13.00	10,710.00	*
1917/18	159,251	9,000	18,000.00	25,000.00	*	11.00	10,320.00	*
1918/19	170,365	11,114	30,307.00	38,222.00	*	13.00	14,810.00	*
1919/20	184,959	13,294	31,400.00	30,000.00	*	13.00	23,365.00	*
1920/21	200,583	20,246	33,478.17	36,000.00	*	16.00	20,735.00	*
1921/22	183,629	9,956	30,000.00	30,000.00	*	18.00	23,560.00	*
1922/23	192,924	9,595	38,078.00	41,000.00	*	17.00	22,528.13	*
1923/24	207,851	15,500	73,451.00	50,000.00	*	23.00	33,760.00	*
1924/25	231,469	23,850	80,836.00	50,000.00	*	47.00	59,014.00	*
1925/26	250,363	19,381	57,439.18	46,000.00	*	44.00	73,719.80	*
1926/27	266,132	17,965	52,879.08	46,000.00	*	34.00	73,696.95	*
1927/28	279,575	13,444	47,136.42	40,000.00	*	40.00	77,785.00	*
1928/29	295,794	16,219	48,782.18	60,000.00	*	40.00	78,445.00	*
1929/30	314,502	20,411	94,359.54	55,000.00	*	43.00	83,640.00	*
1930/31	333,092	20,337	104,646.40	55,000.00	*	47.00	96,174.11	*
1931/32	352,192	19,100	55,905.99	*	*	48.00	97,476.00	*
1932/33	366,212	16,746	116,695.61	30,000.00	*	49.00	90,096.00	*
1933/34	380,665	16,779	34,408.00	34,000.00	*	50.00	82,789.00	*
1934/35	390,490	19,258	38,573.20	34,000.00	*	50.00	83,760.00	*
1935/36	411,889	15,965	54,162.64	34,000.00	*	51.00	83,823.00	*
1936/37	428,144	17,081	49,322.68	34,000.00	*	51.00	87,473.78	*
1937/38	441,396	14,595	45,570.67	34,000.00	*	53.00	98,869.95	*
1938/39	455,704	15,923	47,378.13	34,000.00	*	53.00	74,937.84	*
1939/40	473,238	18,816	53,202.97	45,000.00	*	53.00	76,617.11	*
1940/41	492,819	20,602	45,915.99	45,000.00	*	53.00	77,325.70	*
1941/42	507,644	16,451	45,031.26	44,400.00	*	53.00	76,857.62	*
1942/43	522,852	16,739	55,460.03	44,400.00	*	53.00	76,956.45	*
1943/44	537,667	14,815	51,394.00	66,907.00	*	50.50	85,139.00	*
1944/45	555,879	18,846	66,982.00	50,000.00	*	48.00	95,829.00	*
1945/46	665,930	17,043	71,924.00	83,500.00	*	51.50	98,417.00	*
1946/47	676,464	19,396	78,990.00	97,500.00	*	51.00	116,871.00	*
1947/48	693,831	17,276	99,433.00	102,000.00	*	57.00	150,173.00	*
1948/49	619,066	15,442	102,719.00	86,500.00	*	109.00	221,183.00	*
1949/50	633,057	18,497	102,971.00	100,000.00	*	65.25	189,482.00	49,841
1950/51	649,282	17,521	102,849.38	100,000.00	*	70.25	192,697.00	46,904
1951/52	773,205	22,205	129,385.00	100,000.00	*	82.50	233,480.00	38,474
1952/53	800,252	30,041	132,816.00	115,000.00	*	77.25	246,198.00	49,170
1953/54	826,838	30,216	154,227.00	156,500.00	*	78.50	271,875.00	40,318
1954/55	860,585	35,569	166,232.00	*	465,232	79.00	259,605.00	39,395
1955/56	898,041	41,218	196,357.00	*	513,292	79.00	272,530.00	44,405
1956/57	931,816	38,152	222,648.00	*	548,023	*	277,400.00	47,975
1957/58	959,934	31,889	221,417.00	*	607,636	79.00	330,367.00	55,852
1958/59	988,732	36,831	273,504.00	*	670,465	79.50	339,958.00	57,003
1959/60	1,021,441	35,837	247,912.00	*	694,529	80.50	388,653.00	57,964
1960/61	1,056,508	36,579	362,544.00	*	822,199	82.00	399,758.00	59,897
1961/62	1,096,996	42,413	337,280.00	*	842,826	86.00	433,687.00	71,859

GEROULD DATA FOR IOWA STATE

INSTITUTION
NUMBER: 3800

YEAR	VOLUMES	VOLUMES ADDED	MATERIALS EXPENDITURES	APPROPS.	TOTAL EXPENDITURES	STAFF	SALARIES	WAGES
1927/28	157,070	13,303	50,400.00	55,400.00	*	25.00	47,600.00	*
1928/29	168,780	12,081	55,220.00	55,220.00	*	32.00	55,090.00	*
1929/30	181,056	13,020	53,300.00	57,210.00	*	29.00	54,040.00	*
1930/31	191,888	12,083	53,200.00	52,500.00	*	27.00	53,000.00	*
1931/32	202,950	11,590	51,485.00	51,542.00	*	28.00	52,437.00	*
1932/33	215,260	12,683	60,000.00	48,881.00	*	28.00	43,544.00	*
1933/34	225,526	10,812	49,000.00	49,000.00	*	27.00	44,200.00	*
1934/35	235,968	11,010	49,000.00	48,000.00	*	30.00	44,200.00	*
1935/36	245,115	10,256	53,378.00	47,608.00	*	31.00	50,089.00	*
1936/37	256,903	12,846	50,856.00	50,900.00	*	27.00	47,713.00	*
1937/38	268,043	11,826	57,992.15	50,900.00	*	28.00	48,874.91	*
1938/39	281,493	14,096	58,440.58	51,000.00	*	32.00	44,021.37	*
1939/40	300,780	16,671	54,700.13	51,000.00	*	36.00	52,475.00	*
1940/41	313,715	17,515	51,104.32	51,000.00	*	37.00	51,929.03	*
1941/42	324,821	12,706	46,035.08	49,400.00	*	37.00	52,598.28	*
1942/43	336,362	12,825	44,244.26	59,400.00	*	39.00	54,689.34	*
1943/44	345,706	10,432	43,738.00	79,400.00	*	42.00	63,135.00	*
1944/45	354,742	9,607	51,764.00	79,400.00	*	44.00	70,781.00	*
1945/46	364,796	10,947	62,757.40	79,000.00	*	43.00	71,990.00	*
1946/47	376,946	12,606	69,512.84	79,000.00	*	52.00	84,649.08	*
1947/48	390,371	13,425	66,381.00	79,000.00	*	52.00	92,949.00	*
1948/49	401,759	11,388	80,479.00	79,000.00	*	58.00	111,729.00	*
1949/50	413,103	11,345	83,190.00	78,000.00	*	48.50	102,152.00	14,753
1950/51	423,385	13,126	75,898.09	91,000.00	*	47.50	109,051.00	14,421
1951/52	427,655	12,260	88,679.00	91,000.00	*	46.50	127,570.00	18,053
1952/53	435,997	11,745	88,724.00	98,000.00	*	46.00	136,382.00	18,414
1953/54	443,065	11,873	95,098.00	100,000.00	*	46.50	151,688.00	21,393
1954/55	451,444	12,205	100,064.00	*	270,941	46.50	151,153.00	19,724
1955/56	460,693	12,248	99,926.00	*	278,767	46.50	154,684.00	24,157
1956/57	470,927	11,105	100,085.00	*	277,292	46.50	152,303.00	24,904
1957/58	483,261	12,912	118,999.00	*	324,866	47.50	175,662.00	30,205
1958/59	495,684	13,072	123,942.00	*	341,477	48.00	186,714.00	30,821
1959/60	507,720	12,958	136,975.00	*	387,474	47.50	215,825.00	34,674
1960/61	518,647	14,503	156,015.00	*	404,520	48.00	216,873.00	31,632
1961/62	528,003	15,065	151,988.00	*	410,836	51.00	212,264.00	46,584

GEROULD DATA FOR JOHNS HOPKINS

INSTITUTION
NUMBER: 3900

YEAR	VOLUMES		MATERIALS		TOTAL		STAFF	SALARIES	WAGES
	VOLUMES	ADDED	EXPENDITURES	APPROPS.	EXPENDITURES				
1909/10	%	%	%	%			%	%	
1910/11	*	*	*	*	*	*	*	*	*
1911/12	166,399	9,219	18,500.12	14,000.00	*	14.00	10,879.00	*	
1912/13	174,777	8,056	16,064.00	16,342.00	*	15.00	11,584.00	*	
1913/14	182,678	7,901	18,743.45	22,000.00	*	26.00	16,766.23	*	
1914/15	190,814	8,136	15,253.13	22,000.00	*	14.00	11,837.50	*	
1915/16	195,879	5,065	15,729.57	18,500.00	*	13.00	11,783.00	*	
1916/17	202,247	6,368	14,168.13	25,980.05	*	16.00	13,542.50	*	
1917/18	208,237	5,990	13,280.15	26,273.39	*	17.00	13,611.50	*	
1918/19	216,137	7,900	14,345.15	25,846.48	*	17.00	17,060.00	*	
1919/20	226,272	9,804	22,878.30	24,800.00	*	20.00	22,619.00	*	
1920/21	234,857	8,585	27,054.99	22,800.00	*	20.00	21,713.50?	*	
1921/22	244,920	10,063	24,073.70	24,285.00	*	22.00	30,692.90	*	
1922/23	257,377	12,457	27,471.58	30,963.35	*	23.00	35,327.00	*	
1923/24	266,637	9,272	29,121.96	27,819.47	*	22.00	35,121.84	*	
1924/25	273,527	6,890	33,232.00	37,102.00	*	23.00	36,105.00	*	
1925/26	283,242	9,715	37,566.12	34,000.00	*	24.00	39,735.20	*	
1926/27	293,067	9,825	44,142.16	35,071.14	*	26.00	41,130.50	*	
1927/28	307,016	14,013	40,274.00	56,716.00	*	27.00	41,130.00	*	
1928/29	354,774	47,758	50,034.48	52,750.00	*	33.00	58,759.00	*	
1929/30	376,775	15,992	64,202.84	75,025.00	*	36.00	58,776.00	*	
1930/31	401,215	24,440	81,988.39	73,498.00	*	33.00	79,798.96	*	
1931/32	423,501	22,286	65,495.32	58,000.00	*	32.00	75,740.00	*	
1932/33	446,206	22,705	68,568.79	60,000.00	*	33.00	78,272.00	*	
1933/34	463,260	17,054	54,618.00	50,000.00	*	32.00	74,650.00	*	
1934/35	472,024	8,764	40,756.21	45,000.00	*	33.00	71,418.00	*	
1935/36	481,163	9,139	38,789.95	40,000.00	*	32.00	66,496.00	*	
1936/37	510,675	33,013	43,940.48	45,000.00	*	40.00	62,616.83	*	
1937/38	535,243	24,568	43,195.45	45,000.00	*	40.00	63,075.00	*	
1938/39	552,850	17,607	40,413.30	42,000.00	*	41.00	64,846.63	*	
1939/40	568,064	15,214	40,031.01	44,000.00	*	41.00	65,814.61	*	
1940/41	582,747	14,683	41,117.03	44,000.00	*	42.00	67,057.68	*	
1941/42	663,581	77,238	38,461.82	40,000.00	*	41.00	65,640.07	*	
1942/43	689,024	15,039	29,188.00	30,000.00	*	35.00	60,573.60	*	
1943/44	703,912	14,888	30,054.00	40,000.00	*	35.00	63,157.00	*	
1944/45	718,259	14,347	35,456.00	42,000.00	*	42.00	75,417.00	*	
1945/46	737,760	19,501	39,413.63	65,000.00	*	53.00	87,817.03	*	
1946/47	760,271	22,511	60,661.49	65,000.00	*	57.00	109,186.22	*	
1947/48	781,701	21,834	80,791.00	67,329.00	*	64.00	121,661.00	*	
1948/49	808,579	26,878	80,434.00	75,000.00	*	68.00	142,915.00	*	
1949/50	839,804	31,225	82,828.00	78,000.00	*	68.00	140,645.00		8,112
1950/51	873,116	33,312	91,543.72	90,000.00	*	67.00	147,135.00		11,507
1951/52	906,300	33,200	88,447.00	80,000.00	*	63.00	151,548.00		8,597
1952/53	989,390	83,071	83,169.00	82,000.00	*	70.00	186,264.00		12,975
1953/54	1,048,102	58,712	83,828.00	90,000.00	*	70.50	184,433.00		13,175
1954/55	1,068,363	18,161	83,947.00	*	290,257	67.00	193,469.00		12,841
1955/56	1,076,266	18,437	94,449.00	*	343,620	70.50	210,775.00		20,696
1956/57	1,095,674	19,408	112,780.00	*	392,677	69.00	222,363.00		24,924
1957/58	1,118,438	19,387	116,864.00	*	381,026	72.00	250,714.00		13,448
1958/59	1,140,867	22,429	141,069.00	*	467,036	78.00	280,356.00		20,570
1959/60	1,159,747	20,190	160,673.00	*	474,642	80.00	300,210.00		13,758
1960/61	1,185,246	25,499	189,471.00	*	558,167	86.00	335,777.00		20,050
1961/62	1,207,246	20,601	198,785.00	*	617,278	83.00	395,883.00		22,610

GEROULD DATA FOR THE JOINT UNIVERSITY LIBRARIES

INSTITUTION
NUMBER: 4000

YEAR	VOLUMES	VOLUMES ADDED	MATERIALS EXPENDITURES	APPROPS.	TOTAL EXPENDITURES	STAFF	SALARIES	WAGES
1936/37	301,033	21,512	43,769.84	41,601.00	*	32.00	45,406.64	*
1937/38	323,557	24,672	40,372.47	52,403.90	*	32.00	51,402.28	*
1938/39	354,767	22,720	49,822.73	51,538.31	*	35.00	47,963.09	*
1939/40	374,340	22,741	48,682.24	52,300.44	*	35.00	49,222.89	*
1940/41	391,524	21,108	50,074.74	41,733.93	*	34.00	53,543.52	*
1941/42	409,626	18,102	36,895.34	40,169.97	*	35.00	67,129.29	*
1942/43	423,953	14,327	38,051.84	42,756.68	*	34.00	66,267.86	*
1943/44	437,924	13,971	36,574.00	49,039.00	*	31.00	58,502.00	*
1944/45	454,626	16,702	39,253.00	65,897.00	*	34.00	64,889.00	*
1945/46	470,365	15,739	54,122.86	79,699.59	*	38.00	65,786.31	*
1946/47	489,089	26,083	67,671.45	76,080.02	*	37.00	73,669.60	*
1947/48	515,853	27,788	86,344.00	101,151.00	*	43.00	126,739.00	*
1948/49	539,726	25,161	101,783.00	106,488.00	*	27.00	131,433.00	*
1949/50	567,072	28,514	113,445.00	109,252.00	*	43.00	95,738.00	36,821
1950/51	589,765	25,508	104,685.03	101,260.00	*	40.00	100,748.00	39,147
1951/52	611,385	22,904	92,211.00	99,693.00	*	42.50	109,438.00	30,349
1952/53	632,091	22,099	96,927.00	85,414.00	*	39.50	119,788.00	29,699
1953/54	655,274	23,183	83,220.00	89,298.00	*	40.50	121,347.00	30,965
1954/55	666,518	22,142	89,343.00	*	245,196	40.50	125,083.00	30,768
1955/56	685,154	24,484	96,035.00	*	262,577	39.00	128,851.00	37,690
1956/57	708,752	27,073	108,743.00	*	291,724	38.67	140,107.00	42,874
1957/58	733,568	24,616	118,835.00	*	320,833	40.67	155,423.00	46,575
1958/59	760,159	26,591	126,342.00	*	353,178	42.50	179,600.00	47,236
1959/60	785,282	27,243	133,941.00	*	386,480	49.50	204,804.00	47,735
1960/61	809,867	27,388	161,135.00	*	438,478	55.80	226,215.00	51,128
1961/62	841,305	34,600	213,943.00	*	524,967	59.70	248,937.00	62,087

GEROULD DATA FOR KANSAS

INSTITUTION
NUMBER: 4100

YEAR	VOLUMES		MATERIALS		TOTAL		STAFF	SALARIES	WAGES
	VOLUMES	ADDED	EXPENDITURES	APPROPS.	EXPENDITURES				
1907/08	62,340?	5,265?	8,000.00?	*	*	6.00?	5,050.00?	*	
1908/09	*	*	*	*	*	*	*	*	
1909/10	70,000	4,000	11,000.00	12,000.00	*	9.00	7,100.00	*	
1910/11	*	*	*	*	*	*	*	*	
1911/12	81,214	5,000	14,000.00	10,000.00	*	13.00	8,630.00	*	
1912/13	86,235	4,121	10,000.00	15,000.00	*	14.00	8,190.00	*	
1913/14	92,193	5,102	15,000.00	15,000.00	*	14.00	10,865.00	*	
1914/15	101,940	7,162	15,000.00	20,000.00	*	16.00	11,665.00	*	
1915/16	110,341	8,401	20,000.00	37,865.00	*	17.00	15,865.00	*	
1916/17	117,598	7,257	20,000.00	17,800.00	*	19.00	13,865.00	*	
1917/18	123,817	6,219	17,800.00	14,000.00	*	19.00	13,865.00	*	
1918/19	130,632	6,815	18,000.00	18,000.00	*	19.00	17,400.00	*	
1919/20	136,260	5,628	18,000.00	18,000.00	*	19.00	21,216.00	*	
1920/21	144,429	8,169	19,496.88	21,500.00	*	19.00	26,711.00	*	
1921/22	150,104?	5,675?	20,538.00?	17,700.00?	*	18.00?	28,430.00?	*	
1922/23	158,842	8,029	18,500.00	22,000.00	*	20.00	28,430.00	*	
1923/24	167,500	8,000	28,000.00	20,000.00	*	20.00	33,480.00	*	
1924/25	175,687	8,355	20,000.00	20,000.00	*	18.00	33,480.00	*	
1925/26	184,204	8,517	20,000.00	22,500.00	*	22.00	32,800.00	*	
1926/27	191,907	16,220	24,500.00	24,500.00	*	21.00	28,730.00	*	
1927/28	201,586	9,679	23,583.00	25,000.00	*	20.00	31,520.00	*	
1928/29	212,000	9,925	26,603.00	24,900.00	*	22.00	43,790.00	*	
1929/30	231,940	10,910	34,217.00	36,900.00	*	21.00	45,415.00	*	
1930/31	236,148	10,908	32,334.00	24,530.00	*	23.00	45,948.00	*	
1931/32	246,737	10,589	30,712.00	26,940.00	*	22.00	50,340.00	*	
1932/33	256,221	9,484	26,522.67	32,420.00	*	22.00	45,720.00	*	
1933/34	257,874	12,527	33,937.00	37,800.00	*	22.00	37,480.00	*	
1934/35	268,204	10,899	41,594.00	37,300.00	*	22.00	37,898.00	*	
1935/36	278,467	11,171	38,219.00	39,000.00	*	22.00	40,409.00	*	
1936/37	291,892	13,425	36,849.00	37,000.00	*	21.00	40,040.00	*	
1937/38	300,376	10,284	39,477.00	37,720.00	*	21.00	41,595.00	*	
1938/39	309,777	11,665	37,418.00	38,120.00	*	21.00	29,815.00	*	
1939/40	320,082	10,305	39,430.00	38,550.00	*	21.00	30,265.00	*	
1940/41	331,108	11,520	38,664.00	24,090.00	*	20.00	30,875.00	*	
1941/42	339,913	10,215	30,271.00	30,000.00	*	20.00	30,748.00	*	
1942/43	346,550	7,751	32,163.00	31,320.00	*	22.00	33,265.00	*	
1943/44	357,403	10,853	31,543.00	33,140.00	*	21.00	35,418.00	*	
1944/45	364,673	7,648	32,471.00	40,540.00	*	23.00	48,900.00	*	
1945/46	372,861	11,609	37,584.00	39,300.00	*	21.00	45,066.00	*	
1946/47	382,117	9,548	49,607.00	56,000.00	*	28.00	60,800.00	*	
1947/48	393,794	12,709	53,673.00	67,550.00	*	32.00	60,924.00?	*	
1948/49	406,522	13,402	96,936.00	120,600.00	*	64.00	114,442.00	*	
1949/50	424,505	20,544	117,228.00	138,060.00	*	39.00	101,996.00	44,287	
1950/51	466,747	21,598	121,761.00	176,511.00	*	36.00	176,250.00	39,958	
1951/52	522,105	22,540	223,193.00	170,000.00	*	43.00	136,484.00	47,396	
1952/53	580,930	60,054	266,437.00	168,500.00	*	65.00	178,547.00	46,247	
1953/54	601,192	60,416	202,237.00	192,000.00	*	64.50	204,312.00	45,346	
1954/55	646,118	45,505	231,353.00	*	508,684	71.75	226,875.00	50,456	
1955/56	691,882	47,475	232,215.00	*	542,311	76.25	246,506.00	63,590	
1956/57	734,966	44,418	242,136.00	*	563,167	79.50	261,362.00	59,669	
1957/58	782,652	50,567	331,317.00	*	682,930	81.50	273,863.00	77,750	
1958/59	820,295	38,659	313,435.00	*	692,250	86.50	307,401.00	71,414	
1959/60	874,999	56,018	322,431.00	*	735,459	84.50	365,418.00	47,610	
1960/61	925,784	52,633	337,216.00	*	781,139	92.80	363,643.00	80,280	
1961/62	962,846	39,479	344,771.00	*	828,713	101.20	390,079.00	93,863	

GEROULD DATA FOR KENTUCKY

INSTITUTION
NUMBER: 4300

YEAR	VOLUMES	VOLUMES ADDED	MATERIALS EXPENDITURES	APPROPS.	TOTAL EXPENDITURES	STAFF	SALARIES	WAGES
1951/52	558,442	30,685	80,641.00	105,000.00	*	51.00	140,444.00	13,022
1952/53	588,221	30,450	108,319.00	90,000.00	*	53.00	144,457.00	13,034
1953/54	650,740	44,433	102,206.00	92,000.00	*	54.00	145,055.00	15,076
1954/55	681,749	31,470	117,568.00	*	292,076	57.00	159,384.00	15,124
1955/56	712,612	31,063	116,674.00	*	303,324	57.50	170,662.00	15,987
1956/57	743,871	32,234	133,486.00	*	339,000	59.00	190,335.00	15,178
1957/58	783,451	39,805	176,170.00	*	435,695	70.50	223,369.00	17,156
1958/59	826,130	42,679	284,690.00	*	582,366	72.00	272,827.00	24,847
1959/60	867,330	41,777	322,222.00	*	647,271	80.00	298,058.00	26,990
1960/61	904,757	38,064	310,529.00	*	664,479	80.00	327,613.00	26,336
1961/62	954,102	50,004	301,589.00	*	744,162	83.00	379,384.00	29,075

GEROULD DATA FOR LOUISIANA STATE

INSTITUTION
NUMBER: 4400

YEAR	VOLUMES	VOLUMES ADDED	MATERIALS EXPENDITURES	APPROPS.	TOTAL EXPENDITURES	STAFF	SALARIES	WAGES
1938/39	247,376	31,242	104,657.20	42,900.00	*	59.00	69,996.67	*
1939/40	269,728	23,027	66,589.11	41,000.00	*	40.00	70,507.34	*
1940/41	293,871	25,235	70,578.14	42,800.00	*	44.00	70,744.84	*
1941/42	333,372	39,501	83,893.06	46,800.00	*	42.00	70,967.76	*
1942/43	344,237	16,505	65,978.28	41,300.00	*	39.00	77,966.75	*
1943/44	372,702	28,103	128,103.00	41,300.00	*	51.00	91,815.00	*
1944/45	402,024	21,502	67,975.00	35,000.00	*	52.00	95,748.00	*
1945/46	416,108	17,423	73,497.33	*	*	61.00	121,562.37	*
1946/47	435,478	20,343	88,612.16	*	*	71.00	162,764.45	*
1947/48	343,151	19,095	66,086.00	*	*	58.00	145,007.00	*
1948/49	364,742	22,881	82,517.00	*	*	79.75	182,566.00	*
1949/50	395,628	31,431	126,960.00	*	*	61.00	176,787.00	21,303
1950/51	416,871	21,935	92,383.15	125,000.00	*	62.00	183,680.00	20,157
1951/52	438,592	22,876	118,340.00	149,700.00	*	60.50	189,805.00	18,022
1952/53	463,418	26,415	136,963.00	149,000.00	*	60.50	195,639.00	18,803
1953/54	625,813	34,683	188,190.00	179,170.00	*	77.00	252,333.00	25,520
1954/55	656,639?	32,108?	195,305.00	*	512,105	77.00	281,759.00	35,040
1955/56	690,529	34,204	208,001.00	*	555,863	79.00	309,593.00	38,269
1956/57	715,932	31,041	228,317.00	*	589,248	86.00	321,635.00	39,295
1957/58	749,826	34,907	248,815.00	*	665,104	88.50	366,377.00	49,912
1958/59	805,002	60,656	360,661.00	*	847,620	105.00	431,126.00	55,833
1959/60	889,917	86,433	410,196.00	*	951,559	107.50	481,594.00	59,769
1960/61	966,496	76,579	414,628.00	*	1,031,900	116.50	550,324.00	66,948
1961/62	1,042,218	75,722	451,233.00	*	1,115,129	120.50	590,476.00	73,419

GEROULD DATA FOR MCGILL

INSTITUTION
NUMBER: 4500

YEAR	VOLUMES	VOLUMES ADDED	MATERIALS EXPENDITURES	APPROPS.	TOTAL EXPENDITURES	STAFF	SALARIES	WAGES
1949/50	625,485	17,249	60,060.00	56,563.00	*	60.00	102,045.00	2,790
1950/51	641,511	16,026	56,563.00	63,203.00	*	62.00	100,976.00	2,993

GEROULD DATA FOR THE MASSACHUSETTS INSTITUTE OF TECHNOLOGY

INSTITUTION
NUMBER: 4900

YEAR	VOLUMES	VOLUMES ADDED	MATERIALS EXPENDITURES	APPROPS.	TOTAL EXPENDITURES	STAFF	SALARIES	WAGES
1938/39	340,089	8,082	21,008.77	25,963.45	*	28.00	48,829.00	*
1939/40	348,103	8,014	21,842.98	28,142.49	*	29.00	49,819.00	*
1940/41	356,077	7,974	19,659.82	31,998.85	*	30.00	52,137.05	*
1941/42	364,022	7,945	17,591.31	27,857.58	*	31.00	56,248.00	*
1942/43	371,270	7,248	19,887.14	21,071.90	*	31.00	55,158.44	*
1943/44	377,962	6,692	17,772.00	21,969.00	*	31.00	55,325.00	*
1944/45	383,738	5,776	18,636.00	25,685.00	*	31.00	58,405.00	*
1945/46	390,718	6,980	21,555.10	43,886.76	*	32.00	67,304.98	*
1946/47	405,444	10,130	29,114.00	34,875.00	*	40.00	116,514.00	*
1947/48	417,680	12,458	33,040.00	52,901.00	*	52.00	120,393.00	*
1948/49	435,154	17,673	52,902.00	52,671.00	*	63.80	158,518.00	*
1949/50	450,479	15,438	43,371.00	*	*	53.00	137,540.00	11,200
1950/51	465,639	15,623	46,880.00	52,626.00	*	53.00	151,000.00	14,900
1951/52	482,448	16,809	54,736.00	62,300.00	*	55.00	158,340.00	16,491
1952/53	499,453	17,045	55,095.00	60,606.00	*	55.00	158,164.00	17,939
1953/54	523,213	23,760	63,361.00	59,706.00	*	52.00	157,663.00	19,014
1954/55	557,120	33,907	51,340.00	*	233,300	59.00	162,036.00	19,924
1955/56	588,835	31,864	74,825.00	*	271,099	60.00	177,200.00	19,074
1956/57	619,619	30,784	73,263.00	*	313,062	69.50	213,741.00	26,022
1957/58	633,531	13,912	88,220.00	*	367,848	76.00	255,100.00	24,528
1958/59	647,018	13,572	86,251.00	*	392,509	78.00	278,874.00	27,384
1959/60	704,955	34,496	110,451.00	*	437,236	80.50	298,185.00	28,600
1960/61	745,767	40,812	133,049.00	*	503,472	86.60	336,705.00	33,718
1961/62	805,818	37,041	146,649.00	*	542,943	92.00	364,279.00	32,015

GEROULD DATA FOR MICHIGAN

INSTITUTION
NUMBER: 5100

YEAR	VOLUMES VOLUMES	ADDED	MATERIALS EXPENDITURES	APPROPS.	TOTAL EXPENDITURES	STAFF	SALARIES	WAGES
1907/08	250,000	18,507	26,500.00	*	*	32.00	20,000.00	*
1908/09	*	*	*	*	*	*	*	*
1909/10	270,998	12,365	26,000.00	33,000.00	*	20.00	23,320.00	*
1910/11	*	*	*	*	*	*	*	*
1911/12	305,684	17,591	30,000.00	30,000.00	*	20.00	25,980.00	*
1912/13	322,040	17,731	34,533.00	34,533.00	*	21.00	29,675.00	*
1913/14	337,417	15,600	32,546.23	32,735.00	*	35.00	25,975.00	*
1914/15	352,718	15,580	23,902.55	32,000.00	*	35.00	29,555.00	*
1915/16	368,238	15,723	30,701.82	32,000.00	*	34.00	29,654.17	*
1916/17	383,976	15,734	26,000.00	35,000.00	*	44.00	38,449.00	*
1917/18	400,830	17,033	32,000.00	26,850.00	*	45.00	44,780.00	*
1918/19	413,666	13,050	30,145.84	56,000.00	*	60.00	76,030.00	*
1919/20	432,394	18,898	56,000.00	47,950.00	*	66.00	100,250.00	*
1920/21	457,847	25,453	49,100.00	51,500.00	*	75.00	107,700.00	*
1921/22	497,913	42,474	69,675.00	63,750.00	*	75.00	109,100.00	*
1922/23	545,675	27,972	86,050.00	91,550.00	*	82.00	129,066.00	*
1923/24	570,806	25,393	91,550.00	90,810.00	*	88.00	139,050.00	*
1924/25	596,614	25,475	90,810.00	90,055.00	*	93.00	151,400.00	*
1925/26	619,508	23,331	90,055.00	114,286.00	*	103.00	177,600.00	*
1926/27	649,912	30,494	114,286.00	127,466.00	*	117.00	221,150.00	*
1927/28	681,025	31,543	127,466.00	142,940.00	*	119.00	233,156.00	*
1928/29	718,425	37,454	142,940.00	130,938.00	*	141.00	257,933.00	*
1929/30	775,516	38,334	133,938.00	146,505.00	*	144.00	285,849.00	*
1930/31	799,573	35,715	146,505.00	176,204.00	*	149.00	298,050.00	*
1931/32	839,338	41,289	176,204.00	162,843.00	*	146.00	268,913.00	*
1932/33	874,666	39,509	160,470.00	122,528.00	*	103.00	222,755.00	*
1933/34	900,671	26,873	122,528.00	120,659.00	*	103.00	222,755.00	*
1934/35	926,396	26,465	123,295.00	125,141.00	*	125.00	240,386.00	*
1935/36	955,623	30,016	124,435.00	132,191.00	*	128.00	259,440.00	*
1936/37	987,921	32,863	133,673.00	153,940.00	*	137.00	267,870.00	*
1937/38	1,025,815	37,894	141,233.00	140,105.00	*	137.00	254,066.00	*
1938/39	1,060,784	34,969	140,860.00	140,294.00	*	137.00	253,381.00	*
1939/40	1,098,197	38,358	138,823.00	138,823.00	*	138.00	257,381.00	*
1940/41	1,134,052	36,780	138,060.00	140,260.00	*	147.00	266,223.00	*
1941/42	1,168,612	35,877	140,260.00	139,847.00	*	148.00	267,281.00	*
1942/43	1,193,486	27,475	140,107.00	142,474.00	*	148.00	271,781.00	*
1943/44	1,217,665	27,088	127,175.00	127,175.00	*	146.00	297,112.00	*
1944/45	1,240,942	23,277	141,503.00	143,753.00	*	147.00	300,028.00	*
1945/46	1,267,518	*&	153,658.00	156,796.00	*	150.00	450,826.00	*
1946/47	1,299,720	34,036	139,670.00	145,956.00	*	155.00	388,399.00	*
1947/48	1,376,425	36,056	158,507.00	164,620.00	*	163.00	465,200.00	*
1948/49	1,415,650	40,453	177,642.00	227,000.00	*	202.00	591,500.00	*
1949/50	1,415,650	41,397	177,642.00	220,000.00	*	176.00	562,330.00	50,000
1950/51	1,472,837	42,546	242,000.00	243,000.00	*	186.00	557,790.00	61,780
1951/52	1,512,382	38,643	247,708.00	254,500.00	*	167.00	557,971.00	67,468
1952/53	1,550,914	41,214	272,472.00	290,541.00	*	176.00	606,637.00	102,070
1953/54	2,304,434	58,211	288,610.00	355,957.00	*	176.00	640,264.00	122,930
1954/55	2,325,294	75,724	333,764.00	*	1,232,462	195.50	783,945.00	114,752
1955/56	2,411,628	63,661	354,834.00	*	1,277,311	181.81	803,457.00	119,020
1956/57	2,532,849	105,384	523,304.00	*	1,711,868	238.00	984,297.00	204,266
1957/58	2,624,468	92,561	537,120.00	*	1,886,134	248.86	1,146,104.00	202,910
1958/59	2,690,313	68,523	379,494.00	*	1,789,592	254.33	1,196,994.00	213,104
1959/60	2,818,341	98,291	532,905.00	*	2,185,318	263.75	1,368,188.00	284,225
1960/61	2,912,936	107,952	570,090.00	*	2,274,785	267.50	1,442,416.00	262,279
1961/62	3,049,715	119,976	627,514.00	*	2,355,315	260.80	1,480,492.00	247,309

GEROULD DATA FOR MICHIGAN STATE

INSTITUTION
NUMBER: 5200

YEAR	VOLUMES VOLUMES	VOLUMES ADDED	MATERIALS EXPENDITURES	APPROPS.	TOTAL EXPENDITURES	STAFF	SALARIES	WAGES
1957/58	860,625	55,701	363,791.00	*	832,555	83.00	371,708.00	97,056
1958/59	720,322	44,821	273,231.00	*	738,835	87.00	394,721.00	70,883
1959/60	770,311	49,989	286,194.00	*	812,392	90.00	432,188.00	94,000
1960/61	825,410	59,212	348,772.00	*	906,533	93.00	463,630.00	94,131
1961/62	897,612	72,927	387,932.00	*	988,387	99.00	505,520.00	94,935

GEROULD DATA FOR MINNESOTA

INSTITUTION
NUMBER: 5300

YEAR	VOLUMES	VOLUMES ADDED	MATERIALS EXPENDITURES	APPROPS.	TOTAL EXPENDITURES	STAFF	SALARIES	WAGES
1907/08	120,000	9,976	19,129.00	*	*	13.00	12,490.00	*
1908/09	*	*	*	*	*	*	*	*
1909/10	140,000	12,109	20,410.00	30,126.00	*	18.00?	18,890.00	*
1910/11	*	*	*	*	*	*	*	*
1911/12	160,000	15,000	32,389.23	36,964.00	*	24.00	24,245.00	*
1912/13	177,500	18,672	38,796.00	43,891.00	*	26.00	29,680.00	*
1913/14	185,000	21,264	42,981.22	41,564.00	*	28.00	30,745.00	*
1914/15	207,406	22,406	46,774.83	51,084.00	*	29.00	33,010.00	*
1915/16	230,842	23,418	40,076.16	40,763.80	*	30.00	33,330.00	*
1916/17	250,361	19,519	35,567.29	26,065.00	*	30.00	34,565.00	*
1917/18	266,000	15,780	28,993.04	39,040.00	*	31.00	39,090.00	*
1918/19	280,000	14,855	31,126.71	35,205.00	*	38.00	51,240.00	*
1919/20	300,000	18,495	43,115.69	25,000.00	*	36.00	50,680.00	*
1920/21	367,250	15,503	48,288.00	35,000.00	*	37.00	65,030.00	*
1921/22	380,000	19,000	46,472.20	35,000.00	*	37.00	65,230.00	*
1922/23	395,000	13,859	41,454.05	37,500.00	*	41.00	63,520.00	*
1923/24	425,000	15,192	60,084.26	47,500.00	*	55.00	72,030.00	*
1924/25	445,454	20,454	52,273.00	87,100.00	*	49.00	110,805.00	*
1925/26	472,148	24,786	84,186.58	72,075.00	*	65.00	126,210.00	*
1926/27	501,507	27,500	104,868.56	82,255.00	*	62.00	116,795.00	*
1927/28	530,107	31,930	108,107.04	101,155.00	*	69.00	129,825.00	*
1928/29	573,489	37,738	148,514.43	95,665.00	*	62.00	123,220.00	*
1929/30	609,332	35,843	106,751.40	95,822.00	*	63.00	125,060.00	*
1930/31	646,199	37,063	113,889.21	97,325.00	*	65.00	127,420.00	*
1931/32	682,894	36,695	139,346.71	94,274.00	*	70.00	123,954.00	*
1932/33	722,807	39,958	126,421.41	79,050.00	*	66.00	116,917.00	*
1933/34	757,807	34,247	129,625.00	34,347.00	*	59.00	117,586.00	*
1934/35	785,054	28,911	119,716.50	73,000.00	*	63.00	119,463.00	*
1935/36	833,513	48,459	166,758.89	76,438.00	*	68.00	127,471.00	*
1936/37	910,469	76,956	140,493.27	93,885.00	*	74.00	125,256.66	*
1937/38	1,009,024	84,850	120,231.28	106,635.00	*	87.00	139,340.00	*
1938/39	1,061,965	57,598	139,097.64	105,370.00	*	88.00	145,955.00	*
1939/40	1,120,075	55,107	119,143.89	106,815.00	*	126.00	132,010.00	*
1940/41	1,183,562	54,108	108,396.16	110,375.00	*	102.00	148,535.00	*
1941/42	1,221,987	48,175	101,844.72	98,905.00	*	88.00	143,850.00	*
1942/43	1,309,176	34,638	91,581.62	101,487.00	*	94.00	144,144.81	*
1943/44	1,345,809	39,815	106,040.00	102,583.00	*	99.00	167,362.00	*
1944/45	1,382,010	36,201	120,153.00	106,754.00	*	82.00	182,714.00	*
1945/46	1,422,529	40,519	141,459.49	147,334.00	*	95.00	191,905.93	*
1946/47	1,474,290	51,761	178,248.25	191,128.54	*	132.00	366,121.00	*
1947/48	1,490,025	58,904	281,590.00	175,693.00	*	121.00	431,805.00	*
1948/49	1,513,625	23,600	220,503.00	185,305.00	*	190.00	466,707.00	*
1949/50	1,528,288	33,649	272,901.00	110,000.00	*	160.00	389,458.00	70,495
1950/51	1,606,316	54,507	163,845.81	137,735.00	*	141.00	390,516.00	29,496
1951/52	1,650,617	44,301	242,738.00	226,123.00	*	127.00	528,961.00	77,219
1952/53	1,688,640	57,903	286,038.00	279,197.00	*	136.00	474,835.00	85,873
1953/54	1,763,728	62,450	293,382.00	273,899.00	*	135.00	483,604.00	87,481
1954/55	1,791,047	63,705	333,338.00	*	997,573	138.00	504,457.00	107,663
1955/56	1,841,437	60,264	314,082.00	*	936,441	141.00	513,055.00	109,304
1956/57	1,868,566	49,543	339,830.00	*	968,388	141.00	508,055.00	120,503
1957/58	1,905,678	52,798	344,094.00	*	1,120,052	156.00	643,866.00	132,092
1958/59	1,937,495	42,938	388,342.00	*	1,231,338	161.00	696,656.00	146,340
1959/60	1,968,101	43,227	398,550.00	*	1,290,293	154.00	746,689.00	145,054
1960/61	2,020,594	58,580	524,113.00	*	1,540,019	157.00	780,464.00	160,476
1961/62	2,072,285	61,423	613,345.00	*	1,653,716	160.00	844,218.00	196,153

GEROULD DATA FOR MISSOURI

INSTITUTION
NUMBER: 5400

YEAR	VOLUMES ADDED	MATERIALS EXPENDITURES	TOTAL APPROPS. EXPENDITURES	STAFF	SALARIES	WAGES
1907/08	101,563	9,013	11,546.00	*	8.00	6,740.00
1908/09	*	*	*	*	*	*
1909/10	100,800	7,569	15,000.00	15,000.00	10.00	7,440.00
1910/11	*	*	*	*	*	*
1911/12	110,816	7,738	15,000.00	15,000.00	12.00	10,070.00
1912/13	118,617	8,139	15,000.00	15,000.00	13.00	11,000.00
1913/14	130,117	11,500	15,640.00	15,640.00	13.00	10,500.00
1914/15	138,133	8,916	13,837.00	15,800.00	15.00	12,705.00
1915/16	148,116	8,242	15,800.00	13,800.00	15.00	12,705.00
1916/17	153,738	6,375	11,500.00	5,000.00	15.00	12,705.00
1917/18	161,470	7,982	10,500.00	9,500.00	15.00	12,705.00
1918/19	166,816	5,706	8,000.00	14,000.00	15.00	17,960.00
1919/20	171,486	5,094	13,000.00	13,000.00	14.00	19,530.00
1920/21	177,320	6,291	12,000.00	24,000.00	16.00	20,220.00
1921/22	188,889	11,568	24,000.00	19,000.00	19.00	27,460.00
1922/23	198,856	9,967	17,900.00	24,250.00	19.00	27,980.00
1923/24	209,043	10,178	23,187.10	30,000.00	21.00	32,690.00
1924/25	229,201	9,530	33,467.00	16,490.00	21.00	35,045.00
1925/26	231,366	9,825	16,600.00	18,490.00	21.00	25,741.00
1926/27	240,784	8,543	35,322.54	32,500.00	22.00	45,117.00
1927/28	249,461	8,526	36,743.78	36,000.00	24.00	38,685.00
1928/29	268,795	13,184	42,883.00	35,000.00	25.00	47,007.00
1929/30	279,821	11,552	28,516.13	33,230.00	24.00	40,310.00
1930/31	284,300	14,050	42,000.00	29,000.00	24.00	39,800.00
1931/32	292,268	10,812	23,414.00	20,400.00	21.00	37,040.00
1932/33	301,869	9,760	23,170.00	21,280.00	19.00	40,506.00
1933/34	309,917	11,309	18,397.00	23,180.00	21.00	30,041.00
1934/35	318,334	8,427	14,446.00	26,000.00	22.00	26,149.00
1935/36	333,045	15,526	29,000.00	30,000.00	21.00	30,550.00
1936/37	344,848	11,803	24,602.81	50,000.00	23.00	34,421.32
1937/38	357,836	12,988	30,514.90	109,060.15	27.00	42,619.44
1938/39	380,649	24,071	106,337.16	38,400.00	29.00	41,869.53
1939/40	395,780	15,131	34,240.85	107,816.07	29.00	43,023.80
1940/41	418,104	23,000	97,879.59	44,936.48	31.00	46,261.24
1941/42	437,233	20,034	35,467.87	89,699.61	32.00	46,849.44
1942/43	458,147	20,914	94,740.91	50,000.00	35.00	52,875.34
1943/44	475,827	17,680	25,453.00	84,598.00	33.00	48,745.00
1944/45	505,162	21,313	67,614.00	70,000.00	40.00	73,358.00
1945/46	525,557	20,911	68,487.48	70,000.00	40.00	73,629.61
1946/47	547,505	23,475	81,590.00	132,000.00	40.00	71,780.00
1947/48	566,337	18,832	132,660.00	100,000.00	51.00	95,167.00
1948/49	585,081	18,874	101,653.00	75,000.00	90.00	149,860.00
1949/50	605,245	21,450	85,100.00	100,000.00	56.00	123,311.00
1950/51	731,700	25,975	112,621.00	*	67.50	156,325.00
1951/52	756,459	24,228	140,388.00	150,000.00	67.00	161,875.00
1952/53	692,688	19,589	133,624.00	97,000.00	62.00	154,023.00
1953/54	708,679	20,116	105,356.00	105,000.00	41.00	125,213.00
1954/55	721,150	17,467	115,367.00	*	42.00	120,704.00
1955/56	741,755	22,977	177,219.00	*	52.50	147,292.00
1956/57	764,848	24,842	190,263.00	*	56.00	164,206.00
1957/58	811,922	48,777	354,982.00	*	79.00	235,378.00
1958/59	863,288	55,860	329,746.00	*	80.00	280,599.00
1959/60	1,002,263	50,403	372,415.00	*	86.00	314,298.00
1960/61	1,043,330	45,340	376,669.00	*	95.00	349,415.00
1961/62	1,101,643	62,593	439,901.00	*	103.00	392,611.00

GEROULD DATA FOR MOUNT HOLYOKE

INSTITUTION
NUMBER: 5490

YEAR	VOLUMES	VOLUMES ADDED	MATERIALS EXPENDITURES	APPROPS.	TOTAL EXPENDITURES	STAFF	SALARIES	WAGES
1940/41	172,320	7,169	16,943.00	17,430.00	*	15.00	23,945.00	*
1941/42	179,825	7,515	15,487.00	15,908.00	*	15.00	24,233.00	*
1942/43	186,369	6,982	13,824.39	13,700.00	*	14.00	25,978.00	*
1943/44	191,296	5,207	13,113.00	13,700.00	*	13.50	25,640.00	*
1944/45	195,151	3,855	14,766.00	13,550.00	*	14.00	24,639.00	*
1945/46	199,755	5,498	13,289.29	13,500.00	*	14.00	28,124.45	*
1946/47	204,950	5,194	16,139.00	28,921.00	*	14.00	27,515.00	*
1947/48	211,397	6,615	17,000.00	17,000.00	*	16.00	31,000.00	*
1948/49	217,313	5,916	18,780.00	25,967.00	*	18.00	37,205.00	*
1949/50	223,514	6,201	22,971.00	22,968.00	*	15.00	36,175.00	2,058
1950/51	228,944	5,430	22,299.29	23,331.00	*	17.00	42,447.00	1,658

GEROULD DATA FOR NEBRASKA

INSTITUTION
NUMBER: 5500

YEAR	VOLUMES	VOLUMES ADDED	MATERIALS EXPENDITURES	APPROPS.	TOTAL EXPENDITURES	STAFF	SALARIES	WAGES
1907/08	81,000	5,275	14,000.00	*	*	9.00	8,150.00	*
1908/09	*	*	*	*	*	*	*	*
1909/10	90,250	6,075	14,000.00	14,500.00	*	10.00	8,700.00	*
1910/11	*	*	*	*	*	*	*	*
1911/12	100,000	6,175	17,000.00	17,000.00	*	12.00	10,350.00	*
1912/13	105,451	5,451	16,000.00	17,000.00	*	13.00	11,000.00	*
1913/14	115,050	7,320	17,000.00	17,000.00	*	13.00	11,600.00	*
1914/15	121,270	6,220	16,000.00	17,000.00	*	13.00	11,600.00	*
1915/16	125,200	7,495	16,600.00	17,000.00	*	15.00	12,000.00	*
1916/17	132,098	6,898	16,800.00	21,000.00	*	16.00	13,170.00	*
1917/18	136,670	5,620	15,000.00	20,000.00	*	14.00	11,920.00	*
1918/19	145,000	5,680	15,300.00	18,000.00	*	15.00	17,320.00	*
1919/20	150,023	5,324	16,500.00	20,000.00	*	17.00	25,840.00	*
1920/21	153,925	7,648	22,500.00	35,000.00	*	17.00	25,840.00	*
1921/22	162,122	8,197	36,000.00	37,000.00	*	21.00	30,890.00	*
1922/23	171,936	9,814	27,000.00	45,000.00	*	23.00	30,460.00	*
1923/24	187,993	10,579	35,000.00	45,000.00	*	23.00	35,740.00	*
1924/25	185,575	8,290	41,700.00	41,700.00	*	23.00	33,940.00	*
1925/26	204,673	9,572	41,000.00	41,000.00?	*	30.00	81,000.00&	*
1926/27	209,048	4,375	40,000.00	40,000.00	*	32.00	41,000.00	*
1927/28	223,885	10,175	32,580.00	36,000.00	*	26.00	44,094.00	*
1928/29	233,845	7,230	36,000.00	38,500.00	*	34.00	49,525.00	*
1929/30	242,826	8,981	34,073.25	39,000.00	*	39.00	49,520.00	*
1930/31	253,484	7,975	20,968.92	18,968.92	*	30.00	50,120.00	*
1931/32	264,755	11,271	35,950.00	34,950.00	*	28.00	46,508.00	*
1932/33	275,865	11,110	34,700.00	28,200.00	*	32.00	34,689.00	*
1933/34	285,820	7,794	30,079.00	33,500.00	*	30.00	37,199.00	*
1934/35	294,435	8,855	34,158.00	35,000.00	*	35.00	40,214.00	*
1935/36	305,999	9,283	41,720.76	42,900.00	*	25.00	46,773.00	*
1936/37	318,577	12,578	37,773.00	32,773.00	*	31.00	48,354.00	*
1937/38	330,000	11,500	37,000.00	40,000.00	*	25.00	47,310.00	*
1938/39	341,870	11,874	49,200.00	33,500.00	*	25.00	37,030.00	*
1939/40	353,431	12,456	35,700.00	35,700.00	*	30.00	39,510.00	*
1940/41	367,215	14,204	36,320.00	30,000.00	*	28.00	44,500.00	*
1941/42	391,594	11,956	37,246.32	35,500.00	*	31.00	48,906.00	*
1942/43	389,141	11,067	39,155.38	36,000.00	*	28.00	45,000.00	*
1943/44	*	*	*	*	*	*	*	*
1944/45	405,167	7,849	36,500.00	43,850.00	*	28.00	56,159.00	*
1945/46	426,743	9,392	35,829.20	71,979.82	*	38.00	71,900.76	*
1946/47	428,293	13,864	70,674.50	124,043.18	*	52.50	84,890.82	*
1947/48	443,328	15,326	83,719.00	70,000.00	*	45.00	112,064.00	*
1948/49	458,039	14,711	81,110.00	99,129.00	*	77.00	151,311.00	*
1949/50	471,674	14,471	98,311.00	73,233.00	*	55.00	136,007.00	23,709
1950/51	487,558	17,914	75,898.08	85,219.00	*	59.00	142,452.00	25,848
1951/52	503,610	17,755	85,671.00	95,400.00	*	60.00	176,158.00	27,334
1952/53	520,223	18,562	104,002.00	121,750.00	*	63.00	186,325.00	31,969
1953/54	535,538	19,038	123,113.00	122,623.00	*	65.00	212,528.00	32,853
1954/55	554,023	20,504	123,653.00	*	379,562	67.00	221,184.00	34,724
1955/56	579,870	26,743	129,057.00	*	410,769	70.00	245,062.00	36,650
1956/57	596,013	21,781	131,746.00	*	435,616	78.00	250,406.00	34,547
1957/58	621,170	26,771	166,106.00	*	481,825	78.00	280,469.00	35,250
1958/59	645,086	25,050	187,692.00	*	513,725	77.00	290,163.00	35,870
1959/60	669,938	25,903	177,881.00	*	529,478	77.00	314,600.00	39,997
1960/61	690,399	21,914	196,639.00	*	556,677	78.00	319,173.00	40,865
1961/62	712,963	23,666	231,364.00	*	621,723	77.00	344,292.00	46,067

GEROULD DATA FOR NEW YORK UNIVERSITY

INSTITUTION
NUMBER: 5700

YEAR	VOLUMES ADDED	MATERIALS EXPENDITURES	APPROPS.	TOTAL EXPENDITURES	STAFF	SALARIES	WAGES	
1935/36	480,808	26,822	68,429.26	65,510.00	*	64.00	128,584.00	*
1936/37	510,771	30,241	67,297.58	65,975.00	*	71.00	146,223.75	*
1937/38	541,690	30,618	62,290.00	62,515.00	*	93.00	164,450.00	*
1938/39	570,445	29,381	78,359.00	75,000.00	*	106.00	172,228.00	*
1939/40	592,041	31,520	79,000.00	75,000.00	*	108.00	172,228.75	*
1940/41	616,132	24,091	65,625.45	60,000.00	*	101.00	168,806.00	*
1941/42	637,098	23,735	58,615.00	58,000.00	*	104.00	170,884.00	*
1942/43	649,152	21,544	34,355.00	25,200.00	*	60.00	115,610.00	*
1943/44	668,795	20,795	35,500.00	46,655.00	*	72.00	105,297.00	*
1944/45	687,580	20,234	59,765.00	51,600.00	*	95.00	130,540.00	*
1945/46	715,157	28,379	62,551.49	71,050.00	*	118.00	204,742.82	*
1946/47	748,119	33,193	101,675.28	93,225.00	*	140.00	293,206.48	*
1947/48	790,968	46,941	127,398.00	130,000.00	*	147.00	372,679.00	*
1948/49	845,179	38,689	136,872.00	140,000.00	*	157.00	408,427.00	*
1949/50	888,181	44,661	161,342.00	130,000.00	*	175.00	445,825.00	*
1950/51	927,577	39,086	144,048.46	95,000.00	*	167.00	410,846.00	*
1951/52	959,273	33,640	103,007.00	105,000.00	*	155.00	365,557.00	*
1952/53	987,551	29,504	112,761.00	105,000.00	*	159.00	411,372.00	*
1953/54	1,017,226	31,291	125,585.00	102,470.00	*	145.00	436,071.00	*
1954/55	1,041,186	28,690	118,907.00	*	557,559	133.67	438,652.00	*
1955/56	1,066,333	35,492	132,990.00	*	598,052	126.17	465,062.00	*
1956/57	1,091,967	30,599	132,039.00	*	586,036	117.47	*	*
1957/58	1,049,156	26,872	176,785.00	*	643,809	105.00	419,120.00	*
1958/59	1,067,946	20,653	129,618.00	*	676,111	133.00	487,294.00	40,284
1959/60	1,092,862	26,510	200,004.00	*	763,615	125.75	523,616.00	39,994
1960/61	1,121,634	28,772	208,079.00	*	815,451	134.50	561,933.00	45,437
1961/62	1,148,119	30,794	214,446.00	*	948,926	134.00	689,080.00	45,400

GEROULD DATA FOR NORTH CAROLINA

INSTITUTION
NUMBER: 5800

YEAR	VOLUMES	VOLUMES ADDED	MATERIALS EXPENDITURES	APPROPS.	TOTAL EXPENDITURES	STAFF	SALARIES	WAGES
1921/22	108,405	8,634	22,843.20	24,825.00	*	8.00	18,844.04	*
1922/23	122,892	11,220	28,840.18	26,750.00	*	13.00	27,275.00	*
1923/24	133,857	14,232	27,129.68	26,750.00	*	13.00	31,883.33	*
1924/25	147,522	12,219	23,918.00	23,900.00	*	18.00	29,758.00	*
1925/26	162,429	11,259	23,956.88	34,250.00	*	17.00	29,761.69	*
1926/27	180,032	18,191	37,428.73	43,000.00	*	18.00	41,587.10	*
1927/28	198,192	16,895	43,260.91	43,753.72	*	22.00	43,866.00	*
1928/29	210,511	13,644	57,436.52	46,500.00	*	24.00	55,219.00	*
1929/30	219,814	12,303	27,492.51	23,100.00	*	23.00	55,380.00	*
1930/31	230,512	11,311	39,485.43	37,000.00	*	23.00	55,922.36	*
1931/32	245,602	16,175	24,460.30	24,460.30	*	21.00	45,317.00	*
1932/33	258,584	13,399	44,966.00	20,000.00	*	23.00	25,806.00	*
1933/34	254,552	14,264	22,481.00	18,400.00	*	26.00	33,006.00	*
1934/35	278,347	15,511	21,626.78	30,000.00	*	29.00	44,537.00	*
1935/36	325,524	20,000	41,142.00	40,000.00	*	29.00	41,802.00	*
1936/37	343,832	20,642	54,899.00	40,000.00	*	29.00	44,699.00	*
1937/38	359,920	16,722	46,927.84	37,000.00	*	30.00	55,369.97	*
1938/39	373,986	15,148	40,499.30	40,000.00	*	27.00	52,243.42	*
1939/40	386,390	14,025	37,522.10	25,500.00	*	33.00	50,822.09	*
1940/41	403,051	17,864	40,865.75	25,500.00	*	35.00	54,392.66	*
1941/42	419,797	17,596	41,911.81	25,500.00	*	36.00	58,888.22	*
1942/43	434,020	15,369	38,437.01	25,500.00	*	37.00	68,478.59	*
1943/44	447,562	14,478	41,832.00	25,500.00	*	44.00	68,174.00	*
1944/45	459,558	13,519	46,794.00	35,500.00	*	42.00	67,794.00	*
1945/46	473,028	13,470	48,228.69	40,000.00	*	41.75	77,482.58	*
1946/47	494,467	21,439	57,490.24	67,000.00	*	53.50	91,012.35	*
1947/48	514,797	21,439	69,754.00	70,000.00	*	60.00	143,776.00	*
1948/49	536,095	22,241	83,248.00	83,000.00	*	86.00	208,541.00	*
1949/50	557,189	21,791	135,268.00	110,790.00	*	61.00	176,495.00	43,992
1950/51	581,682	24,493	157,389.92	62,590.00	*	66.00	187,595.00	37,859
1951/52	608,924	27,670	131,091.00	131,000.00	*	70.00	217,375.00	43,348
1952/53	633,665	25,805	118,481.00	168,500.00	*	68.50	237,280.00	41,037
1953/54	662,978	29,473	166,266.00	125,000.00	*	78.50	256,939.00	42,731
1954/55	736,926	74,564	210,938.00	*	554,217	84.00	302,355.00	40,923
1955/56	831,119	94,193	139,934.00	*	470,827	88.00	297,199.00	33,694
1956/57	898,417	67,295	139,350.00	*	478,696	78.00	289,797.00	49,549
1957/58	935,014	40,127	220,283.00	*	647,653	93.00	366,362.00	61,008
1958/59	978,558	43,544	226,662.00	*	694,442	88.00	367,011.00	66,919
1959/60	1,025,144	47,386	286,578.00	*	768,600	92.00	417,181.00	64,840
1960/61	1,077,343	51,399	346,116.00	*	928,105	92.00	522,450.00	59,538
1961/62	1,123,747	46,404	425,588.00	*	1,002,723	108.00	506,442.00	70,691

GEROULD DATA FOR NORTH DAKOTA

INSTITUTION
NUMBER: 5860

YEAR	VOLUMES	VOLUMES ADDED	MATERIALS EXPENDITURES	APPROPS.	TOTAL EXPENDITURES	STAFF	SALARIES	WAGES
1907/08	26,421	1,537	2,823.00	*	*	2.00	1,650.00	*
1908/09	*	*	*	*	*	*	*	*
1909/10	37,068	5,419	4,615.00	3,375.00	*	4.00	3,400.00	*
1910/11	*	*	*	*	*	*	*	*
1911/12	44,390	3,859	4,628.86	4,800.00	*	5.00	4,430.00	*
1912/13	48,647	4,257	5,628.00	5,600.00	*	11.00	5,320.00	*
1913/14	53,171	4,524	5,821.83	4,800.00	*	5.00	5,240.00	*
1914/15	55,843	2,672	3,217.61	3,430.00	*	5.00	5,470.00	*
1915/16	58,915	4,072	4,130.00	4,375.00	*	4.00	4,820.00	*
1916/17	62,008	3,093	3,405.12	3,400.00	*	5.00	5,640.00	*
1917/18	65,125	3,117	3,472.99	3,400.00	*	4.00	4,021.75	*
1918/19	66,420	1,934	4,252.94	3,350.00	*	4.00	4,845.76	*
1919/20	69,908	2,036	3,669.20	3,350.00	*	4.00	6,900.00	*
1920/21	71,093	2,733	4,044.29	7,050.00	*	5.00	8,800.00	*
1921/22	73,700	2,507	7,571.50	9,050.00	*	5.00	9,600.00	*
1922/23	77,658	4,971	8,090.80	8,550.00	*	5.00	9,600.00	*
1923/24	80,652	3,012	7,476.29	8,500.00	*	5.00	9,348.66	*
1924/25	84,729	3,742	7,043.00	6,000.00	*	6.00	10,716.00	*
1925/26	87,803	3,248	9,232.00	9,100.00	*	6.00	13,700.00	*
1926/27	91,313	3,662	10,509.23	9,050.00	*	6.00	13,281.81	*
1927/28	80,000	3,340	8,965.08	9,000.00	*	6.00	12,700.00	*
1928/29	95,680	3,251	9,977.06	9,050.00	*	8.00	16,260.00	*
1929/30	98,131	3,055	9,018.89	8,500.00	*	7.00	14,312.00	*
1930/31	100,892	3,585	10,039.70	9,000.00	*	7.00	14,616.36	*
1931/32	105,833	3,375	10,300.50	7,750.00	*	8.00	15,500.00	*
1932/33	109,091	3,129	7,302.50	2,500.00	*	7.00	14,256.00	*
1933/34	111,784	2,221	5,700.00	4,900.00	*	5.00	8,135.00	*
1934/35	113,719	1,224	5,958.00	4,880.00	*	4.00	5,590.00	*
1935/36	119,235	2,636	8,241.00	7,470.00	*	5.00	5,990.00	*
1936/37	122,085	2,850	7,634.34	7,450.00	*	5.00	7,300.00	*
1937/38	124,950	2,865	9,687.80	7,220.00	*	5.00	7,476.00	*
1938/39	128,759	3,524	10,432.00	12,200.00	*	5.00	8,916.00	*
1939/40	131,589	2,830	8,320.53	*	*	5.00	7,486.00	*
1940/41	135,148	3,559	8,557.86	8,500.00	*	5.00	7,486.00	*
1941/42	138,324	3,414	9,044.00	8,665.00	*	5.00	7,883.00	*
1942/43	141,321	2,997	9,716.00	10,380.00	*	4.00	7,680.00	*
1943/44	143,789	2,468	10,514.00	10,350.00	*	5.00	9,960.00	*
1944/45	146,942	3,187	10,635.00	6,800.00	*	5.00	9,960.00	*
1945/46	152,148	5,206	8,525.63	58,000.00	*	4.00	11,200.00	*
1946/47	153,253	3,113	10,121.00	8,500.00	*	5.00	11,887.00	*
1947/48	157,291	3,869	13,652.00	10,950.00	*	6.00	17,500.00	*
1948/49	161,512	4,221	18,900.00	17,972.00	*	10.50	20,860.00	*
1949/50	165,787	4,275	17,708.00	33,750.00	*	7.00	24,028.00	6,203
1950/51	174,517	8,730	33,292.00	33,600.00	*	8.00	26,678.00	4,793

GEROULD DATA FOR NORTHWESTERN

INSTITUTION
NUMBER: 5900

YEAR	VOLUMES		MATERIALS		TOTAL		STAFF	SALARIES	WAGES
	VOLUMES	ADDED	EXPENDITURES	APPROPS.	EXPENDITURES				
1909/10	%&	%&	%&	%&		%&	%&		
1910/11	*	*	*	*	*	*	*	*	*
1911/12	*	*	*	*	*	*	*	*	*
1912/13	93,402	5,051	8,083.00	8,150.00	*	10.00	8,750.00	*	*
1913/14	153,687	4,924	8,855.85	8,400.00	*	10.00	8,960.00	*	*
1914/15	102,874	4,557	12,530.72	8,400.00	*	10.00	9,300.00	*	*
1915/16	163,154	4,691	6,548.64	9,400.00	*	13.00	12,045.00	*	*
1916/17	168,801	5,647	8,137.41	9,125.00	*	13.00	9,541.50	*	*
1917/18	175,431	6,630	9,041.11	8,525.00	*	11.00	11,800.00	*	*
1918/19	119,575	4,093	10,878.11	17,064.70	*	9.00	10,535.87	*	*
1919/20	192,365	9,973	10,371.35	17,643.04	*	11.00	15,968.79	*	*
1920/21	201,734	11,812	16,471.17	17,224.40	*	13.00	20,203.00	*	*
1921/22	219,448	11,401	15,688.43	17,319.00	*	13.00	23,810.22	*	*
1922/23	*	*	*	*	*	*	*	*	*
1923/24	236,946?	12,283?	27,963.31?	28,000.00?	*	21.00?	31,594.87	*	*
1924/25	247,768	10,154	38,744.00	28,700.00	*	21.00	49,130.00?	*	*
1925/26	262,329	14,561	42,826.53	39,600.00	*	25.00	52,945.63	*	*
1926/27	280,425	16,827	63,753.87	50,000.00	*	29.00	58,094.92	*	*
1927/28	302,314	21,889	78,656.97	55,550.00	*	31.00	72,730.00	*	*
1928/29	327,092	27,640	69,748.22	86,438.75	*	36.00	86,810.00	*	*
1929/30	423,744	27,509	91,733.18	89,300.00	*	40.00	83,745.00	*	*
1930/31	575,245	33,454	101,118.33	95,000.00	*	51.00	101,507.43	*	*
1931/32	605,288	30,043	92,948.45	90,850.00	*	52.00	110,450.00	*	*
1932/33	652,689	41,121	84,705.16	58,742.00	*	56.00	97,812.00	*	*
1933/34	719,412	43,933	71,991.00	69,657.00	*	54.00	97,594.00	*	*
1934/35	506,606	20,778	70,282.45	63,611.00	*	55.00	107,235.00	*	*
1935/36	533,420	26,811	67,832.16	64,929.00	*	66.00	111,270.00	*	*
1936/37	557,986	24,566	78,772.30	69,229.09	*	66.00	119,177.19	*	*
1937/38	586,934	26,148	77,107.53	69,581.00	*	71.00	134,337.84	*	*
1938/39	612,425	26,617	79,125.00	70,387.00	*	72.00	138,109.00	*	*
1939/40	637,795	25,370	76,487.00	69,577.00	*	74.00	140,870.00	*	*
1940/41	668,410	25,573	74,550.00	51,629.15	*	71.00	138,604.00	*	*
1941/42	696,035	27,653	58,427.04	58,390.63	*	67.00	107,704.42	*	*
1942/43	721,874	25,833	61,163.25	66,985.95	*	63.00	98,851.89	*	*
1943/44	736,430	20,922	66,719.00	131,771.00	*	60.00	104,063.00	*	*
1944/45	754,631	26,482	75,386.00	124,302.00	*	68.00	126,064.00	*	*
1945/46	788,832	36,014	148,936.99	128,277.11	*	76.75	149,737.01	*	*
1946/47	851,771	67,277	180,539.83	140,863.00	*	92.50	180,479.11	*	*
1947/48	935,448	48,312	179,162.00	151,339.00	*	96.00	222,427.00	*	*
1948/49	987,956	56,058	180,364.00	168,000.00	*	145.50	326,362.00	*	*
1949/50	1,013,151	42,948	182,590.00	168,000.00	*	97.33	263,915.00	62,103	
1950/51	1,053,392	44,640	183,604.29	168,500.00	*	98.33	279,210.00	49,050	
1951/52	1,089,295	39,406	174,450.00	177,000.00	*	99.00	279,483.00	49,634	
1952/53	1,111,663	35,691	178,817.00	173,000.00	*	101.00	275,292.00	53,528	
1953/54	1,146,163	42,996	197,295.00	175,000.00	*	98.00	289,410.00	60,155	
1954/55	1,184,653	44,166	188,620.00	*	563,107	96.50	319,962.00	54,525	
1955/56	1,224,720	44,672	230,557.00	*	616,331	99.50	332,477.00	53,297	
1956/57	1,268,084	43,364	246,872.00	*	680,535	101.00	372,809.00	60,854	
1957/58	1,339,218	43,364	246,872.00	*	680,835	101.00	372,809.00	60,854	
1958/59	1,465,228	67,155	307,958.00	*	819,850	102.00	445,544.00	66,348	
1959/60	1,429,431	60,336	278,150.00	*	830,934	116.50	478,345.00	74,439	
1960/61	1,481,175	54,364	313,348.00	*	916,439	121.50	524,503.00	78,588	
1961/62	1,532,420	54,549	361,714.00	*	1,037,494	127.50	593,546.00	82,234	

GEROULD DATA FOR OBERLIN

INSTITUTION
NUMBER: 6030

YEAR	VOLUMES	VOLUMES ADDED	MATERIALS EXPENDITURES	APPROPS.	TOTAL EXPENDITURES	STAFF	SALARIES	WAGES
1913/14	284,903	12,738	6,840.46	7,000.00	*	16.00	10,709.00	*
1914/15	303,576	16,411	6,222.00	6,811.00	*	15.00	12,500.00	*
1915/16	164,628	16,257	8,061.00	7,511.00	*	15.00	13,925.00	*
1916/17	175,625	10,997	7,500.00	8,500.00	*	21.00	18,600.00	*
1917/18	185,985	10,360	8,202.00	7,500.00	*	15.00	19,000.00	*
1918/19	195,600	8,409	6,949.00	7,500.00	*	18.00	19,000.00	*
1919/20	204,500	16,157	8,060.00	8,811.00	*	21.00	27,725.00	*
1920/21	217,019	12,519	8,712.00	7,800.00	*	23.00	27,620.00	*
1921/22	230,664	13,645	9,500.00	9,500.00	*	23.00	28,500.00	*
1922/23	240,973	10,309	10,408.00	12,364.00	*	23.00	26,252.00	*
1923/24	251,904	10,931	13,496.00	13,800.00	*	29.00	28,000.00	*
1924/25	263,000	9,026	14,230.00	16,300.00	*	22.00	39,000.00	*
1925/26	275,000	13,314	15,500.00	15,800.00	*	23.00	*	*
1926/27	285,417	11,173	18,187.67	22,500.00	*	26.00	37,706.00	*
1927/28	299,179	13,762	23,119.00	26,300.00	*	28.00	39,610.00	*
1928/29	311,500	12,321	27,201.00	29,300.00	*	30.00	54,816.00	*
1929/30	323,216	11,716	28,913.85	30,000.00	*	27.00	55,972.00	*
1930/31	332,866	9,572	31,093.53	33,800.00	*	26.00	49,480.00	*
1931/32	343,815	12,064	30,165.00	20,000.00	*	42.00	49,070.00	*
1932/33	353,413	10,682	28,787.00	17,730.00	*	30.00	58,737.00	*
1933/34	360,458	8,383	20,614.00	18,230.00	*	36.00	47,830.00	*
1934/35	366,396	7,740	19,098.48	19,130.00	*	30.00	49,978.00	*
1935/36	373,628	8,606	18,755.00	19,800.00	*	33.00	51,100.00	*
1936/37	381,306	8,857	21,553.00	23,850.00	*	34.00	54,420.00	*
1937/38	386,664	8,730	25,402.00	26,491.00	*	35.00	56,750.00	*
1938/39	395,879	9,947	25,541.00	29,087.00	*	36.00	57,300.00	*
1939/40	404,715	9,870	26,804.00	33,048.00	*	38.00	57,106.00	*
1940/41	413,797	10,032	25,262.00	34,798.00	*	37.50	58,020.00	*
1941/42	426,737	12,940	28,202.50	31,433.09	*	37.00	59,706.00	*
1942/43	434,129	7,392	20,560.56	32,279.22	*	37.00	49,006.31	*
1943/44	442,297	8,168	25,683.00	33,026.00	*	34.00	57,693.00	*
1944/45	449,654	7,357	27,923.00	33,083.00	*	36.00	62,370.00	*
1945/46	457,168	7,514	31,613.00	32,896.00	*	37.00	62,260.00	*
1946/47	464,459	7,291	28,644.00	31,947.00	*	39.00	71,753.00	*
1947/48	472,031	8,025	25,972.00	29,675.00	*	38.00	79,598.00	*
1948/49	480,015	7,803	30,799.00	33,638.00	*	44.07	86,937.00	*
1949/50	486,207	7,715	30,041.00	37,600.00	*	36.25	88,951.00	7,653
1950/51	499,842	7,602	30,022.00	37,997.00	*	39.20	93,236.00	5,121

GEROULD DATA FOR OHIO STATE

INSTITUTION
NUMBER: 6100

YEAR	VOLUMES	VOLUMES ADDED	MATERIALS EXPENDITURES	APPROPS.	TOTAL EXPENDITURES	STAFF	SALARIES	WAGES
1907/08	80,000	4,822	10,000.00	*	*	10.00	9,150.00	*
1908/09	*	*	*	*	*	*	*	*
1909/10	95,838	11,181	25,000.00	25,000.00	*	12.00	10,940.00	*
1910/11	*	*	*	*	*	*	*	*
1911/12	117,000	10,300	20,000.00	20,000.00	*	16.00	14,100.00	*
1912/13	126,034	9,238	20,000.00	15,000.00	*	18.00	15,140.00	*
1913/14	140,500	12,000	20,000.00	18,350.00	*	18.00	18,047.27	*
1914/15	147,265	9,688	18,350.00	22,000.00	*	18.00	16,200.00	*
1915/16	160,877	13,612	22,000.00	29,000.00	*	22.00	19,502.63	*
1916/17	176,525	15,648	29,000.00	30,000.00	*	27.00	24,680.00	*
1917/18	191,100	14,673	20,761.28	26,000.00	*	29.00	27,420.00	*
1918/19	202,820	21,720	26,000.00	21,000.00	*	33.00	33,900.00	*
1919/20	211,042	8,259	21,500.00	21,500.00	*	32.00	42,980.00	*
1920/21	223,063	7,643	19,500.00	16,300.00	*	29.00	42,280.00	*
1921/22	222,738	8,518	23,774.00	20,060.00	*	30.00	49,920.00	*
1922/23	235,846	8,125	25,000.00	54,527.00	*	30.00	50,760.00	*
1923/24	253,295	12,101	47,718.22?	61,376.67?	*	28.00	60,820.00	*
1924/25	267,635	14,749	59,936.00	52,800.00	*	33.00	68,960.00	*
1925/26	285,943	13,429	63,030.00	52,800.00	*	36.00	69,280.00	*
1926/27	305,905	25,859	52,570.00	65,325.00	*	40.00	80,800.00	*
1927/28	317,500	16,300	49,629.77	30,000.00	*	44.00	88,900.00	*
1928/29	335,950	18,450	51,496.72	60,000.00	*	45.00	94,593.00	*
1929/30	359,850	23,900	87,892.29	66,000.00	*	50.00	105,035.00	*
1930/31	380,153	20,303	79,075.00	*	*	50.00	84,530.00	*
1931/32	395,725	10,000	46,236.00	39,500.00	*	51.00	83,450.00	*
1932/33	407,086	10,974	28,055.20	42,500.00	*	51.00	98,547.00	*
1933/34	422,970	16,399	51,653.00	51,500.00	*	47.00	70,433.00	*
1934/35	439,189	17,200	50,051.39	45,000.00	*	46.00	82,340.00	*
1935/36	455,228	14,909	25,486.57	*	*	56.00	77,882.00	*
1936/37	473,004	17,776	72,590.40	45,000.00	*	52.00	85,337.77	*
1937/38	496,806	24,300	57,652.98	45,000.00	*	54.00	87,472.00	*
1938/39	528,000	21,575	42,861.77	81,500.00	*	57.00	86,472.00	*
1939/40	564,344	34,675	91,030.00	90,925.00	*	67.00	99,480.00	*
1940/41	594,300	31,962	91,921.00	90,826.00	*	67.00	102,804.00	*
1941/42	621,175	26,750	90,307.86	92,285.20	*	67.00	102,540.28	*
1942/43	649,250	27,124	90,164.07	90,613.80	*	70.00	124,196.00	*
1943/44	664,700	23,724	85,480.00	88,509.00	*	67.00	122,916.00	*
1944/45	696,500	20,899	84,526.00	92,540.00	*	67.00	122,652.00	*
1945/46	709,875	24,275	83,435.99	120,887.00	*	76.00	137,707.96	*
1946/47	734,850	24,975	121,649.28	165,532.05	*	80.00	159,414.13	*
1947/48	767,150	44,757	173,789.00	175,000.00	*	109.00	192,631.00	*
1948/49	819,406	52,256	192,612.00	185,000.00	*	146.50	275,766.00	*
1949/50	863,154	43,748	195,645.00	200,000.00	*	126.00	290,308.00	42,872
1950/51	907,103	43,949	184,342.00	210,000.00	*	149.00	321,589.00	45,028
1951/52	958,111	51,008	205,598.00	200,000.00	*	146.00	342,132.00	49,656
1952/53	1,012,176	54,065	218,878.00	205,000.00	*	146.50	376,858.00	48,320
1953/54	1,056,226	45,479	200,062.00	200,000.00	*	150.00	400,292.00	55,664
1954/55	1,103,303	50,448	219,635.00	*	729,042	154.00	447,932.00	61,475
1955/56	1,148,346	47,748	183,848.00	*	720,412	154.50	474,434.00	62,130
1956/57	1,198,757	52,268	209,317.00	*	779,243	158.00	507,650.00	62,276
1957/58	1,252,819	57,856	327,820.00	*	953,462	157.50	558,215.00	67,427
1958/59	1,312,786	62,681	331,911.00	*	994,296	162.00	591,919.00	70,466
1959/60	1,369,348	59,195	350,454.00	*	1,058,458	161.22	620,044.00	87,960
1960/61	1,447,387	82,464	440,995.00	*	1,315,185	178.50	768,048.00	106,142
1961/62	1,520,597	79,953	422,879.00	*	1,406,956	189.70	874,436.00	109,641

GEROULD DATA FOR OREGON

INSTITUTION
NUMBER: 6400

YEAR	VOLUMES VOLUMES	VOLUMES ADDED	MATERIALS EXPENDITURES	TOTAL APPROPS. EXPENDITURES	STAFF	SALARIES	WAGES	
1921/22	106,649	7,469	8,584.02	15,000.00	*	13.00	26,965.41	*
1922/23	122,845	16,728	18,386.72	21,500.00	*	16.00	32,085.84	*
1923/24	130,470	8,710	20,080.83	23,500.00	*	16.00	33,556.52	*
1924/25	140,823	10,541	26,967.00	31,100.00	*	19.00	36,099.00	*
1925/26	152,596	12,136	26,186.17	32,600.00	*	18.00	26,944.93	*
1926/27	167,335	15,898	32,907.13	32,900.00	*	21.00	41,987.40	*
1927/28	191,640	14,245	31,994.08	32,580.00	*	24.00	46,915.00	*
1928/29	193,394	12,695	33,972.12	33,000.00	*	27.00	31,755.00	*
1929/30	215,165	16,520	38,621.09	37,000.00	*	27.00	55,349.00	*
1930/31	227,924	12,759	45,967.00	18,500.00	*	26.00	59,630.70	*
1931/32	235,645	8,800	20,934.86	19,300.00	*	25.00	53,058.00	*
1932/33	242,559	7,200	20,195.00	15,800.00	*	19.00	44,680.00	*
1933/34	249,409	7,500	18,054.00	21,600.00	*	21.00	40,621.00	*
1934/35	259,574	10,690	22,646.37	22,600.00	*	24.00	32,874.00	*
1935/36	269,215	10,472	23,427.09	20,719.00	*	25.00	41,758.00	*
1936/37	278,789	9,574	21,500.50	21,000.00	*	22.00	39,921.24	*
1937/38	287,721	8,932	22,603.78	22,000.00	*	23.00	40,517.00	*
1938/39	299,128	9,004	24,043.15	27,789.61	*	23.00	41,769.07	*
1939/40	307,603	11,760	25,632.31	29,294.61	*	24.00	43,058.64	*
1940/41	321,227	13,624	27,211.74	22,050.00	*	24.50	42,457.64	*
1941/42	333,961	13,330	24,428.82	16,813.81	*	28.00	42,226.01	*
1942/43	342,164	12,201	20,347.12	21,400.00	*	24.00	47,282.60	*
1943/44	349,384	9,308	24,316.00	30,350.00	*	27.00	50,030.00	*
1944/45	356,297	9,134	22,894.00	20,848.00	*	26.00	42,069.00	*
1945/46	383,078	9,594	26,031.53	36,375.00	*	29.00	50,480.49	*
1946/47	395,205	12,127	38,913.15	40,700.00	*	39.00	80,350.94	*
1947/48	401,264	12,975	47,994.00	55,349.00	*	51.00	130,313.00	*
1948/49	433,270	18,729	71,687.00	72,230.00	*	70.48	155,510.00	*
1949/50	451,064	21,261	76,860.00	70,900.00	*	54.75	153,716.00	16,676
1950/51	474,548	24,417	79,018.98	80,900.00	*	60.25	168,785.00	17,819

GEROULD DATA FOR PENNSYLVANIA

INSTITUTION
NUMBER: 6500

YEAR	VOLUMES		MATERIALS		TOTAL		STAFF	SALARIES	WAGES
	VOLUMES	ADDED	EXPENDITURES	APPROPS.	EXPENDITURES				
1909/10	%	%	%	%			%	%	
1910/11	*	*	*	*	*	*	*	*	*
1911/12	352,674	15,738	12,650.00	*	*	27.00	*	*	*
1912/13	375,109	16,236	25,730.00	20,665.00	*	27.00	20,000.00	*	*
1913/14	389,813	19,610	25,823.65	23,296.39	*	27.00	21,087.50	*	*
1914/15	413,519	23,706	17,915.95	23,508.88	*	29.00	22,000.00	*	*
1915/16	413,523	18,004	17,566.83	20,587.00	*	29.00	22,201.00	*	*
1916/17	450,956	19,433	20,587.00	*	*	32.00	29,046.00	*	*
1917/18	466,769	15,813	29,217.53	11,018.76	*	28.00	23,920.00	*	*
1918/19	481,190	13,964	11,874.37	15,740.78	*	29.00	21,860.00	*	*
1919/20	494,415	13,225	20,190.42	35,322.60	*	32.00	30,615.00	*	*
1920/21	509,796	15,381	35,778.02	27,746.59	*	50.00	57,110.00	*	*
1921/22	533,729	19,151	27,746.29	33,212.27	*	56.00	58,811.75	*	*
1922/23	554,507	19,962	34,394.45	37,416.75	*	58.00	66,256.75	*	*
1923/24	578,293	29,906	40,131.82	40,147.89	*	59.00	68,533.71	*	*
1924/25	597,219	18,926	46,783.00	42,525.00	*	61.00	73,565.00	*	*
1925/26	615,325	18,106	53,670.00	54,428.00	*	62.00	82,025.00	*	*
1926/27	635,070	19,745	69,709.00	71,339.00	*	65.00	93,719.34	*	*
1927/28	668,180	33,110	82,572.06	76,017.30	*	75.00	112,976.00	*	*
1928/29	692,421	24,241	70,416.79	73,694.66	*	77.00	109,165.00	*	*
1929/30	712,358	22,347	73,940.54	72,133.00	*	79.00	114,161.00	*	*
1930/31	740,294	27,936	83,877.50	65,551.06	*	81.00	115,584.40	*	*
1931/32	773,843	33,549	72,437.91	50,839.03	*	80.00	116,461.00	*	*
1932/33	797,126	23,283	59,218.96	56,659.00	*	83.00	108,143.00	*	*
1933/34	811,303	14,177	52,324.00	61,879.00	*	70.00	92,511.00	*	*
1934/35	826,037	14,734	50,150.93	55,522.00	*	70.00	91,093.00	*	*
1935/36	840,495	14,458	53,176.47	60,128.00	*	73.00	91,657.00	*	*
1936/37	858,995	18,500	57,130.00	63,426.00	*	76.00	98,875.64	*	*
1937/38	881,781	22,786	54,852.00	60,687.00	*	82.00	110,739.00	*	*
1938/39	901,164	19,383	52,261.00	61,993.00	*	87.00	103,674.92	*	*
1939/40	934,150	32,986	62,039.00	73,521.00	*	89.00	106,250.00	*	*
1940/41	958,523	24,373	71,678.00	67,355.00	*	92.50	116,076.00	*	*
1941/42	979,919	21,396	67,536.00	73,108.00	*	97.00	117,979.00	*	*
1942/43	991,366	11,447	51,071.87	*	*	91.00	110,310.95	*	*
1943/44	997,929	6,563	50,029.00	62,368.00	*	73.00	111,588.00	*	*
1944/45	1,013,653	15,724	57,743.00	73,607.00	*	72.00	114,150.00	*	*
1945/46	1,033,794	20,141	65,630.76	78,000.00	*	57.50	94,879.98	*	*
1946/47	1,132,465	17,663	95,804.53	88,805.58	*	114.00	203,812.31	*	*
1947/48	1,151,199	18,734	124,156.00	90,500.00	*	94.00	295,197.00	*	*
1948/49	1,165,210	18,234	150,268.00	212,042.00	*	171.25	354,601.00	*	*
1949/50	1,194,808	29,598	173,420.00	152,956.00	*	154.25	320,575.00	32,063	
1950/51	1,237,278	46,028	156,088.50	156,179.00	*	145.25	301,786.00	28,651	
1951/52	1,276,337	43,595	200,341.00	258,000.00	*	145.75	356,034.00	31,692	
1952/53	1,327,421	53,573	264,002.00	269,220.00	*	154.25	420,087.00	34,204	
1953/54	1,371,193	47,863	247,896.00	218,296.00	*	154.10	428,096.00	33,042	
1954/55	1,475,243	112,457	212,834.00	*	715,231	155.75	472,555.00	29,842	
1955/56	1,501,586	43,258	220,370.00	*	717,379	150.50	464,642.00	32,367	
1956/57	1,543,234	38,275	255,005.00	*	794,986	147.50	503,704.00	36,277	
1957/58	1,570,009	41,587	275,384.00	*	832,851	166.00	517,346.00	40,121	
1958/59	1,593,824	42,782	314,633.00	*	946,601	168.00	586,310.00	45,658	
1959/60	1,665,114	42,863	351,858.00	*	1,005,703	174.00	605,692.00	48,153	
1960/61	1,703,089	49,447	453,251.00	*	1,178,853	176.00	672,085.00	53,517	
1961/62	1,744,680	60,750	493,247.00	*	1,319,115	193.00	767,698.00	58,170	

GEROULD DATA FOR PITTSBURGH

INSTITUTION
NUMBER: 6700

YEAR	VOLUMES	VOLUMES ADDED	MATERIALS EXPENDITURES	APPROPS.	TOTAL EXPENDITURES	STAFF	SALARIES	WAGES
1942/43	350,659	22,678	45,753.00	*	*	53.00	45,425.00	*
1943/44	425,000	18,300	26,300.00	26,300.00	*	45.00	61,750.00	*
1944/45	430,000	15,000	30,431.00	30,431.00	*	40.00	63,760.00	*
1945/46	457,000	29,000	36,997.00	45,385.00	*	49.00	68,288.00	*
1946/47	482,000	25,000	87,788.00	59,815.00	*	51.00	88,612.00	*
1947/48	515,500	33,500	102,061.00	58,000.00	*	50.00	93,313.00	*
1948/49	548,200	34,700	104,647.00	91,975.00	*	63.00	120,256.00	*
1949/50	578,000	27,870	86,662.00	92,535.00	*	58.50	132,644.00	17,347
1950/51	617,000	38,700	105,576.00	76,000.00	*	60.67	138,263.00	12,633

GEROULD DATA FOR PRINCETON

INSTITUTION
NUMBER: 6800

		VOLUMES		MATERIALS		TOTAL			
YEAR	VOLUMES	ADDED	EXPENDITURES	APPROPS.	EXPENDITURES	STAFF	SALARIES	WAGES	
1909/10	%	%	%	%		%	%		
1910/11	*	*	*	*	*	*	*	*	
1911/12	294,915	12,067	14,838.49	14,000.00	*	32.00	21,500.00	*	
1912/13	355,897	18,150	17,243.00	17,000.00	*	50.00	16,700.00	*	
1913/14	379,496	25,408	20,440.38	24,300.00	*	32.00	21,500.00	*	
1914/15	373,224	41,239	21,923.00	45,000.00	*	34.00	23,690.12	*	
1915/16	383,674	26,169	36,021.12	40,000.00	*	43.00	32,664.96	*	
1916/17	397,126	15,252	23,124.94	15,284.53	*	47.00	34,339.24	*	
1917/18	409,159	12,033	13,472.45	21,358.38	*	40.00	30,994.77	*	
1918/19	429,286	22,786	19,660.69	25,000.00	*	32.00	32,844.32	*	
1919/20	444,268	14,983	26,907.70	40,972.41	*	46.00	67,440.00	*	
1920/21	469,506	26,294	37,643.43	55,197.19	*	51.00	71,440.00	*	
1921/22	492,186	25,281	63,273.29	47,056.00	*	53.00	75,212.45	*	
1922/23	525,939	33,851	46,935.95	44,432.63	*	52.00	79,376.90	*	
1923/24	545,413	22,558	61,492.09	54,830.00	*	56.00	81,153.45	*	
1924/25	574,503	33,675	56,008.00	45,711.00	*	57.00	84,103.00	*	
1925/26	593,954	23,910	60,020.69	50,111.00	*	60.00	86,239.99	*	
1926/27	594,195	21,178	63,302.69	57,819.75	*	62.00	90,928.84	*	
1927/28	611,370	20,021	68,751.06	57,681.00	*	63.00	94,195.00	*	
1928/29	630,885	19,515	67,322.16	61,627.00	*	64.00	99,385.00	*	
1929/30	643,861	19,511	77,786.43	70,152.00	*	64.00	105,365.00	*	
1930/31	664,024	20,163	70,658.71	57,359.00	*	64.00	111,615.45	*	
1931/32	678,299	20,750	68,312.02	54,077.00	*	67.00	113,710.00	*	
1932/33	699,263	20,075	57,056.20	52,653.00	*	65.00	110,460.00	*	
1933/34	709,450	19,550	61,361.00	58,051.00	*	68.00	111,055.00	*	
1934/35	725,942	23,315	60,768.90	60,500.00	*	66.00	111,337.00	*	
1935/36	744,090	20,771	65,195.10	65,000.00	*	65.00	110,143.00	*	
1936/37	898,836	157,332?	61,616.28	59,682.66	*	66.00	109,989.72	*	
1937/38	919,555	23,778	67,606.66	57,580.00	*	65.00	110,798.88	*	
1938/39	939,017	21,758	69,092.54	70,414.66	*	66.00	102,962.56	*	
1939/40	959,645	22,885	67,546.33	68,488.90	*	69.00	109,540.00	*	
1940/41	976,260	19,781	64,137.61	65,856.36	*	74.00	114,459.00	*	
1941/42	990,657	16,695	54,622.00	70,304.00	*	74.00	116,364.00	*	
1942/43	1,003,809	16,096	55,777.65	62,264.72	*	62.00	107,066.49	*	
1943/44	1,017,077	16,823	51,776.00	53,877.00	*	56.00	97,947.00	*	
1944/45	1,039,849	19,800	71,235.00	51,304.00	*	59.00	103,854.00	*	
1945/46	1,058,920	20,361	77,582.00	65,957.00	*	66.00	119,767.00	*	
1946/47	1,086,280	27,360	109,098.80	76,089.00	*	82.00	154,509.43	*	
1947/48	1,119,695	33,415	51,391.00	100,357.00	*	88.00	183,657.00	*	
1948/49	1,143,097	24,475	117,745.00	108,062.00	*	116.40	241,326.00	*	
1949/50	1,166,634	25,730	117,096.00	114,486.00	*	114.16	242,543.00	7,862	
1950/51	1,193,085	25,220	130,914.00	113,232.00	*	115.67	263,064.00	9,522	
1951/52	1,211,999	22,708	122,817.00	135,294.00	*	116.00	271,939.00	12,156	
1952/53	1,243,115	32,117	145,155.00	144,578.00	*	114.75	280,848.00	13,841	
1953/54	1,275,703	34,018	151,685.00	143,303.00	*	113.00	308,085.00	13,750	
1954/55	1,308,000	34,219	154,375.00	*	501,492	119.33	329,940.00	17,177	
1955/56	1,407,179	37,618	169,632.00	*	550,716	125.17	362,676.00	18,408	
1956/57	1,457,173	51,277	211,547.00	*	609,480	128.67	376,371.00	21,562	
1957/58	1,508,240	53,134	243,707.00	*	682,979	135.00	418,633.00	20,539	
1958/59	1,569,825	63,930	239,810.00	*	737,767	143.00	474,897.00	23,060	
1959/60	1,626,537	58,313	251,848.00	*	736,740	146.50	462,625.00	22,267	
1960/61	1,689,302	65,943	315,511.00	*	909,958	151.83	568,777.00	25,670	
1961/62	1,754,580	66,102	347,343.00	*	1,006,719	167.83	629,848.00	29,528	

GEROULD DATA FOR PURDUE

INSTITUTION
NUMBER: 6900

YEAR	VOLUMES	VOLUMES ADDED	MATERIALS EXPENDITURES	APPROPS.	TOTAL EXPENDITURES	STAFF	SALARIES	WAGES
1956/57	417,258	23,890	150,638.00	*	447,392	70.00	245,738.00	51,016
1957/58	440,074	25,348	203,998.00	*	555,256	90.75	281,072.00	70,186
1958/59	469,877	29,803	273,883.00	*	723,056	108.00	387,015.00	62,158
1959/60	502,124	33,097	270,388.00	*	788,318	128.00	441,615.00	76,315
1960/61	535,262	35,519	306,214.00	*	870,507	122.00	488,292.00	76,001
1961/62	564,383	33,591	339,921.00	*	933,637	162.50	521,726.00	71,989

GEROULD DATA FOR ROCHESTER

INSTITUTION
NUMBER: 7200

YEAR	VOLUMES	VOLUMES ADDED	MATERIALS EXPENDITURES	APPROPS.	TOTAL EXPENDITURES	STAFF	SALARIES	WAGES
1925/26	140,380	13,826	53,212.00	42,250.00	*	16.00	35,361.00	*
1926/27	163,700	8,101	47,998.78	52,570.00	*	19.00	41,384.07	*
1927/28	163,015	8,647	48,328.24	56,000.00	*	23.00	53,768.00	*
1928/29	175,839	11,626	55,197.10	80,500.00	*	30.00	58,391.00	*
1929/30	191,266	15,427	75,073.70	73,150.00	*	34.00	70,966.00	*
1930/31	204,331	36,817	82,401.68	68,600.00	*	41.00	86,897.00	*
1931/32	230,692	26,262	57,391.72	68,162.00	*	40.00	81,065.00	*
1932/33	248,795	18,103	57,593.75	71,866.00	*	40.00	79,051.00	*
1933/34	264,490	15,695	65,393.00	66,884.00	*	42.00	78,812.00	*
1934/35	279,960	15,470	50,116.89	72,905.00	*	41.00	84,639.00	*
1935/36	297,689	17,329	62,452.79	75,405.00	*	41.00	80,032.00	*
1936/37	313,233	15,944	52,575.41	73,505.70	*	41.00	77,822.81	*
1937/38	329,706	17,059	67,852.44	66,300.00	*	42.00	76,178.00	*
1938/39	345,522	15,816	69,594.52	55,070.00	*	42.00	73,713.00	*
1939/40	360,184	15,315	54,378.63	72,612.00	*	43.00	71,847.84	*
1940/41	376,660	16,476	63,257.00	66,491.00	*	45.00	84,268.91	*
1941/42	392,820	16,900	52,140.76	63,957.84	*	46.00	78,556.00	*
1942/43	406,198	13,734	42,443.60	67,455.55	*	45.00	74,107.23	*
1943/44	421,684	15,486	44,640.00	67,789.00	*	45.00	78,500.00	*
1944/45	436,703	16,010	58,278.00	64,600.00	*	45.00	82,999.00	*
1945/46	449,995	13,780	42,152.40	75,111.83	*	45.00	84,816.36	*
1946/47	464,485	14,490	65,765.20	81,179.20	*	48.00	95,901.76	*
1947/48	479,617	16,262	81,034.00	78,272.00	*	50.00	105,283.00	*
1948/49	496,097	16,480	83,739.00	80,135.00	*	62.00	132,522.00	*
1949/50	514,575	18,478	89,022.00	86,645.00	*	53.00	126,215.00	15,261
1950/51	531,119	19,142	97,619.51	85,000.00	*	53.00	136,699.00	12,750
1951/52	548,305	19,097	93,037.00	91,974.00	*	53.00	142,746.00	14,264
1952/53	565,068	18,181	96,644.00	95,664.00	*	53.00	156,670.00	13,858
1953/54	580,609	17,122	101,010.00	95,744.00	*	54.00	158,082.00	14,642
1954/55	596,914	18,993	96,544.00	*	288,417	54.00	170,549.00	21,322
1955/56	613,526	19,899	105,028.00	*	294,319	52.00	168,969.00	20,322
1956/57	631,702	21,198	115,163.00	*	325,604	52.00	183,966.00	26,474
1957/58	654,641	25,197	122,766.00	*	366,011	53.00	214,565.00	28,680
1958/59	674,771	23,983	133,088.00	*	398,220	56.00	234,466.00	30,666
1959/60	696,630	22,854	143,874.00	*	430,668	56.00	247,082.00	39,712
1960/61	721,119	26,117	189,251.00	*	511,135	68.00	281,268.00	40,616
1961/62	749,217	29,871	240,713.00	*	636,880	92.00	340,540.00	55,627

GEROULD DATA FOR RUTGERS

INSTITUTION
NUMBER: 7300

YEAR	VOLUMES	VOLUMES ADDED	MATERIALS EXPENDITURES	APPROPS.	TOTAL EXPENDITURES	STAFF	SALARIES	WAGES
1940/41	342,802	10,123	95,900.00	85,070.00	*	30.00	55,530.00	*
1941/42	336,502	11,700	23,500.00	30,500.00	*	30.00	46,400.00	*
1942/43	347,314	10,812	30,500.00	27,200.00	*	21.00	47,480.00	*
1943/44	355,721	8,407	27,200.00	29,600.00	*	24.00	54,921.00	*
1944/45	367,640	11,919	32,066.00	34,000.00	*	22.00	54,921.00	*
1945/46	482,454	15,275	50,125.00	61,800.00	*	45.00	94,746.00	*
1946/47	496,953	14,499	61,800.00	93,000.00	*	59.00	133,332.92	*
1947/48	522,007	25,054	93,000.00	93,000.00	*	76.00	168,178.00	*
1948/49	546,530	24,523	89,200.00	94,200.00	*	79.00	225,770.00	*
1949/50	573,602	27,072	94,200.00	103,200.00	*	77.00	207,330.00	25,280
1950/51	615,710	40,528	109,468.00	114,220.00	*	72.50	229,910.00	26,320
1951/52	*	*	*	*	*	*	*	*
1952/53	*	*	*	*	*	*	*	*
1953/54	*	*	*	*	*	*	*	*
1954/55	*	*	*	*	*	*	*	*
1955/56	*	*	*	*	*	*	*	*
1956/57	780,250	28,301	171,541.00	*	572,285	76.00	373,055.00	27,689
1957/58	817,995	37,745	192,757.00	*	624,583	82.00	390,186.00	41,640
1958/59	862,554	44,559	251,976.00	*	750,527	87.00	450,970.00	47,581
1959/60	907,452	44,898	289,022.00	*	799,267	89.00	462,256.00	47,989
1960/61	961,272	53,820	272,807.00	*	800,494	97.00	479,687.00	48,000
1961/62	1,017,765	56,493	309,778.00	*	907,432	101.00	542,055.00	55,600

GEROULD DATA FOR ST. LOUIS

INSTITUTION
NUMBER: 7350

YEAR	VOLUMES	VOLUMES ADDED	MATERIALS EXPENDITURES	APPROPS.	TOTAL EXPENDITURES	STAFF	SALARIES	WAGES
1942/43	444,717	20,165	23,617.51	25,000.00	*	38.00	42,778.24	*
1943/44	459,320	14,603	26,820.00	27,500.00	*	29.00	35,903.00	*
1944/45	423,694	13,832	23,944.00	25,000.00	*	21.00	35,341.00	*
1945/46	423,694	8,325	41,463.59	*	*	21.00	30,175.32	*
1946/47	439,741	16,526	65,941.62	67,000.00	*	36.00	55,066.48	*
1947/48	433,722	20,640	75,597.00	76,000.00	*	40.00	76,738.00	*
1948/49	445,464	11,712	73,345.00	73,000.00	*	65.00	100,344.00	*
1949/50	437,330	20,018	54,525.00	*	*	56.00	64,300.00	*
1950/51	465,247	32,298	75,323.99	73,149.00	*	43.00	130,597.00	17,911

GEROULD DATA FOR SMITH

INSTITUTION
NUMBER: 7390

YEAR	VOLUMES	VOLUMES ADDED	MATERIALS EXPENDITURES	APPROPS.	TOTAL EXPENDITURES	STAFF	SALARIES	WAGES
1923/24	116,925	10,199	15,542.31	14,250.00	*	9.00	15,450.00	*
1924/25	127,276	9,124	13,447.00	18,000.00	*	9.00	17,000.00	*
1925/26	136,553	11,509	15,090.89	16,471.03	*	10.00	17,094.24	*
1926/27	145,866	12,165	16,367.58	16,000.00	*	10.00	15,847.43	*
1927/28	154,460	11,292	17,600.00	19,575.00	*	10.00	18,696.00	*
1928/29	165,322	10,861	18,768.08	20,944.29	*	11.00	18,169.00	*
1929/30	177,450	12,128	21,909.74	20,000.00	*	11.00	20,400.00	*
1930/31	189,000	11,549	21,019.95	21,000.00	*	10.00	20,228.82	*
1931/32	199,675	10,675	21,451.28	19,721.99	*	10.00	20,649.00	*
1932/33	208,624	8,944	16,608.31	20,896.00	*	10.00	21,050.00	*
1933/34	218,350	9,726	19,509.00	21,719.00	*	11.00	21,769.00	*
1934/35	227,354	9,004	19,525.29	19,575.00	*	11.00	23,100.00	*
1935/36	236,275	8,919	20,257.40	20,940.00	*	12.00	24,400.00	*
1936/37	245,317	9,041	17,570.92	21,195.00	*	14.00	28,463.08	*
1937/38	256,300	10,981	19,681.00	21,000.00	*	14.00	28,995.27	*
1938/39	265,312	9,011	20,453.78	20,899.00	*	14.00	29,260.00	*
1939/40	275,532	10,220	19,628.02	20,000.00	*	15.00	27,416.68	*
1940/41	285,132	9,600	16,884.76	20,000.00	*	17.00	29,462.38	*
1941/42	294,197	9,065	17,157.57	20,000.00	*	20.00	33,009.96	*
1942/43	304,026	9,822	19,161.00	21,732.00	*	19.00	36,400.00	*
1943/44	310,786	7,786	20,004.00	23,326.00	*	22.00	41,000.00	*
1944/45	317,984	8,028	21,696.00	33,250.00	*	22.00	40,850.00	*
1945/46	326,392	9,344	25,453.82	31,567.84	*	28.58	50,031.77	*
1946/47	335,429	9,870	26,850.48	32,092.84	*	30.50	57,962.00	*
1947/48	345,372	10,987	27,386.00	33,524.00	*	29.00	61,978.00	*
1948/49	353,142	15,327	32,266.00	38,103.00	*	31.00	63,276.00	*
1949/50	363,926	10,784	32,845.00	39,644.00	*	29.00	72,140.00	7,395
1950/51	374,640	10,714	33,976.81	41,373.00	*	29.25	74,213.00	2,914

GEROULD DATA FOR SOUTH DAKOTA

INSTITUTION
NUMBER: 7430

YEAR	VOLUMES	VOLUMES ADDED	MATERIALS EXPENDITURES	APPROPS.	TOTAL EXPENDITURES	STAFF	SALARIES	WAGES
1907/08	14,000	1,500	2,500.00	*	*	2.00	820.00	*
1908/09	*	*	*	*	*	*	*	*
1909/10	16,400	1,580	2,500.00	2,500.00	*	2.00	1,000.00	*
1910/11	*	*	*	*	*	*	*	*
1911/12	19,000	1,700	4,000.00	4,000.00	*	2.00	2,250.00	*
1912/13	23,000	2,000	4,000.00	3,000.00	*	2.00	2,350.00	*
1913/14	25,055	4,055	3,000.00	5,000.00	*	2.00	1,970.00	*
1914/15	30,000	5,000	5,000.00	3,000.00	*	2.00	2,570.00	*
1915/16	30,000	2,220	3,930.00	3,930.00	*	2.00	2,570.00	*
1916/17	32,000	2,000	3,500.00	4,000.00	*	2.00	3,000.00	*
1917/18	33,000	1,760	4,125.00	4,125.00	*	2.00	3,000.00	*
1918/19	34,600	1,600	4,000.00	4,375.00	*	3.00	3,830.00	*
1919/20	38,000	2,120	4,450.00	5,300.00	*	2.00	5,260.00	*
1920/21	39,280	2,560	5,300.00	2,300.00	*	2.00	4,325.00	*
1921/22	44,000	2,520	2,600.00	2,800.00	*	2.00	4,320.00	*
1922/23	45,000	2,200	5,590.00	10,000.00	*	4.00	7,320.00	*
1923/24	52,000	6,000	10,000.00	10,000.00	*	4.00	10,000.00	*
1924/25	53,350	3,350	10,000.00	12,000.00	*	6.00	9,420.00	*

GEROULD DATA FOR STANFORD

INSTITUTION
NUMBER: 7700

YEAR	VOLUMES		MATERIALS		TOTAL		STAFF	SALARIES	WAGES
	VOLUMES	ADDED	EXPENDITURES	APPROPS.	EXPENDITURES				
1909/10	%&	%&	%&	%&			%&	%&	
1910/11	*	*	*	*	*	*	*	*	*
1911/12	205,801	14,684	33,098.11	40,375.00	*	25.00	25,440.00	*	
1912/13	221,720	16,530	42,658.00	38,645.00	*	24.00	26,010.00	*	
1913/14	239,122	17,402	40,940.23	56,802.00	*	24.00	27,425.00	*	
1914/15	263,657	24,535	58,076.70	31,834.00	*	25.00	29,230.00	*	
1915/16	276,251	12,982	28,860.42	37,223.00	*	25.00	29,750.00	*	
1916/17	287,634	11,383	25,021.20	31,468.00	*	24.00	30,590.00	*	
1917/18	298,856	11,550	21,475.86	30,400.00	*	24.00	32,510.00	*	
1918/19	310,230	11,374	26,313.69	50,000.00	*	23.00	32,500.00	*	
1919/20	319,872	9,642	29,715.50	30,660.00	*	30.00	44,050.00	*	
1920/21	336,181	16,456	53,349.83	43,345.00	*	27.00	49,900.00	*	
1921/22	348,058	12,435	41,341.59	37,048.00	*	34.00	58,900.00	*	
1922/23	362,889	15,103	41,298.00	41,293.00	*	32.00	56,390.00	*	
1923/24	375,903	15,015	35,590.00	41,550.00	*	33.00	59,410.00	*	
1924/25	390,988	13,084	42,191.00	45,390.00	*	34.00	61,940.00	*	
1925/26	404,833	14,119	45,858.58	47,300.00	*	32.00	64,172.00	*	
1926/27	420,516	13,742	45,445.15	44,765.00	*	32.00	66,755.00	*	
1927/28	490,733	16,542	58,697.53	*	*	51.00	86,202.00	*	
1928/29	511,034	19,778	59,896.12	60,000.00	*	51.00	89,462.00	*	
1929/30	528,934	17,900	65,737.45	62,000.00	*	54.00	90,602.00	*	
1930/31	546,932	17,998	59,701.87	60,000.00	*	54.00	95,580.00	*	
1931/32	567,243	20,311	64,683.65	105,000.00	*	55.00	95,772.00	*	
1932/33	586,089	18,846	55,161.38	86,030.00	*	50.00	81,702.00	*	
1933/34	610,737	24,648	55,460.00	55,985.00	*	50.00	88,951.00	*	
1934/35	635,873	26,138	55,598.80	56,000.00	*	52.00	90,000.00	*	
1935/36	659,897	24,024	52,002.37	52,000.00	*	52.00	90,000.00	*	
1936/37	685,735	26,076	46,354.45	50,000.00	*	52.00	90,000.00	*	
1937/38	710,806	25,071	58,415.88	63,000.00	*	54.00	96,963.08	*	
1938/39	738,879	28,073	63,519.73	65,000.00	*	55.00	103,800.00	*	
1939/40	773,626	34,747	60,041.14	65,000.00	*	58.00	108,000.00	*	
1940/41	810,137	37,068	42,809.54	53,918.47	*	60.00	120,303.00	*	
1941/42	840,162	30,025	45,149.61	55,000.00	*	61.00	122,000.00	*	
1942/43	867,658	27,496	54,000.00	55,000.00	*	60.00	122,000.00	*	
1943/44	889,151	21,493	35,000.00	36,000.00	*	60.00	115,000.00	*	
1944/45	918,873	29,722	37,816.00	35,780.00	*	60.00	115,030.00	*	
1945/46	952,051	33,179	53,014.39	*	*	60.00	*	*	
1946/47	1,045,734	39,199	183,000.00	183,000.00	*	76.00	125,000.00	*	
1947/48	1,191,024	39,542	130,039.00	*	*	75.00	245,455.00	*	
1948/49	1,221,826	43,912	197,450.00	*	*	132.00	283,257.00	*	
1949/50	1,092,008	40,301	171,234.00	169,905.00	*	102.50	273,601.00	70,207	
1950/51	1,128,893	20,041	184,430.50	134,532.00	*	102.50	351,603.00	*	
1951/52	1,171,695	42,802	179,625.00	144,145.00	*	108.75	312,842.00	62,092	
1952/53	1,213,716	42,021	187,578.00	167,157.00	*	111.00	362,010.00	66,012	
1953/54	1,257,698	43,061	178,325.00	155,560.00	*	119.00	372,484.00	59,893	
1954/55	1,308,680	50,992	202,127.00	*	710,264	128.00	437,819.00	70,316	
1955/56	1,366,627	57,947	223,283.00	*	760,303	131.75	449,578.00	87,442	
1956/57	1,414,611	48,034	239,313.00	*	798,014	145.25	478,866.00	79,833	
1957/58	1,355,715	48,772	273,173.00	*	934,710	143.75	582,196.00	79,341	
1958/59	1,448,080	78,085	293,430.00	*	1,026,720	156.00	645,580.00	87,710	
1959/60	1,592,287	80,463	347,135.00	*	1,139,409	159.50	688,710.00	103,564	
1960/61	1,615,740	92,945	378,944.00	*	1,280,966	175.50	783,513.00	118,509	
1961/62	2,287,332	71,323	437,628.00	*	1,484,728	193.00	925,705.00	121,395	

GEROULD DATA FOR TEMPLE

INSTITUTION
NUMBER: 8200

YEAR	VOLUMES		MATERIALS		TOTAL		STAFF	SALARIES	WAGES
	VOLUMES	ADDED	EXPENDITURES	APPROPS.	EXPENDITURES				
1940/41	210,087	19,167	31,453.95	27,240.00	*	40.00	51,965.20	*	
1941/42	224,364	14,277	12,242.33	10,235.00	*	25.00	43,132.49	*	
1942/43	242,370	15,150	25,549.00	27,470.00	*	26.00	46,875.54	*	
1943/44	248,007	7,452	22,909.00	17,000.00	*	28.00	43,128.00	*	
1944/45	257,152	6,706	17,002.00	21,300.00	*	26.00	42,769.00	*	
1945/46	262,000	10,425	31,270.96	78,000.00	*	42.00	60,632.67	*	
1946/47	274,500	12,500	35,476.30	45,000.00	*	46.00	94,418.77	*	
1947/48	291,693	21,147	69,933.00	75,000.00	*	54.00	113,547.00	*	
1948/49	307,058	16,427	74,911.00	75,000.00	*	72.21	159,044.00	*	
1949/50	322,633	20,918	82,965.00	56,900.00	*	60.70	151,661.00	15,898	
1950/51	339,885	22,460	92,002.92	90,385.00	*	61.00	161,884.00	16,693	

GEROULD DATA FOR TEXAS

INSTITUTION

NUMBER: 8400

YEAR	VOLUMES	VOLUMES ADDED	MATERIALS EXPENDITURES	APPROPS.	TOTAL EXPENDITURES	STAFF	SALARIES	WAGES
1913/14	100,774?	11,694?	17,000.00?	21,000.00?	*	18.00?	15,040.00?	*
1914/15	109,032	9,811	21,620.00	23,595.00	*	14.00	15,060.00	*
1915/16	120,825	13,026	27,711.95	27,853.40	*	16.00	16,500.00	*
1916/17	134,242	13,210	33,668.99	30,000.00	*	17.00	17,410.00	*
1917/18	148,160	13,487	29,334.00	34,894.00	*	19.00	20,760.00	*
1918/19	165,678	17,514	36,858.30	38,922.00	*	21.00	21,301.00	*
1919/20	183,263	17,483	41,728.86	37,689.32	*	22.00	33,150.00	*
1920/21	205,097	21,833	54,182.14	37,700.00	*	23.00	35,700.00	*
1921/22	225,347	20,250	37,878.90	42,498.00	*	25.00	41,000.00	*
1922/23	*	*	*	*	*	*	*	*
1923/24	282,048	18,536	37,659.23	25,106.16	*	23.00	49,470.00	*
1924/25	*	*	*	*	*	*	*	*
1925/26	416,523	17,041	32,862.83	30,000.00	*	30.00	66,130.00	*
1926/27	388,016?	31,362?	74,818.54?	35,000.00?	*	26.00?	52,530.00?	*
1927/28	411,310	20,161	59,912.67	53,910.00	*	29.00	52,000.00	*
1928/29	430,082	12,692	46,500.00	46,500.00	*	29.00	52,900.00	*
1929/30	*	*	*	*	*	*	*	*
1930/31	459,873	17,425	54,712.00	35,946.00	*	30.00	52,210.00	*
1931/32	471,515	10,642	36,133.00	36,000.00	*	29.00	53,500.00	*
1932/33	450,249	12,235	35,506.82	28,000.00	*	30.00	44,390.00	*
1933/34	473,837	20,158	69,992.00	30,000.00	*	36.00	42,425.00	*
1934/35	490,345	17,686	53,665.17	57,000.00	*	38.00	79,630.00	*
1935/36	509,127	17,782	49,299.30	74,000.00	*	40.00	80,126.00	*
1936/37	531,454	22,985	67,194.51	88,500.00	*	42.00	85,106.37	*
1937/38	564,360?	32,906	96,894.37	105,245.00	*	46.00	91,612.22	*
1938/39	618,856	55,159	106,274.70	98,300.00	*	48.00	75,678.95	*
1939/40	639,732	26,117	99,930.00	91,962.24	*	52.00	82,397.26	*
1940/41	673,888	34,156	101,292.02	97,082.20	*	53.00	79,947.86	*
1941/42	702,429	28,541	138,623.70	77,050.00	*	56.00	88,139.80	*
1942/43	729,319	26,890	78,564.14	92,653.00	*	56.00	89,109.65	*
1943/44	750,974	21,655	85,552.00	71,788.00	*	56.00	82,911.00	*
1944/45	775,124	24,150	78,866.00	81,623.00	*	50.00	93,694.00	*
1945/46	801,637	26,513	79,969.66	84,186.83	*	54.90	103,019.70	*
1946/47	832,786	31,149	99,168.73	110,878.91	*	59.83	131,218.26	*
1947/48	868,171	35,385	221,367.00	132,986.00	*	67.00	166,632.00	*
1948/49	898,755	31,362	137,728.00	144,010.00	*	73.50	193,909.00	*
1949/50	934,290	36,623	150,904.00	159,308.00	*	82.30	209,730.00	72,212
1950/51	973,279	38,989	166,372.49	143,300.00	*	78.97	222,893.00	68,277
1951/52	1,011,153	37,859	139,778.00	151,500.00	*	76.15	218,456.00	67,564
1952/53	1,050,755	41,294	174,383.00	175,300.00	*	76.82	247,572.00	70,941
1953/54	1,095,284	45,531	200,057.00	175,300.00	*	78.83	260,343.00	82,154
1954/55	1,132,128	40,313	199,002.00	*	573,443	85.08	287,420.00	87,021
1955/56	1,166,295	36,044	178,115.00	*	539,859	91.67	278,520.00	83,224
1956/57	1,208,265	44,653	197,625.00	*	583,443	92.67	299,737.00	86,080
1957/58	1,248,265	42,154	362,764.00	*	806,931	98.50	325,580.00	89,784
1958/59	1,299,217	52,688	633,749.00	*	1,140,534	109.92	409,318.00	97,467
1959/60	1,350,671	58,094	987,978.00	*	1,533,667	128.58	450,214.00	95,475
1960/61	1,424,861	76,171	966,437.00	*	1,585,716	130.80	518,261.00	101,018
1961/62	1,508,262	86,203	1,242,171.00	*	1,910,741	137.13	549,433.00	119,137

GEROULD DATA FOR TORONTO

INSTITUTION
NUMBER: 8600

YEAR	VOLUMES	VOLUMES ADDED	MATERIALS EXPENDITURES	APPROPS.	TOTAL EXPENDITURES	STAFF	SALARIES	WAGES
1949/50	667,722	15,906	69,000.00	65,000.00	*	69.00	100,482.00	1,500
1950/51	684,226	16,503	65,000.00	73,242.00	*	54.00	120,000.00	1,000

GEROULD DATA FOR VASSAR

INSTITUTION
NUMBER: 8860

YEAR	VOLUMES	VOLUMES ADDED	MATERIALS EXPENDITURES	APPROPS.	TOTAL EXPENDITURES	STAFF	SALARIES	WAGES
1923/24	132,558	6,812	14,490.35	17,947.00	*	14.00	24,077.00	*
1924/25	137,205	7,117	15,915.00	16,000.00	*	14.00	23,486.00	*
1925/26	143,838	5,089	14,900.70	16,472.20	*	15.00	28,054.00	*
1926/27	150,800	5,953	14,993.70	17,202.85	*	17.00	31,888.00	*
1927/28	156,000	7,262	18,545.00	17,065.00	*	18.00	32,600.00	*
1928/29	161,524	5,484	17,775.23	17,467.00	*	19.00	32,454.00	*
1929/30	168,375	6,311	18,303.00	18,869.00	*	20.00	35,651.00	*
1930/31	174,778	7,137	23,494.00	21,007.00	*	18.00	37,101.00	*
1931/32	180,738	6,614	19,509.00	19,060.00	*	20.00	36,709.00	*
1932/33	186,000	7,172	20,099.00	14,379.00	*	20.00	38,861.00	*
1933/34	190,220	5,367	18,351.00	19,421.00	*	21.00	39,934.00	*
1934/35	195,569	5,937	20,877.12	16,403.00	*	21.00	39,111.00	*
1935/36	201,000	5,990	17,590.00	14,123.00	*	21.00	38,996.00	*
1936/37	206,000	5,555	18,048.00	18,408.00	*	21.00	37,494.00	*
1937/38	212,322	5,949	16,164.00	17,060.00	*	21.00	41,529.00	*
1938/39	218,268	7,505	19,929.00	15,592.00	*	24.00	39,831.00	*
1939/40	223,475	6,513	18,372.00	14,338.00	*	24.00	40,152.00	*
1940/41	227,123	6,566	17,933.73	15,754.00	*	23.50	40,134.92	*
1941/42	235,246	5,997	18,658.92	20,623.65	*	24.00	40,489.15	*
1942/43	240,000	6,045	15,790.66	23,180.00	*	27.00	42,667.00	*
1943/44	243,587	5,845	18,123.00	19,058.00	*	25.00	48,017.00	*
1944/45	249,623	6,583	18,099.00	18,927.00	*	26.00	51,803.00	*
1945/46	254,408	5,269	21,115.92	23,044.39	*	26.64	53,077.55	*
1946/47	258,860	4,452	21,813.34	17,703.47	*	30.00	65,812.27	*
1947/48	263,134	4,274	17,969.00	27,139.00	*	33.00	74,055.00	*
1948/49	266,727	5,978	22,343.00	22,397.00	*	30.50	85,905.00	*
1949/50	272,021	5,294	21,831.00	28,715.00	*	31.75	83,250.00	3,906
1950/51	277,915	8,330	28,645.00	27,417.00	*	30.75	91,138.00	3,729

GEROULD DATA FOR VIRGINIA

INSTITUTION
NUMBER: 8900

YEAR	VOLUMES	VOLUMES ADDED	MATERIALS EXPENDITURES	APPROPS.	TOTAL EXPENDITURES	STAFF	SALARIES	WAGES
1921/22	120,000	*	3,053.73	5,700.00	*	7.00	8,810.00	*
1922/23	123,780	3,780	4,168.98	4,950.00	*	6.00	8,810.00	*
1923/24	128,220	4,440	5,612.00	6,000.00	*	6.00	9,540.00	*
1924/25	131,422	3,202	5,830.00	5,600.00	*	7.00	11,000.00	*
1925/26	136,142	4,220	4,965.99	9,250.00	*	7.00	10,815.38	*
1926/27	140,000	3,858	10,083.27	11,070.00	*	14.00	16,215.00	*
1927/28	157,446	6,113	15,609.15	15,290.00	*	18.00	22,045.00	*
1928/29	163,162	8,773	17,502.66	21,394.00	*	24.00	31,380.00	*
1929/30	171,899	8,737	23,760.81	23,900.00	*	24.00	34,698.00	*
1930/31	184,468	12,569	30,388.11	27,000.00	*	31.00	46,960.70	*
1931/32	200,644	16,176	30,530.51	24,309.00	*	31.00	44,809.00	*
1932/33	215,168	14,524	27,827.18	22,976.00	*	31.00	40,773.00	*
1933/34	232,014	16,846	40,264.00	21,883.00	*	31.00	41,661.00	*
1934/35	248,580	16,566	29,766.49	23,000.00	*	31.00	45,028.00	*
1935/36	265,273	16,693	26,761.21	22,202.00	*	30.00	44,622.00	*
1936/37	284,462	19,189	29,006.74	24,366.00	*	30.00	48,452.57	*
1937/38	303,502	19,040	35,393.70	27,500.00	*	43.00	60,313.21	*
1938/39	320,835	17,333	33,913.94	30,903.00	*	53.00	77,534.05	*
1939/40	338,535	17,700	35,630.17	31,078.00	*	54.00	79,749.47	*
1940/41	359,811	21,276	60,643.21	44,290.00	*	55.00	79,377.04	*
1941/42	382,050	22,239	57,204.03	38,470.00	*	55.00	81,089.22&	*
1942/43	405,145	23,095	52,848.91	38,370.00	*	57.00	70,191.84	*
1943/44	424,002	18,857	57,211.00	46,895.00	*	61.00	93,150.00	*
1944/45	443,128	19,126	58,752.00	53,258.00	*	61.00	116,301.00	*
1945/46	461,691	18,563	45,627.99	53,025.00	*	59.00	96,642.49	*
1946/47	484,826	23,135	68,497.52	55,705.00	*	59.00	127,629.82	*
1947/48	514,900	30,074	71,757.00	56,160.00	*	61.00	141,102.00	*
1948/49	551,497	36,397	104,987.00	79,370.00	*	86.00	202,391.00	*
1949/50	592,390	40,893	111,201.00	91,642.00	*	68.00	194,760.00	28,332
1950/51	630,633	38,243	104,297.90	100,000.00	*	70.50	201,412.00	25,761
1951/52	670,948	40,305	97,516.00	100,000.00	*	69.00	221,768.00	23,062
1952/53	709,816	38,868	107,011.00	110,000.00	*	68.60	227,476.00	22,800
1953/54	746,834	37,018	114,169.00	125,000.00	*	69.00	236,919.00	24,807
1954/55	785,277	39,160	122,500.00	*	382,577	69.50	236,460.00	23,617
1955/56	821,143	35,866	137,629.00	*	421,405	70.50	258,618.00	25,158
1956/57	850,896	40,069	154,234.00	*	457,034	72.50	267,420.00	35,380
1957/58	895,632	45,748	170,369.00	*	491,104	70.00	292,047.00	28,688
1958/59	926,293	36,368	196,857.00	*	573,109	72.50	306,456.00	39,179
1959/60	966,390	42,260	189,194.00	*	545,076	72.50	319,392.00	36,490
1960/61	1,104,610	58,795	213,490.00	*	590,704	74.50	340,744.00	36,470
1961/62	1,155,488	50,878	222,036.00	*	644,334	81.75	382,390.00	39,908

GEROULD DATA FOR WASHINGTON (SEATTLE)

INSTITUTION
NUMBER: 9100

YEAR	VOLUMES	VOLUMES ADDED	MATERIALS EXPENDITURES	APPROPS.	TOTAL EXPENDITURES	STAFF	SALARIES	WAGES
1907/08	35,519	4,398	7,596.00	*	*	6.00	5,940.00	*
1908/09	*	*	*	*	*	*	*	*
1909/10	41,650	2,586	5,500.00	5,000.00	*	5.00	7,000.00	*
1910/11	*	*	*	*	*	*	*	*
1911/12	50,163	5,857	13,273.60	5,000.00	*	6.00	8,640.00	*
1912/13	52,614	4,310	9,800.00	12,000.00	*	6.00	8,640.00	*
1913/14	58,330	5,716	12,500.00	12,500.00	*	8.00	9,715.00	*
1914/15	64,991	6,661	12,000.00	10,000.00	*	9.00	12,130.00	*
1915/16	74,068	5,447	12,000.00	8,000.00	*	9.00	12,130.00	*
1916/17	80,307	6,239	8,000.00	10,000.00	*	10.00	13,180.00	*
1917/18	84,809	4,502	7,000.00	6,500.00	*	10.00	13,180.00	*
1918/19	89,727	4,918	20,000.00	14,000.00	*	12.00	16,865.00	*
1919/20	96,128	6,401	13,500.00	13,500.00	*	13.00	22,500.00	*
1920/21	104,776	8,648	13,500.00	10,585.00	*	13.00	24,695.00	*
1921/22	114,014	9,238	10,585.00	30,115.00	*	17.00	28,460.00	*
1922/23	120,964	9,946	26,383.03	35,000.00	*	17.00	30,858.00	*
1923/24	132,007	11,143	43,935.42	41,064.58	*	18.00	30,900.00	*
1924/25	143,840?	15,391?	50,464.00	46,000.00	*	16.00	28,980.00	*
1925/26	154,877	12,464	47,453.42	35,000.00	*	23.00	40,630.00	*
1926/27	174,668	13,169	37,809.03	35,000.00	*	24.00	62,367.90	*
1927/28	191,358	16,690	36,914.50	40,500.00	*	29.00	74,116.00	*
1928/29	198,757	7,378	40,170.82	44,000.00	*	29.00	74,446.00	*
1929/30	207,069?	11,618	44,867.48	54,000.00	*	29.00	71,761.00	*
1930/31	292,982	17,600	55,416.92	45,000.00	*	30.00	76,784.48	*
1931/32	257,853	19,768	51,197.23	*	*	29.00	75,837.00	*
1932/33	265,492	8,179	26,668.63	28,080.00	*	31.00	69,562.00	*
1933/34	275,820	10,180	27,044.00	45,000.00	*	31.00	61,249.00	*
1934/35	366,962	16,598	48,829.74	31,100.00	*	31.00	75,483.00	*
1935/36	385,809	18,860	40,518.66	40,908.00	*	34.00	86,506.00	*
1936/37	400,463	14,654	45,031.11	56,211.00	*	35.00	90,654.55	*
1937/38	429,717	16,482	52,255.63	60,332.11	*	36.00	91,094.61	*
1938/39	444,934	16,145	73,138.91	64,040.00	*	37.00	94,334.24	*
1939/40	458,082	18,140	47,172.70	55,345.00	*	38.00	94,645.30	*
1940/41	478,687	23,904	54,586.23	50,132.00	*	38.00	105,273.09	*
1941/42	519,518	42,168	49,289.75	58,432.50	*	39.00	108,747.00	*
1942/43	535,296	19,027	66,930.42	59,000.00	*	38.00	79,194.89	*
1943/44	552,875	16,251	51,478.00	59,586.00	*	37.00	82,146.00	*
1944/45	575,694	17,466	78,151.00	76,060.00	*	36.00	84,727.00	*
1945/46	588,295	18,760	67,328.00	71,620.00	*	35.00	90,052.00	*
1946/47	610,994	21,812	127,091.00	116,746.00	*	41.00	109,082.00	*
1947/48	642,470	31,186	114,228.00	137,246.00	*	82.00	191,977.00	*
1948/49	666,348	33,787	165,770.00	174,290.00	*	131.00	338,634.00	*
1949/50	700,716	34,368	192,319.00	178,242.00	*	156.75	348,411.00	1,584
1950/51	733,429	33,949	181,127.00	200,000.00	*	108.00	303,742.00	88,102
1951/52	761,161	29,274	143,615.00	209,230.00	*	106.00	317,046.00	83,824
1952/53	802,681	35,463	212,039.00	176,048.00	*	109.50	355,465.00	87,584
1953/54	842,928	42,779	188,281.00	177,471.00	*	130.00	415,032.00	87,416
1954/55	865,002	23,545	200,446.00	*	697,460	132.50	417,209.00	79,805
1955/56	895,079	30,205	189,052.00	*	736,135	137.75	454,895.00	92,188
1956/57	928,700	34,517	299,408.00	*	861,474	139.25	473,514.00	88,552
1957/58	971,935	43,711	296,381.00	*	992,864	154.75	576,652.00	119,831
1958/59	1,014,328	45,177	339,333.00	*	1,113,501	167.50	628,354.00	145,814
1959/60	1,060,086	45,918	317,791.00	*	1,199,262	188.00	729,574.00	151,897
1960/61	1,104,485	59,705	577,443.00	*	1,617,318	197.25	861,531.00	178,344
1961/62	1,173,496	79,431	437,125.00	*	1,588,499	225.50	1,017,031.00	134,343

GEROULD DATA FOR WASHINGTON STATE

INSTITUTION
NUMBER: 9200

YEAR	VOLUMES	VOLUMES ADDED	MATERIALS EXPENDITURES	APPROPS.	TOTAL EXPENDITURES	STAFF	SALARIES	WAGES
1942/43	525,000	35,000	68,339.98	*	*	17.00	27,314.34	*
1943/44	555,000	30,000	55,499.00	*	*	17.00	33,416.00	*
1944/45	557,543	25,180	35,814.00	*	*	28.00	49,489.00	*
1945/46	591,340	28,755	26,312.75	29,905.87	*	29.00	62,978.98	*
1946/47	600,000	22,142	36,502.32	41,160.92	*	50.00	116,299.60	*
1947/48	610,763	27,889	31,225.00	26,200.00	*	50.00	128,000.00	*
1948/49	600,000	15,901	48,909.00	46,000.00	*	63.00	152,834.00	*
1949/50	600,000	18,560	60,955.00	*	*	63.00	143,935.00	36,000
1950/51	600,000	11,299	60,300.00	61,000.00	*	57.00	143,935.00	36,000

GEROULD DATA FOR WASHINGTON UNIVERSITY-ST. LOUIS

INSTITUTION
NUMBER: 9300

YEAR	VOLUMES	VOLUMES ADDED	MATERIALS EXPENDITURES	APPROPS.	TOTAL EXPENDITURES	STAFF	SALARIES	WAGES
1922/23	225,000	10,000	27,001.34	26,750.00	*	18.00	24,750.00	*
1923/24	234,926	12,176	36,060.31	38,390.00	*	23.00	28,645.72	*
1924/25	245,000	10,074	37,948.00	35,000.00	*	27.00	33,000.00	*
1925/26	261,301	15,233	69,550.49	45,935.00	*	27.00	33,900.89	*
1926/27	277,885	16,584	29,967.03	*	*	19.00	31,360.00	*
1927/28	243,221	7,420	40,367.00	35,700.00	*	23.00	34,410.00	*
1928/29	250,699	8,934	42,267.40	41,187.27	*	24.00	38,762.00	*
1929/30	168,752	6,256	19,502.83	20,000.00	*	16.00	26,060.00	*
1930/31	271,808	12,322	36,502.00	36,398.00	*	25.00	36,280.00	*
1931/32	271,808	12,322	40,866.07	35,306.00	*	25.00	38,758.00	*
1932/33	189,632	7,445	19,933.00	17,891.00	*	17.00	23,097.00	*
1933/34	295,249	4,998	29,992.00	30,425.00	*	24.00	35,531.00	*
1934/35	303,089	7,840	29,618.85	31,350.00	*	24.00	35,150.00	*
1935/36	305,515	7,426	36,112.32	38,240.00	*	27.00	35,265.00	*
1936/37	305,515	7,077	35,533.00	35,000.00	*	25.00	35,974.00	*
1937/38	167,556	6,288	17,315.00	17,315.00	*	16.00	23,046.00	*
1938/39	398,819	14,384	32,932.63	30,273.63	*	34.00	*	*
1939/40	409,872	11,063	18,109.70	18,109.70	*	16.00	23,046.00	*
1940/41	481,137	14,915	29,750.00	29,750.00	*	34.00	50,000.00	*
1941/42	501,623	20,486	29,750.00	29,750.00	*	34.00	50,000.00	*
1942/43	276,390	15,941	14,997.00	14,997.00	*	17.00	23,092.00	*
1943/44	565,329	28,510	37,000.00	35,000.00	*	31.00	50,000.00	*
1944/45	582,069	16,740	43,289.00	36,572.00	*	31.00	48,408.00	*
1945/46	566,916	40,715	50,361.15	52,197.74	*	33.00	56,424.55	*
1946/47	472,742	10,163	53,461.00	66,757.00	*	26.00	55,390.00	*
1947/48	490,834	20,976	76,241.00	74,280.00	*	45.00	107,700.00	*
1948/49	501,177	21,136	87,008.00	90,734.00	*	46.00	97,495.00	*
1949/50	527,346	26,813	94,044.00	96,605.00	*	56.50	122,685.00	18,043
1950/51	543,464	16,807	98,392.83	87,315.00	*	55.00	136,460.00	9,990
1951/52	568,821	17,102	80,415.00	*	*	52.00	137,106.00?	10,290?
1952/53	565,174	16,259	98,331.00	114,195.00	*	50.25	132,524.00	23,164
1953/54	577,690	14,812	98,745.00	116,893.00	*	55.67	141,291.00	27,965
1954/55	594,055	15,924	107,299.00	*	292,010	54.25	153,909.00	30,802
1955/56	611,684	19,985	127,908.00	*	337,925	54.50	173,394.00	36,623
1956/57	667,713	22,029	135,687.00	*	376,511	60.00	202,364.00	38,460
1957/58	687,517	22,047	149,464.00	*	409,237	61.75	218,145.00	41,628
1958/59	707,985	22,647	200,308.00	*	493,946	63.25	244,239.00	49,399
1959/60	726,218	21,172	182,470.00	*	491,372	67.00	259,248.00	49,654
1960/61	748,471	23,185	197,143.00	*	530,448	70.00	271,783.00	61,522
1961/62	771,949	26,543	215,132.00	*	601,393	76.00	326,731.00	59,530

GEROULD DATA FOR WELLESLEY

INSTITUTION
NUMBER: 9420

YEAR	VOLUMES	VOLUMES ADDED	MATERIALS EXPENDITURES	APPROPS.	TOTAL EXPENDITURES	STAFF	SALARIES	WAGES
1925/26	115,690	3,367	12,076.86	13,650.00	*	14.00	27,950.00	*
1926/27	119,913	4,323	14,216.28	15,500.00	*	15.00	29,450.00	*
1927/28	125,473	4,314	16,315.50	17,550.00	*	17.00	31,600.00	*
1928/29	131,059	4,464	17,362.72	18,602.00	*	18.00	31,600.00	*
1929/30	135,684	4,452	18,484.16	18,630.00	*	18.00	35,518.00	*
1930/31	142,012	6,328	23,903.79	21,000.00	*	20.00	38,410.00	*
1931/32	149,481	5,998	18,276.66	20,000.00	*	20.00	40,490.00	*
1932/33	154,177	6,167	18,276.66	20,000.00	*	20.00	41,470.00	*
1933/34	159,973	5,520	18,060.00	20,000.00	*	20.00	39,980.00	*
1934/35	166,142	6,087	19,051.55	20,000.00	*	20.00	40,390.00	*
1935/36	171,703	5,561	19,764.04	20,000.00	*	20.00	40,950.00	*
1936/37	176,999	5,296	21,603.08	20,000.00	*	20.00	40,950.00	*
1937/38	182,801	6,907	23,935.68	20,000.00	*	20.00	45,650.00	*
1938/39	189,728	7,112	22,780.84	20,000.00	*	23.00	45,950.00	*
1939/40	195,997	6,569	24,755.53	22,000.00	*	27.00	46,030.33	*
1940/41	204,161	8,773	27,236.79	25,804.11	*	28.00	47,096.00	*
1941/42	212,380	8,946	24,553.61	22,662.33	*	27.00	48,442.00	*
1942/43	219,237	7,395	24,605.49	*	*	26.00	48,534.00	*
1943/44	226,638	7,809	25,193.00	22,000.00	*	26.00	49,384.00	*
1944/45	234,076	8,672	25,717.00	22,000.00	*	27.00	50,998.00	*
1945/46	240,846	7,092	27,031.62	25,000.00	*	29.00	56,890.00	*
1946/47	248,466	8,526	27,322.59	27,040.80	*	29.00	62,200.00	*
1947/48	254,753	6,794	24,965.00	25,500.00	*	27.00	66,735.00	*
1948/49	261,108	6,498	29,113.00	34,430.00	*	33.20	79,876.00	*
1949/50	269,529	9,822	33,696.00	30,000.00	*	29.92	79,602.00	1,653
1950/51	277,786	9,169	34,654.94	30,000.00	*	30.00	86,597.00	1,172

GEROULD DATA FOR WESLYAN

INSTITUTION
NUMBER: 9440

YEAR	VOLUMES	VOLUMES ADDED	MATERIALS EXPENDITURES	APPROPS.	TOTAL EXPENDITURES	STAFF	SALARIES	WAGES
1946/47	338,323	11,235	19,007.50	20,000.00	*	22.00	37,000.00	*
1947/48	364,140	7,817	13,702.00	18,000.00	*	22.00	38,623.00	*
1948/49	407,482	6,335	20,500.00	21,500.00	*	23.00	39,237.00	*
1949/50	352,482	6,336	18,920.00	19,700.00	*	25.00	46,648.00	7,762
1950/51	370,270	8,925	20,391.00	25,688.00	*	16.00	44,636.00	8,551

GEROULD DATA FOR WESTERN RESERVE

INSTITUTION
NUMBER: 9520

YEAR	VOLUMES	VOLUMES ADDED	MATERIALS EXPENDITURES	APPROPS.	TOTAL EXPENDITURES	STAFF	SALARIES	WAGES
1942/43	565,500	10,814	31,174.00	31,000.00	*	39.00	59,822.00	*
1943/44	575,000	8,800	27,745.00	30,790.00	*	35.00	66,988.00	*
1944/45	582,000	8,500	29,200.00	36,700.00	*	36.00	70,946.00	*
1945/46	591,000	11,700	30,169.00	47,225.00	*	41.00	75,813.00	*
1946/47	604,000	14,500	49,933.00	63,136.00	*	45.00	83,464.00	*
1947/48	621,000	17,445	66,625.00	75,778.00	*	51.00	110,612.00	*
1948/49	647,000	25,444	77,868.00	72,570.00	*	75.00	151,943.00	*
1949/50	644,714	22,133	74,791.00	70,910.00	*	58.00	140,216.00	25,320
1950/51	679,878	15,831	76,021.00	72,351.00	*	59.00	141,833.00	26,592

GEROULD DATA FOR WISCONSIN

INSTITUTION
NUMBER: 9600

YEAR	VOLUMES	VOLUMES ADDED	MATERIALS EXPENDITURES	APPROPS.	TOTAL EXPENDITURES	STAFF	SALARIES	WAGES
1907/08	135,000	13,000	33,293.00	*	*	19.00	17,465.00	*
1908/09	*	*	*	*	*	*	*	*
1909/10	163,000	16,000	30,000.00	27,500.00	*	18.00	18,935.00	*
1910/11	*	*	*	*	*	*	*	*
1911/12	192,513?	10,800?	24,425.00?	29,200.00?	*	18.00?	22,650.00?	*
1912/13	204,000	11,500	31,306.00	32,000.00	*	19.00	24,220.00	*
1913/14	210,000?	14,400	32,194.00	30,745.00	*	19.00	25,580.00	*
1914/15	235,400	11,480	26,241.00	26,000.00	*	20.00	26,585.00	*
1915/16	245,786	10,386	28,977.22	27,550.00	*	22.00	28,106.00	*
1916/17	257,295	11,509	23,549.72	26,610.00	*	22.00	28,786.00	*
1917/18	253,000	7,990	21,600.00	26,775.00	*	22.00	30,790.00	*
1918/19	269,120	11,120	25,158.16	26,800.00	*	23.00	34,360.00	*
1919/20	279,540	10,420	26,661.22	42,100.00	*	27.00	49,380.00	*
1920/21	287,800	8,260	42,702.00	60,300.00	*	27.00	52,080.00	*
1921/22	303,640	15,840	36,388.50	60,230.00	*	29.00	55,030.00	*
1922/23	315,850	12,110	42,713.00	60,500.00	*	29.00	56,599.00	*
1923/24	327,980	12,130	50,630.00	53,160.00	*	30.00	60,695.00	*
1924/25	341,250	13,270	54,095.00	49,770.00	*	31.00	65,115.00	*
1925/26	359,067	17,817	54,236.00	46,725.00	*	34.00	74,093.00	*
1926/27	377,452?	18,385?	61,673.55?	53,700.00?	*	35.00?	79,765.00?	*
1927/28	391,762	14,310	63,118.29	56,585.00	*	37.00	82,945.00	*
1928/29	*	*	*	*	*	*	*	*
1929/30	*	*	*	*	*	*	*	*
1930/31	422,960	15,400	70,860.00	70,500.00	*	39.00	90,415.00	*
1931/32	441,500	18,540	66,797.30	52,700.00	*	36.00	84,517.00	*
1932/33	450,460	11,270	44,052.00	51,480.00	*	35.00	74,114.00	*
1933/34	462,560	12,100	57,358.00	53,700.00	*	35.00	75,035.00	*
1934/35	475,600	13,040	59,630.00	54,800.00	*	36.00	74,987.00	*
1935/36	489,240	13,640	62,263.00	60,890.00	*	35.00	75,165.00	*
1936/37	500,000	12,000	59,671.41	50,000.00	*	25.00	43,617.00	*
1937/38	465,000	14,000	50,152.96	47,250.00	*	28.00	65,281.00	*
1938/39	472,061	14,632	47,583.00	45,075.00	*	27.00	43,108.00	*
1939/40	485,004	12,942	41,174.22	41,000.00	*	30.00	51,726.50	*
1940/41	498,045	13,040	39,196.44	38,000.00	*	31.00	58,745.00	*
1941/42	512,000	13,998	38,124.00	36,500.00	*	33.00	61,774.00	*
1942/43	558,000	13,823	36,500.00	36,500.00	*	45.00	72,000.00	*
1943/44	571,500	13,612	39,261.00	46,500.00	*	44.00	84,530.00	*
1944/45	575,000	13,888	67,233.00	55,000.00	*	40.00	87,646.00	*
1945/46	600,000	15,500	61,250.00	75,000.00	*	40.00	98,230.00	*
1946/47	619,550	19,550	75,997.00	90,000.00	*	46.00	132,070.00	*
1947/48	640,279	27,150	99,406.00	108,000.00	*	57.00	133,960.00	*
1948/49	672,349	32,070	150,719.00	175,000.00	*	59.00	221,640.00	*
1949/50	777,491	39,345	189,957.00	187,750.00	*	82.00	291,062.00	46,431
1950/51	818,761	40,992	240,829.00	202,300.00	*	84.00	287,856.00	52,550
1951/52	863,979	45,218	230,455.00	202,241.00	*	88.00	292,116.00	56,290
1952/53	909,586	45,606	228,106.00	204,650.00	*	106.00	424,621.00	67,312
1953/54	947,896	38,310	210,946.00	209,500.00	*	106.00	433,414.00	66,435
1954/55	997,146	49,250	210,595.00	*	736,204	106.00	438,153.00	87,456
1955/56	1,065,940	66,794	203,321.00	*	721,222	106.00	450,635.00	67,266
1956/57	1,227,335	48,931	252,267.00	*	870,055	126.00	538,803.00	78,985
1957/58	1,276,217	49,456	321,514.00	*	1,009,277	127.00	601,530.00	86,233
1958/59	1,327,425	55,263	329,632.00	*	1,033,273	128.00	616,899.00	86,742
1959/60	1,384,222	58,173	379,159.00	*	1,171,810	130.00	694,444.00	98,207
1960/61	1,455,758	64,674	417,724.00	*	1,256,100	140.00	728,005.00	110,371
1961/62	1,527,432	78,664	544,918.00	*	1,471,035	154.50	789,756.00	136,361

GEROULD DATA FOR YALE

INSTITUTION
NUMBER: 9700

YEAR	VOLUMES		MATERIALS		TOTAL		STAFF	SALARIES	WAGES
	VOLUMES	ADDED	EXPENDITURES	APPROPS.	EXPENDITURES				
1909/10	%	%	%	%			%	%	
1910/11	*	*	*	*	*	*	*	*	*
1911/12	900,000?	45,933	32,542.00	*	*	50.00	36,834.00	*	
1912/13	1,000,000	33,099	27,674.00	*	*	44.00	37,751.00	*	
1913/14	1,000,000	37,546	34,043.00	*	*	45.00	40,671.00	*	
1914/15	1,000,000	84,581	31,888.76	*	*	43.00	40,922.07	*	
1915/16	1,070,000	57,000	44,271.00	45,000.00	*	46.00	47,000.00	*	
1916/17	1,095,000	25,000	37,664.27	38,000.00	*	53.00	49,375.00	*	
1917/18	1,130,000	35,797	35,955.74	24,346.00	*	42.00	49,049.08	*	
1918/19	1,253,830	32,743	46,268.58	41,736.00	*	48.00	49,291.09	*	
1919/20	1,157,000	27,000	29,240.00	36,000.00	*	43.00	63,510.00	*	
1920/21	1,471,028	48,282	62,721.00	56,999.00	*	60.00	88,266.00	*	
1921/22	1,514,717	50,096	70,598.00	56,075.00	*	57.00	89,573.00	*	
1922/23	1,582,102	69,779	66,230.00	83,957.00	*	63.00	94,738.00	*	
1923/24	1,644,516	59,809	85,731.00	70,996.00	*	71.00	107,078.00	*	
1924/25	1,697,322	57,115	86,507.00	79,458.00	*	68.00	117,952.00	*	
1925/26	1,775,077	66,935	112,031.19	82,565.00	*	66.00	124,142.00	*	
1926/27	1,838,099	71,895	116,343.00	105,397.00	*	75.00	137,726.00	*	
1927/28	1,902,512	75,004	134,004.00	118,138.00	*	74.00	145,968.00	*	
1928/29	1,922,157	58,080	135,369.00	136,012.00	*	*	*	*	
1929/30	1,983,341	61,407	165,967.00	158,537.00	*	87.00	181,457.00	*	
1930/31	2,036,405	78,777	183,171.00	159,559.00	*	123.00	240,919.00	*	
1931/32	2,130,600	87,918	185,358.00	144,995.00	*	166.00	291,367.00	*	
1932/33	2,226,332	114,095	168,424.00	132,255.00	*	149.00	296,524.00	*	
1933/34	2,325,540	103,699	171,917.00	142,129.00	*	147.00	291,569.00	*	
1934/35	2,445,682	108,575	154,374.00	137,919.00	*	147.00	294,316.00	*	
1935/36	2,558,179	113,777	144,254.00	139,171.00	*	147.00	280,197.00	*	
1936/37	2,663,063	100,854	162,258.00	144,574.00	*	139.00	276,415.00	*	
1937/38	2,748,918	95,912	165,622.00	148,778.00	*	142.00	285,727.00	*	
1938/39	2,850,349	106,139	167,733.00	153,519.00	*	156.00	299,165.00	*	
1939/40	2,955,539	106,241	183,461.00	155,718.00	*	163.00	317,406.00	*	
1940/41	3,074,817	106,119	179,835.00	151,521.00	*	196.00	330,513.00	*	
1941/42	3,180,934	128,169	169,778.00	117,672.00	*	185.00	320,293.00	*	
1942/43	3,281,739	103,417	175,954.00	124,378.00	*	159.00	295,075.00	*	
1943/44	3,365,475	84,372	202,355.00	130,113.00	*	151.00	289,168.00	*	
1944/45	3,432,363	69,674	188,122.00	169,317.00	*	155.00	302,310.00	*	
1945/46	3,539,596	104,460	213,153.00	160,501.00	*	167.00	340,535.00	*	
1946/47	3,642,730	103,134	483,692.00	353,139.00	*	210.00	408,156.00	*	
1947/48	3,770,813	128,083	243,456.00	301,376.00	*	215.00	469,069.00	*	
1948/49	3,877,819	128,312	255,701.00	292,781.00	*	277.20	515,998.00	*	
1949/50	3,979,942	102,123	762,908.00	263,211.00	*	213.20	551,900.00	*	
1950/51	4,056,276	73,634	366,852.00	270,804.00	*	218.20	573,830.00	*	
1951/52	4,139,659	83,385	303,375.00	303,824.00	*	220.10	588,210.00	*	
1952/53	4,215,841	76,182	447,314.00	326,874.00	*	221.70	634,744.00	*	
1953/54	4,245,583	59,611	423,837.00	325,368.00	*	235.92	636,541.00	*	
1954/55	4,280,473	56,280	407,647.00	*	1,061,116	233.30	653,469.00	*	
1955/56	4,073,946	63,476	480,495.00	*	1,221,877	229.47	741,382.00	*	
1956/57	4,139,047	58,701	497,731.00	*	1,289,916	243.88	750,276.00	41,908	
1957/58	4,215,909	70,556	543,940.00	*	1,404,724	244.50	817,331.00	43,453	
1958/59	4,309,882	83,305	478,663.00	*	1,422,172	254.00	943,509.00	*	
1959/60	4,394,988	85,106	855,591.00	*	1,921,274	274.00	1,065,683.00	*	
1960/61	4,490,420	95,432	993,353.00	*	2,122,151	297.00	1,128,798.00	*	
1961/62	4,572,893	90,015	855,516.00	*	2,078,036	311.00	1,222,520.00	*	

CHAPTER 4

LIBRARY GROWTH FROM 1907/08 TO 1983/84

4.1. Overview

One use of the Gerould data is illustrated in this chapter. These data are joined with those from ARL allowing both series to be used to examine a question of interest to librarians. The major reason for choosing such a question is that there is a literature that gives a context to the results. Academic library growth will be examined here.

4.2. Academic Library Growth

Academic library growth has been studied for over fifty years, which reflects a continuing interest in the subject, and there is an extensive literature. Growth has generally been studied in relation to the largest libraries, so the fact that only the ARL libraries will be examined after joining the two series is not a handicap. For these reasons, library growth will be examined in this chapter.

The next section, 4.2.1., briefly examines the history of the study of library growth and concludes that the question of whether libraries grow exponentially is a question worth addressing here. Section 4.2.2. considers how growth will be measured here, while Section 4.2.3. is made up of plots that depict growth at ARL libraries that are in both series.

A full discussion of growth would involve analyzing the data mathematically, which is beyond the scope of this work. Instead, plots of the data from the 49 institutions reporting data in both the Gerould and ARL series will be used to shed light on the question. In order to understand what these plots show about library growth, it will be helpful to summarize previous treatments of this subject.

4.2.1. History of the Study of Library Growth

The history of the study of academic library growth is treated in detail elsewhere (Molyneux, 1986a). The discussion here summarizes the main points of this history. The main conclusion of the literature on growth is that libraries grow exponentially, that is, the number of volumes added each year are in an exponential series. This conclusion was apparently first stated by C.N. Haskins (Gerould, 1932), although Fremont Rider is generally credited with finding that exponential growth is a characteristic of academic libraries in The Scholar and the Future of the Research Library (Rider, 1944). Rider can, however, legitimately be credited with realizing the implications of exponential growth and

his language was apocalyptic. If Yale's library continued to grow at the same rate at which it had grown in the past, in 2040, it would have:

...approximately 200,000,000 volumes, which will occupy over 6,000 miles of shelves. Its card catalog file--if it then has a card catalog--will consist of nearly three-quarters of a million catalog drawers, which will of themselves occupy not less than eight acres of floor space. New material will be coming in to it at the rate of 12,000,000 volumes a year; and the cataloging of this new material will require a cataloging staff of over six thousand persons. (p. 12)

Rider was not circumspect in his conclusions. He observed that the exponential pattern of library growth is constant:

Research library growth has continued, without any significant change of rate, either upward or downward, for over thirty decades, and a rate so uniform over so many years, and so uniform in so many different libraries, that it might almost seem as though some natural law were at work. (pp. 15-16)

It is not hard to understand that such language caught the attention of university administrators and it may be that a part of the pressure for off-campus storage facilities, microforms, and the like comes from Rider's oft-quoted statement about growth at Yale. But what is exponential growth?

Exponential growth is growth that occurs at a constant percent or "uniform rate," to paraphrase Rider. (The term "exponential" comes from the fact that a common mathematical expression of this kind of number series uses a constant exponent.) Returns on investments in a savings account, if the dividends are reinvested in the account, are a good example of exponential growth. As a result of the constant percent increase, or rate, of growth in a savings account, the number of dollars paid in interest increases over time. The process by which this happens is called "compounding" in financial analysis. In the context of library growth, a constant percent increase, or rate, would imply that an increasing number of volumes would be added each year.

The method most often used in the literature to examine library growth analyzes data from two widely separate years. However, this method cannot be used to test if growth is exponential because it cannot distinguish between any of the innumerable series of numbers that can exist between two years. In order to avoid this problem, annual data should be used in studying growth. Joining the Gerould and ARL series provides an opportunity to examine library growth over an extended period using annual data.

4.2.2. Measuring Library Growth

Growth has been studied using annual data as discussed by Molyneux (1986a). A few of these studies will be discussed here with the intent of understanding what has been learned recently about growth.

Molyneux (1984) uses regressions, a mathematical tool that can be used to investigate the relationship between numbers over time, to show that volumes added each year declined at ARL libraries from 1972/73 through 1981/82. In this study, volumes added and growth as a percent are also plotted over the period. Molyneux (1986b) examines ARL libraries

from 1962/63 through 1983/84, using plots of the mean number of volumes added at groups of these libraries, and finds that volumes added increased each year through the late 1960's or early 1970's but declined annually through 1981/82, after which volumes added appeared to be beginning a new series of annual increases. Though the experiences of the ARL libraries vary depending on their size, this study served to corroborate the earlier study that growth did not appear to be exponential during the 1970's and early 1980's at ARL libraries. A tentative conclusion is that inflation was involved in the annual decrease in volumes added in the late 1970's.

Volumes added over a number of years can be estimated by calculating changes in volumes held. This means of estimating volumes added has been examined to see if it could be used in describing growth from one year to the next. For the ARL data from 1972/73--1981/82, it was concluded that estimating volumes added using volumes held did not produce a satisfactory statistic for use in measuring annual levels of volumes added. It was further concluded that direct measures of volumes added, such as the two variables volumes added gross and volumes added net, provided better statistics to describe growth (Molyneux, 1984, pp. 105-125). Year to year changes in volumes held were also calculated using the 12 libraries for the combined Gerould and ARL series and the results of this calculation corroborated the earlier findings that this statistic is not useful in examining growth at large academic libraries.

We can use the Gerould and ARL series to look at volumes added at the same 12 libraries used to examine the Gerould data. As was noted in Chapter 3, the Gerould variable reporting volumes added is equivalent to the ARL variable volumes added gross. The average number of volumes added, using the Gerould variable volumes added and the ARL variable volumes added gross for the 12 libraries is listed on the following page and plotted in Figure 4-1, opposite.

The plot uses a horizontal axis of years from 1907/08 through 1983/84, the range of both sets of data. The vertical axis measures volumes added and has been chosen to give the greatest detail. The Gerould years have already been plotted in Figure 3-1, although with different axes. The values plotted are the same, but the newer figures from ARL alter the context of the Gerould values because there are more years of data and the number of volumes added in the following years was larger than in the Gerould years.

It was noted in Section 3.1., when the group of twelve libraries used in the plots was discussed, that grouping allows trends to be seen in spite of fluctuations in the data. It is a characteristic of library data that they fluctuate from year to year. If we want to examine growth, or almost any other subject, it is useful to see the trends and limit the effect of fluctuations. Grouping limits these effects, or "damps" them, by causing a the effect of one unusual value to be averaged with the values from other libraries. Averaging reduces the fluctuations because the effect of one unusual value is cancelled out by the values from the other members of the group.

In spite of the damping effect of grouping, Figure 4-1 shows that volumes added (or gross volumes added from 1962/62 through 1983/84) fluctuate from year to year but increased on the average through the early 1970's when they fell before beginning to rise in the early 1980's. As mentioned above, it has been speculated that the fall in volumes added in the 1970's was a result of the effects of inflation on these libraries and the rise in the early 1980's was a result of the dramatic decline in the rate of inflation.

The data plotted opposite are:

Year	Mean Volumes Added	Year	Mean Volumes Added
1907/08	8,689	1946/47	31,168
1908/09	*	1947/48	46,369
1909/10	10,976	1948/49	37,839
1910/11	*	1949/50	37,199
1911/12	12,245	1950/51	42,677
1912/13	11,420	1951/52	42,262
1913/14	13,771	1952/53	46,191
1914/15	14,090	1953/54	52,215
1915/16	13,831	1954/55	51,159
1916/17	13,276	1955/56	52,948
1917/18	11,670	1956/57	54,343
1918/19	11,780	1957/58	57,517
1919/20	11,614	1958/59	56,700
1920/21	13,144	1959/60	61,988
1921/22	16,747	1960/61	66,465
1922/23	15,357	1961/62	76,068
1923/24	15,508	1962/63	80,467
1924/25	17,518	1963/64	87,767
1925/26	17,398	1964/65	93,396
1926/27	18,638	1965/66	104,058
1927/28	22,104	1966/67	115,939
1928/29	19,915	1967/68	127,234
1929/30	22,604	1968/69	131,991
1930/31	21,941	1969/70	139,682
1931/32	22,414	1970/71	143,373
1932/33	19,748	1971/72	126,714
1933/34	18,475	1972/73	123,208
1934/35	18,915	1973/74	119,247
1935/36	21,660	1974/75	122,519
1936/37	24,379	1975/76	117,328
1937/38	27,014	1976/77	123,369
1938/39	25,400	1977/78	122,371
1939/40	25,988	1978/79	123,708
1940/41	28,445	1979/80	116,935
1941/42	28,319	1980/81	110,531
1942/43	24,588	1981/82	111,037
1943/44	25,066	1982/83	118,941
1944/45	24,551	1983/84	122,878
1945/46	33,841		

FIGURE 4-1

**AVERAGE VOLUMES ADDED
AT 12 UNIVERSITY LIBRARIES
BY YEAR, 1907/08-1983/84**

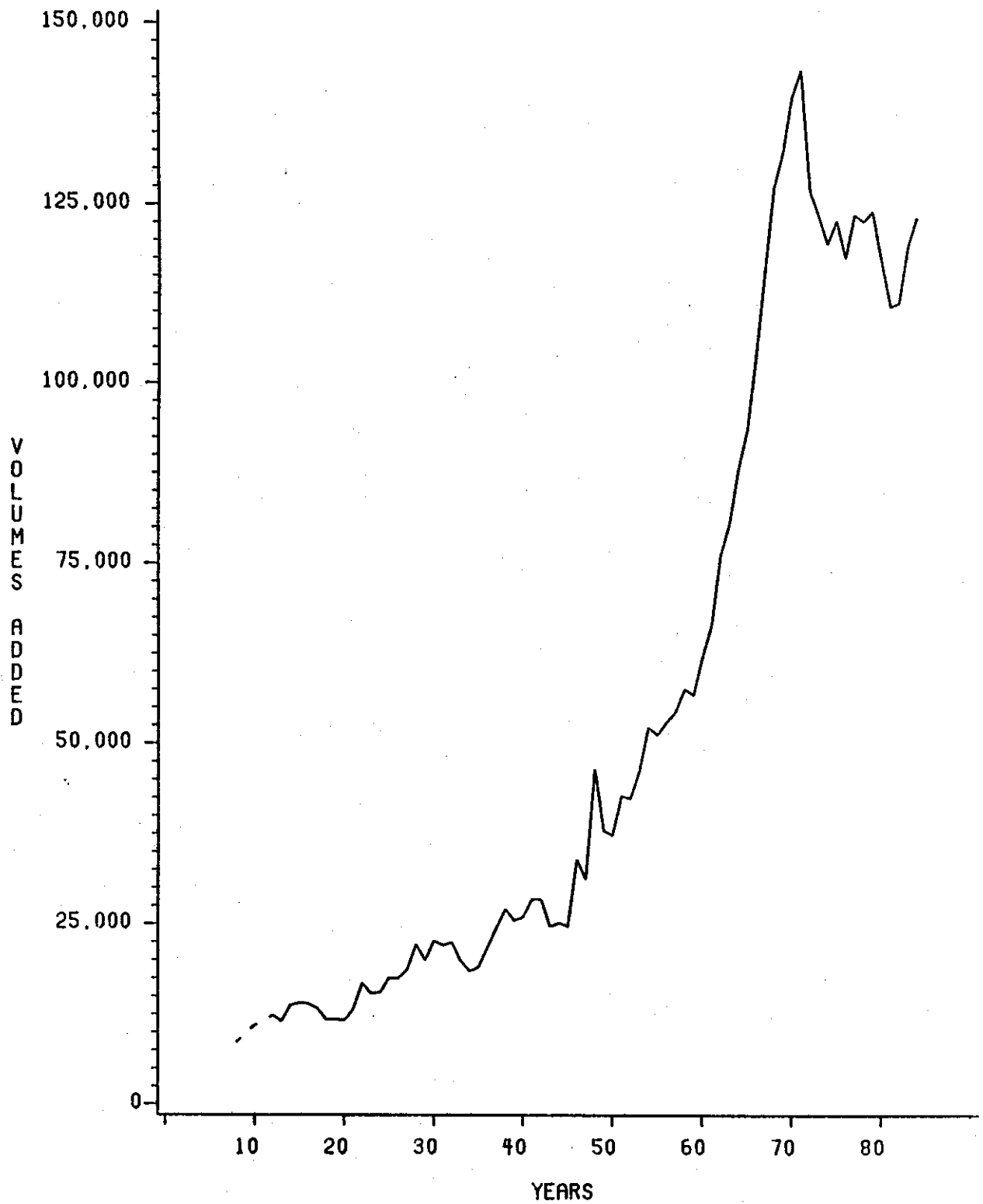


Figure 4-1 depicts the behavior of the mean volumes added at a group of 12 libraries. In general, this plot corroborates recent findings discussed in Section 4.2.2. that there is reason to doubt the exponential hypothesis. The decline in volumes added seen in the early 1970's through the early 1980's cannot be exponential.

Is the growth shown in the numbers of volumes added in Figure 4-1 exponential? There are two considerations that have to be addressed to answer this question: are the numbers in an exponential series or pattern and is the process of growth an exponential one?

The second question has been ignored in the literature until recently (Molyneux, 1986a). If the numbers which represent growth were in an exponential pattern we would still have to consider whether the process of library growth is exponential or whether the increase observed is a result of other processes such as increases in the wealth of the economy as a whole. Of course, library growth is not an exponential process--after all, books do not compound as money in a savings account does.

There is, nonetheless, the belief that the numbers which represent growth are in an exponential series.

If volumes added do not increase each year, growth cannot be exponential because no process that resembles compounding--at least as far as the behavior of the numbers is concerned--could have taken place. The decline in mean volumes added in the 1970's, therefore, cannot be exponential. However, the growth shown over the rest of the period may or may not be exponential. While an increasing number of volumes added is necessary for exponential growth, other kinds of number series may increase more rapidly (or more slowly) than an exponential series and still result in an increasing number of volumes being added each year. In order to examine these data to see whether growth is exponential, a percent of growth, which can be calculated from the numbers of volumes added and the number of volumes held, is used here. In examining these plots, therefore, the thing to look for is whether the percent of growth is constant. This test is not conclusive because a mathematical treatment is needed, but the plots that follow strongly suggest that the numbers that represent academic library growth are not in an exponential series.

A mean percent growth at the group of 12 libraries is plotted in Figure 4-2. The horizontal axis is the same as in Figure 4-1, that is, from 1907/08 to 1983/84, although the vertical axis is in percents. The rate of growth is calculated by dividing the number of volumes added in a given year by the number of volumes held in the year before. The rationale for this formula is that the number of volumes added in a given year's figures were added to the number of volumes held the year before.

The table of growth measured by percent of increase and Figure 4-2 appear on pages 110-111. Page 109 has been left blank in order to have Figure 4-2 opposite the data plotted.

(BLANK)

The following values are plotted in the figure opposite. Note that a percent of growth cannot be calculated for years with no data from the previous year. There are no data for 1906/07, so there is no way to calculate a percent for 1907/08 because there are no volumes held in 1906/07. There are also no figures for 1908/09 and 1910/11 so the first year growth as a percent can be calculated is 1912/13.

Year	Mean % Growth	Year	Mean % Growth
1907/08	*	1946/47	3.6%
1908/09	*	1947/48	4.8
1909/10	*	1948/49	4.0
1910/11	*	1949/50	4.0
1911/12	*	1950/51	4.3
1912/13	7.5%	1951/52	4.1
1913/14	9.1	1952/53	4.6
1914/15	8.2	1953/54	4.6
1915/16	7.5	1954/55	4.1
1916/17	6.7	1955/56	4.4
1917/18	5.5	1956/57	4.1
1918/19	5.4	1957/58	4.4
1919/20	4.9	1958/59	4.2
1920/21	5.6	1959/60	4.3
1921/22	6.1	1960/61	4.3
1922/23	5.5	1961/62	4.7
1923/24	5.5	1962/63	4.8
1924/25	6.1	1963/64	5.0
1925/26	5.5	1964/65	5.0
1926/27	5.6	1965/66	5.4
1927/28	5.7	1966/67	5.6
1928/29	4.9	1967/68	6.2
1929/30	5.8	1968/69	6.2
1930/31	5.4	1969/70	6.1
1931/32	4.9	1970/71	5.9
1932/33	3.9	1971/72	5.0
1933/34	3.8	1972/73	4.6
1934/35	3.9	1973/74	4.2
1935/36	4.0	1974/75	4.2
1936/37	4.2	1975/76	3.9
1937/38	4.3	1976/77	4.2
1938/39	4.2	1977/78	3.8
1939/40	4.1	1978/79	3.7
1940/41	4.5	1979/80	3.3
1941/42	4.2	1980/81	3.1
1942/43	3.5	1981/82	3.0
1943/44	3.2	1982/83	3.1
1944/45	3.3	1983/84	3.1
1945/46	4.0		

FIGURE 4-2

AVERAGE GROWTH, AS A PERCENT
AT 12 UNIVERSITY LIBRARIES
BY YEAR, 1907/08-1983/84

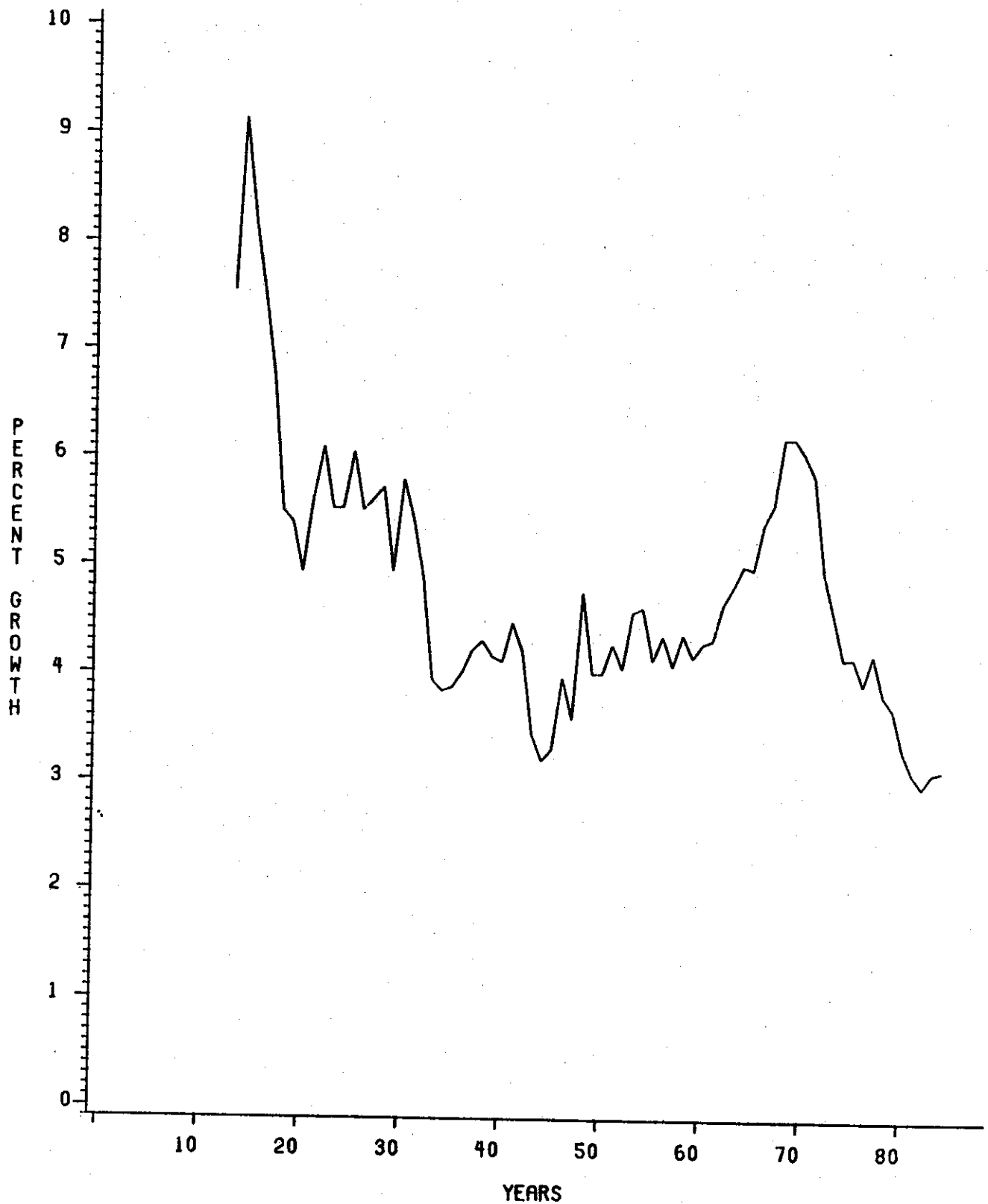


Figure 4-2 presents a more complex picture of the character of library growth than could be expected from the literature. For these 12 libraries, the mean rate of growth does not appear to be constant and, therefore, is not exponential. The percents plotted here increase and decrease from time to time over the period of the data. One problem with the exponential hypothesis is that it implies a constant process of growth in spite of economic and political factors. If growth were exponential, it would occur at a constant rate, yet a few changes in the trends in this Figure can apparently be related to economic and political events. There is a decline in growth in the early 1930's, probably a result of the Depression, and in the 1970's, probably reflecting the effects of inflation. The increase from the late 1950's through the late 1960's probably reflects increases in funding to education following the launch of Sputnik in 1957. More research is needed to decide the relationship of these kinds of events to the changes in library growth, but the notion that library growth involves constant processes, "on the order of a natural law", to use Rider's words, contradicts the evidence presented here as well as experience.

Observing growth at the group of twelve libraries obscures the character of growth at any one of the libraries. It is possible that growth is not exponential at eleven of them but is exponential at a twelfth. We should, therefore, examine all libraries in the Gerould data that are members of ARL.

4.2.3. Plots of Growth

Plots which show the percent of growth calculated by dividing the volumes added by the number of volumes held in the previous year begin on page 114. If we examined raw volumes added by institution we would see a general upward trend without being sure if this pattern of numbers was exponential or not. By looking at percent of increase to see if it does not change, we examine the heart of the question. If percent of growth is constant, the numbers which represent growth are in an exponential series; if percent of growth is not constant, the numbers are not in an exponential series and growth is not exponential.

In the plots of growth at the 47 institutions reporting data in the Gerould and ARL series, not one appears to show a constant percent increase from year to year, nor does any one of the eleven libraries in the Gerould data not included here, although a mathematical treatment of these data would be necessary to disprove the exponential hypothesis. Based on the 47 plots included here, it appears that library growth is not exponential. Reconciling this finding with others in the literature is a matter for further study, as is fashioning a more accurate understanding of the processes of library growth.

The plots of individual library data make up the rest of this chapter. Each one has the same horizontal and vertical axes in order to make comparisons between institutions easier. The horizontal axis measures years from 1907/08 to 1983/84 and the vertical axis measures percents from 0% to 30%. Note, however, that the distance from 15% to 30% is not at the same scale as the distance from 0% to 15%. In a few cases, there are extremely high percents particularly in the early years--for example, at Duke. In order to keep the axes on all plots identical, the presentation of the data clear, and to avoid discarding any of the data, it was decided to compress the higher values into a relatively small scale.

One reason for using 12 libraries in the earlier plots is to damp fluctuations in the data. These fluctuations obscure our ability to see trends, which can be thought of as major

movements in the direction of library variables, by cluttering these data with many small changes in direction. The small changes can occur for any number of reasons but the large changes presumably reflect major changes in the behavior of the libraries we are examining. Fluctuations that occurred because of changes in one or two libraries are not visible, while changes that occur at many of them are. In effect, large changes have to occur at a number of institutions before we can see them. In the following plots, there is one institution per plot and there are fluctuations in the data. In order to clarify the trends in the data, another means of damping fluctuations is used.

The raw percentage increases are plotted with solid lines but in many cases these percentages show erratic changes from year to year. In order to damp these fluctuations a three-year moving average of annual percent increases is superimposed on the annual percents with a broken line. In many cases, this broken line will make the underlying trend easier to see.

Moving averages are a way of grouping the data from one institution, but the grouping is done by years instead by institutions as used earlier. Moving averages are used in the plotting the behavior of the prices of stocks on the various stock exchanges. A given stock may rise in price over a year but fall in price from day to day. The problem faced in following stock prices is similar to the one faced here: to see the trend in spite of fluctuations in the data. A moving average is calculated here by adding a year's percent increase with the percent increases from previous years. Each year, the new percent is added to the formula and the oldest one dropped.

The plots are accompanied by data tables that list the number of volumes held, the volumes added, the percent growth (calculated by dividing the volumes added by the previous year's volumes held), and the three year moving average (calculated by averaging any given year's percent growth with the two previous years' percents).

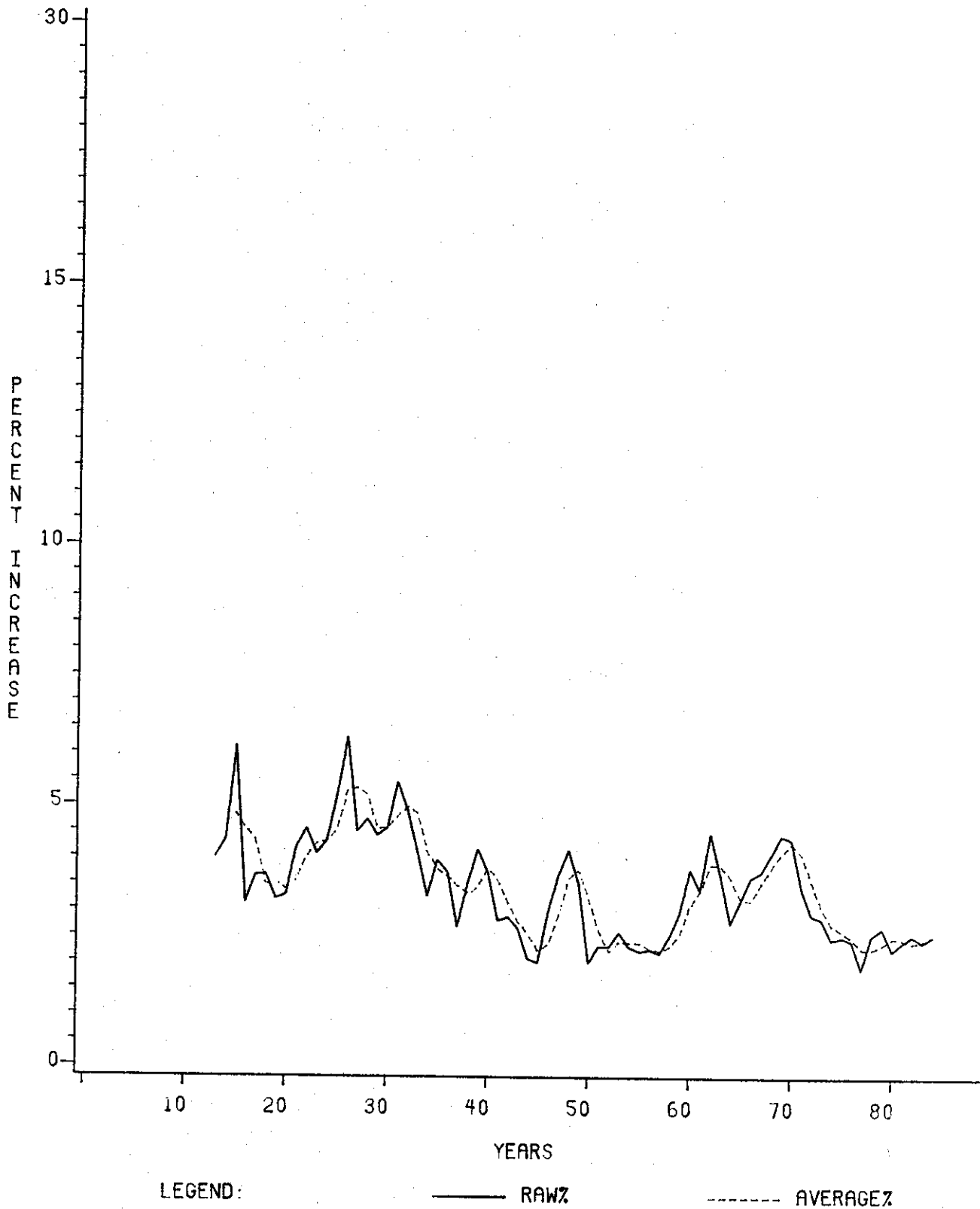
GROWTH AT BROWN

INSTITUTION
NUMBER: 800

YEAR	VOLUMES	VOLUMES ADDED	%	AVE. %	YEAR	VOLUMES	VOLUMES ADDED	%	AVE. %
1911/12	215,000	14,060	*	*	1956/57	862,674	18,291	2.2	2.2
1912/13	232,000	8,600	4.0	*	1957/58	884,247	21,584	2.5	2.3
1913/14	245,000	10,026	4.3	*	1958/59	906,415	25,993	2.9	2.5
1914/15	215,000	15,000	6.1	4.8	1959/60	1,025,479	34,248	3.8	3.1
1915/16	222,000	6,706	3.1	4.5	1960/61	1,059,343	34,665	3.4	3.4
1916/17	252,000	8,104	3.7	4.3	1961/62	1,170,755	47,410	4.5	3.9
1917/18	245,000	9,235	3.7	3.5	1962/63	1,211,378	42,840	3.7	3.8
1918/19	253,000	7,829	3.2	3.5	1963/64	1,077,422	33,391	2.8	3.6
1919/20	258,300	8,299	3.3	3.4	1964/65	1,111,240	34,197	3.2	3.2
1920/21	269,150	10,840	4.2	3.6	1965/66	1,150,148	40,310	3.6	3.2
1921/22	281,375	12,225	4.5	4.0	1966/67	1,191,543	43,048	3.7	3.5
1922/23	292,827	11,452	4.1	4.3	1967/68	1,239,899	48,541	4.1	3.8
1923/24	305,427	12,600	4.3	4.3	1968/69	1,292,194	54,890	4.4	4.1
1924/25	316,211	15,860	5.2	4.5	1969/70	1,346,349	56,240	4.4	4.3
1925/26	336,117	19,906	6.3	5.3	1970/71	1,390,186	45,892	3.4	4.1
1926/27	351,202	15,085	4.5	5.3	1971/72	1,428,298	40,409	2.9	3.6
1927/28	367,794	16,592	4.7	5.2	1972/73	1,466,578	40,417	2.8	3.0
1928/29	384,783	16,224	4.4	4.5	1973/74	1,501,050	35,828	2.4	2.7
1929/30	395,930	17,513	4.6	4.6	1974/75	1,536,493	37,510	2.5	2.6
1930/31	418,576	21,485	5.4	4.8	1975/76	1,570,576	37,088	2.4	2.5
1931/32	430,683	20,485	4.9	5.0	1976/77	1,557,648	29,348	1.9	2.3
1932/33	448,348	17,665	4.1	4.8	1977/78	1,595,341	39,467	2.5	2.3
1933/34	462,922	14,574	3.3	4.1	1978/79	1,636,206	42,632	2.7	2.4
1934/35	481,150	18,228	3.9	3.8	1979/80	1,671,414	36,691	2.2	2.5
1935/36	499,027	17,877	3.7	3.6	1980/81	1,709,261	40,115	2.4	2.4
1936/37	512,359	13,332	2.7	3.4	1981/82	1,804,982	43,265	2.5	2.4
1937/38	535,950	17,931	3.5	3.3	1982/83	1,847,736	43,367	2.4	2.4
1938/39	558,291	22,256	4.2	3.4	1983/84	1,919,415	46,655	2.5	2.5
1939/40	577,027	20,683	3.7	3.8					
1940/41	592,566	16,098	2.8	3.5					
1941/42	611,258	16,958	2.9	3.1					
1942/43	622,716	16,094	2.6	2.8					
1943/44	635,483	12,767	2.1	2.5					
1944/45	648,469	12,583	2.0	2.2					
1945/46	743,176	19,288	3.0	2.3					
1946/47	770,431	27,255	3.7	2.9					
1947/48	802,311	31,880	4.1	3.6					
1948/49	830,405	28,094	3.5	3.8					
1949/50	735,871	16,503	2.0	3.2					
1950/51	752,885	17,014	2.3	2.6					
1951/52	770,105	17,220	2.3	2.2					
1952/53	789,846	19,741	2.6	2.4					
1953/54	807,902	18,056	2.3	2.4					
1954/55	825,797	17,895	2.2	2.4					
1955/56	844,383	18,586	2.3	2.3					

INCREASE IN VOLUMES AT BROWN

AS A PERCENT
1907/08-1983/84



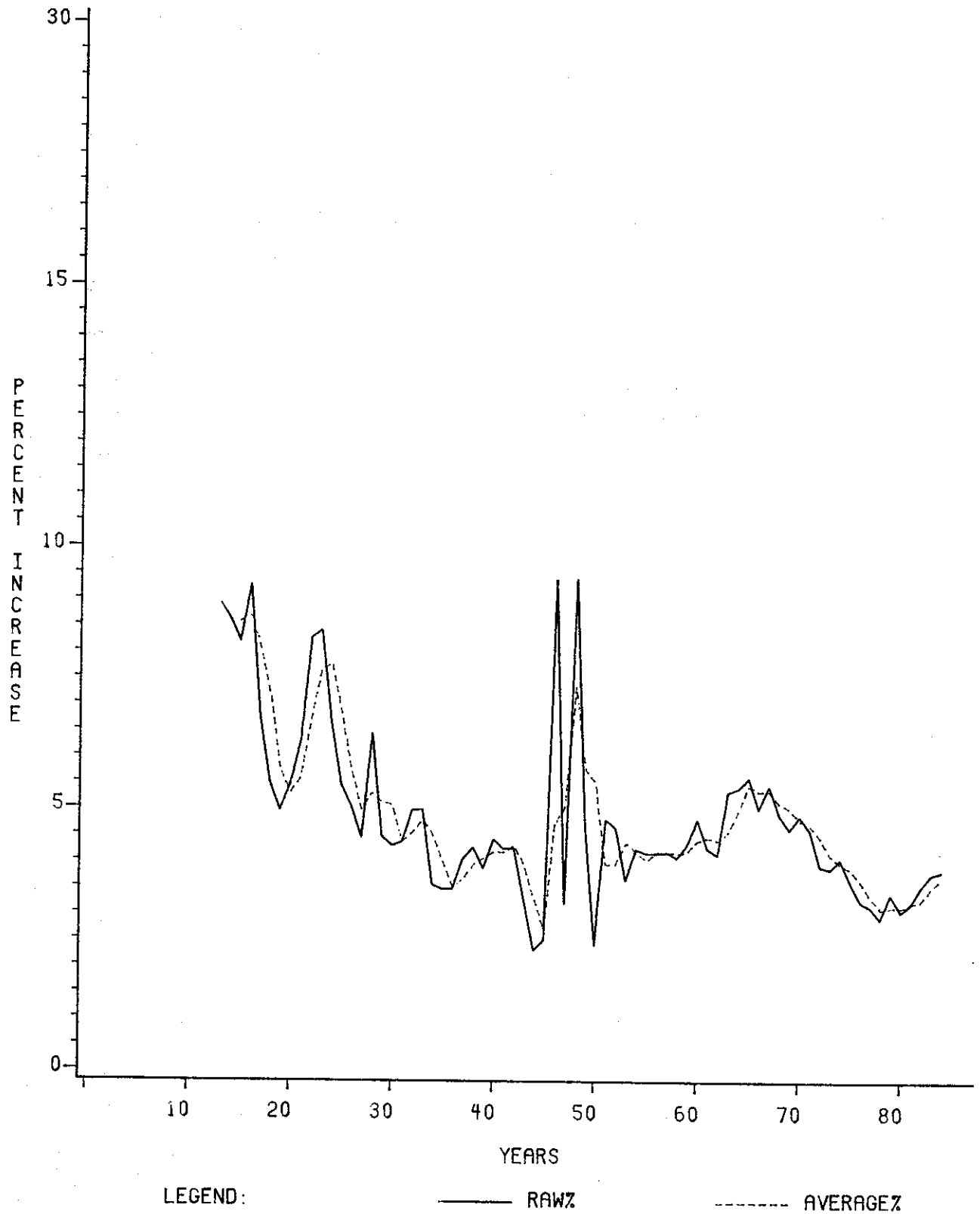
GROWTH AT CALIFORNIA, BERKELEY

INSTITUTION
NUMBER: 900

YEAR	VOLUMES			AVE.		YEAR	VOLUMES			AVE.	
	VOLUMES	ADDED	%	%	%		VOLUMES	ADDED	%	%	%
1907/08	173,000	11,902	*	*	*	1952/53	1,878,389	65,703	3.6	4.3	
1908/09	*	*	*	*	*	1953/54	1,986,818	79,276	4.2	4.2	
1909/10	198,231	16,497	*	*	*	1954/55	2,063,082	82,335	4.1	4.0	
1910/11	*	*	*	*	*	1955/56	2,142,801	85,299	4.1	4.2	
1911/12	238,506	26,161	*	*	*	1956/57	2,226,359	89,334	4.2	4.1	
1912/13	259,737	21,231	8.9	*	*	1957/58	2,305,121	90,231	4.1	4.1	
1913/14	282,072	22,325	8.6	*	*	1958/59	2,397,117	99,267	4.3	4.2	
1914/15	304,662	23,038	8.2	8.6		1959/60	2,503,060	114,989	4.8	4.4	
1915/16	332,884	28,218	9.3	8.7		1960/61	2,596,526	106,022	4.2	4.4	
1916/17	355,192	22,308	6.7	8.0		1961/62	2,701,186	106,710	4.1	4.4	
1917/18	374,269	19,374	5.5	7.1		1962/63	2,829,330	143,864	5.3	4.6	
1918/19	392,682	18,527	5.0	5.7		1963/64	2,965,087	152,288	5.4	4.9	
1919/20	413,824	21,399	5.4	5.3		1964/65	3,113,024	165,594	5.6	5.4	
1920/21	413,824	25,984	6.3	5.6		1965/66	3,179,633	155,175	5.0	5.3	
1921/22	472,687	34,140	8.2	6.7		1966/67	3,328,018	172,814	5.4	5.3	
1922/23	511,259	39,666	8.4	7.6		1967/68	3,478,893	162,167	4.9	5.1	
1923/24	544,449	33,721	6.6	7.7		1968/69	3,634,819	159,950	4.6	5.0	
1924/25	570,544	29,475	5.4	6.8		1969/70	3,845,050	176,688	4.9	4.8	
1925/26	638,993	28,624	5.0	5.7		1970/71	4,009,595	176,308	4.6	4.7	
1926/27	665,680	28,278	4.4	5.0		1971/72	4,153,936	156,379	3.9	4.4	
1927/28	706,635	42,674	6.4	5.3		1972/73	4,318,214	159,855	3.8	4.1	
1928/29	735,718	31,388	4.4	5.1		1973/74	4,505,201	174,820	4.0	3.9	
1929/30	756,505	31,424	4.3	5.0		1974/75	4,649,533	162,485	3.6	3.8	
1930/31	773,354	32,956	4.4	4.4		1975/76	4,785,595	150,529	3.2	3.6	
1931/32	802,817	38,297	5.0	4.5		1976/77	4,917,330	149,277	3.1	3.3	
1932/33	839,813	39,911	5.0	4.8		1977/78	5,035,753	142,783	2.9	3.1	
1933/34	869,475	29,662	3.5	4.5		1978/79	5,597,154	169,857	3.4	3.1	
1934/35	896,502	29,939	3.4	4.0		1979/80	5,753,731	169,922	3.0	3.1	
1935/36	944,589	31,047	3.5	3.5		1980/81	5,927,773	184,540	3.2	3.2	
1936/37	981,471	38,072	4.0	3.6		1981/82	6,117,424	209,264	3.5	3.3	
1937/38	1,002,764	41,772	4.3	3.9		1982/83	6,336,301	230,171	3.8	3.5	
1938/39	1,039,447	38,567	3.8	4.0		1983/84	6,504,230	241,688	3.8	3.7	
1939/40	1,081,151	45,738	4.4	4.2							
1940/41	1,124,858	45,616	4.2	4.2							
1941/42	1,170,738	47,648	4.2	4.3							
1942/43	1,207,784	38,039	3.2	3.9							
1943/44	1,229,916	27,623	2.3	3.3							
1944/45	1,260,504	30,598	2.5	2.7							
1945/46	1,378,602	118,098	9.4	4.7							
1946/47	1,422,494	43,892	3.2	5.0							
1947/48	1,554,282	133,576	9.4	7.3							
1948/49	1,626,146	71,864	4.6	5.7							
1949/50	1,665,063	38,917	2.4	5.5							
1950/51	1,744,784	79,721	4.8	3.9							
1951/52	1,812,686	80,599	4.6	3.9							

INCREASE IN VOLUMES AT BERKELEY

AS A PERCENT
1907/08-1983/84



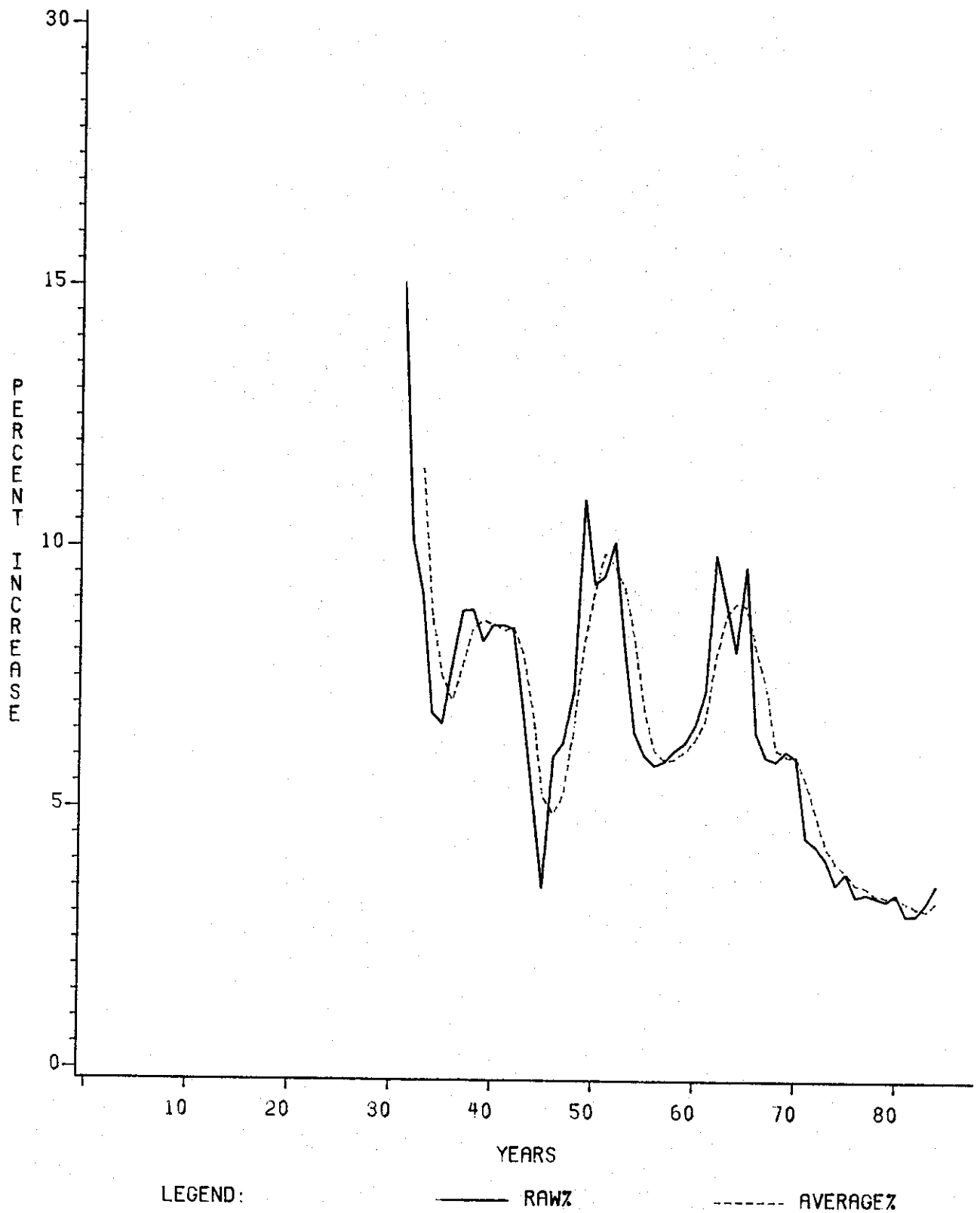
GROWTH AT CALIFORNIA, LOS ANGELES

INSTITUTION
NUMBER: 1100

YEAR	VOLUMES			AVE.		YEAR	VOLUMES			AVE.	
	VOLUMES	ADDED	%	%			VOLUMES	ADDED	%	%	
1929/30	153,855	17,220	*	*		1974/75	3,519,424	128,287	3.8	3.8	
1930/31	173,600	23,433	15.2	*		1975/76	3,632,831	117,318	3.3	3.6	
1931/32	191,250	17,602	10.1	*		1976/77	3,908,053	122,893	3.4	3.5	
1932/33	206,800	17,450	9.1	11.5		1977/78	3,993,223	129,673	3.3	3.3	
1933/34	217,991	14,090	6.8	8.7		1978/79	4,109,146	129,752	3.2	3.3	
1934/35	232,401	14,410	6.6	7.5		1979/80	4,234,835	139,006	3.4	3.3	
1935/36	250,401	18,000	7.7	7.1		1980/81	4,346,526	126,073	3.0	3.2	
1936/37	272,401	22,000	8.8	7.7		1981/82	4,882,164	129,933	3.0	3.1	
1937/38	296,401	24,000	8.8	8.4		1982/83	5,744,144	157,008	3.2	3.1	
1938/39	320,701	24,300	8.2	8.6		1983/84	5,172,607	204,726	3.6	3.3	
1939/40	355,965	27,300	8.5	8.5							
1940/41	385,884	30,300	8.5	8.4							
1941/42	416,346	32,512	8.4	8.5							
1942/43	474,175	28,683	6.9	7.9							
1943/44	469,486	24,589	5.2	6.8							
1944/45	478,722	16,395	3.5	5.2							
1945/46	543,281	28,699	6.0	4.9							
1946/47	581,842	34,008	6.3	5.2							
1947/48	623,906	42,064	7.2	6.5							
1948/49	697,892	68,186	10.9	8.1							
1949/50	762,366	64,920	9.3	9.2							
1950/51	790,012	72,139	9.5	9.9							
1951/52	913,644	79,857	10.1	9.6							
1952/53	987,878	73,876	8.1	9.2							
1953/54	1,051,677	63,799	6.5	8.2							
1954/55	1,114,876	63,199	6.0	6.9							
1955/56	1,159,728	64,998	5.8	6.1							
1956/57	1,229,572	68,612	5.9	5.9							
1957/58	1,301,075	75,265	6.1	6.0							
1958/59	1,375,262	81,410	6.3	6.1							
1959/60	1,464,308	90,706	6.6	6.3							
1960/61	1,568,565	105,995	7.2	6.7							
1961/62	1,719,359	154,801	9.9	7.9							
1962/63	1,866,651	154,104	9.0	8.7							
1963/64	2,006,819	149,687	8.0	9.0							
1964/65	2,197,175	193,576	9.6	8.9							
1965/66	2,333,442	142,002	6.5	8.0							
1966/67	2,469,810	139,584	6.0	7.4							
1967/68	2,636,149	146,213	5.9	6.1							
1968/69	2,793,280	161,052	6.1	6.0							
1969/70	2,916,551	166,990	6.0	6.0							
1970/71	3,038,828	129,555	4.4	5.5							
1971/72	3,164,328	130,618	4.3	4.9							
1972/73	3,283,959	127,822	4.0	4.3							
1973/74	3,395,178	116,542	3.5	4.0							

INCREASE IN VOLUMES AT UCLA

AS A PERCENT
1907/08-1983/84



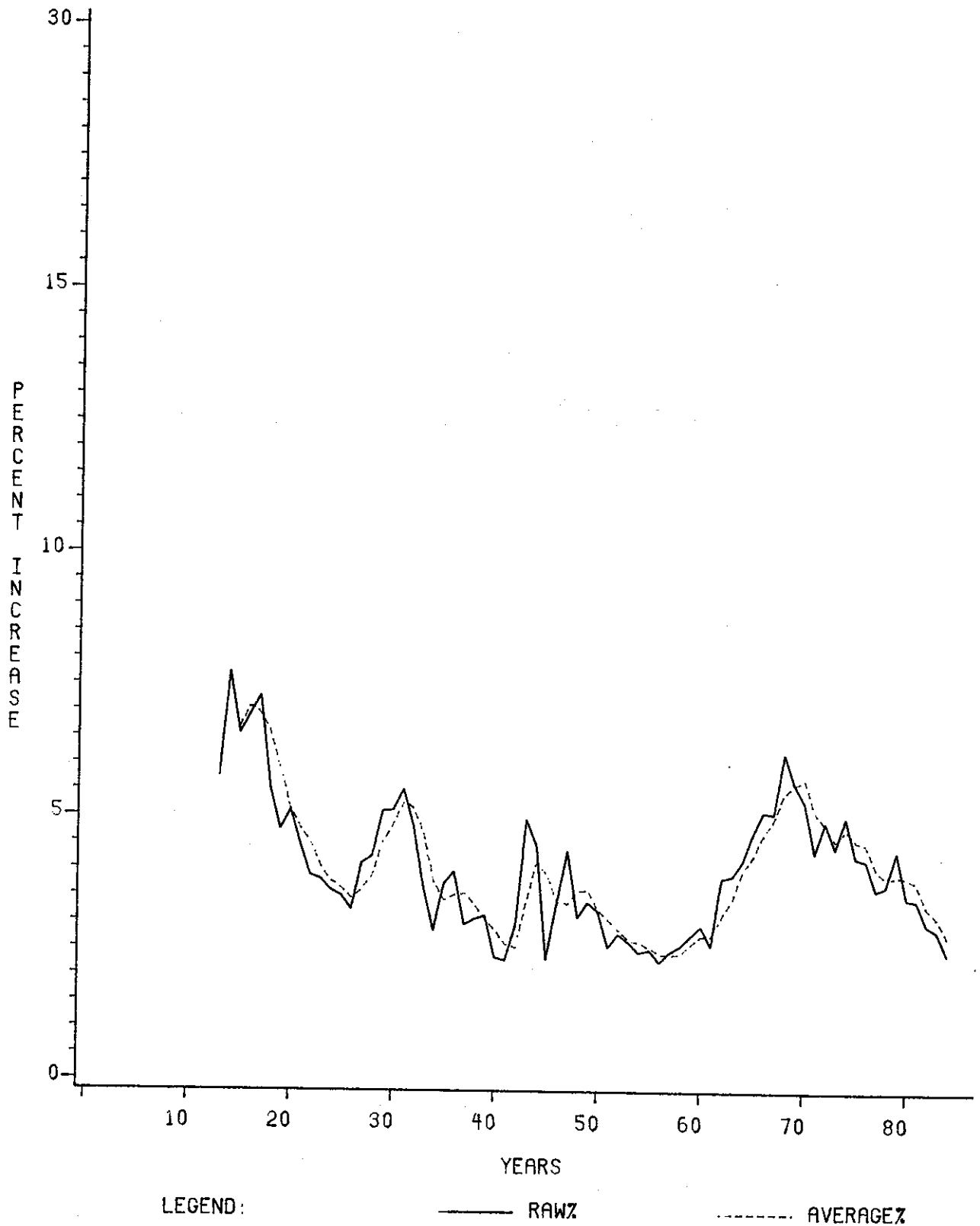
GROWTH AT CHICAGO

INSTITUTION
NUMBER: 1600

YEAR	VOLUMES	VOLUMES ADDED	%	AVE. %	YEAR	VOLUMES	VOLUMES ADDED	%	AVE. %
1911/12	381,351	27,689	*	*	1956/57	1,952,374	47,017	2.4	2.4
1912/13	402,503	21,936	5.8	*	1957/58	1,988,700	49,829	2.6	2.4
1913/14	431,544	31,087	7.7	*	1958/59	2,044,335	54,741	2.8	2.6
1914/15	458,616	28,280	6.6	6.7	1959/60	2,094,824	60,040	2.9	2.7
1915/16	485,847	31,723	6.9	7.1	1960/61	2,142,223	53,393	2.5	2.7
1916/17	517,936	35,310	7.3	6.9	1961/62	2,210,062	82,284	3.8	3.1
1917/18	545,890	28,461	5.5	6.6	1962/63	2,271,450	85,913	3.9	3.4
1918/19	570,849	25,866	4.7	5.8	1963/64	2,333,913	94,763	4.2	4.0
1919/20	599,492	29,081	5.1	5.1	1964/65	2,406,142	109,390	4.7	4.2
1920/21	623,423	26,583	4.4	4.8	1965/66	2,504,250	122,560	5.1	4.7
1921/22	646,798	24,110	3.9	4.5	1966/67	2,606,431	126,513	5.1	4.9
1922/23	670,749	24,564	3.8	4.0	1967/68	2,712,785	161,807	6.2	5.5
1923/24	694,000	24,024	3.6	3.7	1968/69	2,853,671	152,778	5.6	5.6
1924/25	717,153	24,201	3.5	3.6	1969/70	2,977,647	150,517	5.3	5.7
1925/26	739,213	23,105	3.2	3.4	1970/71	3,077,270	128,822	4.3	5.1
1926/27	768,559	30,352	4.1	3.6	1971/72	3,212,296	151,165	4.9	4.8
1927/28	799,593	32,593	4.2	3.9	1972/73	3,334,152	141,232	4.4	4.5
1928/29	871,276	40,803	5.1	4.5	1973/74	3,485,140	166,813	5.0	4.8
1929/30	915,837	44,561	5.1	4.8	1974/75	3,622,285	147,594	4.2	4.5
1930/31	966,195	50,358	5.5	5.2	1975/76	3,762,104	151,584	4.2	4.5
1931/32	1,012,535	46,340	4.8	5.1	1976/77	3,886,130	136,621	3.6	4.0
1932/33	1,050,482	36,950	3.6	4.6	1977/78	4,019,470	144,349	3.7	3.8
1933/34	1,077,633	29,632	2.8	3.8	1978/79	4,182,938	175,566	4.4	3.9
1934/35	1,117,818	40,185	3.7	3.4	1979/80	4,310,824	144,844	3.5	3.8
1935/36	1,161,859	44,041	3.9	3.5	1980/81	4,441,312	147,928	3.4	3.8
1936/37	1,196,118	34,259	2.9	3.5	1981/82	4,565,591	132,269	3.0	3.3
1937/38	1,232,745	36,627	3.1	3.3	1982/83	4,688,361	130,629	2.9	3.1
1938/39	1,271,296	38,551	3.1	3.0	1983/84	4,794,104	113,234	2.4	2.8
1939/40	1,300,785	29,489	2.3	2.8					
1940/41	1,330,152	29,367	2.3	2.6					
1941/42	1,369,206	39,054	2.9	2.5					
1942/43	1,436,244	67,766	4.9	3.4					
1943/44	1,498,899	63,888	4.4	4.1					
1944/45	1,533,976	34,354	2.3	3.9					
1945/46	1,584,264	51,671	3.4	3.4					
1946/47	1,645,827	68,962	4.4	3.3					
1947/48	1,705,398	50,651	3.1	3.6					
1948/49	1,763,012	57,614	3.4	3.6					
1949/50	1,797,584	56,660	3.2	3.2					
1950/51	1,862,071	45,459	2.5	3.0					
1951/52	1,885,602	51,763	2.8	2.8					
1952/53	1,883,621	49,560	2.6	2.6					
1953/54	1,900,137	45,896	2.4	2.6					
1954/55	1,911,111	47,282	2.5	2.5					
1955/56	1,925,754	43,038	2.3	2.4					

INCREASE IN VOLUMES AT CHICAGO

AS A PERCENT
1907/08-1983/84



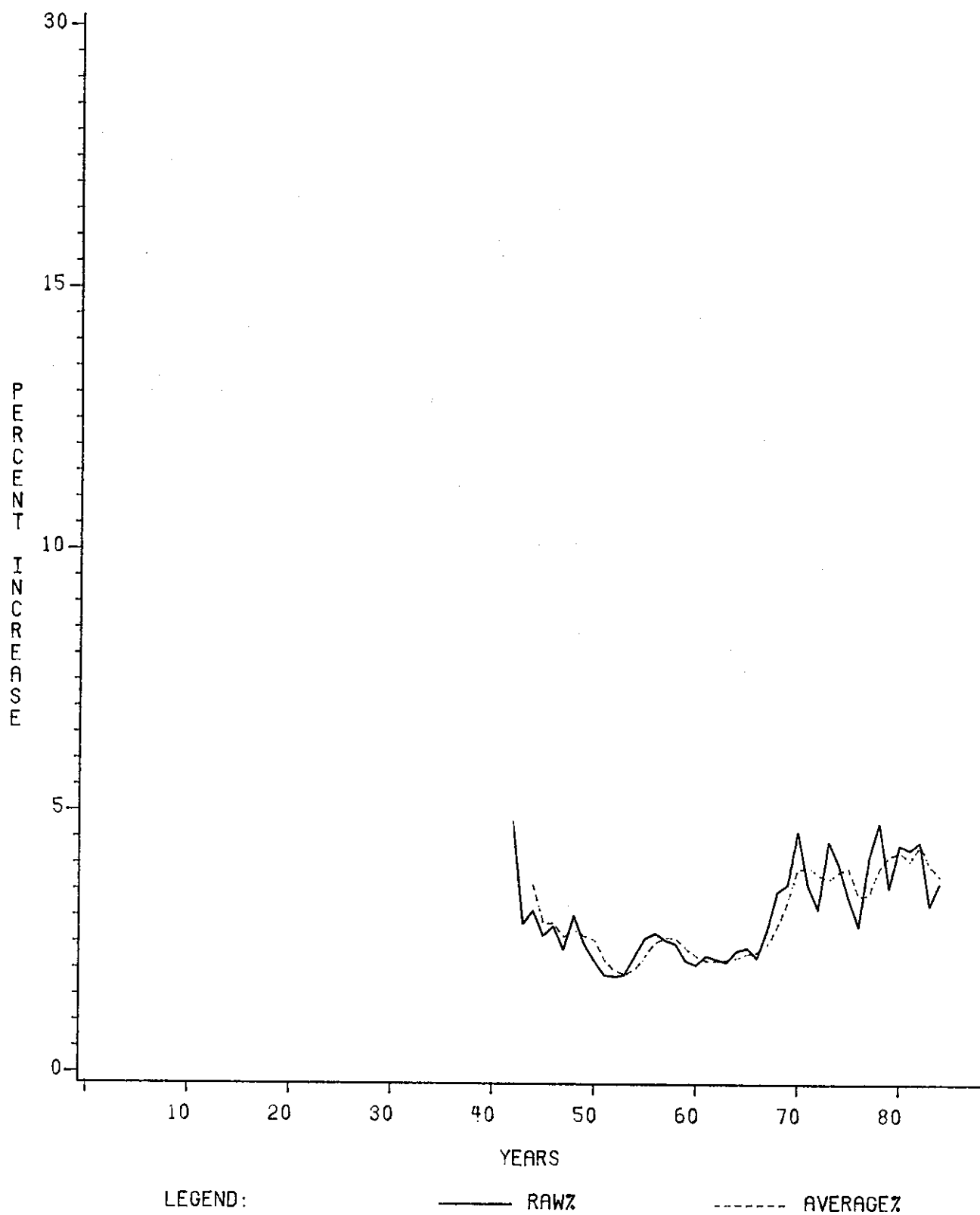
GROWTH AT CINCINNATI

INSTITUTION
NUMBER: 1700

YEAR	VOLUMES	VOLUMES		AVE.	
		ADDED	%	%	%
1940/41	511,974	20,437	*	*	
1941/42	540,935	24,624	4.8	*	
1942/43	551,991	15,393	2.8	*	
1943/44	568,600	17,066	3.1	3.6	
1944/45	583,546	14,946	2.6	2.9	
1945/46	592,425	16,353	2.8	2.8	
1946/47	606,452	13,974	2.4	2.6	
1947/48	621,752	18,316	3.0	2.7	
1948/49	636,022	15,379	2.5	2.6	
1949/50	649,747	13,725	2.2	2.6	
1950/51	660,140	12,198	1.9	2.2	
1951/52	662,173	12,220	1.9	2.0	
1952/53	661,227	12,487	1.9	1.9	
1953/54	672,989	14,808	2.2	2.0	
1954/55	727,610	17,404	2.6	2.2	
1955/56	736,547	19,460	2.7	2.5	
1956/57	753,160	18,712	2.5	2.6	
1957/58	770,946	18,659	2.5	2.6	
1958/59	784,358	16,578	2.2	2.4	
1959/60	799,873	16,259	2.1	2.2	
1960/61	813,181	18,002	2.3	2.2	
1961/62	829,628	17,706	2.2	2.2	
1962/63	844,692	17,624	2.1	2.2	
1963/64	872,144	19,779	2.3	2.2	
1964/65	888,858	20,976	2.4	2.3	
1965/66	905,047	19,582	2.2	2.3	
1966/67	1,000,877	24,771	2.7	2.4	
1967/68	1,033,238	34,687	3.5	2.8	
1968/69	1,067,855	37,306	3.6	3.3	
1969/70	1,117,075	49,452	4.6	3.9	
1970/71	1,156,971	39,997	3.6	3.9	
1971/72	1,190,741	36,307	3.1	3.8	
1972/73	1,523,103	52,696	4.4	3.7	
1973/74	1,531,982	60,922	4.0	3.9	
1974/75	1,553,754	51,223	3.3	3.9	
1975/76	1,184,581	43,674	2.8	3.4	
1976/77	1,229,547	48,927	4.1	3.4	
1977/78	1,276,837	58,953	4.8	3.9	
1978/79	1,217,245	45,286	3.5	4.2	
1979/80	1,254,306	53,050	4.4	4.2	
1980/81	1,278,557	53,583	4.3	4.1	
1981/82	1,330,758	56,729	4.4	4.4	
1982/83	1,371,023	42,626	3.2	4.0	
1983/84	1,415,841	49,804	3.6	3.8	

INCREASE IN VOLUMES AT CINCINNATI

AS A PERCENT
1907/08-1983/84



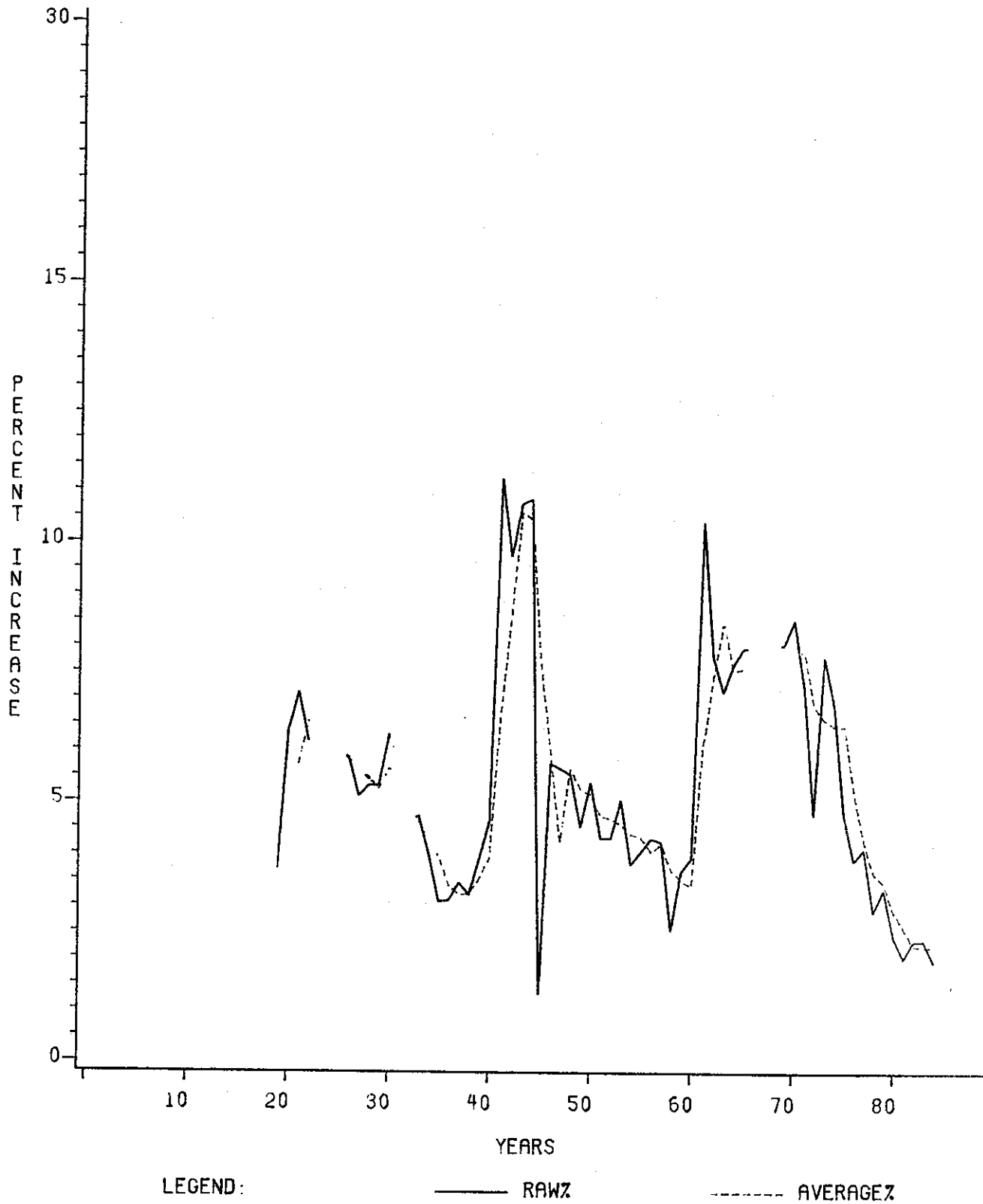
GROWTH AT COLORADO

INSTITUTION
NUMBER: 1800

YEAR	VOLUMES	VOLUMES ADDED	%	AVE. %	YEAR	VOLUMES	VOLUMES ADDED	%	AVE. %
1917/18	112,747	7,384	*	*	1962/63	839,540	55,886	7.1	8.4
1918/19	115,264	4,179	3.7	*	1963/64	878,657	64,301	7.7	7.5
1919/20	120,468	7,340	6.4	*	1964/65	946,435	69,936	8.0	7.6
1920/21	129,025	8,557	7.1	5.7	1965/66	1,208,863	*	*	*
1921/22	134,685	7,918	6.1	6.5	1966/67	1,100,634	*	*	*
1922/23	*	*	*	*	1967/68	1,202,337	*	*	*
1923/24	*	*	*	*	1968/69	1,298,925	96,588	8.0	*
1924/25	167,000	9,000	*	*	1969/70	1,408,709	110,408	8.5	*
1925/26	173,800	9,765	5.8	*	1970/71	1,503,187	101,411	7.2	7.9
1926/27	182,655	8,855	5.1	*	1971/72	1,570,251	71,298	4.7	6.8
1927/28	192,283	9,702	5.3	5.4	1972/73	1,704,736	122,447	7.8	6.6
1928/29	207,462	10,196	5.3	5.2	1973/74	1,809,742	116,828	6.9	6.5
1929/30	220,465	13,066	6.3	5.6	1974/75	1,793,643	86,067	4.8	6.5
1930/31	*	*	*	*	1975/76	1,656,245	69,589	3.9	5.2
1931/32	246,776	14,188	*	*	1976/77	1,717,369	67,792	4.1	4.2
1932/33	257,764	11,588	4.7	*	1977/78	1,761,631	49,667	2.9	3.6
1933/34	265,726	10,225	4.0	*	1978/79	1,811,881	58,511	3.3	3.4
1934/35	273,853	8,140	3.1	3.9	1979/80	1,852,904	43,584	2.4	2.9
1935/36	262,828	8,464	3.1	3.4	1980/81	1,888,207	36,939	2.0	2.6
1936/37	285,000	9,000	3.4	3.2	1981/82	1,927,699	43,941	2.3	2.2
1937/38	282,983	9,145	3.2	3.2	1982/83	1,972,172	45,213	2.3	2.2
1938/39	293,833	11,012	3.9	3.5	1983/84	2,009,696	38,119	1.9	2.2
1939/40	307,387	13,554	4.6	3.9					
1940/41	457,935	34,502	11.2	6.6					
1941/42	502,477	44,542	9.7	8.5					
1942/43	526,512	53,935	10.7	10.6					
1943/44	560,000	57,000	10.8	10.4					
1944/45	568,098	7,265	1.3	7.6					
1945/46	626,602	32,572	5.7	6.0					
1946/47	659,996	35,216	5.6	4.2					
1947/48	683,849	36,385	5.5	5.6					
1948/49	675,759	30,832	4.5	5.2					
1949/50	706,371	36,190	5.4	5.1					
1950/51	720,686	30,329	4.3	4.7					
1951/52	732,118	30,942	4.3	4.6					
1952/53	805,090	36,809	5.0	4.5					
1953/54	783,594	30,540	3.8	4.4					
1954/55	804,937	31,712	4.0	4.3					
1955/56	835,681	34,596	4.3	4.0					
1956/57	861,314	35,234	4.2	4.2					
1957/58	603,340	21,790	2.5	3.7					
1958/59	623,407	22,082	3.7	3.5					
1959/60	656,575	24,375	3.9	3.4					
1960/61	722,939	68,214	10.4	6.0					
1961/62	785,542	56,374	7.8	7.4					

INCREASE IN VOLUMES AT COLORADO

AS A PERCENT
1907/08-1983/84



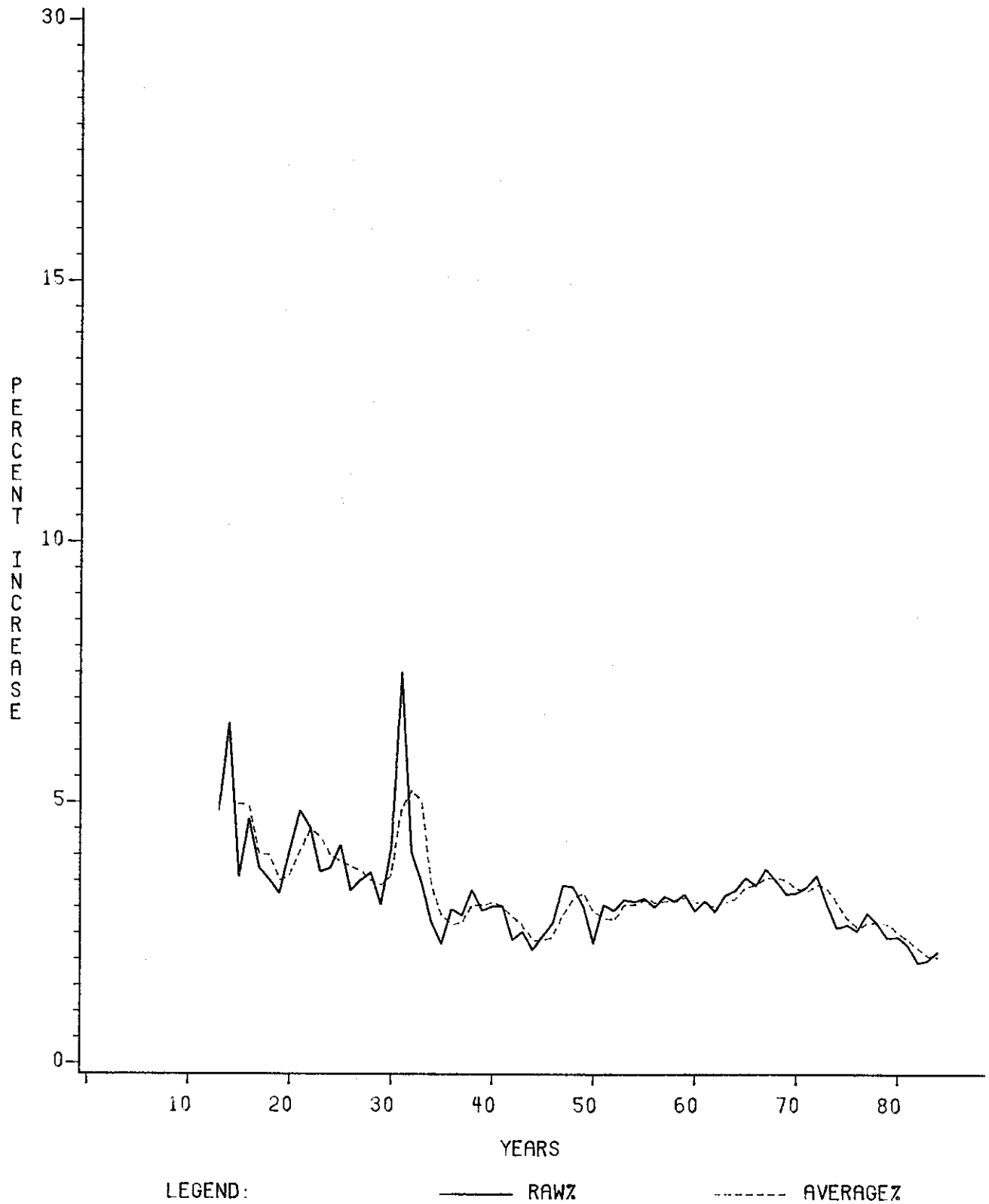
GROWTH AT COLUMBIA

INSTITUTION
NUMBER: 2000

YEAR	VOLUMES	VOLUMES ADDED	%	AVE. %	YEAR	VOLUMES	VOLUMES ADDED	%	AVE. %
1911/12	540,338	23,528	*	*	1956/57	2,218,641	69,501	3.2	3.1
1912/13	516,774	26,223	4.9	*	1957/58	2,274,586	69,062	3.1	3.1
1913/14	608,361	33,655	6.5	*	1958/59	2,730,732	73,802	3.2	3.2
1914/15	630,075	21,714	3.6	5.0	1959/60	2,875,761	79,954	2.9	3.1
1915/16	659,600	29,500	4.7	4.9	1960/61	2,939,751	89,707	3.1	3.1
1916/17	685,822	24,683	3.7	4.0	1961/62	3,012,464	85,875	2.9	3.0
1917/18	711,416	24,137	3.5	4.0	1962/63	3,088,460	97,430	3.2	3.1
1918/19	709,845	23,154	3.3	3.5	1963/64	3,452,689	103,143	3.3	3.2
1919/20	761,448	28,926	4.1	3.6	1964/65	3,569,565	123,311	3.6	3.4
1920/21	797,106	36,768	4.8	4.1	1965/66	3,675,920	121,894	3.4	3.4
1921/22	833,089	35,983	4.5	4.5	1966/67	3,782,479	137,395	3.7	3.6
1922/23	863,341	30,524	3.7	4.3	1967/68	3,895,937	132,281	3.5	3.5
1923/24	893,147	32,329	3.7	4.0	1968/69	4,014,446	126,675	3.3	3.5
1924/25	930,541	37,394	4.2	3.9	1969/70	4,091,911	131,381	3.3	3.3
1925/26	1,055,198	30,773	3.3	3.7	1970/71	4,241,130	138,874	3.4	3.3
1926/27	1,092,343	37,145	3.5	3.7	1971/72	4,448,350	153,308	3.6	3.4
1927/28	1,132,236	39,893	3.7	3.5	1972/73	4,529,213	135,671	3.0	3.4
1928/29	1,166,621	34,385	3.0	3.4	1973/74	4,572,676	117,795	2.6	3.1
1929/30	1,214,524	47,903	4.1	3.6	1974/75	4,661,913	121,963	2.7	2.8
1930/31	1,305,595	91,072	7.5	4.9	1975/76	4,623,344	118,569	2.5	2.6
1931/32	1,358,389	52,793	4.0	5.2	1976/77	4,730,492	133,838	2.9	2.7
1932/33	1,405,518	47,129	3.5	5.0	1977/78	4,832,691	126,679	2.7	2.7
1933/34	1,443,307	37,799	2.7	3.4	1978/79	4,924,469	116,343	2.4	2.7
1934/35	1,476,450	33,149	2.3	2.8	1979/80	5,016,460	119,830	2.4	2.5
1935/36	1,520,089	43,633	3.0	2.6	1980/81	5,112,559	113,313	2.3	2.4
1936/37	1,563,167	43,078	2.8	2.7	1981/82	5,192,448	99,053	1.9	2.2
1937/38	1,615,051	51,884	3.3	3.0	1982/83	5,270,432	103,145	2.0	2.1
1938/39	1,662,843	47,382	2.9	3.0	1983/84	5,377,006	113,319	2.2	2.0
1939/40	1,715,263	50,082	3.0	3.1					
1940/41	1,845,611	51,959	3.0	3.0					
1941/42	1,677,974	43,930	2.4	2.8					
1942/43	1,719,397	42,336	2.5	2.6					
1943/44	1,756,861	37,464	2.2	2.4					
1944/45	1,731,533	42,835	2.4	2.4					
1945/46	1,778,058	46,711	2.7	2.4					
1946/47	1,836,590	60,770	3.4	2.9					
1947/48	1,900,488	62,065	3.4	3.2					
1948/49	1,923,243	57,279	3.0	3.3					
1949/50	1,897,715	44,210	2.3	2.9					
1950/51	1,936,923	57,636	3.0	2.8					
1951/52	1,979,503	56,737	2.9	2.8					
1952/53	2,025,902	62,193	3.1	3.0					
1953/54	2,069,795	62,740	3.1	3.1					
1954/55	2,116,641	65,537	3.2	3.1					
1955/56	2,164,652	63,640	3.0	3.1					

INCREASE IN VOLUMES AT COLUMBIA

AS A PERCENT
1907/08-1983/84



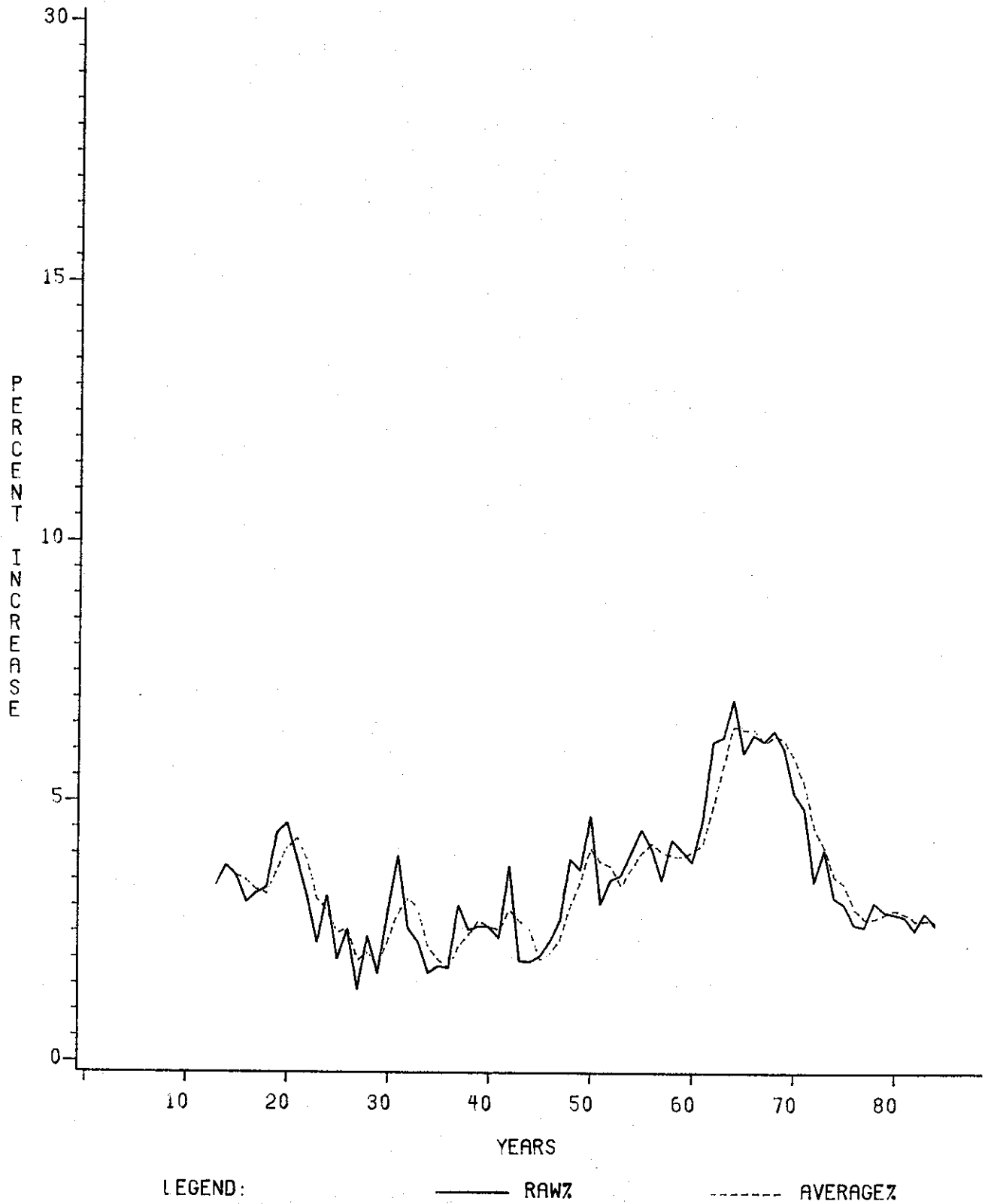
GROWTH AT CORNELL

INSTITUTION
NUMBER: 2200

YEAR	VOLUMES	VOLUMES ADDED	%	AVE. %	YEAR	VOLUMES	VOLUMES ADDED	%	AVE. %
1911/12	409,700	14,491	*	*	1956/57	1,870,728	63,224	3.5	4.0
1912/13	423,570	13,870	3.4	*	1957/58	1,967,599	79,872	4.3	3.9
1913/14	439,517	15,947	3.8	*	1958/59	2,043,026	79,672	4.0	3.9
1914/15	461,129	15,615	3.6	3.6	1959/60	2,116,230	78,233	3.8	4.0
1915/16	474,382	14,117	3.1	3.5	1960/61	2,198,654	97,509	4.6	4.2
1916/17	489,655	15,378	3.2	3.3	1961/62	2,278,046	135,260	6.2	4.9
1917/18	557,931	16,322	3.3	3.2	1962/63	2,413,369	141,932	6.2	5.7
1918/19	603,100	24,494	4.4	3.7	1963/64	2,577,296	167,969	7.0	6.4
1919/20	630,637	27,587	4.6	4.1	1964/65	2,725,624	152,822	5.9	6.4
1920/21	655,086	24,449	3.9	4.3	1965/66	2,892,539	171,012	6.3	6.4
1921/22	673,352	20,722	3.2	3.9	1966/67	3,067,073	177,979	6.2	6.1
1922/23	688,686	15,332	2.3	3.1	1967/68	3,257,399	194,903	6.4	6.3
1923/24	710,575	21,889	3.2	2.9	1968/69	3,444,570	195,756	6.0	6.2
1924/25	724,453	13,877	2.0	2.5	1969/70	3,605,517	177,418	5.2	5.8
1925/26	742,723	18,270	2.5	2.6	1970/71	3,779,990	175,232	4.9	5.3
1926/27	787,127	10,188	1.4	1.9	1971/72	3,888,634	130,976	3.5	4.5
1927/28	780,790	18,922	2.4	2.1	1972/73	4,042,540	158,024	4.1	4.1
1928/29	804,239	13,117	1.7	1.8	1973/74	4,158,006	127,274	3.1	3.6
1929/30	831,000	23,000	2.9	2.3	1974/75	4,272,959	125,716	3.0	3.4
1930/31	855,596	32,815	3.9	2.8	1975/76	4,366,951	112,609	2.6	2.9
1931/32	877,393	21,796	2.5	3.1	1976/77	3,979,581	113,315	2.6	2.8
1932/33	901,627	20,061	2.3	2.9	1977/78	4,095,234	122,417	3.1	2.8
1933/34	917,942	15,315	1.7	2.2	1978/79	4,207,146	118,031	2.9	2.9
1934/35	939,724	16,885	1.8	1.9	1979/80	4,216,915	119,880	2.8	2.9
1935/36	955,681	16,892	1.8	1.8	1980/81	4,318,583	117,666	2.8	2.8
1936/37	985,262	28,628	3.0	2.2	1981/82	4,401,660	109,564	2.5	2.7
1937/38	1,010,170	24,859	2.5	2.4	1982/83	4,516,717	126,398	2.9	2.7
1938/39	1,036,404	26,234	2.6	2.7	1983/84	4,769,127	119,467	2.6	2.7
1939/40	1,063,203	26,797	2.6	2.6					
1940/41	1,094,117	25,287	2.4	2.5					
1941/42	1,120,967	41,217	3.8	2.9					
1942/43	1,142,579	21,612	1.9	2.7					
1943/44	1,147,492	21,906	1.9	2.5					
1944/45	1,170,943	23,237	2.0	2.0					
1945/46	1,206,195	26,960	2.3	2.1					
1946/47	1,299,798	32,729	2.7	2.3					
1947/48	1,350,636	50,585	3.9	3.0					
1948/49	1,396,789	49,716	3.7	3.4					
1949/50	1,463,968	65,946	4.7	4.1					
1950/51	1,509,728	44,420	3.0	3.8					
1951/52	1,559,614	52,766	3.5	3.8					
1952/53	1,612,956	55,844	3.6	3.4					
1953/54	1,674,735	64,775	4.0	3.7					
1954/55	1,745,987	74,742	4.5	4.0					
1955/56	1,812,826	71,432	4.1	4.2					

INCREASE IN VOLUMES AT CORNELL

AS A PERCENT
1907/08-1983/84



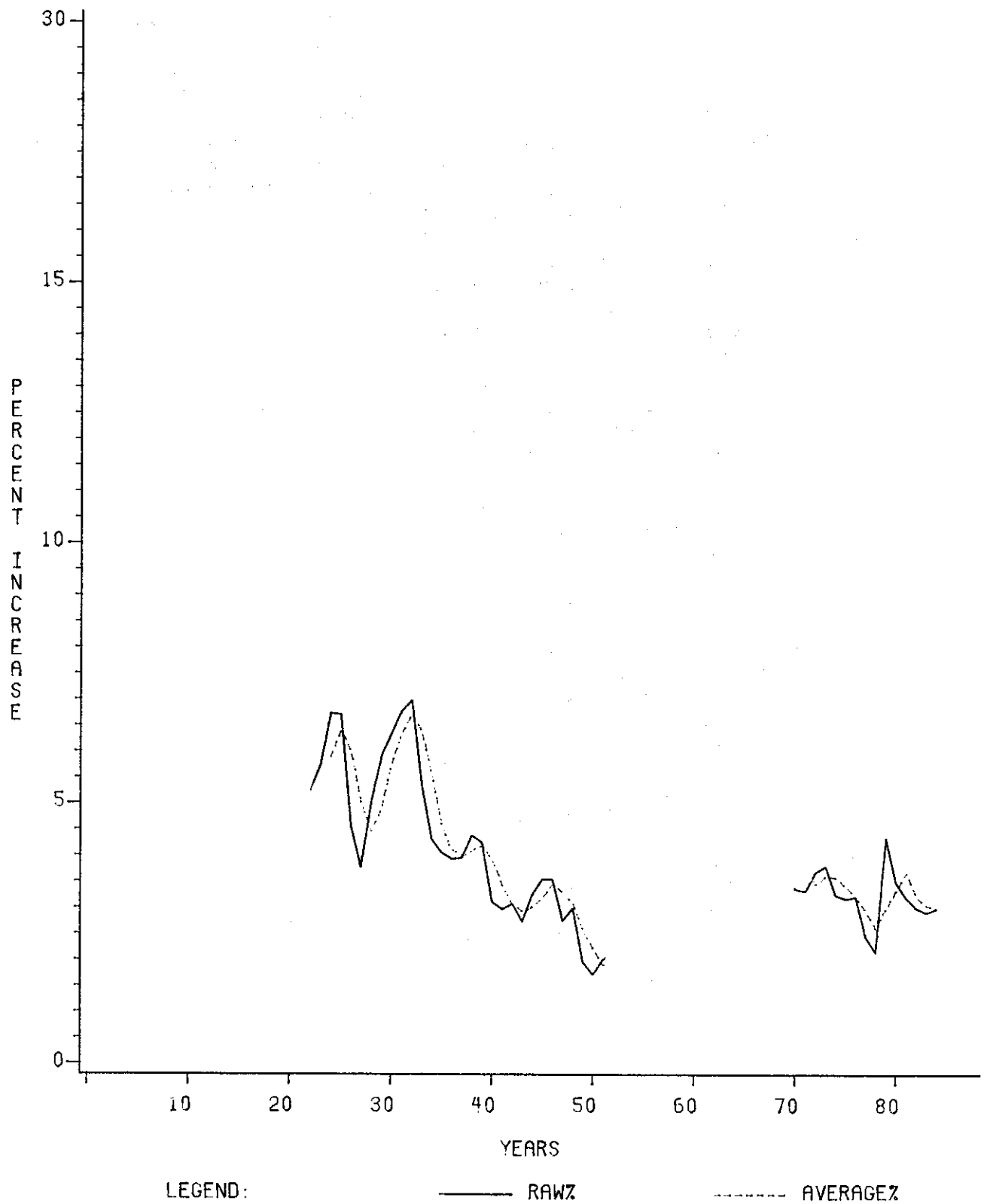
GROWTH AT DARTMOUTH

INSTITUTION
NUMBER: 2300

YEAR	VOLUMES	VOLUMES ADDED	%	AVE. %	YEAR	VOLUMES	VOLUMES ADDED	%	AVE. %
1913/14	130,200	3,778	*	*	1975/76	1,204,918	37,566	3.2	3.2
1914/15	*	*	*	*	1976/77	1,240,695	29,245	2.4	2.9
1915/16	*	*	*	*	1977/78	1,265,198	26,597	2.1	2.6
1916/17	*	*	*	*	1978/79	1,347,738	55,087	4.4	3.0
1917/18	*	*	*	*	1979/80	1,390,717	46,747	3.5	3.3
1918/19	*	*	*	*	1980/81	1,433,938	44,197	3.2	3.7
1919/20	*	*	*	*	1981/82	1,475,654	42,756	3.0	3.2
1920/21	175,000	8,500	*	*	1982/83	1,516,998	42,861	2.9	3.0
1921/22	180,000	9,170	5.2	*	1983/84	1,558,380	45,316	3.0	3.0
1922/23	185,000	10,297	5.7	*					
1923/24	195,000	12,440	6.7	5.9					
1924/25	215,000	13,044	6.7	6.4					
1925/26	226,000	9,780	4.5	6.0					
1926/27	235,000	8,500	3.8	5.0					
1927/28	240,000	11,715	5.0	4.4					
1928/29	299,790	14,138	5.9	4.9					
1929/30	331,146	18,986	6.3	5.7					
1930/31	330,000	22,400	6.8	6.3					
1931/32	351,907	23,002	7.0	6.7					
1932/33	370,678	18,771	5.3	6.4					
1933/34	387,000	15,958	4.3	5.5					
1934/35	402,643	15,643	4.0	4.6					
1935/36	418,451	15,808	3.9	4.1					
1936/37	434,947	16,496	3.9	4.0					
1937/38	454,005	19,058	4.4	4.1					
1938/39	497,009	19,232	4.2	4.2					
1939/40	512,400	15,391	3.1	3.9					
1940/41	527,801	15,170	3.0	3.4					
1941/42	543,973	16,172	3.1	3.0					
1942/43	558,788	14,815	2.7	2.9					
1943/44	576,957	18,169	3.3	3.0					
1944/45	597,424	20,467	3.5	3.2					
1945/46	618,474	21,050	3.5	3.4					
1946/47	635,367	16,893	2.7	3.3					
1947/48	658,915	19,016	3.0	3.1					
1948/49	671,727	12,812	1.9	2.6					
1949/50	666,443	11,438	1.7	2.2					
1950/51	679,785	13,342	2.0	1.9					
.....									
.....									
1968/69	985,011	30,750	*	*					
1969/70	1,008,000	32,988	3.3	*					
1970/71	1,030,749	33,332	3.3	*					
1971/72	1,064,907	37,969	3.7	3.4					
1972/73	1,103,587	40,375	3.8	3.6					
1973/74	1,136,375	35,675	3.2	3.6					
1974/75	1,172,473	35,968	3.2	3.4					

INCREASE IN VOLUMES AT DARTMOUTH

AS A PERCENT
1907/08-1983/84



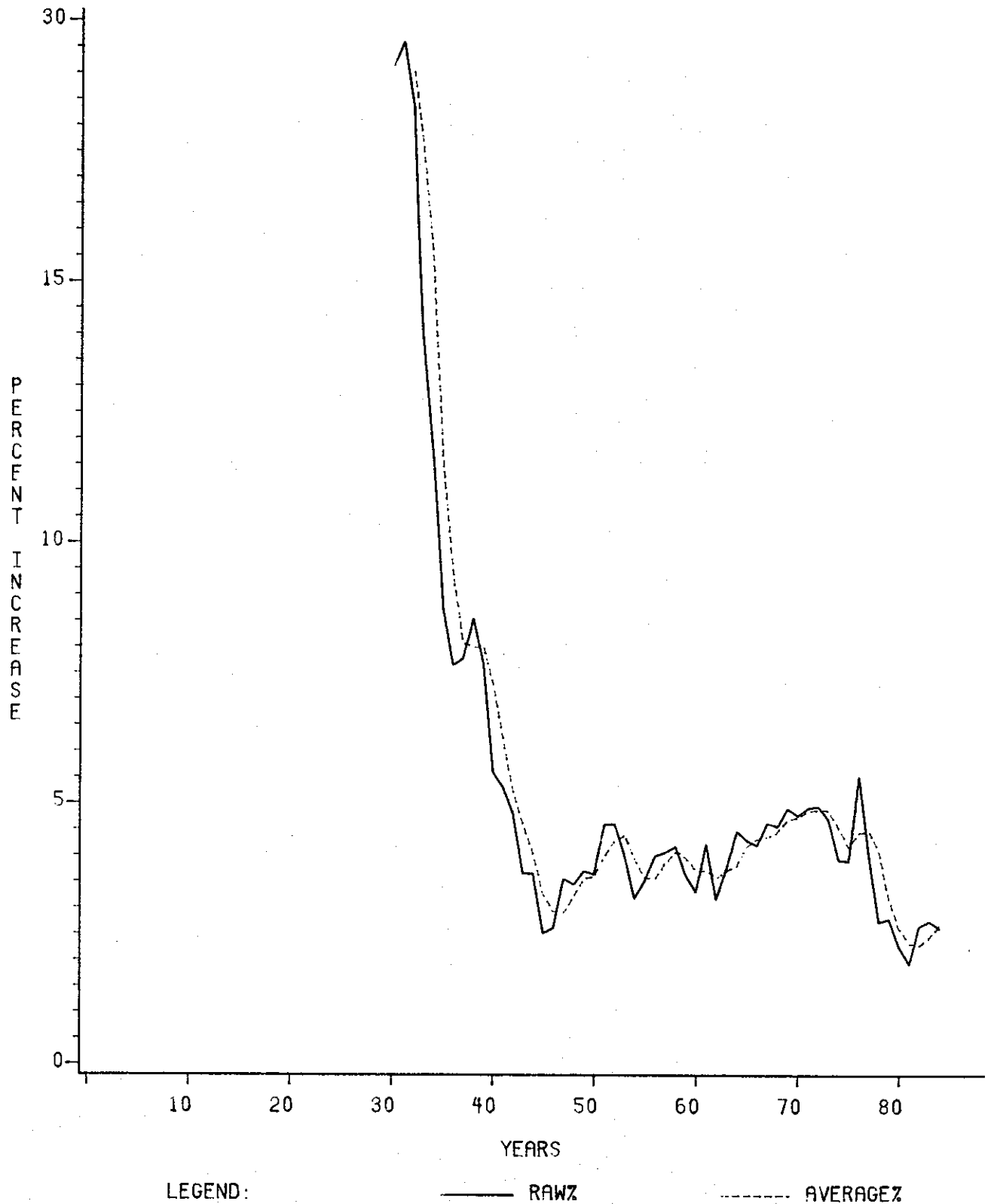
GROWTH AT DUKE

INSTITUTION
NUMBER: 2400

YEAR	VOLUMES	VOLUMES ADDED	%	AVE. %	YEAR	VOLUMES	VOLUMES ADDED	%	AVE. %
1928/29	151,520	28,860	*	*	1973/74	2,530,124	95,236	3.9	4.5
1929/30	192,915	41,495	27.4	*	1974/75	2,624,289	98,058	3.9	4.2
1930/31	246,280	55,380	28.7	*	1975/76	2,764,348	144,239	5.5	4.4
1931/32	307,601	61,321	24.9	27.0	1976/77	2,869,558	109,060	3.9	4.4
1932/33	347,302	43,039	14.0	22.5	1977/78	2,944,733	78,227	2.7	4.1
1933/34	387,737	40,435	11.6	16.8	1978/79	3,022,839	81,730	2.8	3.1
1934/35	421,517	33,780	8.7	11.4	1979/80	3,085,654	67,742	2.2	2.6
1935/36	452,444	32,180	7.6	9.3	1980/81	3,006,026	59,089	1.9	2.3
1936/37	487,592	35,148	7.8	8.0	1981/82	3,084,412	79,464	2.6	2.3
1937/38	529,060	41,548	8.5	8.0	1982/83	3,261,222	84,246	2.7	2.4
1938/39	569,140	40,578	7.7	8.0	1983/84	3,381,760	84,600	2.6	2.7
1939/40	600,235	31,695	5.6	7.3					
1940/41	631,049	31,728	5.3	6.2					
1941/42	659,044	30,206	4.8	5.2					
1942/43	681,095	23,994	3.6	4.6					
1943/44	705,925	24,738	3.6	4.0					
1944/45	722,613	17,611	2.5	3.3					
1945/46	740,493	18,902	2.6	2.9					
1946/47	898,444	26,208	3.5	2.9					
1947/48	927,701	30,868	3.4	3.2					
1948/49	960,859	34,240	3.7	3.6					
1949/50	994,233	34,776	3.6	3.6					
1950/51	1,038,898	45,643	4.6	4.0					
1951/52	1,085,166	47,722	4.6	4.3					
1952/53	1,123,598	43,276	4.0	4.4					
1953/54	1,159,153	35,651	3.2	3.9					
1954/55	1,198,497	40,757	3.5	3.6					
1955/56	1,244,880	47,748	4.0	3.6					
1956/57	1,292,448	50,514	4.1	3.9					
1957/58	1,343,768	53,860	4.2	4.1					
1958/59	1,390,544	48,488	3.6	3.9					
1959/60	1,435,164	45,775	3.3	3.7					
1960/61	1,493,022	60,455	4.2	3.7					
1961/62	1,540,063	47,041	3.2	3.6					
1962/63	1,592,672	57,745	3.7	3.7					
1963/64	1,648,774	71,018	4.5	3.8					
1964/65	1,716,855	70,465	4.3	4.2					
1965/66	1,783,803	71,706	4.2	4.3					
1966/67	1,863,233	82,168	4.6	4.4					
1967/68	1,944,554	84,538	4.5	4.4					
1968/69	2,036,441	94,953	4.9	4.7					
1969/70	2,128,524	96,808	4.8	4.7					
1970/71	2,231,519	104,442	4.9	4.8					
1971/72	2,333,382	110,089	4.9	4.9					
1972/73	2,438,962	109,049	4.7	4.8					

INCREASE IN VOLUMES AT DUKE

AS A PERCENT
1907/08-1983/84



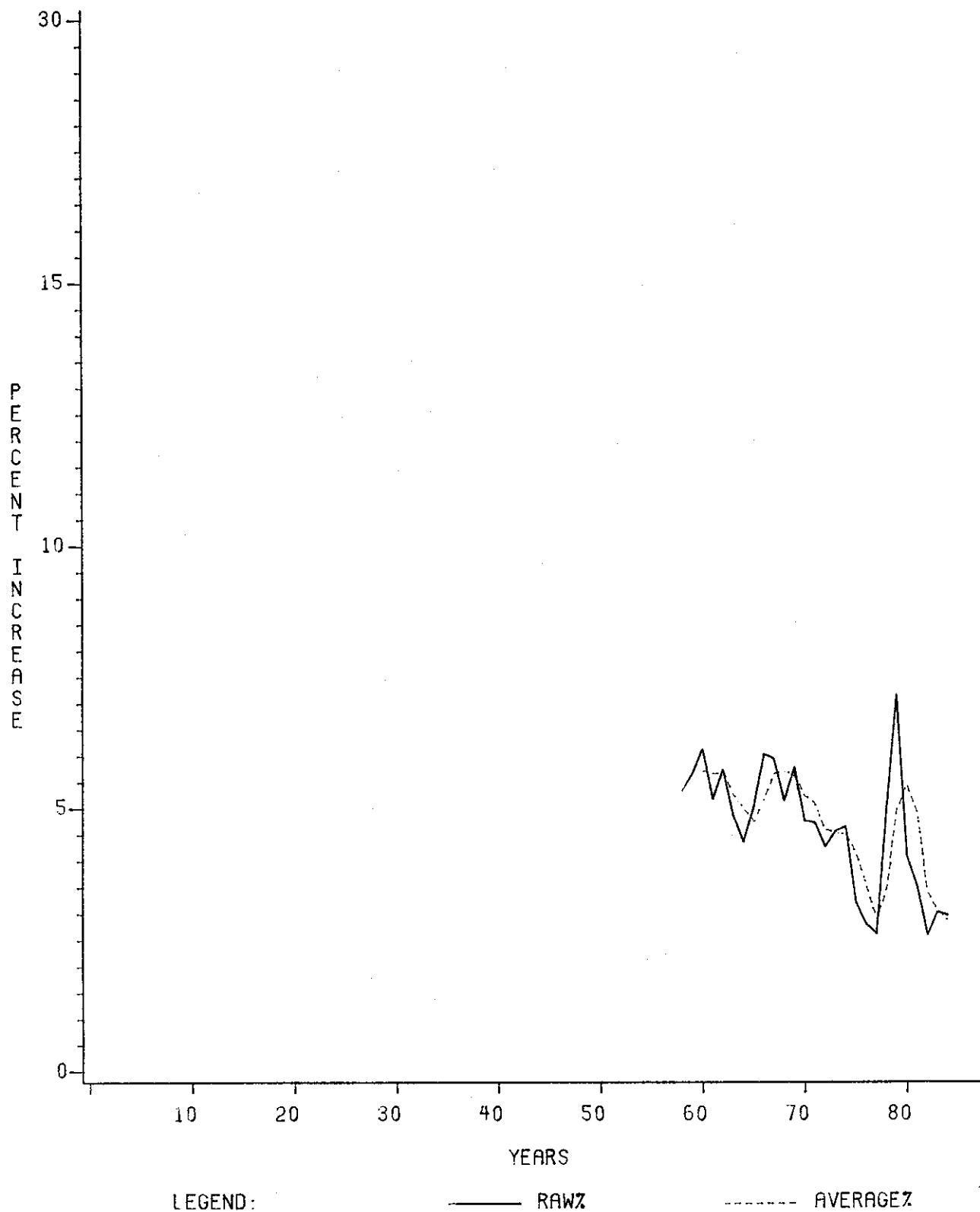
GROWTH AT FLORIDA

INSTITUTION
NUMBER: 2600

YEAR	VOLUMES	VOLUMES ADDED	%	AVE. %
1956/57	736,855	37,600	*	*
1957/58	788,731	39,335	5.3	*
1958/59	827,791	44,556	5.6	*
1959/60	875,088	50,684	6.1	5.7
1960/61	917,739	45,227	5.2	5.6
1961/62	970,429	52,690	5.7	5.7
1962/63	1,017,405	46,976	4.8	5.3
1963/64	1,039,117	44,336	4.4	5.0
1964/65	1,087,665	52,268	5.0	4.7
1965/66	1,147,711	65,592	6.0	5.1
1966/67	1,213,855	68,014	5.9	5.7
1967/68	1,273,515	62,304	5.1	5.7
1968/69	1,346,101	73,645	5.8	5.6
1969/70	1,421,140	63,958	4.8	5.2
1970/71	1,487,303	67,127	4.7	5.1
1971/72	1,550,486	63,398	4.3	4.6
1972/73	1,619,837	70,822	4.6	4.5
1973/74	1,705,480	75,421	4.7	4.5
1974/75	1,756,441	54,376	3.2	4.1
1975/76	1,807,242	49,085	2.8	3.5
1976/77	1,852,841	47,266	2.6	2.9
1977/78	1,943,750	93,653	5.1	3.5
1978/79	2,079,344	139,413	7.2	4.9
1979/80	2,162,982	84,840	4.1	5.4
1980/81	2,231,509	75,578	3.5	4.9
1981/82	2,285,945	57,737	2.6	3.4
1982/83	2,349,473	69,272	3.0	3.0
1983/84	2,416,520	69,487	3.0	2.9

INCREASE IN VOLUMES AT FLORIDA

AS A PERCENT
1907/08-1983/84



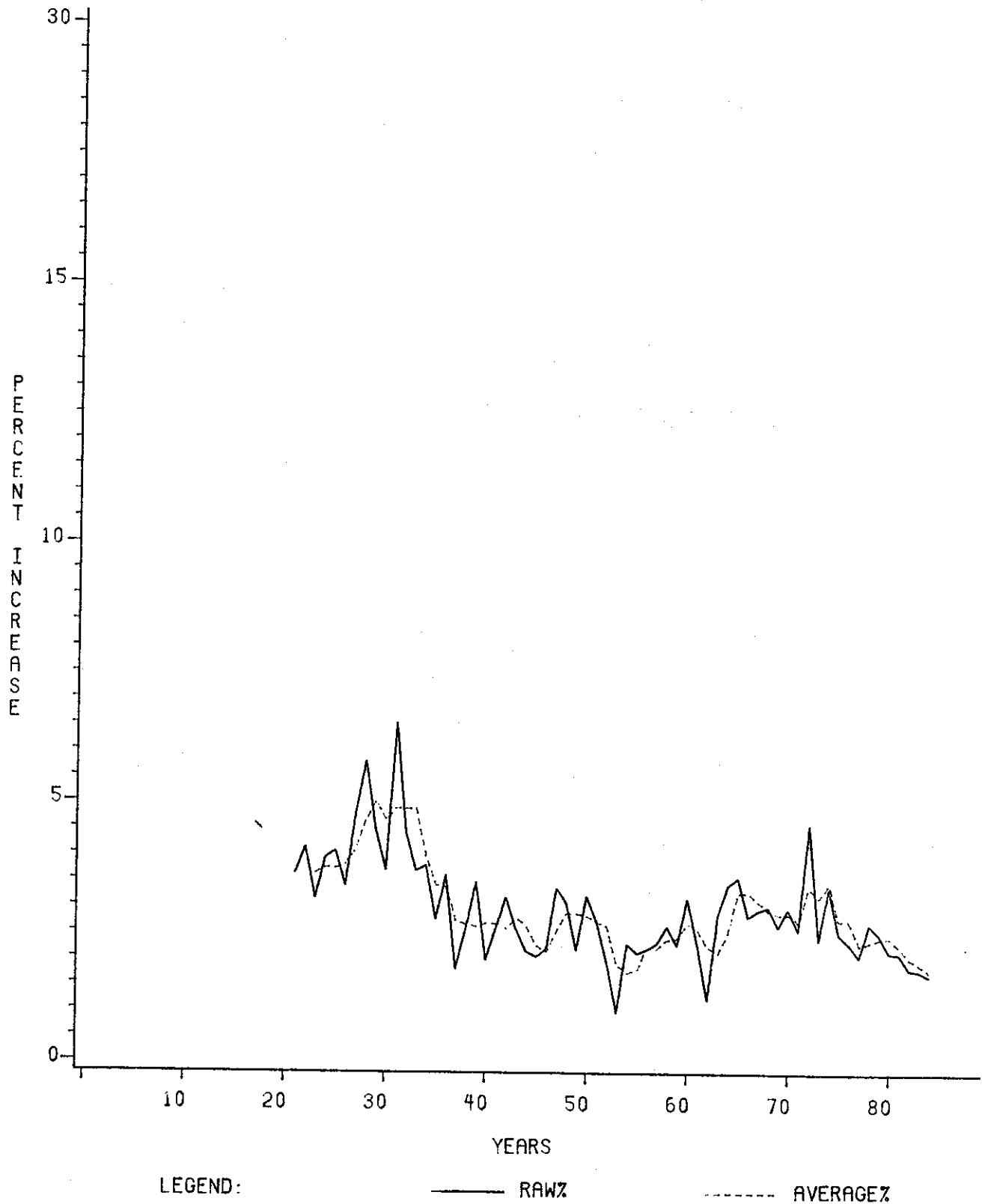
GROWTH AT HARVARD

INSTITUTION
NUMBER: 3100

YEAR	VOLUMES	VOLUMES ADDED	%	AVE. %	YEAR	VOLUMES	VOLUMES ADDED	%	AVE. %
1913/14	1,121,236	38,375	*	*	1958/59	6,492,124	142,677	2.2	2.4
1914/15	*	*	*	*	1959/60	6,697,111	204,651	3.2	2.7
1915/16	1,230,190	46,731	*	*	1960/61	6,848,635	151,524	2.3	2.6
1916/17	1,780,000	56,404	4.6	*	1961/62	6,931,293	82,658	1.2	2.2
1917/18	*	*	*	*	1962/63	7,073,689	195,577	2.8	2.1
1918/19	*	*	*	*	1963/64	7,245,321	241,221	3.4	2.5
1919/20	2,028,000	87,500	*	*	1964/65	7,445,072	257,631	3.6	3.3
1920/21	2,101,200	73,100	3.6	*	1965/66	7,600,357	208,534	2.8	3.3
1921/22	2,187,900	86,700	4.1	*	1966/67	7,791,538	222,569	2.9	3.1
1922/23	2,256,500	68,600	3.1	3.6	1967/68	7,920,387	234,247	3.0	2.9
1923/24	2,322,400	88,800	3.9	3.7	1968/69	8,087,790	206,271	2.6	2.8
1924/25	2,416,500	94,100	4.1	3.7	1969/70	8,278,473	239,050	3.0	2.9
1925/26	2,497,200	81,459	3.4	3.8	1970/71	8,451,187	210,274	2.5	2.7
1926/27	2,622,400	119,596	4.8	4.1	1971/72	8,707,822	387,671	4.6	3.4
1927/28	2,784,300	151,500	5.8	4.6	1972/73	8,859,478	205,636	2.4	3.2
1928/29	2,866,200	123,640	4.4	5.0	1973/74	9,028,385	297,283	3.4	3.4
1929/30	2,971,600	105,400	3.7	4.6	1974/75	9,206,670	223,048	2.5	2.7
1930/31	3,165,400	193,800	6.5	4.9	1975/76	9,383,255	211,375	2.3	2.7
1931/32	3,341,700	138,986	4.4	4.9	1976/77	9,547,576	191,848	2.0	2.3
1932/33	3,472,000	122,418	3.7	4.9	1977/78	9,753,214	255,085	2.7	2.3
1933/34	3,603,040	131,106	3.8	3.9	1978/79	9,913,992	241,400	2.5	2.4
1934/35	3,696,620	98,580	2.7	3.4	1979/80	10,082,663	210,448	2.1	2.4
1935/36	3,795,502	132,473	3.6	3.4	1980/81	10,260,571	211,678	2.1	2.2
1936/37	3,863,050	67,448	1.8	2.7	1981/82	10,409,228	185,775	1.8	2.0
1937/38	3,941,359	99,028	2.6	2.6	1982/83	10,567,240	185,225	1.8	1.9
1938/39	4,079,541	136,280	3.5	2.6	1983/84	10,707,266	178,297	1.7	1.8
1939/40	4,159,606	79,888	2.0	2.7					
1940/41	4,265,792	106,186	2.6	2.7					
1941/42	4,400,870	135,078	3.2	2.6					
1942/43	4,513,163	112,293	2.6	2.8					
1943/44	4,608,862	95,700	2.1	2.6					
1944/45	4,702,292	93,430	2.0	2.2					
1945/46	4,804,968	102,676	2.2	2.1					
1946/47	4,965,731	160,516	3.3	2.5					
1947/48	5,119,976	151,648	3.1	2.9					
1948/49	5,230,226	110,250	2.2	2.8					
1949/50	5,397,286	167,060	3.2	2.8					
1950/51	5,542,674	145,388	2.7	2.7					
1951/52	5,648,794	106,120	1.9	2.6					
1952/53	5,702,947	54,153	1.0	1.9					
1953/54	5,832,912	129,965	2.3	1.7					
1954/55	5,955,766	122,650	2.1	1.8					
1955/56	6,085,761	129,995	2.2	2.2					
1956/57	6,225,447	139,686	2.3	2.2					
1957/58	6,350,227	162,186	2.6	2.4					

INCREASE IN VOLUMES AT HARVARD

AS A PERCENT
1907/08-1983/84



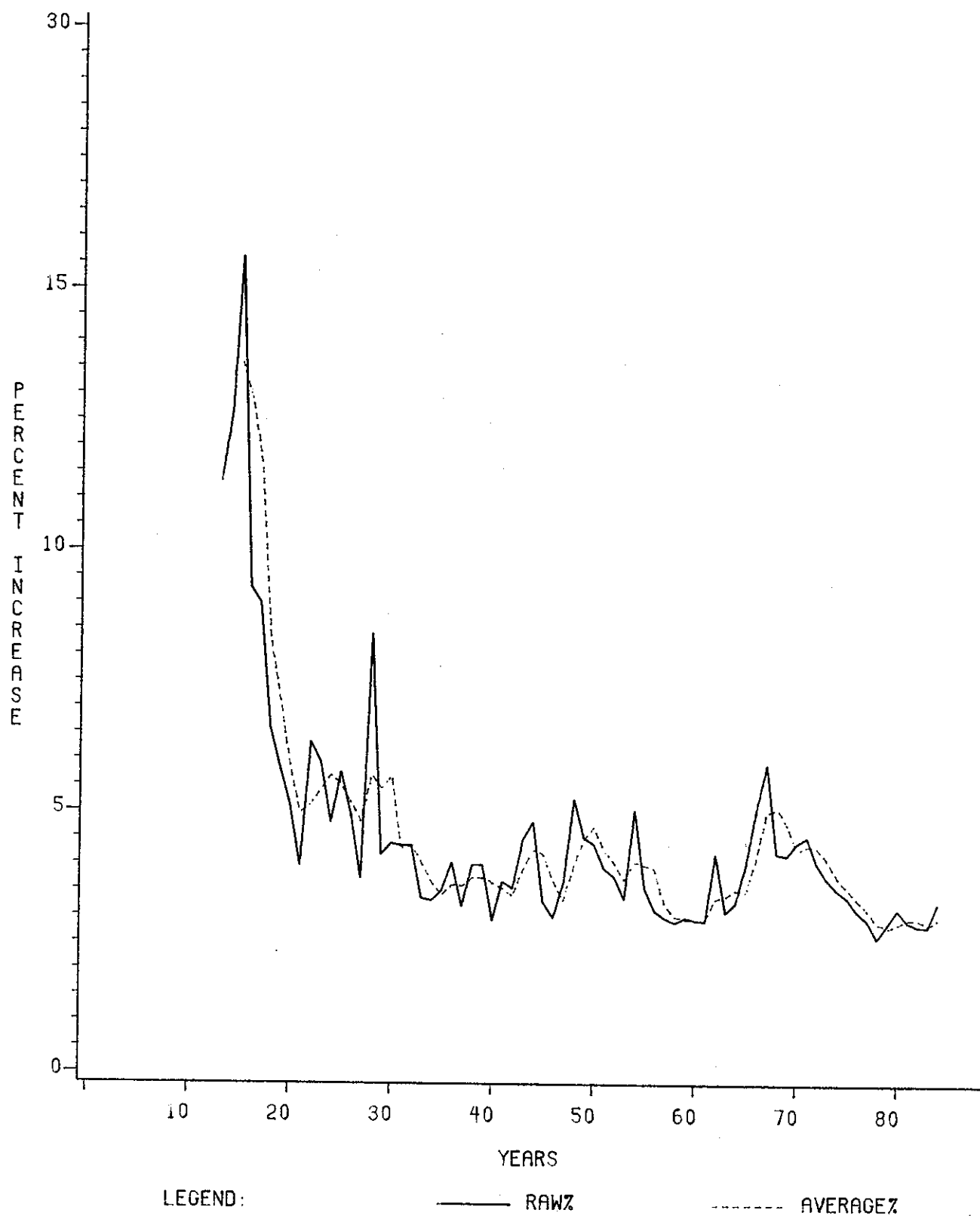
GROWTH AT ILLINOIS

INSTITUTION
NUMBER: 3500

YEAR	VOLUMES				YEAR	VOLUMES			
	VOLUMES	ADDED	%	AVE.		VOLUMES	ADDED	%	AVE.
1907/08	108,383	12,437	*	*	1952/53	2,656,103	85,825	3.3	3.7
1908/09	*	*	*	*	1953/54	2,789,863	133,760	5.0	4.0
1909/10	163,549	30,730	*	*	1954/55	2,888,557	98,694	3.5	4.0
1910/11	*	*	*	*	1955/56	2,978,597	90,040	3.1	3.9
1911/12	212,720	29,158	*	*	1956/57	3,049,741	88,601	3.0	3.2
1912/13	233,586	24,057	11.3	*	1957/58	3,125,882	88,067	2.9	3.0
1913/14	262,926	29,340	12.6	*	1958/59	3,209,404	93,461	3.0	3.0
1914/15	326,893	44,306	16.9	13.6	1959/60	3,288,158	93,908	2.9	2.9
1915/16	343,170	30,303	9.3	12.9	1960/61	3,383,384	95,246	2.9	2.9
1916/17	384,452	30,787	9.0	11.7	1961/62	3,525,820	142,436	4.2	3.3
1917/18	403,257	25,299	6.6	8.3	1962/63	3,634,643	108,823	3.1	3.4
1918/19	418,949	23,454	5.8	7.1	1963/64	3,747,871	118,451	3.3	3.5
1919/20	440,372	21,423	5.1	5.8	1964/65	3,888,983	150,466	4.0	3.5
1920/21	456,503	17,352	3.9	5.0	1965/66	4,083,634	197,190	5.1	4.1
1921/22	480,595	28,873	6.3	5.1	1966/67	4,312,583	241,441	5.9	5.0
1922/23	541,942	28,506	5.9	5.4	1967/68	4,269,438	181,544	4.2	5.1
1923/24	567,787	25,863	4.8	5.7	1968/69	4,428,501	177,831	4.2	4.8
1924/25	655,139	32,678	5.8	5.5	1969/70	4,611,167	195,371	4.4	4.3
1925/26	687,345	32,206	4.9	5.1	1970/71	4,808,795	208,623	4.5	4.4
1926/27	708,850	25,522	3.7	4.8	1971/72	4,992,391	192,896	4.0	4.3
1927/28	768,329	59,579	8.4	5.7	1972/73	5,159,410	185,741	3.7	4.1
1928/29	800,330	32,001	4.2	5.4	1973/74	5,328,375	181,399	3.5	3.7
1929/30	841,395	35,086	4.4	5.7	1974/75	5,509,926	179,731	3.4	3.5
1930/31	887,884	36,489	4.3	4.3	1975/76	5,670,416	171,428	3.1	3.3
1931/32	916,452	38,568	4.3	4.4	1976/77	5,828,980	166,911	2.9	3.1
1932/33	947,043	30,591	3.3	4.0	1977/78	5,622,938	151,585	2.6	2.9
1933/34	978,212	31,169	3.3	3.7	1978/79	5,759,666	161,279	2.9	2.8
1934/35	1,011,938	34,155	3.5	3.4	1979/80	5,936,823	181,304	3.1	2.9
1935/36	1,052,684	40,746	4.0	3.6	1980/81	6,091,125	172,795	2.9	3.0
1936/37	1,086,212	33,528	3.2	3.6	1981/82	6,242,615	172,676	2.8	3.0
1937/38	1,130,584	43,298	4.0	3.7	1982/83	6,411,948	176,095	2.8	2.9
1938/39	1,175,692	45,108	4.0	3.7	1983/84	6,615,550	210,130	3.3	3.0
1939/40	1,209,977	34,285	2.9	3.6					
1940/41	1,262,046	44,371	3.7	3.5					
1941/42	1,306,561	44,515	3.5	3.4					
1942/43	1,364,906	58,455	4.5	3.9					
1943/44	1,881,432	65,632	4.8	4.3					
1944/45	1,964,308	61,621	3.3	4.2					
1945/46	2,003,622	58,424	3.0	3.7					
1946/47	2,076,212	72,590	3.6	3.3					
1947/48	2,185,108	108,896	5.2	3.9					
1948/49	2,283,501	98,393	4.5	4.5					
1949/50	2,383,503	100,002	4.4	4.7					
1950/51	2,476,954	93,451	3.9	4.3					
1951/52	2,570,278	93,324	3.8	4.0					

INCREASE IN VOLUMES AT ILLINOIS

AS A PERCENT
1907/08-1983/84



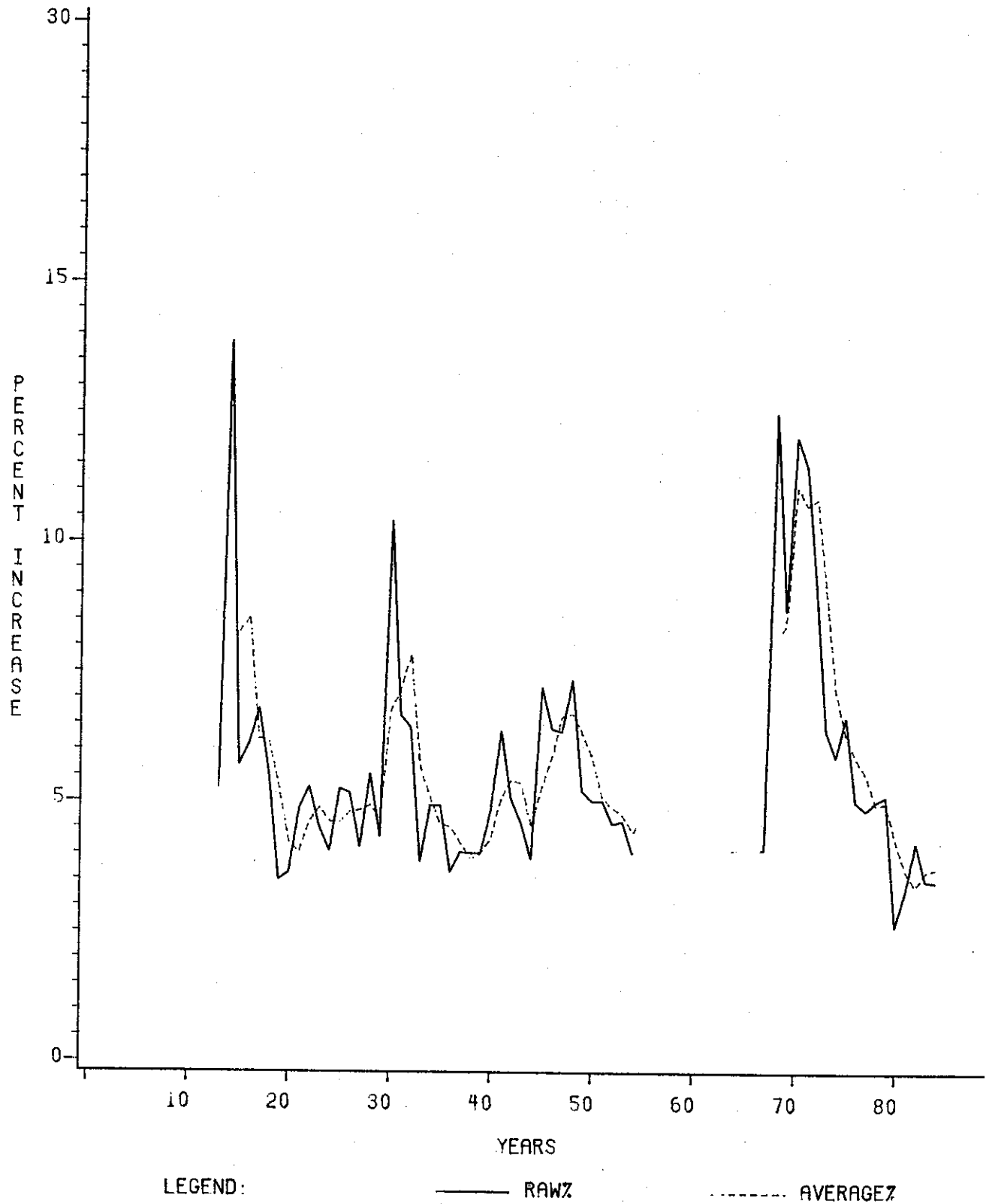
GROWTH AT INDIANA

INSTITUTION
NUMBER: 3600

YEAR	VOLUMES	VOLUMES ADDED	%	AVE. %	YEAR	VOLUMES	VOLUMES ADDED	%	AVE. %
1907/08	70,000	4,500	*	*	1952/53	910,076	40,271	4.6	4.7
1908/09	*	*	*	*	1953/54	946,599	36,523	4.0	4.4
1909/10	74,961	6,600	*	*	1954/55	976,909	*	*	*
1910/11	*	*	*	*	1955/56	1,059,850	*	*	*
1911/12	86,521	4,919	*	*	1956/57	1,106,299	*	*	*
1912/13	91,591	4,550	5.3	*	1957/58	1,190,566	*	*	*
1913/14	104,287	12,687	13.9	*	1958/59	1,258,038	*	*	*
1914/15	104,502	5,939	5.7	8.3	1959/60	1,317,269	*	*	*
1915/16	117,454	6,374	6.1	8.5	1960/61	1,414,286	*	*	*
1916/17	119,441	7,961	6.8	6.2	1961/62	1,828,992	*	*	*
1917/18	126,013	6,572	5.5	6.1	1962/63	1,787,194	*	*	*
1918/19	130,400	4,400	3.5	5.3	1963/64	1,653,469	*	*	*
1919/20	134,128	4,728	3.6	4.2	1964/65	1,771,900	*	*	*
1920/21	141,658	6,529	4.9	4.0	1965/66	1,943,256	*	*	*
1921/22	149,160	7,480	5.3	4.6	1966/67	1,889,874	79,324	4.1	*
1922/23	155,850	6,689	4.5	4.9	1967/68	2,316,197	235,911	12.5	*
1923/24	166,000	6,299	4.0	4.6	1968/69	2,457,097	200,910	8.7	8.4
1924/25	171,359	8,700	5.2	4.6	1969/70	2,752,562	295,465	12.0	11.1
1925/26	178,851	8,825	5.2	4.8	1970/71	3,067,117	314,555	11.4	10.7
1926/27	188,199	7,349	4.1	4.8	1971/72	3,344,141	277,638	9.1	10.8
1927/28	187,384	10,403	5.5	4.9	1972/73	3,532,029	212,814	6.4	8.9
1928/29	197,787	8,092	4.3	4.7	1973/74	3,665,076	206,910	5.9	7.1
1929/30	218,344	20,588	10.4	6.8	1974/75	3,891,379	243,350	6.6	6.3
1930/31	218,800	14,500	6.6	7.1	1975/76	4,220,978	194,552	5.0	5.8
1931/32	247,320	14,034	6.4	7.8	1976/77	4,399,020	204,104	4.8	5.5
1932/33	256,786	9,480	3.8	5.6	1977/78	4,604,395	220,780	5.0	5.0
1933/34	269,438	12,664	4.9	5.1	1978/79	5,029,534	235,210	5.1	5.0
1934/35	282,656	13,237	4.9	4.6	1979/80	3,759,203	131,476	2.6	4.2
1935/36	292,894	10,294	3.6	4.5	1980/81	3,856,121	123,413	3.3	3.7
1936/37	304,575	11,806	4.0	4.2	1981/82	3,993,390	162,884	4.2	3.4
1937/38	316,776	12,201	4.0	3.9	1982/83	4,105,734	139,064	3.5	3.7
1938/39	329,451	12,675	4.0	4.0	1983/84	4,241,777	141,978	3.5	3.7
1939/40	349,765	15,900	4.8	4.3					
1940/41	437,009	22,234	6.4	5.1					
1941/42	436,183	22,046	5.0	5.4					
1942/43	478,340	20,005	4.6	5.3					
1943/44	485,329	18,633	3.9	4.5					
1944/45	590,036	35,000	7.2	5.2					
1945/46	618,000	37,724	6.4	5.8					
1946/47	703,944	39,122	6.3	6.6					
1947/48	755,727	51,763	7.4	6.7					
1948/49	800,329	39,212	5.2	6.3					
1949/50	796,797	40,000	5.0	5.8					
1950/51	831,755	40,000	5.0	5.1					
1951/52	869,805	38,050	4.6	4.9					

INCREASE IN VOLUMES AT INDIANA

AS A PERCENT
1907/08-1983/84



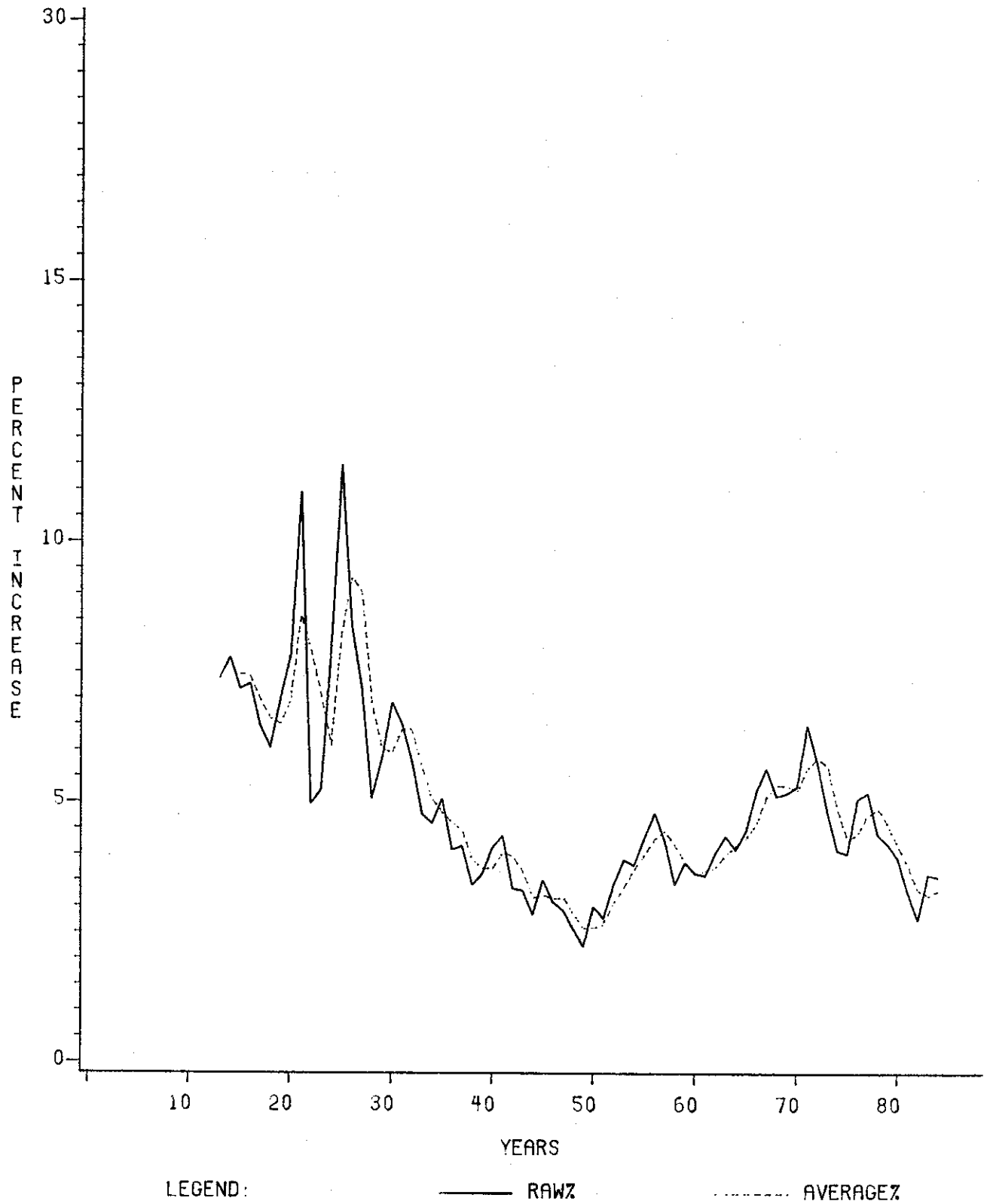
GROWTH AT IOWA

INSTITUTION
NUMBER: 3700

YEAR	VOLUMES				YEAR	VOLUMES			
	VOLUMES	ADDED	%	AVE.		VOLUMES	ADDED	%	AVE.
1907/08	72,300	5,176	*	*	1952/53	800,252	30,041	3.9	3.4
1908/09	*	*	*	*	1953/54	826,838	30,216	3.8	3.7
1909/10	80,100	6,004	*	*	1954/55	860,585	35,569	4.3	4.0
1910/11	*	*	*	*	1955/56	898,041	41,218	4.8	4.3
1911/12	108,947	8,239	*	*	1956/57	931,816	38,152	4.2	4.4
1912/13	103,000	8,039	7.4	*	1957/58	959,934	31,889	3.4	4.2
1913/14	107,250	8,002	7.8	*	1958/59	988,732	36,831	3.8	3.8
1914/15	114,895	7,688	7.2	7.4	1959/60	1,021,441	35,837	3.6	3.6
1915/16	140,925	8,347	7.3	7.4	1960/61	1,056,508	36,579	3.6	3.7
1916/17	149,140	9,080	6.4	7.0	1961/62	1,096,996	42,413	4.0	3.7
1917/18	159,251	9,000	6.0	6.6	1962/63	1,131,845	47,715	4.3	4.0
1918/19	170,365	11,114	7.0	6.5	1963/64	1,168,168	46,259	4.1	4.2
1919/20	184,959	13,294	7.8	6.9	1964/65	1,226,254	51,864	4.4	4.3
1920/21	200,583	20,246	10.9	8.6	1965/66	1,284,836	63,762	5.2	4.6
1921/22	183,629	9,956	5.0	7.9	1966/67	1,354,178	72,385	5.6	5.1
1922/23	192,924	9,595	5.2	7.0	1967/68	1,389,108	69,300	5.1	5.3
1923/24	207,851	15,500	8.0	6.1	1968/69	1,420,321	71,705	5.2	5.3
1924/25	231,469	23,850	11.5	8.2	1969/70	1,491,759	75,183	5.3	5.2
1925/26	250,363	19,381	8.4	9.3	1970/71	1,584,865	96,540	6.5	5.6
1926/27	266,132	17,965	7.2	9.0	1971/72	1,672,927	91,218	5.8	5.8
1927/28	279,575	13,444	5.1	6.9	1972/73	1,747,405	80,487	4.8	5.7
1928/29	295,794	16,219	5.8	6.0	1973/74	1,812,942	71,015	4.1	4.9
1929/30	314,502	20,411	6.9	5.9	1974/75	1,879,255	72,615	4.0	4.3
1930/31	333,092	20,337	6.5	6.4	1975/76	1,965,214	94,977	5.1	4.4
1931/32	352,192	19,100	5.7	6.4	1976/77	2,055,581	101,933	5.2	4.7
1932/33	366,212	16,746	4.8	5.7	1977/78	2,136,899	89,905	4.4	4.9
1933/34	380,665	16,779	4.6	5.0	1978/79	2,216,970	89,522	4.2	4.6
1934/35	390,490	19,258	5.1	4.8	1979/80	2,295,266	87,154	3.9	4.2
1935/36	411,889	15,965	4.1	4.6	1980/81	2,356,096	74,813	3.3	3.8
1936/37	428,144	17,081	4.1	4.4	1981/82	2,412,577	64,437	2.7	3.3
1937/38	441,396	14,595	3.4	3.9	1982/83	2,494,680	87,282	3.6	3.2
1938/39	455,704	15,923	3.6	3.7	1983/84	2,578,059	88,818	3.6	3.3
1939/40	473,238	18,816	4.1	3.7					
1940/41	492,819	20,602	4.4	4.0					
1941/42	507,644	16,451	3.3	3.9					
1942/43	522,852	16,739	3.3	3.7					
1943/44	537,667	14,815	2.8	3.2					
1944/45	555,879	18,846	3.5	3.2					
1945/46	665,930	17,043	3.1	3.1					
1946/47	676,464	19,396	2.9	3.2					
1947/48	693,831	17,276	2.6	2.8					
1948/49	619,066	15,442	2.2	2.6					
1949/50	633,057	18,497	3.0	2.6					
1950/51	649,282	17,521	2.8	2.7					
1951/52	773,205	22,205	3.4	3.1					

INCREASE IN VOLUMES AT IOWA

AS A PERCENT
1907/08-1983/84



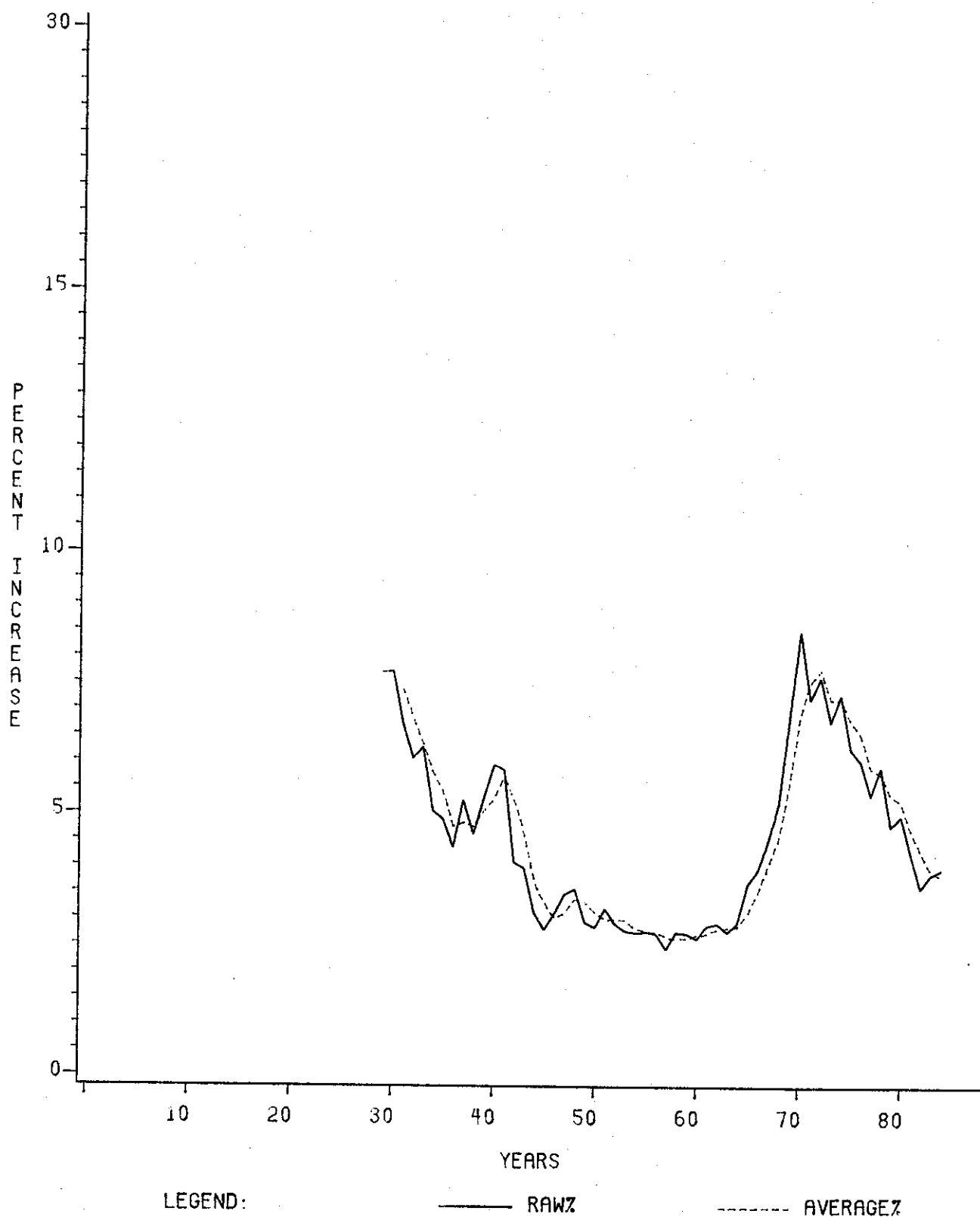
GROWTH AT IOWA STATE

INSTITUTION
NUMBER: 3800

YEAR	VOLUMES			AVE.		YEAR	VOLUMES			AVE.	
	VOLUMES	ADDED	%	%	%		VOLUMES	ADDED	%	%	%
1927/28	157,070	13,303	*	*		1972/73	946,100	60,219	6.8	7.2	
1928/29	168,780	12,081	7.7	*		1973/74	1,008,643	68,699	7.3	7.2	
1929/30	181,056	13,020	7.7	*		1974/75	1,063,973	62,758	6.2	6.7	
1930/31	191,888	12,083	6.7	7.4		1975/76	1,121,772	63,742	6.0	6.5	
1931/32	202,950	11,590	6.0	6.8		1976/77	1,180,951	60,015	5.4	5.9	
1932/33	215,260	12,683	6.2	6.3		1977/78	1,248,822	69,588	5.9	5.7	
1933/34	225,526	10,812	5.0	5.8		1978/79	1,296,074	59,446	4.8	5.3	
1934/35	235,968	11,010	4.9	5.4		1979/80	1,349,909	64,326	5.0	5.2	
1935/36	245,115	10,256	4.3	4.8		1980/81	1,401,520	56,984	4.2	4.6	
1936/37	256,903	12,846	5.2	4.8		1981/82	1,447,350	50,271	3.6	4.3	
1937/38	268,043	11,826	4.6	4.7		1982/83	1,498,279	55,590	3.8	3.9	
1938/39	281,493	14,096	5.3	5.0		1983/84	1,553,830	59,158	3.9	3.8	
1939/40	300,780	16,671	5.9	5.3							
1940/41	313,715	17,515	5.8	5.7							
1941/42	324,821	12,706	4.1	5.3							
1942/43	336,362	12,825	3.9	4.6							
1943/44	345,706	10,432	3.1	3.7							
1944/45	354,742	9,607	2.8	3.3							
1945/46	364,796	10,947	3.1	3.0							
1946/47	376,946	12,606	3.5	3.1							
1947/48	390,371	13,425	3.6	3.4							
1948/49	401,759	11,388	2.9	3.3							
1949/50	413,103	11,345	2.8	3.1							
1950/51	423,385	13,126	3.2	3.0							
1951/52	427,655	12,260	2.9	3.0							
1952/53	435,997	11,745	2.7	2.9							
1953/54	443,065	11,873	2.7	2.8							
1954/55	451,444	12,205	2.8	2.7							
1955/56	460,693	12,248	2.7	2.7							
1956/57	470,927	11,105	2.4	2.6							
1957/58	483,261	12,912	2.7	2.6							
1958/59	495,684	13,072	2.7	2.6							
1959/60	507,720	12,958	2.6	2.7							
1960/61	518,647	14,503	2.9	2.7							
1961/62	528,003	15,065	2.9	2.8							
1962/63	536,759	14,468	2.7	2.8							
1963/64	549,680	15,658	2.9	2.9							
1964/65	567,127	20,091	3.7	3.1							
1965/66	586,687	22,215	3.9	3.5							
1966/67	611,155	26,310	4.5	4.0							
1967/68	680,027	31,620	5.2	4.5							
1968/69	724,553	46,493	6.8	5.5							
1969/70	776,243	61,509	8.5	6.8							
1970/71	831,034	55,740	7.2	7.5							
1971/72	891,309	63,092	7.6	7.8							

INCREASE IN VOLUMES AT IOWA STATE

AS A PERCENT
1907/08-1983/84



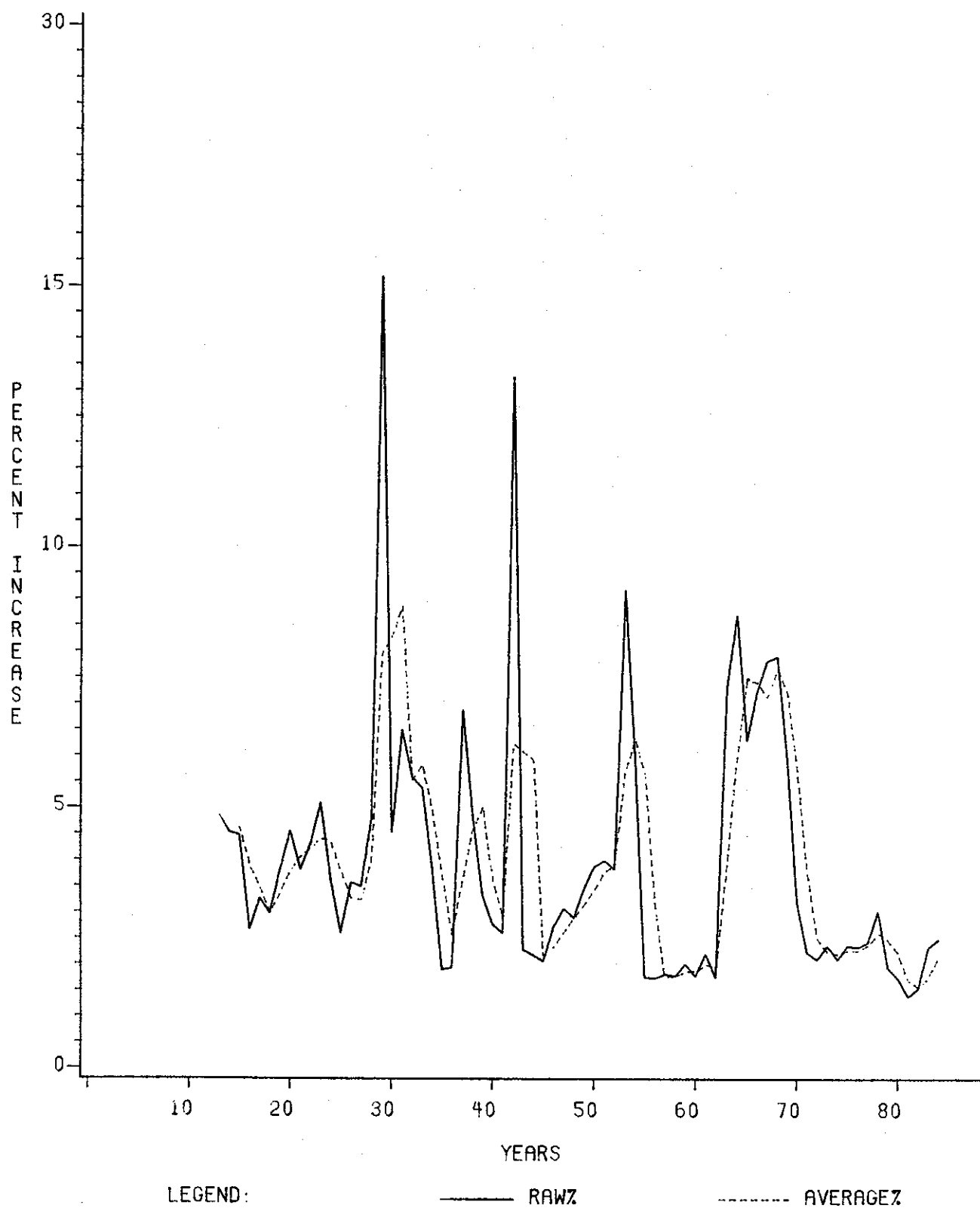
GROWTH AT JOHNS HOPKINS

INSTITUTION
NUMBER: 3900

YEAR	VOLUMES	VOLUMES ADDED	%	AVE. %	YEAR	VOLUMES	VOLUMES ADDED	%	AVE. %
1911/12	166,399	9,219	*	*	1956/57	1,095,674	19,408	1.8	1.8
1912/13	174,777	8,056	4.8	*	1957/58	1,118,438	19,387	1.8	1.8
1913/14	182,678	7,901	4.5	*	1958/59	1,140,867	22,429	2.0	1.9
1914/15	190,814	8,136	4.5	4.6	1959/60	1,159,747	20,190	1.8	1.8
1915/16	195,879	5,065	2.7	3.9	1960/61	1,185,246	25,499	2.2	2.0
1916/17	202,247	6,368	3.3	3.5	1961/62	1,207,246	20,601	1.7	1.9
1917/18	208,237	5,990	3.0	3.0	1962/63	1,262,532	87,988	7.3	3.7
1918/19	216,137	7,900	3.8	3.3	1963/64	1,323,358	109,637	8.7	5.9
1919/20	226,272	9,804	4.5	3.8	1964/65	1,399,700	83,140	6.3	7.4
1920/21	234,857	8,585	3.8	4.0	1965/66	1,500,510	100,998	7.2	7.4
1921/22	244,920	10,063	4.3	4.2	1966/67	1,617,696	117,186	7.8	7.1
1922/23	257,377	12,457	5.1	4.4	1967/68	1,767,383	127,654	7.9	7.6
1923/24	266,637	9,272	3.6	4.3	1968/69	1,869,671	103,571	5.9	7.2
1924/25	273,527	6,890	2.6	3.8	1969/70	1,928,752	59,081	3.2	5.6
1925/26	283,242	9,715	3.6	3.2	1970/71	1,969,133	42,462	2.2	3.7
1926/27	293,067	9,825	3.5	3.2	1971/72	1,993,113	41,039	2.1	2.5
1927/28	307,016	14,013	4.8	3.9	1972/73	2,059,780	46,904	2.4	2.2
1928/29	354,774	47,758	15.6	7.9	1973/74	2,006,145	43,020	2.1	2.2
1929/30	376,775	15,992	4.5	8.3	1974/75	2,049,722	46,951	2.3	2.3
1930/31	401,215	24,440	6.5	8.8	1975/76	2,092,858	47,574	2.3	2.2
1931/32	423,501	22,286	5.6	5.5	1976/77	2,101,525	50,677	2.4	2.4
1932/33	446,206	22,705	5.4	5.8	1977/78	2,218,303	62,900	3.0	2.6
1933/34	463,260	17,054	3.8	4.9	1978/79	2,287,058	42,638	1.9	2.4
1934/35	472,024	8,764	1.9	3.7	1979/80	2,321,935	39,547	1.7	2.2
1935/36	481,163	9,139	1.9	2.5	1980/81	2,346,131	31,922	1.4	1.7
1936/37	510,675	33,013	6.9	3.6	1981/82	2,369,926	36,101	1.5	1.5
1937/38	535,243	24,568	4.8	4.5	1982/83	2,393,572	54,996	2.3	1.7
1938/39	552,850	17,607	3.3	5.0	1983/84	2,432,253	59,300	2.5	2.1
1939/40	568,064	15,214	2.8	3.6					
1940/41	582,747	14,683	2.6	2.9					
1941/42	663,581	77,238	13.3	6.2					
1942/43	689,024	15,039	2.3	6.0					
1943/44	703,912	14,888	2.2	5.9					
1944/45	718,259	14,347	2.0	2.2					
1945/46	737,760	19,501	2.7	2.3					
1946/47	760,271	22,511	3.1	2.6					
1947/48	781,701	21,834	2.9	2.9					
1948/49	808,579	26,878	3.4	3.1					
1949/50	839,804	31,225	3.9	3.4					
1950/51	873,116	33,312	4.0	3.8					
1951/52	906,300	33,200	3.8	3.9					
1952/53	989,390	83,071	9.2	5.6					
1953/54	1,048,102	58,712	5.9	6.3					
1954/55	1,068,363	18,161	1.7	5.6					
1955/56	1,076,266	18,437	1.7	3.1					

INCREASE IN VOLUMES AT JOHNS HOPKINS

AS A PERCENT
1907/08-1983/84



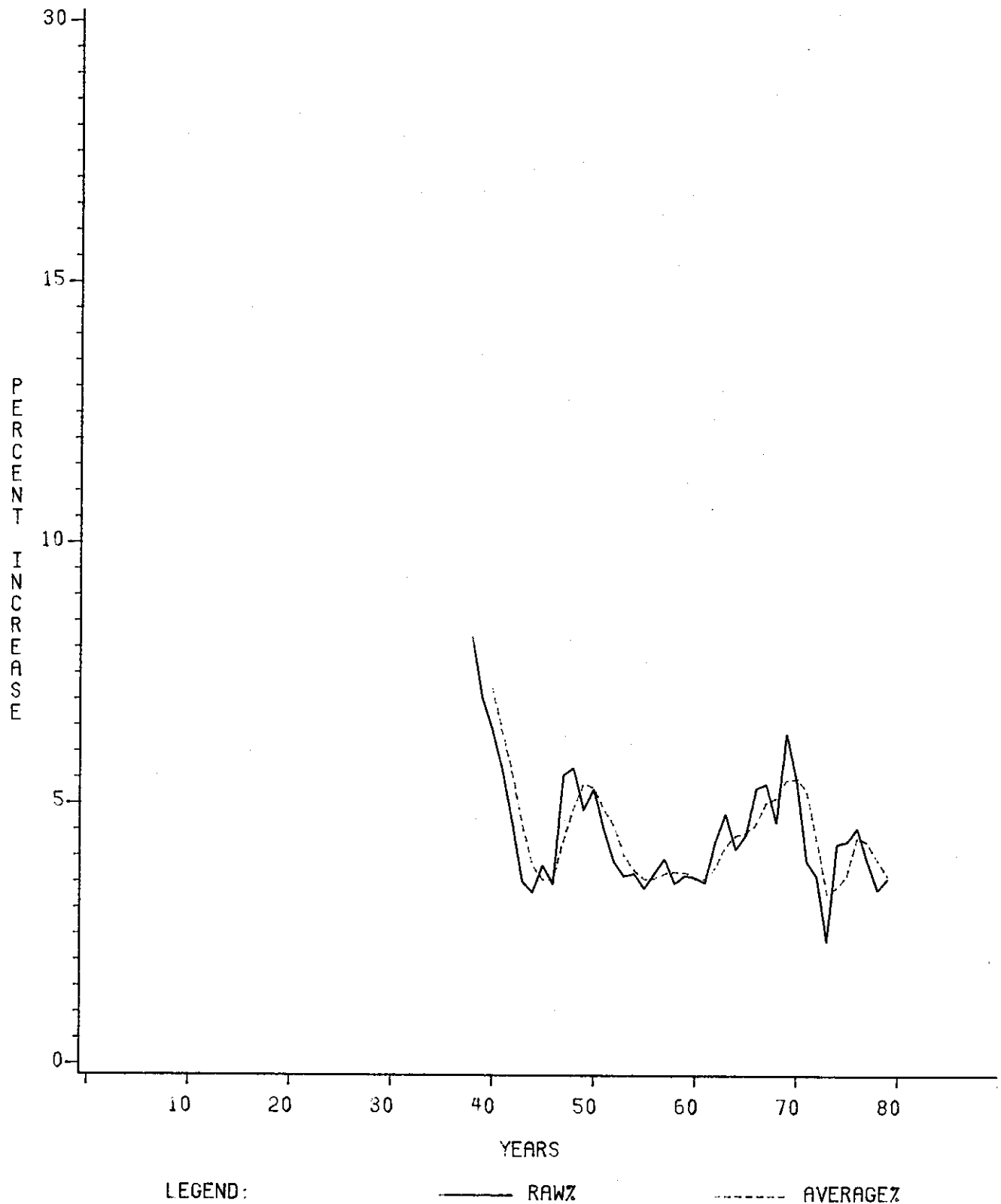
GROWTH AT THE JOINT UNIVERSITY LIBRARIES

INSTITUTION
NUMBER: 4000

YEAR	VOLUMES	VOLUMES ADDED	%	AVE. %
1936/37	301,033	21,512	*	*
1937/38	323,557	24,672	8.2	*
1938/39	354,767	22,720	7.0	*
1939/40	374,340	22,741	6.4	7.2
1940/41	391,524	21,108	5.6	6.4
1941/42	409,626	18,102	4.6	5.6
1942/43	423,953	14,327	3.5	4.6
1943/44	437,924	13,971	3.3	3.8
1944/45	454,626	16,702	3.8	3.5
1945/46	470,365	15,739	3.5	3.5
1946/47	489,089	26,083	5.5	4.3
1947/48	515,853	27,788	5.7	4.9
1948/49	539,726	25,161	4.9	5.4
1949/50	567,072	28,514	5.3	5.3
1950/51	589,765	25,508	4.5	4.9
1951/52	611,385	22,904	3.9	4.6
1952/53	632,091	22,099	3.6	4.0
1953/54	655,274	23,183	3.7	3.7
1954/55	666,518	22,142	3.4	3.6
1955/56	685,154	24,484	3.7	3.6
1956/57	708,752	27,073	4.0	3.7
1957/58	733,568	24,616	3.5	3.7
1958/59	760,159	26,591	3.6	3.7
1959/60	785,282	27,243	3.6	3.6
1960/61	809,867	27,388	3.5	3.6
1961/62	841,305	34,600	4.3	3.8
1962/63	881,685	40,380	4.8	4.2
1963/64	916,138	36,351	4.1	4.4
1964/65	947,941	40,370	4.4	4.4
1965/66	995,839	50,340	5.3	4.6
1966/67	1,047,472	53,470	5.4	5.0
1967/68	1,006,209	48,623	4.6	5.1
1968/69	1,055,755	63,826	6.3	5.5
1969/70	1,256,386	57,676	5.5	5.5
1970/71	1,301,391	48,778	3.9	5.2
1971/72	1,197,932	46,931	3.6	4.3
1972/73	1,220,122	28,266	2.4	3.3
1973/74	1,259,447	51,632	4.2	3.4
1974/75	1,301,631	53,888	4.3	3.6
1975/76	1,336,477	58,889	4.5	4.3
1976/77	1,370,999	52,136	3.9	4.2
1977/78	1,405,293	45,848	3.3	3.9
1978/79	1,449,616	50,148	3.6	3.6

INCREASE IN VOLUMES AT JOINT UNIVERSITY

AS A PERCENT
1907/08 - 1983/84



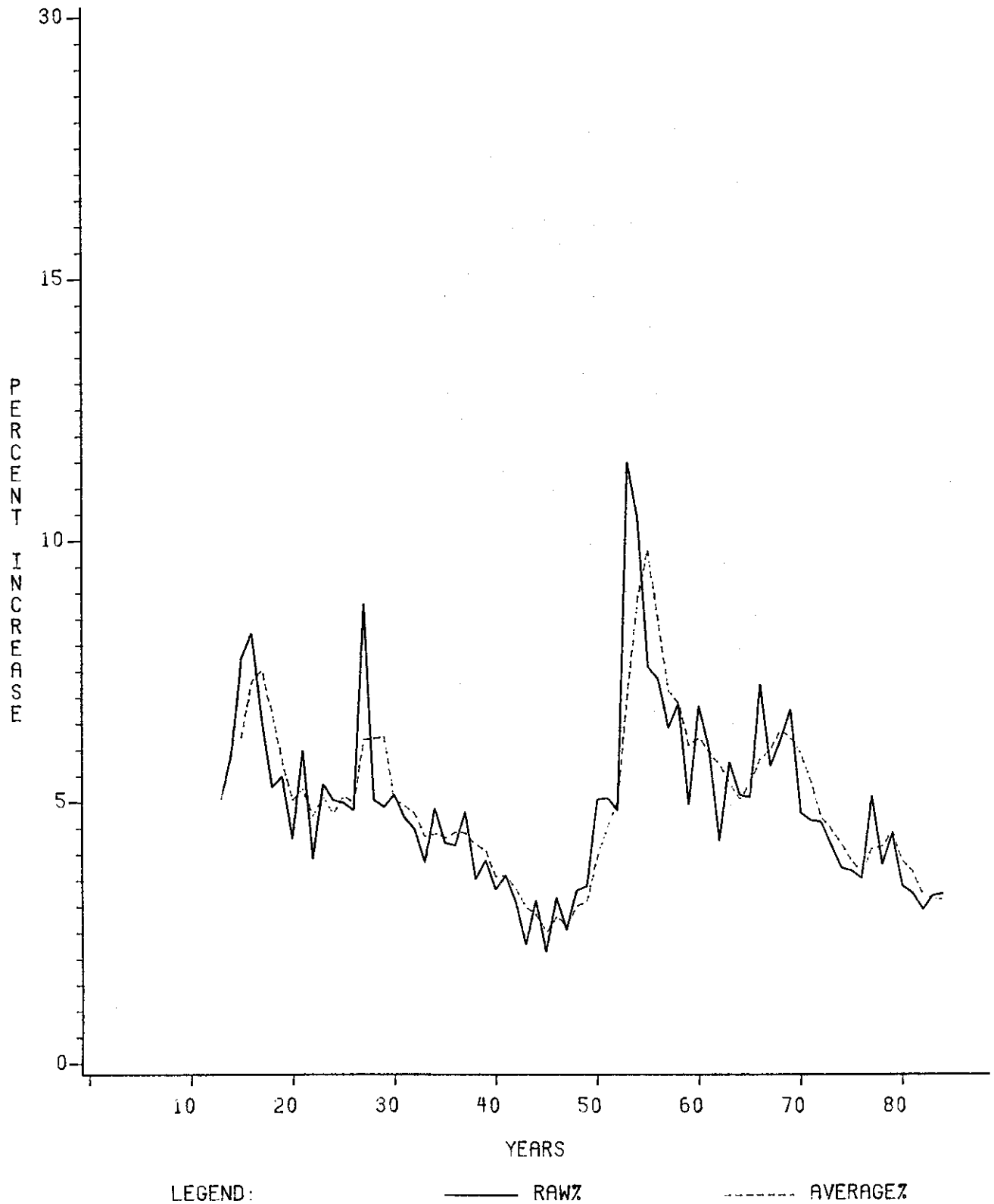
GROWTH AT KANSAS

INSTITUTION
NUMBER: 4100

YEAR	VOLUMES	VOLUMES ADDED	%	AVE. %	YEAR	VOLUMES	VOLUMES ADDED	%	AVE. %
1907/08	62,340	5,265	*	*	1952/53	580,930	60,054	11.5	7.1
1908/09	*	*	*	*	1953/54	601,192	60,416	10.4	8.9
1909/10	70,000	4,000	*	*	1954/55	646,118	45,505	7.6	9.8
1910/11	*	*	*	*	1955/56	691,882	47,475	7.3	8.4
1911/12	81,214	5,000	*	*	1956/57	734,966	44,418	6.4	7.1
1912/13	86,235	4,121	5.1	*	1957/58	782,652	50,567	6.9	6.9
1913/14	92,193	5,102	5.9	*	1958/59	820,295	38,659	4.9	6.1
1914/15	101,940	7,162	7.8	6.3	1959/60	874,999	56,018	6.8	6.2
1915/16	110,341	8,401	8.2	7.3	1960/61	925,784	52,633	6.0	5.9
1916/17	117,598	7,257	6.6	7.5	1961/62	962,846	39,479	4.3	5.7
1917/18	123,817	6,219	5.3	6.7	1962/63	1,018,347	55,501	5.8	5.3
1918/19	130,632	6,815	5.5	5.8	1963/64	1,069,157	52,230	5.1	5.1
1919/20	136,260	5,628	4.3	5.0	1964/65	1,122,158	54,417	5.1	5.3
1920/21	144,429	8,169	6.0	5.3	1965/66	1,201,615	81,410	7.3	5.8
1921/22	150,104	5,675	3.9	4.7	1966/67	1,266,745	68,201	5.7	6.0
1922/23	158,842	8,029	5.3	5.1	1967/68	1,344,739	78,144	6.2	6.4
1923/24	167,500	8,000	5.0	4.8	1968/69	1,434,344	90,964	6.8	6.2
1924/25	175,687	8,355	5.0	5.1	1969/70	1,500,073	68,514	4.8	5.9
1925/26	184,204	8,517	4.8	5.0	1970/71	1,568,807	69,604	4.6	5.4
1926/27	191,907	16,220	8.8	6.2	1971/72	1,639,070	72,377	4.6	4.7
1927/28	201,586	9,679	5.0	6.2	1972/73	1,684,307	68,198	4.2	4.5
1928/29	212,000	9,925	4.9	6.3	1973/74	1,745,755	62,854	3.7	4.2
1929/30	231,940	10,910	5.1	5.0	1974/75	1,799,947	64,365	3.7	3.9
1930/31	236,148	10,908	4.7	4.9	1975/76	1,618,306	63,873	3.5	3.7
1931/32	246,737	10,589	4.5	4.8	1976/77	1,962,539	82,804	5.1	4.1
1932/33	256,221	9,484	3.8	4.3	1977/78	1,995,890	74,670	3.8	4.2
1933/34	257,874	12,527	4.9	4.4	1978/79	2,079,434	87,612	4.4	4.4
1934/35	268,204	10,899	4.2	4.3	1979/80	2,148,451	70,448	3.4	3.9
1935/36	278,467	11,171	4.2	4.4	1980/81	2,214,824	69,840	3.3	3.7
1936/37	291,892	13,425	4.8	4.4	1981/82	2,251,917	65,125	2.9	3.2
1937/38	300,376	10,284	3.5	4.2	1982/83	2,323,678	72,575	3.2	3.1
1938/39	309,777	11,665	3.9	4.1	1983/84	2,398,702	75,370	3.2	3.1
1939/40	320,082	10,305	3.3	3.6					
1940/41	331,108	11,520	3.6	3.6					
1941/42	339,913	10,215	3.1	3.3					
1942/43	346,550	7,751	2.3	3.0					
1943/44	357,403	10,853	3.1	2.8					
1944/45	364,673	7,648	2.1	2.5					
1945/46	372,861	11,609	3.2	2.8					
1946/47	382,117	9,548	2.6	2.6					
1947/48	393,794	12,709	3.3	3.0					
1948/49	406,522	13,402	3.4	3.1					
1949/50	424,505	20,544	5.1	3.9					
1950/51	466,747	21,598	5.1	4.5					
1951/52	522,105	22,540	4.8	5.0					

INCREASE IN VOLUMES AT KANSAS

AS A PERCENT
1907/08-1983/84



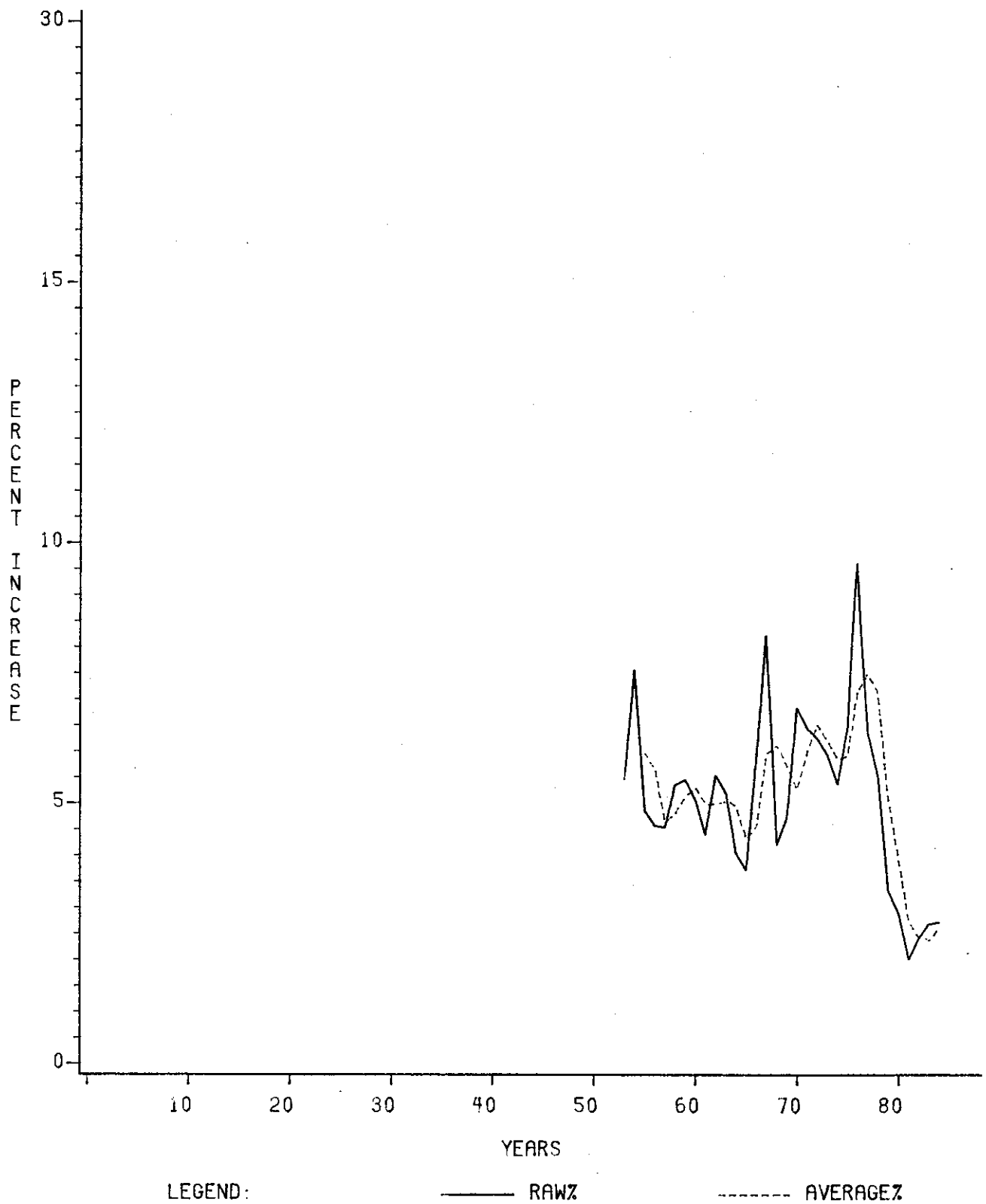
GROWTH AT KENTUCKY

INSTITUTION
NUMBER: 4300

YEAR	VOLUMES	VOLUMES ADDED	%	AVE. %
1951/52	558,442	30,685	*	*
1952/53	588,221	30,450	5.5	*
1953/54	650,740	44,433	7.6	*
1954/55	681,749	31,470	4.8	5.9
1955/56	712,612	31,063	4.6	5.6
1956/57	743,871	32,234	4.5	4.6
1957/58	783,451	39,805	5.4	4.8
1958/59	826,130	42,679	5.4	5.1
1959/60	867,330	41,777	5.1	5.3
1960/61	904,757	38,064	4.4	5.0
1961/62	954,102	50,004	5.5	5.0
1962/63	1,003,158	49,441	5.2	5.0
1963/64	1,033,247	40,437	4.0	4.9
1964/65	1,069,908	38,345	3.7	4.3
1965/66	1,131,070	63,135	5.9	4.5
1966/67	1,222,730	92,830	8.2	5.9
1967/68	969,360	51,340	4.2	6.1
1968/69	1,115,711	45,605	4.7	5.7
1969/70	1,187,617	76,161	6.8	5.2
1970/71	1,153,774	76,140	6.4	6.0
1971/72	1,216,049	71,823	6.2	6.5
1972/73	1,280,572	71,781	5.9	6.2
1973/74	1,344,358	68,392	5.3	5.8
1974/75	1,426,810	86,662	6.4	5.9
1975/76	1,555,537	136,952	9.6	7.1
1976/77	1,640,420	98,333	6.3	7.5
1977/78	1,706,653	90,200	5.5	7.1
1978/79	1,753,044	56,333	3.3	5.0
1979/80	1,792,048	50,486	2.9	3.9
1980/81	1,816,782	35,909	2.0	2.7
1981/82	1,854,088	43,573	2.4	2.4
1982/83	1,894,632	49,749	2.7	2.4
1983/84	1,928,058	51,523	2.7	2.6

INCREASE IN VOLUMES AT KENTUCKY

AS A PERCENT
1907/08-1983/84



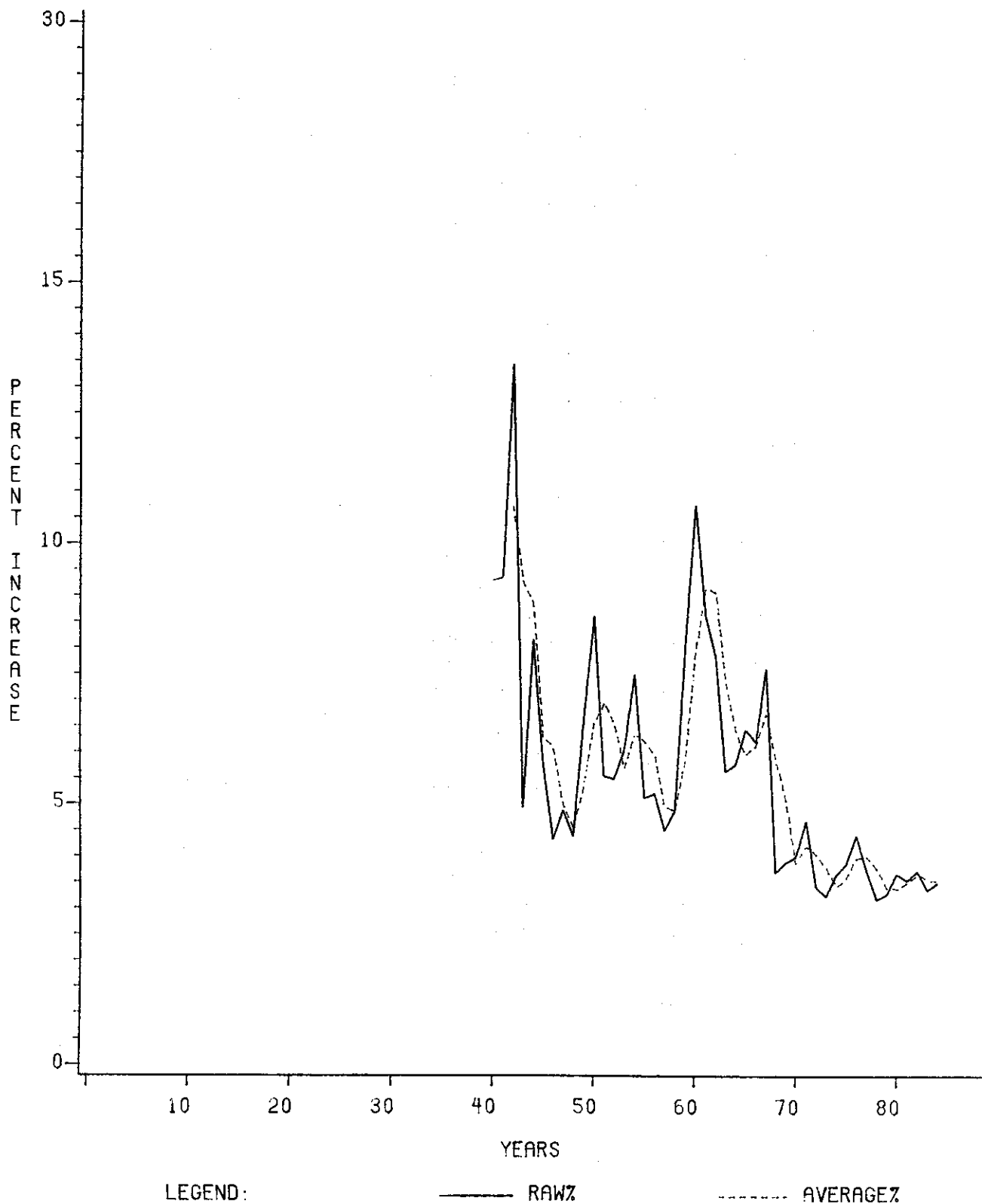
GROWTH AT LOUISIANA STATE

INSTITUTION
NUMBER: 4400

YEAR	VOLUMES	VOLUMES ADDED	%	AVE. %	YEAR	VOLUMES	VOLUMES ADDED	%	AVE. %
1938/39	247,376	31,242	*	*	1983/84	2,084,449	70,681	3.5	3.5
1939/40	269,728	23,027	9.3	*					
1940/41	293,871	25,235	9.4	*					
1941/42	333,372	39,501	13.4	10.7					
1942/43	344,237	16,505	5.0	9.2					
1943/44	372,702	28,103	8.2	8.9					
1944/45	402,024	21,502	5.8	6.3					
1945/46	416,108	17,423	4.3	6.1					
1946/47	435,478	20,343	4.9	5.0					
1947/48	343,151	19,095	4.4	4.5					
1948/49	364,742	22,881	6.7	5.3					
1949/50	395,628	31,431	8.6	6.6					
1950/51	416,871	21,935	5.5	6.9					
1951/52	438,592	22,876	5.5	6.5					
1952/53	463,418	26,415	6.0	5.7					
1953/54	625,813	34,683	7.5	6.3					
1954/55	656,639	32,108	5.1	6.2					
1955/56	690,529	34,204	5.2	5.9					
1956/57	715,932	31,041	4.5	4.9					
1957/58	749,826	34,907	4.9	4.9					
1958/59	805,002	60,656	8.1	5.8					
1959/60	889,917	86,433	10.7	7.9					
1960/61	966,496	76,579	8.6	9.1					
1961/62	1,042,218	75,722	7.8	9.1					
1962/63	1,100,889	58,671	5.6	7.4					
1963/64	1,163,902	63,388	5.8	6.4					
1964/65	1,237,171	74,861	6.4	5.9					
1965/66	1,312,427	76,627	6.2	6.1					
1966/67	1,410,760	99,750	7.6	6.7					
1967/68	1,198,865	52,103	3.7	5.8					
1968/69	1,244,124	46,573	3.9	5.1					
1969/70	1,289,720	49,805	4.0	3.9					
1970/71	1,348,290	60,404	4.7	4.2					
1971/72	1,391,141	46,087	3.4	4.0					
1972/73	1,431,893	44,997	3.2	3.8					
1973/74	1,482,486	52,328	3.7	3.4					
1974/75	1,538,247	57,200	3.9	3.6					
1975/76	1,603,282	67,646	4.4	4.0					
1976/77	1,659,549	59,793	3.7	4.0					
1977/78	1,708,334	52,755	3.2	3.8					
1978/79	1,760,696	56,045	3.3	3.4					
1979/80	1,822,626	64,613	3.7	3.4					
1980/81	1,884,656	64,614	3.5	3.5					
1981/82	1,952,245	70,219	3.7	3.6					
1982/83	2,017,365	65,728	3.4	3.5					

INCREASE IN VOLUMES AT LOUISIANA STATE

AS A PERCENT
1907/08-1983/84



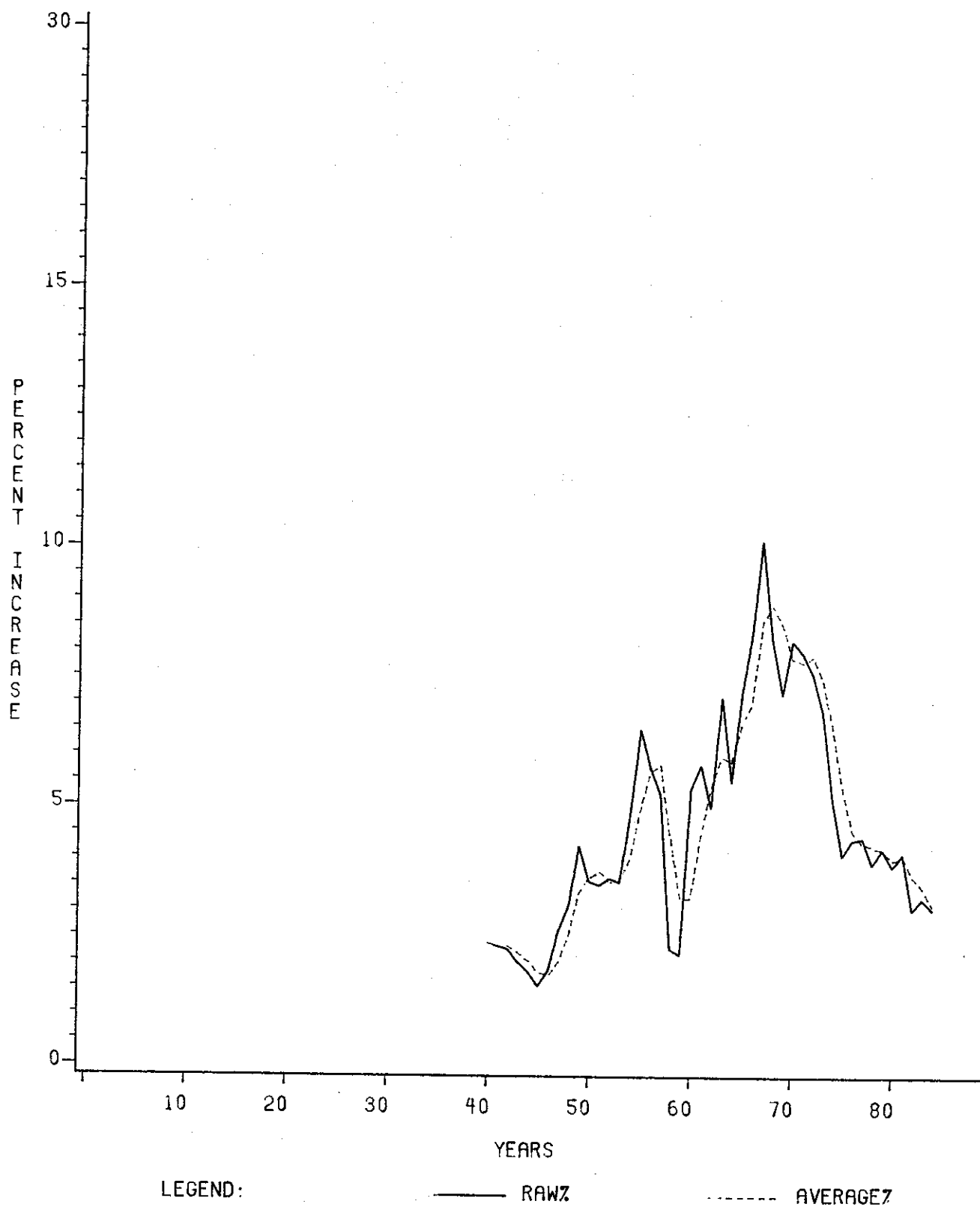
GROWTH AT THE MASSACHUSETTS INSTITUTE OF TECHNOLOGY

INSTITUTION
NUMBER: 4900

YEAR	VOLUMES	VOLUMES ADDED	%	AVE. %	YEAR	VOLUMES	VOLUMES ADDED	%	AVE. %
1938/39	340,089	8,082	*	*	1983/84	1,947,072	57,678	3.0	3.1
1939/40	348,103	8,014	2.4	*					
1940/41	356,077	7,974	2.3	*					
1941/42	364,022	7,945	2.2	2.3					
1942/43	371,270	7,248	2.0	2.2					
1943/44	377,962	6,692	1.8	2.0					
1944/45	383,738	5,776	1.5	1.8					
1945/46	390,718	6,980	1.8	1.7					
1946/47	405,444	10,130	2.6	2.0					
1947/48	417,680	12,458	3.1	2.5					
1948/49	435,154	17,673	4.2	3.3					
1949/50	450,479	15,438	3.5	3.6					
1950/51	465,639	15,623	3.5	3.7					
1951/52	482,448	16,809	3.6	3.5					
1952/53	499,453	17,045	3.5	3.5					
1953/54	523,213	23,760	4.8	4.0					
1954/55	557,120	33,907	6.5	4.9					
1955/56	588,835	31,864	5.7	5.7					
1956/57	619,619	30,784	5.2	5.8					
1957/58	633,531	13,912	2.2	4.4					
1958/59	647,018	13,572	2.1	3.2					
1959/60	704,955	34,496	5.3	3.2					
1960/61	745,767	40,812	5.8	4.4					
1961/62	805,818	37,041	5.0	5.4					
1962/63	885,947	57,137	7.1	5.9					
1963/64	896,513	48,506	5.5	5.8					
1964/65	959,212	64,367	7.2	6.6					
1965/66	900,468	79,723	8.3	7.0					
1966/67	988,194	91,112	10.1	8.5					
1967/68	1,064,500	80,810	8.2	8.9					
1968/69	1,133,912	76,169	7.2	8.5					
1969/70	1,221,202	92,717	8.2	7.8					
1970/71	1,314,100	97,000	7.9	7.8					
1971/72	1,383,492	99,127	7.5	7.9					
1972/73	1,468,560	94,226	6.8	7.4					
1973/74	1,527,594	75,384	5.1	6.5					
1974/75	1,573,183	61,884	4.1	5.3					
1975/76	1,620,041	68,712	4.4	4.5					
1976/77	1,669,840	71,305	4.4	4.3					
1977/78	1,709,747	64,914	3.9	4.2					
1978/79	1,759,971	71,388	4.2	4.2					
1979/80	1,797,623	67,660	3.8	4.0					
1980/81	1,844,451	73,673	4.1	4.0					
1981/82	1,869,173	55,643	3.0	3.7					
1982/83	1,906,374	60,414	3.2	3.4					

INCREASE IN VOLUMES AT MIT

AS A PERCENT
1907/08-1983/84



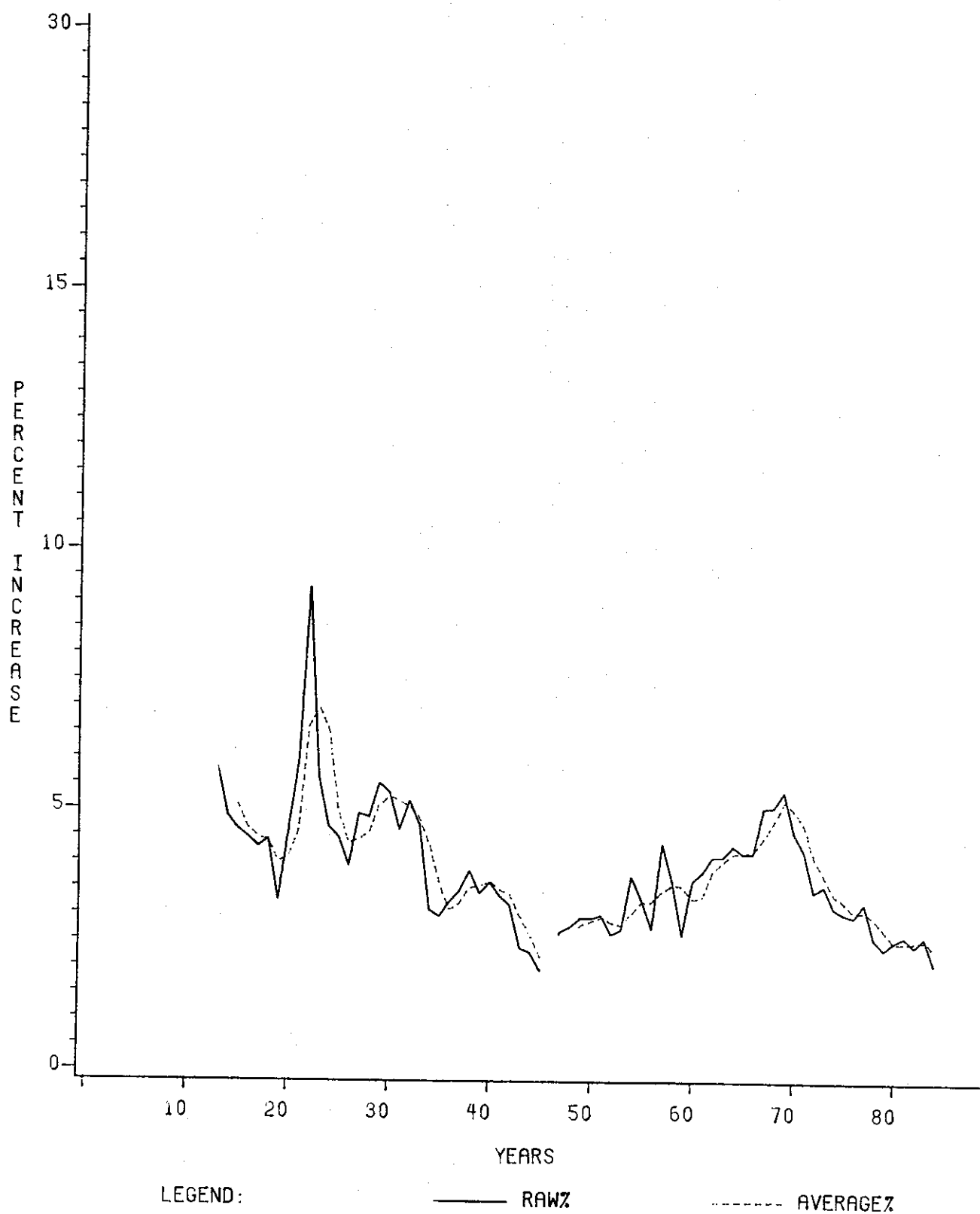
GROWTH AT MICHIGAN

INSTITUTION
NUMBER: 5100

YEAR	VOLUMES				YEAR	VOLUMES			
	VOLUMES	ADDED	%	AVE. %		VOLUMES	ADDED	%	AVE. %
1907/08	250,000	18,507	*	*	1952/53	1,550,914	41,214	2.7	2.8
1908/09	*	*	*	*	1953/54	2,304,434	58,211	3.8	3.0
1909/10	270,998	12,365	*	*	1954/55	2,325,294	75,724	3.3	3.3
1910/11	*	*	*	*	1955/56	2,411,628	63,661	2.7	3.3
1911/12	305,684	17,591	*	*	1956/57	2,532,849	105,384	4.4	3.5
1912/13	322,040	17,731	5.8	*	1957/58	2,624,468	92,561	3.7	3.6
1913/14	337,417	15,600	4.8	*	1958/59	2,690,313	68,523	2.6	3.5
1914/15	352,718	15,580	4.6	5.1	1959/60	2,818,341	98,291	3.7	3.3
1915/16	368,238	15,723	4.5	4.6	1960/61	2,912,936	107,952	3.8	3.4
1916/17	383,976	15,734	4.3	4.4	1961/62	3,049,715	119,976	4.1	3.9
1917/18	400,830	17,033	4.4	4.4	1962/63	3,133,503	125,756	4.1	4.0
1918/19	413,666	13,050	3.3	4.0	1963/64	3,224,063	135,894	4.3	4.2
1919/20	432,394	18,898	4.6	4.1	1964/65	3,409,982	134,811	4.2	4.2
1920/21	457,847	25,453	5.9	4.6	1965/66	3,516,355	142,859	4.2	4.2
1921/22	497,913	42,474	9.3	6.6	1966/67	3,643,869	178,406	5.1	4.5
1922/23	545,675	27,972	5.6	6.9	1967/68	3,816,394	185,421	5.1	4.8
1923/24	570,806	25,393	4.7	6.5	1968/69	4,009,184	205,100	5.4	5.2
1924/25	596,614	25,475	4.5	4.9	1969/70	4,175,686	183,748	4.6	5.0
1925/26	619,508	23,331	3.9	4.3	1970/71	4,312,093	176,963	4.2	4.7
1926/27	649,912	30,494	4.9	4.4	1971/72	4,313,777	148,826	3.5	4.1
1927/28	681,025	31,543	4.9	4.6	1972/73	4,443,752	154,156	3.6	3.8
1928/29	718,425	37,454	5.5	5.1	1973/74	4,548,527	139,669	3.1	3.4
1929/30	775,516	38,334	5.3	5.2	1974/75	4,668,188	137,857	3.0	3.2
1930/31	799,573	35,715	4.6	5.1	1975/76	4,790,805	138,999	3.0	3.1
1931/32	839,338	41,289	5.2	5.0	1976/77	4,917,381	155,000	3.2	3.1
1932/33	874,666	39,509	4.7	4.8	1977/78	5,049,501	125,901	2.6	2.9
1933/34	900,671	26,873	3.1	4.3	1978/79	5,135,952	119,465	2.4	2.7
1934/35	926,396	26,465	2.9	3.6	1979/80	5,234,380	129,046	2.5	2.5
1935/36	955,623	30,016	3.2	3.1	1980/81	5,345,918	136,571	2.6	2.5
1936/37	987,921	32,863	3.4	3.2	1981/82	5,481,172	128,911	2.4	2.5
1937/38	1,025,815	37,894	3.8	3.5	1982/83	5,597,266	142,708	2.6	2.5
1938/39	1,060,784	34,969	3.4	3.6	1983/84	5,661,789	115,645	2.1	2.4
1939/40	1,098,197	38,358	3.6	3.6					
1940/41	1,134,052	36,780	3.3	3.5					
1941/42	1,168,612	35,877	3.2	3.4					
1942/43	1,193,486	27,475	2.4	3.0					
1943/44	1,217,665	27,088	2.3	2.6					
1944/45	1,240,942	23,277	1.9	2.2					
1945/46	1,267,518	*	*	*					
1946/47	1,299,720	34,036	2.7	*					
1947/48	1,376,425	36,056	2.8	*					
1948/49	1,415,650	40,453	2.9	2.8					
1949/50	1,415,650	41,397	2.9	2.9					
1950/51	1,472,837	42,546	3.0	3.0					
1951/52	1,512,382	38,643	2.6	2.9					

INCREASE IN VOLUMES AT MICHIGAN

AS A PERCENT
1907/08-1983/84



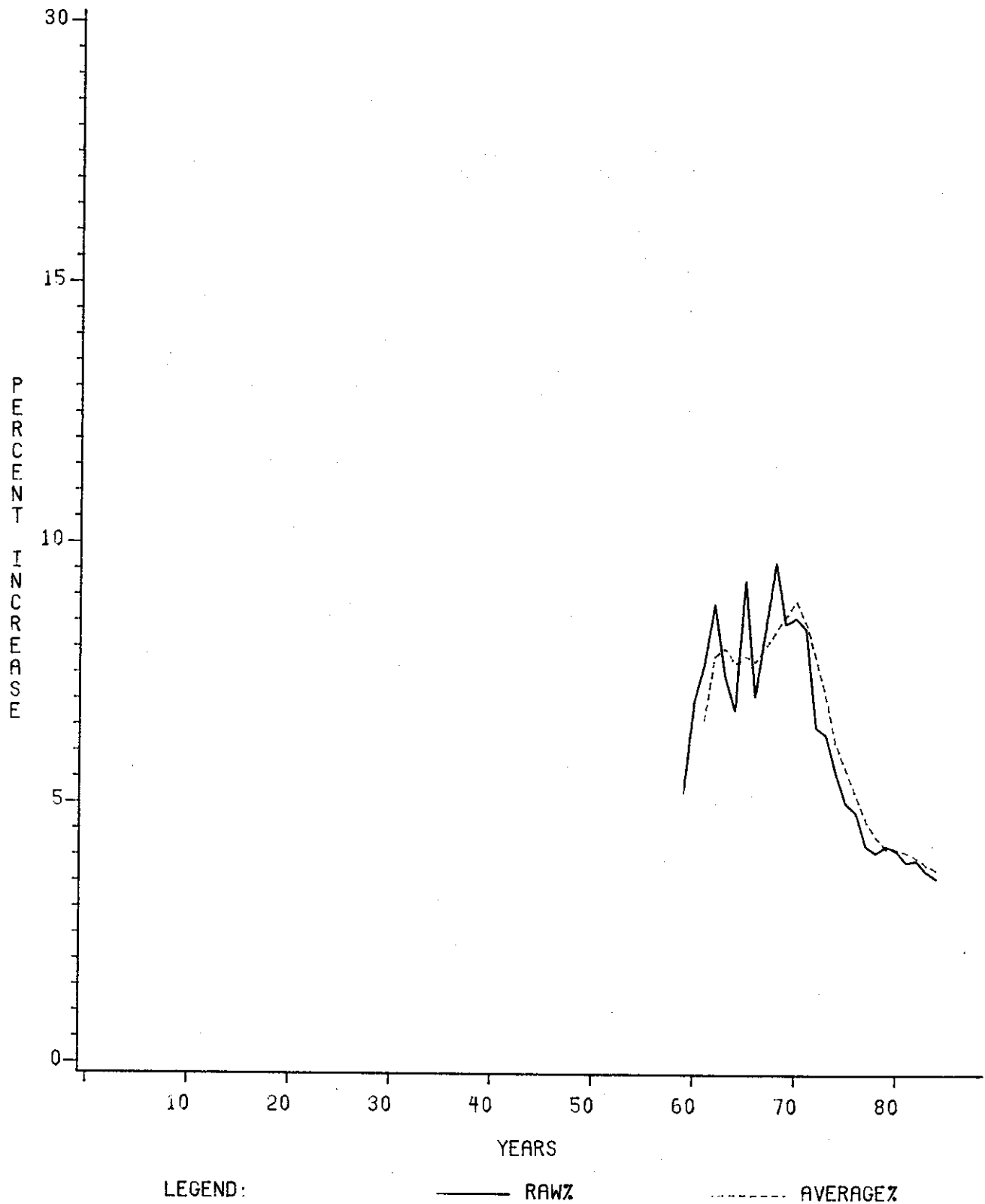
GROWTH AT MICHIGAN STATE

INSTITUTION
NUMBER: 5200

YEAR	VOLUMES	VOLUMES ADDED	%	AVE. %
1957/58	860,625	55,701	*	*
1958/59	720,322	44,821	5.2	*
1959/60	770,311	49,989	6.9	*
1960/61	825,410	59,212	7.7	6.6
1961/62	897,612	72,927	8.8	7.8
1962/63	960,355	66,770	7.4	8.0
1963/64	1,051,739	65,194	6.8	7.7
1964/65	1,146,000	97,660	9.3	7.8
1965/66	1,173,728	80,840	7.1	7.7
1966/67	1,283,262	*	*	*
1967/68	1,404,492	123,698	9.6	*
1968/69	1,511,914	118,508	8.4	*
1969/70	1,638,197	129,633	8.6	8.9
1970/71	1,759,942	136,823	8.4	8.5
1971/72	1,867,236	113,768	6.5	7.8
1972/73	1,981,976	118,077	6.3	7.0
1973/74	2,082,617	110,595	5.6	6.1
1974/75	2,102,452	104,146	5.0	5.6
1975/76	2,196,410	101,403	4.8	5.1
1976/77	2,325,795	91,760	4.2	4.7
1977/78	2,427,885	94,469	4.1	4.4
1978/79	2,523,553	101,898	4.2	4.1
1979/80	2,613,447	103,284	4.1	4.1
1980/81	2,707,779	101,118	3.9	4.1
1981/82	2,807,156	105,928	3.9	4.0
1982/83	2,898,698	103,774	3.7	3.8
1983/84	2,992,904	103,386	3.6	3.7

INCREASE IN VOLUMES AT MICHIGAN STATE

AS A PERCENT
1907/08-1983/84



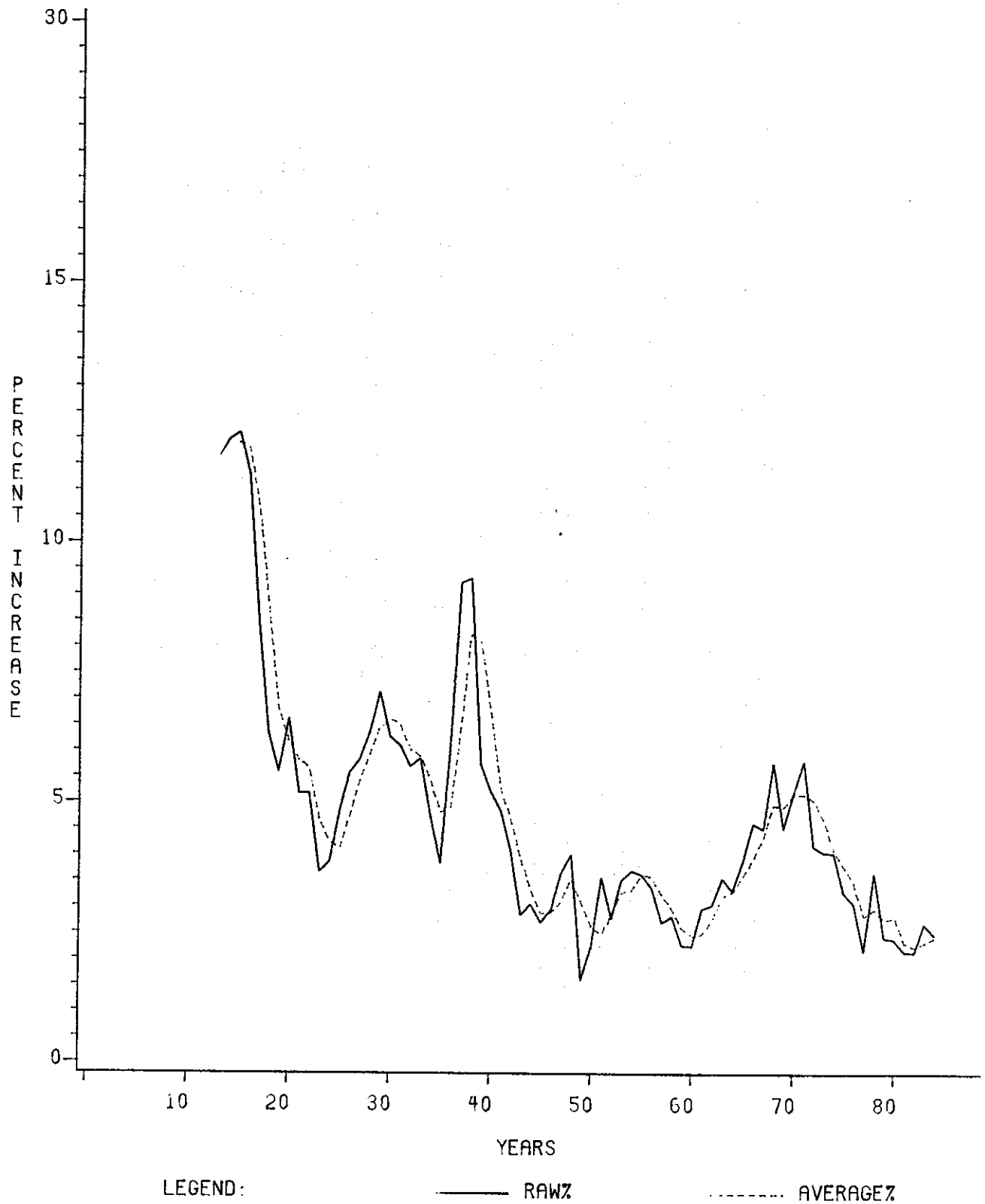
GROWTH AT MINNESOTA

INSTITUTION
NUMBER: 5300

YEAR	VOLUMES	VOLUMES ADDED	%	AVE. %	YEAR	VOLUMES	VOLUMES ADDED	%	AVE. %
1907/08	120,000	9,976	*	*	1952/53	1,688,640	57,903	3.5	3.3
1908/09	*	*	*	*	1953/54	1,763,728	62,450	3.7	3.3
1909/10	140,000	12,109	*	*	1954/55	1,791,047	63,705	3.6	3.6
1910/11	*	*	*	*	1955/56	1,841,437	60,264	3.4	3.6
1911/12	160,000	15,000	*	*	1956/57	1,868,566	49,543	2.7	3.2
1912/13	177,500	18,672	11.7	*	1957/58	1,905,678	52,798	2.8	3.0
1913/14	185,000	21,264	12.0	*	1958/59	1,937,495	42,938	2.3	2.6
1914/15	207,406	22,406	12.1	11.9	1959/60	1,968,101	43,227	2.2	2.4
1915/16	230,842	23,418	11.3	11.8	1960/61	2,020,594	58,580	3.0	2.5
1916/17	250,361	19,519	8.5	10.6	1961/62	2,072,285	61,423	3.0	2.7
1917/18	266,000	15,780	6.3	8.7	1962/63	2,220,811	73,627	3.6	3.2
1918/19	280,000	14,855	5.6	6.8	1963/64	2,291,459	73,542	3.3	3.3
1919/20	300,000	18,495	6.6	6.2	1964/65	2,381,212	88,896	3.9	3.6
1920/21	367,250	15,503	5.2	5.8	1965/66	2,480,097	109,758	4.6	3.9
1921/22	380,000	19,000	5.2	5.6	1966/67	2,559,244	111,527	4.5	4.3
1922/23	395,000	13,859	3.6	4.7	1967/68	2,691,202	147,881	5.8	5.0
1923/24	425,000	15,192	3.8	4.2	1968/69	2,805,040	121,334	4.5	4.9
1924/25	445,454	20,454	4.8	4.1	1969/70	2,944,844	145,651	5.2	5.2
1925/26	472,148	24,786	5.6	4.7	1970/71	3,112,526	171,324	5.8	5.2
1926/27	501,507	27,500	5.8	5.4	1971/72	3,245,740	129,638	4.2	5.1
1927/28	530,107	31,930	6.4	5.9	1972/73	3,360,644	131,448	4.0	4.7
1928/29	573,489	37,738	7.1	6.4	1973/74	3,479,139	135,669	4.0	4.1
1929/30	609,332	35,843	6.2	6.6	1974/75	3,559,511	113,825	3.3	3.8
1930/31	646,199	37,063	6.1	6.5	1975/76	3,662,739	109,256	3.1	3.5
1931/32	682,894	36,695	5.7	6.0	1976/77	3,363,576	79,591	2.2	2.8
1932/33	722,807	39,958	5.9	5.9	1977/78	3,623,461	123,456	3.7	3.0
1933/34	757,807	34,247	4.7	5.4	1978/79	3,702,599	87,705	2.4	2.8
1934/35	785,054	28,911	3.8	4.8	1979/80	3,807,570	88,621	2.4	2.8
1935/36	833,513	48,459	6.2	4.9	1980/81	3,870,712	82,138	2.2	2.3
1936/37	910,469	76,956	9.2	6.4	1981/82	3,945,397	82,937	2.1	2.2
1937/38	1,009,024	84,850	9.3	8.2	1982/83	4,037,478	106,352	2.7	2.3
1938/39	1,061,965	57,598	5.7	8.1	1983/84	4,127,798	99,563	2.5	2.4
1939/40	1,120,075	55,107	5.2	6.7					
1940/41	1,183,562	54,108	4.8	5.2					
1941/42	1,221,987	48,175	4.1	4.7					
1942/43	1,309,176	34,638	2.8	3.9					
1943/44	1,345,809	39,815	3.0	3.3					
1944/45	1,382,010	36,201	2.7	2.9					
1945/46	1,422,529	40,519	2.9	2.9					
1946/47	1,474,290	51,761	3.6	3.1					
1947/48	1,490,025	58,904	4.0	3.5					
1948/49	1,513,625	23,600	1.6	3.1					
1949/50	1,528,288	33,649	2.2	2.6					
1950/51	1,606,316	54,507	3.6	2.5					
1951/52	1,650,617	44,301	2.8	2.8					

INCREASE IN VOLUMES AT MINNESOTA

AS A PERCENT
1907/08 - 1983/84



GROWTH AT MISSOURI

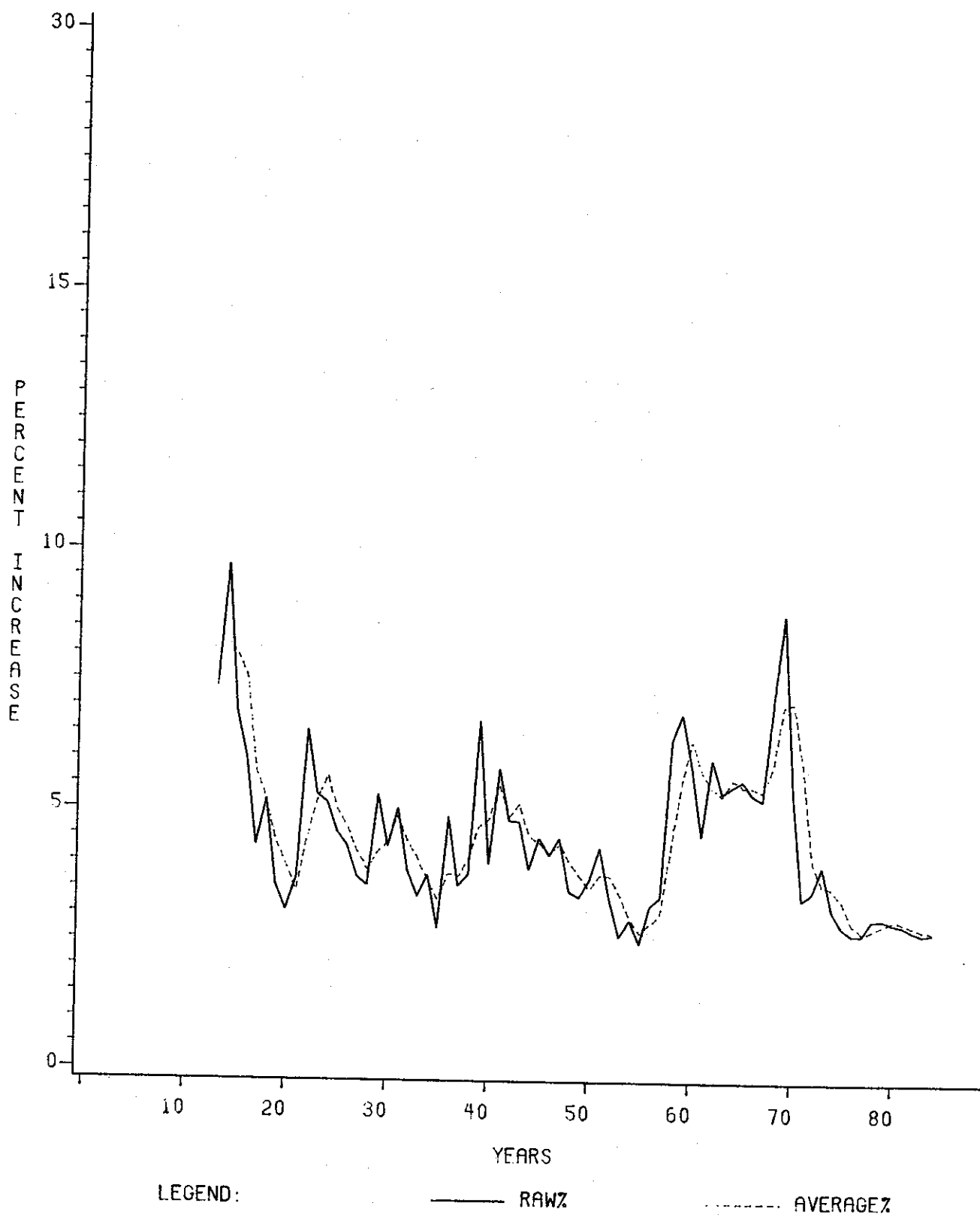
INSTITUTION

NUMBER: 5400

YEAR	VOLUMES	VOLUMES ADDED	%	AVE. %	YEAR	VOLUMES	VOLUMES ADDED	%	AVE. %
1907/08	101,563	9,013	*	*	1952/53	692,688	19,589	2.6	3.4
1908/09	*	*	*	*	1953/54	708,679	20,116	2.9	2.9
1909/10	100,800	7,569	*	*	1954/55	721,150	17,467	2.5	2.7
1910/11	*	*	*	*	1955/56	741,755	22,977	3.2	2.9
1911/12	110,816	7,738	*	*	1956/57	764,848	24,842	3.3	3.0
1912/13	118,617	8,139	7.3	*	1957/58	811,922	48,777	6.4	4.3
1913/14	130,117	11,500	9.7	*	1958/59	863,288	55,860	6.9	5.5
1914/15	138,133	8,916	6.9	8.0	1959/60	1,002,263	50,403	5.8	6.4
1915/16	148,116	8,242	6.0	7.5	1960/61	1,043,330	45,340	4.5	5.7
1916/17	153,738	6,375	4.3	5.7	1961/62	1,101,643	62,593	6.0	5.5
1917/18	161,470	7,982	5.2	5.2	1962/63	1,156,596	58,868	5.3	5.3
1918/19	166,816	5,706	3.5	4.3	1963/64	1,050,146	63,389	5.5	5.6
1919/20	171,486	5,094	3.1	3.9	1964/65	1,167,000	58,777	5.6	5.5
1920/21	177,320	6,291	3.7	3.4	1965/66	1,230,000	62,000	5.3	5.5
1921/22	188,889	11,568	6.5	4.4	1966/67	1,292,107	64,107	5.2	5.4
1922/23	198,856	9,967	5.3	5.2	1967/68	1,331,819	92,212	7.1	5.9
1923/24	209,043	10,178	5.1	5.6	1968/69	1,446,820	117,001	8.8	7.0
1924/25	229,201	9,530	4.6	5.0	1969/70	1,541,443	77,797	5.4	7.1
1925/26	231,366	9,825	4.3	4.7	1970/71	1,589,115	50,904	3.3	5.8
1926/27	240,784	8,543	3.7	4.2	1971/72	1,639,261	55,050	3.5	4.0
1927/28	249,461	8,526	3.5	3.8	1972/73	1,700,361	65,000	4.0	3.6
1928/29	268,795	13,184	5.3	4.2	1973/74	1,749,181	53,000	3.1	3.5
1929/30	279,821	11,552	4.3	4.4	1974/75	1,793,896	48,715	2.8	3.3
1930/31	284,300	14,050	5.0	4.9	1975/76	1,836,458	47,709	2.7	2.9
1931/32	292,268	10,812	3.8	4.4	1976/77	1,882,394	48,734	2.7	2.7
1932/33	301,869	9,760	3.3	4.1	1977/78	1,929,232	55,438	2.9	2.8
1933/34	309,917	11,309	3.7	3.6	1978/79	1,984,632	57,015	3.0	2.9
1934/35	318,334	8,427	2.7	3.3	1979/80	2,016,647	57,130	2.9	2.9
1935/36	333,045	15,526	4.9	3.8	1980/81	2,068,788	57,210	2.8	2.9
1936/37	344,848	11,803	3.5	3.7	1981/82	2,117,156	56,635	2.7	2.8
1937/38	357,836	12,988	3.8	4.1	1982/83	2,160,287	56,398	2.7	2.7
1938/39	380,649	24,071	6.7	4.7	1983/84	2,206,104	58,565	2.7	2.7
1939/40	395,780	15,131	4.0	4.8					
1940/41	418,104	23,000	5.8	5.5					
1941/42	437,233	20,034	4.8	4.9					
1942/43	458,147	20,914	4.8	5.1					
1943/44	475,827	17,680	3.9	4.5					
1944/45	505,162	21,313	4.5	4.4					
1945/46	525,557	20,911	4.1	4.2					
1946/47	547,505	23,475	4.5	4.4					
1947/48	566,337	18,832	3.4	4.0					
1948/49	585,081	18,874	3.3	3.7					
1949/50	605,245	21,450	3.7	3.5					
1950/51	731,700	25,975	4.3	3.8					
1951/52	756,459	24,228	3.3	3.8					

INCREASE IN VOLUMES AT MISSOURI

AS A PERCENT
1907/08-1983/84



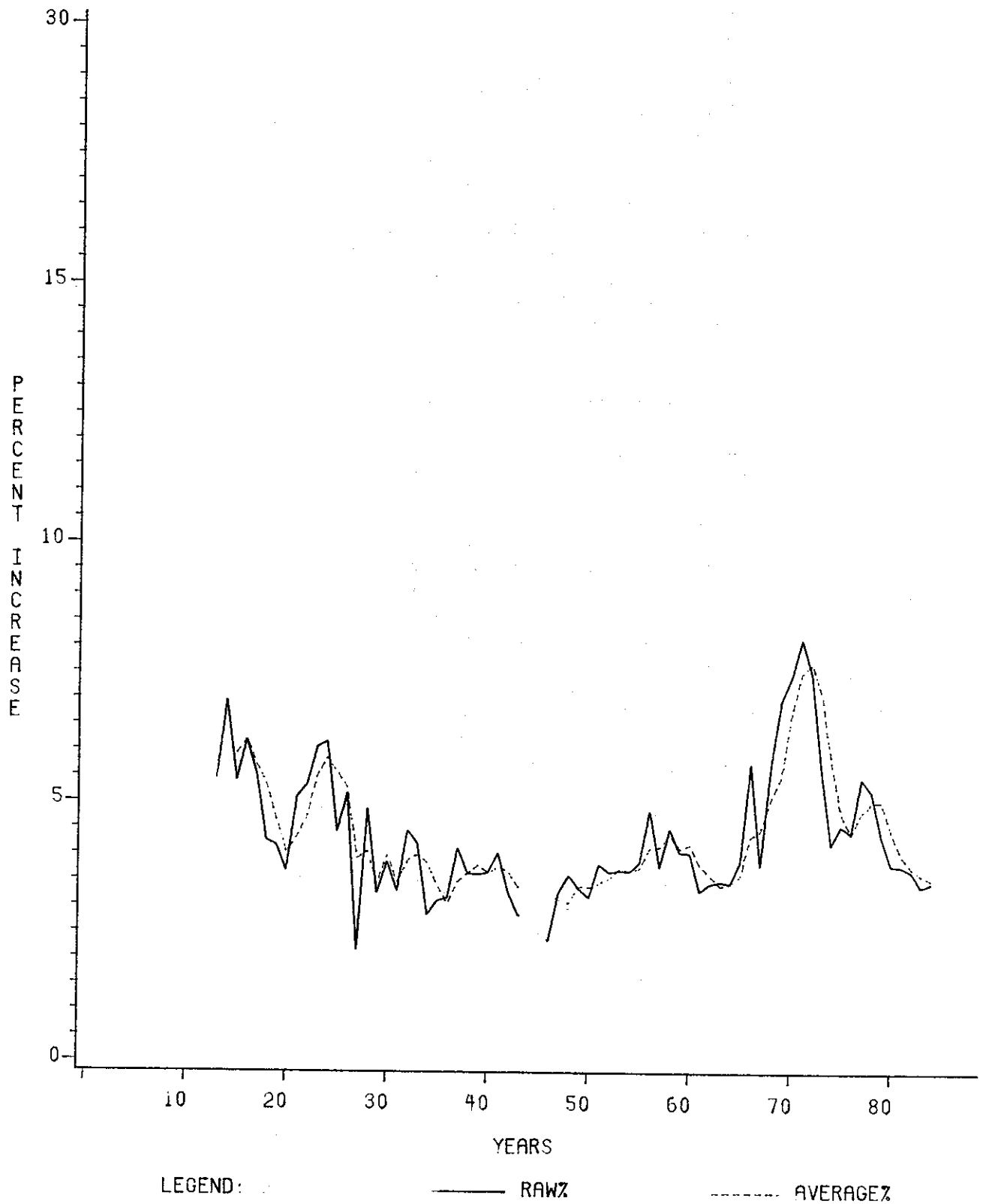
GROWTH AT NEBRASKA

INSTITUTION
NUMBER: 5500

YEAR	VOLUMES	VOLUMES ADDED	%	AVE. %	YEAR	VOLUMES	VOLUMES ADDED	%	AVE. %
1907/08	81,000	5,275	*	*	1952/53	520,223	18,562	3.7	3.7
1908/09	*	*	*	*	1953/54	535,538	19,038	3.7	3.7
1909/10	90,250	6,075	*	*	1954/55	554,023	20,504	3.8	3.7
1910/11	*	*	*	*	1955/56	579,870	26,743	4.8	4.1
1911/12	100,000	6,175	*	*	1956/57	596,013	21,781	3.8	4.1
1912/13	105,451	5,451	5.5	*	1957/58	621,170	26,771	4.5	4.4
1913/14	115,050	7,320	6.9	*	1958/59	645,086	25,050	4.0	4.1
1914/15	121,270	6,220	5.4	5.9	1959/60	669,938	25,903	4.0	4.2
1915/16	125,200	7,495	6.2	6.2	1960/61	690,399	21,914	3.3	3.8
1916/17	132,098	6,898	5.5	5.7	1961/62	712,963	23,666	3.4	3.6
1917/18	136,670	5,620	4.3	5.3	1962/63	736,809	24,768	3.5	3.4
1918/19	145,000	5,680	4.2	4.6	1963/64	750,246	25,327	3.4	3.4
1919/20	150,023	5,324	3.7	4.0	1964/65	789,607	28,825	3.8	3.6
1920/21	153,925	7,648	5.1	4.3	1965/66	820,791	45,389	5.7	4.3
1921/22	162,122	8,197	5.3	4.7	1966/67	850,578	30,958	3.8	4.5
1922/23	171,936	9,814	6.1	5.5	1967/68	890,666	48,633	5.7	5.1
1923/24	187,993	10,579	6.2	5.8	1968/69	952,074	62,054	7.0	5.5
1924/25	185,575	8,290	4.4	5.5	1969/70	1,021,284	70,777	7.4	6.7
1925/26	204,673	9,572	5.2	5.2	1970/71	1,103,591	83,243	8.2	7.5
1926/27	209,048	4,375	2.1	3.9	1971/72	1,185,429	82,662	7.5	7.7
1927/28	223,885	10,175	4.9	4.1	1972/73	1,250,344	66,575	5.6	7.1
1928/29	233,845	7,230	3.2	3.4	1973/74	1,160,271	52,413	4.2	5.8
1929/30	242,826	8,981	3.8	4.0	1974/75	1,208,451	52,805	4.6	4.8
1930/31	253,484	7,975	3.3	3.5	1975/76	1,258,053	53,291	4.4	4.4
1931/32	264,755	11,271	4.4	3.9	1976/77	1,318,583	68,761	5.5	4.8
1932/33	275,865	11,110	4.2	4.0	1977/78	1,384,427	68,624	5.2	5.0
1933/34	285,820	7,794	2.8	3.8	1978/79	1,441,515	60,379	4.4	5.0
1934/35	294,435	8,855	3.1	3.4	1979/80	1,494,040	54,667	3.8	4.5
1935/36	305,999	9,283	3.2	3.0	1980/81	1,547,212	56,408	3.8	4.0
1936/37	318,577	12,578	4.1	3.5	1981/82	1,602,671	57,014	3.7	3.8
1937/38	330,000	11,500	3.6	3.6	1982/83	1,523,130	54,221	3.4	3.6
1938/39	341,870	11,874	3.6	3.8	1983/84	1,573,923	52,913	3.5	3.5
1939/40	353,431	12,456	3.6	3.6					
1940/41	367,215	14,204	4.0	3.8					
1941/42	391,594	11,956	3.3	3.6					
1942/43	389,141	11,067	2.8	3.4					
1943/44	*	*	*	*					
1944/45	405,167	7,849	*	*					
1945/46	426,743	9,392	2.3	*					
1946/47	428,293	13,864	3.2	*					
1947/48	443,328	15,326	3.6	3.0					
1948/49	458,039	14,711	3.3	3.4					
1949/50	471,674	14,471	3.2	3.4					
1950/51	487,558	17,914	3.8	3.4					
1951/52	503,610	17,755	3.6	3.5					

INCREASE IN VOLUMES AT NEBRASKA

AS A PERCENT
1907/08-1983/84



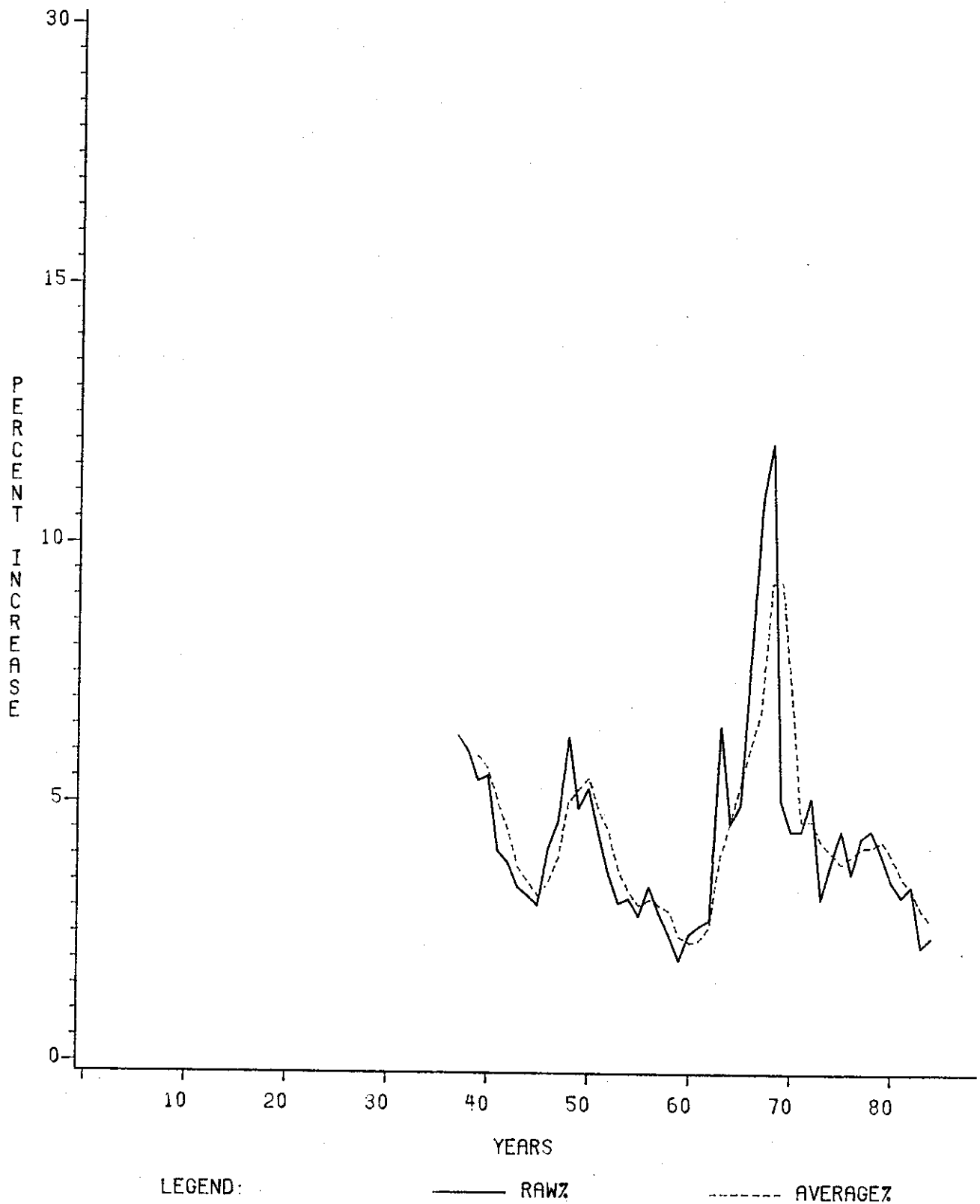
GROWTH AT NEW YORK UNIVERSITY

INSTITUTION
NUMBER: 5700

YEAR	VOLUMES	VOLUMES ADDED	%	AVE. %	YEAR	VOLUMES	VOLUMES ADDED	%	AVE. %
1935/36	480,808	26,822	*	*	1981/82	2,698,871	89,290	3.4	3.4
1936/37	510,771	30,241	6.3	*	1982/83	2,756,470	60,479	2.2	3.0
1937/38	541,690	30,618	6.0	*	1983/84	2,815,357	66,984	2.4	2.7
1938/39	570,445	29,381	5.4	5.9					
1939/40	592,041	31,520	5.5	5.6					
1940/41	616,132	24,091	4.1	5.0					
1941/42	637,098	23,735	3.9	4.5					
1942/43	649,152	21,544	3.4	3.8					
1943/44	668,795	20,795	3.2	3.5					
1944/45	687,580	20,234	3.0	3.2					
1945/46	715,157	28,379	4.1	3.5					
1946/47	748,119	33,193	4.6	3.9					
1947/48	790,968	46,941	6.3	5.0					
1948/49	845,179	38,689	4.9	5.3					
1949/50	888,181	44,661	5.3	5.5					
1950/51	927,577	39,086	4.4	4.9					
1951/52	959,273	33,640	3.6	4.4					
1952/53	987,551	29,504	3.1	3.7					
1953/54	1,017,226	31,291	3.2	3.3					
1954/55	1,041,186	28,690	2.8	3.0					
1955/56	1,066,333	35,492	3.4	3.1					
1956/57	1,091,967	30,599	2.9	3.0					
1957/58	1,049,156	26,872	2.5	2.9					
1958/59	1,067,946	20,653	2.0	2.4					
1959/60	1,092,862	26,510	2.5	2.3					
1960/61	1,121,634	28,772	2.6	2.4					
1961/62	1,148,119	30,794	2.7	2.6					
1962/63	1,222,821	74,702	6.5	4.0					
1963/64	1,254,076	56,439	4.6	4.6					
1964/65	1,535,583	62,264	5.0	5.4					
1966/67	1,815,183	166,746	10.9	6.8					
1967/68	2,031,287	216,780	11.9	9.3					
1968/69	2,178,660	102,323	5.0	9.3					
1969/70	2,270,331	97,093	4.5	7.1					
1970/71	2,111,570	101,200	4.5	4.7					
1971/72	2,175,680	107,815	5.1	4.7					
1972/73	2,222,453	68,662	3.2	4.2					
1973/74	2,390,450	85,470	3.8	4.0					
1974/75	2,456,226	107,354	4.5	3.8					
1975/76	2,528,134	89,316	3.6	4.0					
1976/77	2,501,672	110,062	4.4	4.2					
1977/78	2,597,168	112,067	4.5	4.2					
1978/79	2,700,201	104,658	4.0	4.3					
1979/80	2,869,122	93,966	3.5	4.0					
1980/81	2,613,731	91,911	3.2	3.6					

INCREASE IN VOLUMES AT NEW YORK

AS A PERCENT
1907/08-1983/84



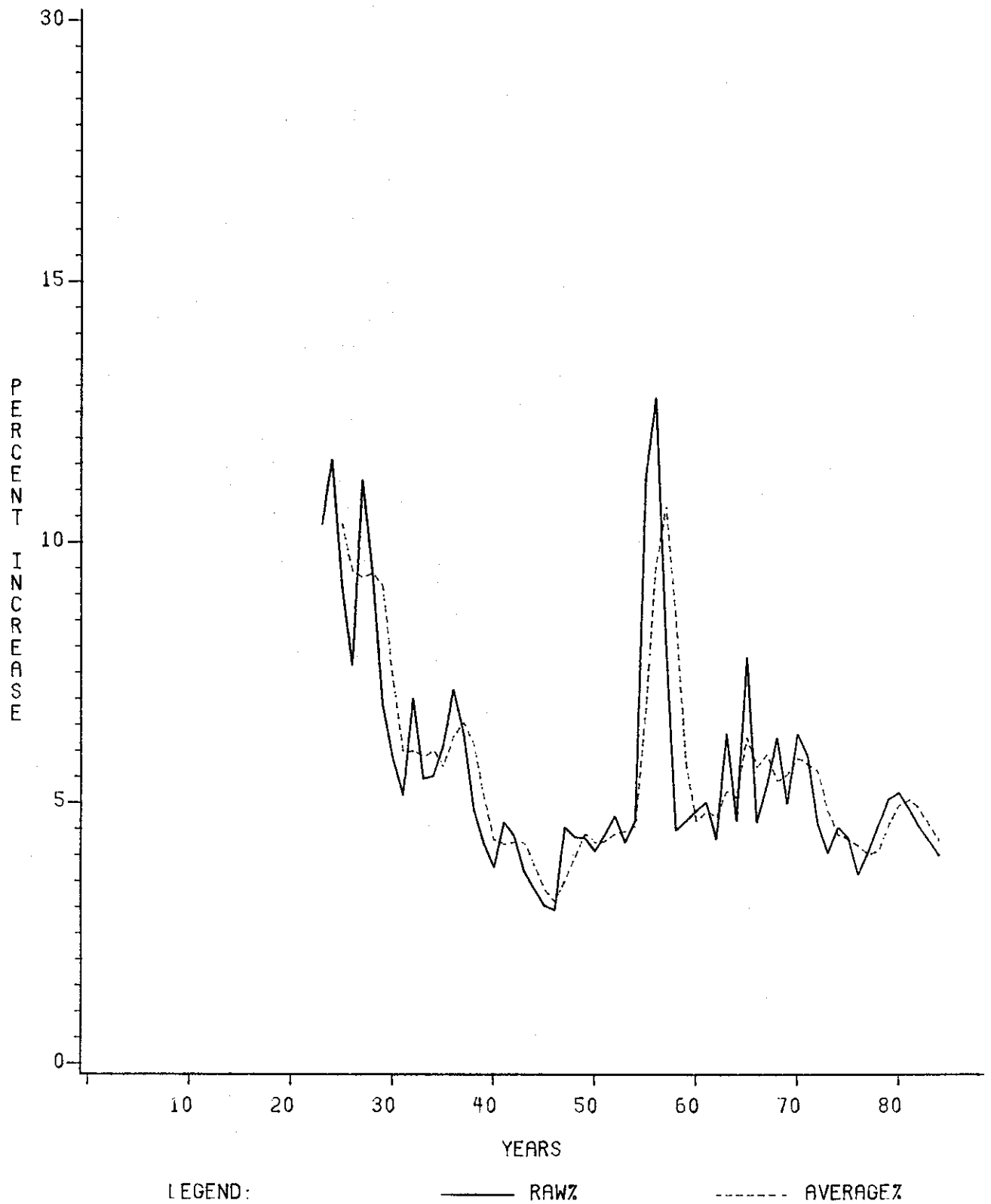
GROWTH AT NORTH CAROLINA

INSTITUTION
NUMBER: 5800

YEAR	VOLUMES		AVE.		YEAR	VOLUMES		AVE.	
	VOLUMES	ADDED	%	%		VOLUMES	ADDED	%	%
1921/22	108,405	8,634	*	*	1966/67	1,455,839	74,149	5.4	5.9
1922/23	122,892	11,220	10.4	*	1967/68	1,541,315	91,200	6.3	5.4
1923/24	133,857	14,232	11.6	*	1968/69	1,616,265	76,899	5.0	5.5
1924/25	147,522	12,219	9.1	10.4	1969/70	1,722,768	102,328	6.3	5.9
1925/26	162,429	11,259	7.6	9.4	1970/71	1,819,669	101,748	5.9	5.7
1926/27	180,032	18,191	11.2	9.3	1971/72	1,894,132	83,562	4.6	5.6
1927/28	198,192	16,895	9.4	9.4	1972/73	1,958,941	76,667	4.0	4.8
1928/29	210,511	13,644	6.9	9.2	1973/74	2,043,670	88,974	4.5	4.4
1929/30	219,814	12,303	5.8	7.4	1974/75	2,125,640	88,613	4.3	4.3
1930/31	230,512	11,311	5.1	6.0	1975/76	2,192,224	77,030	3.6	4.2
1931/32	245,602	16,175	7.0	6.0	1976/77	2,274,173	89,186	4.1	4.0
1932/33	258,584	13,399	5.5	5.9	1977/78	2,373,599	104,093	4.6	4.1
1933/34	254,552	14,264	5.5	6.0	1978/79	2,487,122	120,668	5.1	4.6
1934/35	278,347	15,511	6.1	5.7	1979/80	2,604,404	129,652	5.2	5.0
1935/36	325,524	20,000	7.2	6.3	1980/81	2,722,799	127,764	4.9	5.1
1936/37	343,832	20,642	6.3	6.5	1981/82	2,839,858	123,940	4.6	4.9
1937/38	359,920	16,722	4.9	6.1	1982/83	2,952,859	121,501	4.3	4.6
1938/39	373,986	15,148	4.2	5.1	1983/84	3,062,737	118,048	4.0	4.3
1939/40	386,390	14,025	3.8	4.3					
1940/41	403,051	17,864	4.6	4.2					
1941/42	419,797	17,596	4.4	4.2					
1942/43	434,020	15,369	3.7	4.2					
1943/44	447,562	14,478	3.3	3.8					
1944/45	459,558	13,519	3.0	3.3					
1945/46	473,028	13,470	2.9	3.1					
1946/47	494,467	21,439	4.5	3.5					
1947/48	514,797	21,439	4.3	3.9					
1948/49	536,095	22,241	4.3	4.4					
1949/50	557,189	21,791	4.1	4.2					
1950/51	581,682	24,493	4.4	4.3					
1951/52	608,924	27,670	4.8	4.4					
1952/53	633,665	25,805	4.2	4.5					
1953/54	662,978	29,473	4.7	4.5					
1954/55	736,926	74,564	11.2	6.7					
1955/56	831,119	94,193	12.8	9.6					
1956/57	898,417	67,295	8.1	10.7					
1957/58	935,014	40,127	4.5	8.4					
1958/59	978,558	43,544	4.7	5.7					
1959/60	1,025,144	47,386	4.8	4.7					
1960/61	1,077,343	51,399	5.0	4.8					
1961/62	1,123,747	46,404	4.3	4.7					
1962/63	1,349,584	71,120	6.3	5.2					
1963/64	1,234,893	62,855	4.7	5.1					
1964/65	1,533,083	96,336	7.8	6.3					
1965/66	1,385,234	70,962	4.6	5.7					

INCREASE IN VOLUMES AT NORTH CAROLINA

AS A PERCENT
1907/08-1983/84



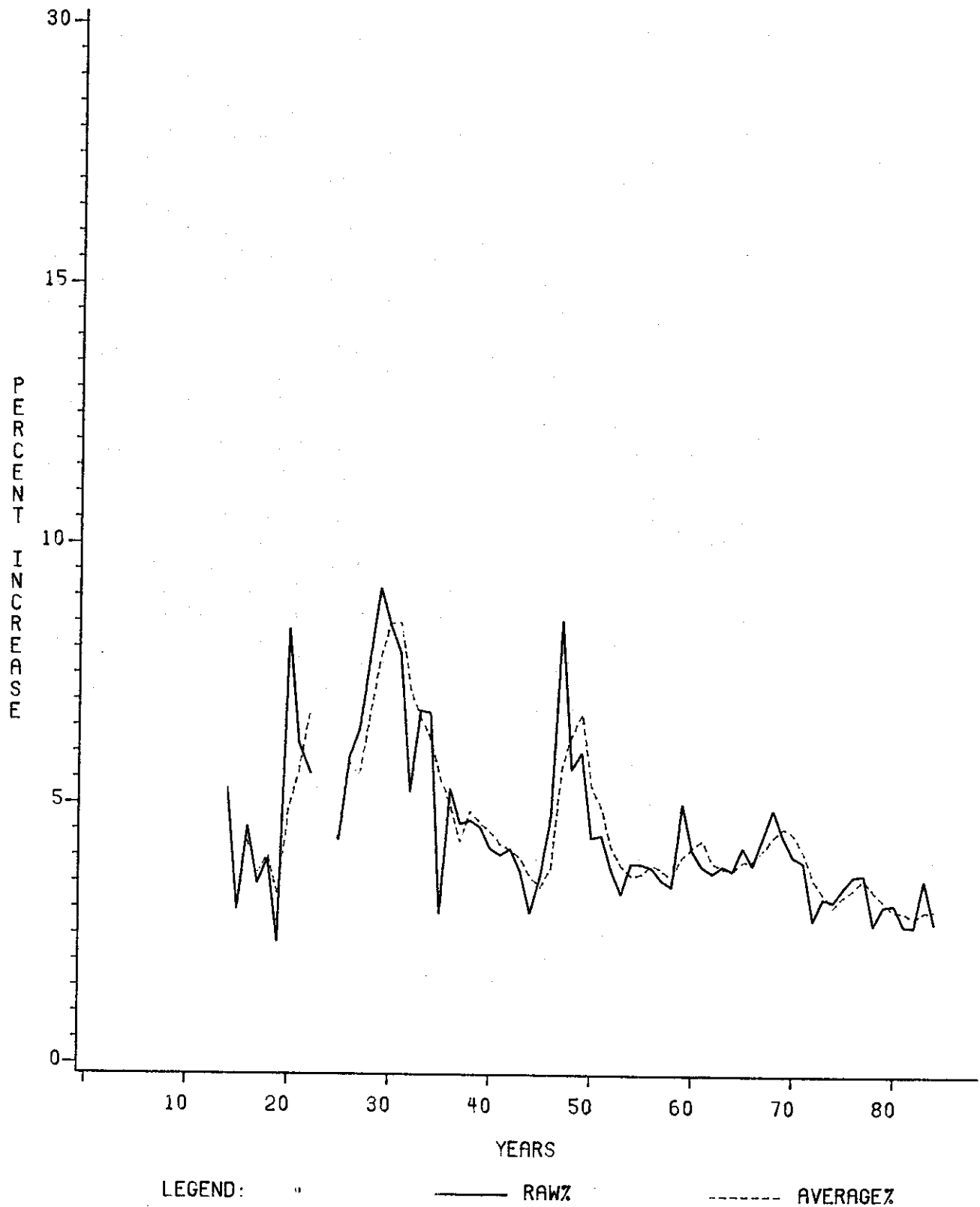
GROWTH AT NORTHWESTERN

INSTITUTION
NUMBER: 5900

YEAR	VOLUMES				YEAR	VOLUMES			
	VOLUMES	ADDED	%	AVE.		VOLUMES	ADDED	%	AVE.
1912/13	93,402	5,051	*	*	1957/58	1,339,218	43,364	3.4	3.6
1913/14	153,687	4,924	5.3	*	1958/59	1,465,228	67,155	5.0	4.0
1914/15	102,874	4,557	3.0	*	1959/60	1,429,431	60,336	4.1	4.2
1915/16	163,154	4,691	4.6	4.3	1960/61	1,481,175	54,364	3.8	4.3
1916/17	168,801	5,647	3.5	3.7	1961/62	1,532,420	54,549	3.7	3.9
1917/18	175,431	6,630	3.9	4.0	1962/63	1,587,192	58,481	3.8	3.8
1918/19	119,575	4,093	2.3	3.2	1963/64	1,643,167	59,150	3.7	3.7
1919/20	192,365	9,973	8.3	4.9	1964/65	1,709,172	68,796	4.2	3.9
1920/21	201,734	11,812	6.1	5.6	1965/66	1,771,899	65,605	3.8	3.9
1921/22	219,448	11,401	5.7	6.7	1966/67	1,847,426	77,416	4.4	4.1
1922/23	*	*	*	*	1967/68	1,936,782	90,617	4.9	4.4
1923/24	236,946	12,283	*	*	1968/69	1,995,640	84,828	4.4	4.6
1924/25	247,768	10,154	4.3	*	1969/70	2,289,708	79,883	4.0	4.4
1925/26	262,329	14,561	5.9	*	1970/71	2,374,913	89,046	3.9	4.1
1926/27	280,425	16,827	6.4	5.5	1971/72	2,433,420	65,925	2.8	3.6
1927/28	302,314	21,889	7.8	6.7	1972/73	2,504,088	78,032	3.2	3.3
1928/29	327,092	27,640	9.1	7.8	1973/74	2,349,369	78,690	3.1	3.0
1929/30	423,744	27,509	8.4	8.5	1974/75	2,474,852	80,366	3.4	3.3
1930/31	575,245	33,454	7.9	8.5	1975/76	2,536,611	89,984	3.6	3.4
1931/32	605,288	30,043	5.2	7.2	1976/77	2,594,777	92,907	3.7	3.6
1932/33	652,689	41,121	6.8	6.6	1977/78	2,655,440	70,062	2.7	3.3
1933/34	719,412	43,933	6.7	6.2	1978/79	2,714,938	81,433	3.1	3.1
1934/35	506,606	20,778	2.9	5.5	1979/80	2,806,320	84,113	3.1	3.0
1935/36	533,420	26,811	5.3	5.0	1980/81	2,838,187	75,208	2.7	2.9
1936/37	557,986	24,566	4.6	4.3	1981/82	2,889,402	75,707	2.7	2.8
1937/38	586,934	26,148	4.7	4.9	1982/83	2,973,100	103,280	3.6	3.0
1938/39	612,425	26,617	4.5	4.6	1983/84	3,044,725	81,186	2.7	3.0
1939/40	637,795	25,370	4.1	4.5					
1940/41	668,410	25,573	4.0	4.2					
1941/42	696,035	27,653	4.1	4.1					
1942/43	721,874	25,833	3.7	4.0					
1943/44	736,430	20,922	2.9	3.6					
1944/45	754,631	26,482	3.6	3.4					
1945/46	788,832	36,014	4.8	3.8					
1946/47	851,771	67,277	8.5	5.6					
1947/48	935,448	48,312	5.7	6.3					
1948/49	987,956	56,058	6.0	6.7					
1949/50	1,013,151	42,948	4.3	5.3					
1950/51	1,053,392	44,640	4.4	4.9					
1951/52	1,089,295	39,406	3.7	4.2					
1952/53	1,111,663	35,691	3.3	3.8					
1953/54	1,146,163	42,996	3.9	3.6					
1954/55	1,184,653	44,166	3.9	3.7					
1955/56	1,224,720	44,672	3.8	3.8					
1956/57	1,268,084	43,364	3.5	3.7					

INCREASE IN VOLUMES AT NORTHWESTERN

AS A PERCENT
1907/08-1983/84



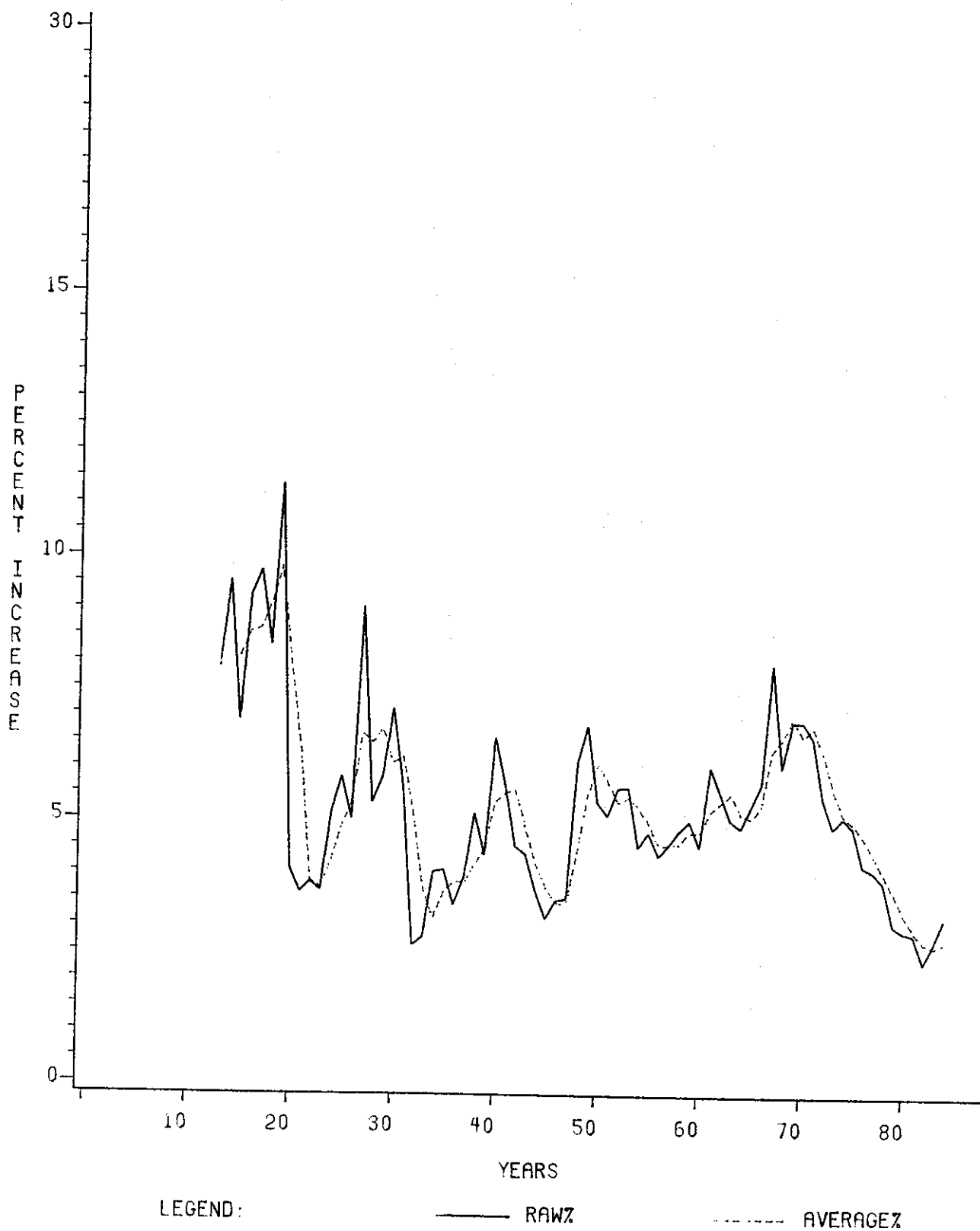
GROWTH AT OHIO STATE

INSTITUTION
NUMBER: 6100

YEAR	VOLUMES				YEAR	VOLUMES			
	VOLUMES	ADDED	%	AVE.		VOLUMES	ADDED	%	AVE.
1907/08	80,000	4,822	*	*	1952/53	1,012,176	54,065	5.6	5.5
1908/09	*	*	*	*	1953/54	1,056,226	45,479	4.5	5.3
1909/10	95,838	11,181	*	*	1954/55	1,103,303	50,448	4.8	5.0
1910/11	*	*	*	*	1955/56	1,148,346	47,748	4.3	4.5
1911/12	117,000	10,300	*	*	1956/57	1,198,757	52,268	4.6	4.6
1912/13	126,034	9,238	7.9	*	1957/58	1,252,819	57,856	4.8	4.6
1913/14	140,500	12,000	9.5	*	1958/59	1,312,786	62,681	5.0	4.8
1914/15	147,265	9,688	6.9	8.1	1959/60	1,369,348	59,195	4.5	4.8
1915/16	160,877	13,612	9.2	8.6	1960/61	1,447,387	82,464	6.0	5.2
1916/17	176,525	15,648	9.7	8.6	1961/62	1,520,597	79,953	5.5	5.4
1917/18	191,100	14,673	8.3	9.1	1962/63	1,591,346	76,284	5.0	5.5
1918/19	202,820	21,720	11.4	9.8	1963/64	1,664,774	77,555	4.9	5.1
1919/20	211,042	8,259	4.1	7.9	1964/65	1,748,943	88,173	5.3	5.1
1920/21	223,063	7,643	3.6	6.4	1965/66	1,845,069	99,926	5.7	5.3
1921/22	222,738	8,518	3.8	3.8	1966/67	1,988,097	147,225	8.0	6.3
1922/23	235,846	8,125	3.6	3.7	1967/68	2,103,723	119,730	6.0	6.6
1923/24	253,295	12,101	5.1	4.2	1968/69	2,245,957	145,087	6.9	7.0
1924/25	267,635	14,749	5.8	4.9	1969/70	2,397,126	155,189	6.9	6.6
1925/26	285,943	13,429	5.0	5.3	1970/71	2,539,716	158,255	6.6	6.8
1926/27	305,905	25,859	9.0	6.6	1971/72	2,670,984	138,300	5.4	6.3
1927/28	317,500	16,300	5.3	6.5	1972/73	2,787,132	130,577	4.9	5.6
1928/29	335,950	18,450	5.8	6.7	1973/74	2,911,839	141,953	5.1	5.1
1929/30	359,850	23,900	7.1	6.1	1974/75	3,033,132	142,471	4.9	5.0
1930/31	380,153	20,303	5.6	6.2	1975/76	3,142,500	126,341	4.2	4.7
1931/32	395,725	10,000	2.6	5.1	1976/77	3,257,759	127,849	4.1	4.4
1932/33	407,086	10,974	2.8	3.7	1977/78	3,371,519	125,630	3.9	4.0
1933/34	422,970	16,399	4.0	3.1	1978/79	3,446,729	103,210	3.1	3.7
1934/35	439,189	17,200	4.1	3.6	1979/80	3,529,985	101,011	2.9	3.3
1935/36	455,228	14,909	3.4	3.8	1980/81	3,615,108	101,884	2.9	3.0
1936/37	473,004	17,776	3.9	3.8	1981/82	3,685,917	84,726	2.3	2.7
1937/38	496,806	24,300	5.1	4.1	1982/83	3,779,819	100,480	2.7	2.7
1938/39	528,000	21,575	4.3	4.5	1983/84	3,892,249	120,180	3.2	2.7
1939/40	564,344	34,675	6.6	5.3					
1940/41	594,300	31,962	5.7	5.5					
1941/42	621,175	26,750	4.5	5.6					
1942/43	649,250	27,124	4.4	4.8					
1943/44	664,700	23,724	3.7	4.2					
1944/45	696,500	20,899	3.1	3.7					
1945/46	709,875	24,275	3.5	3.4					
1946/47	734,850	24,975	3.5	3.4					
1947/48	767,150	44,757	6.1	4.4					
1948/49	819,406	52,256	6.8	5.5					
1949/50	863,154	43,748	5.3	6.1					
1950/51	907,103	43,949	5.1	5.7					
1951/52	958,111	51,008	5.6	5.4					

INCREASE IN VOLUMES AT OHIO STATE

AS A PERCENT
1907/08-1983/84



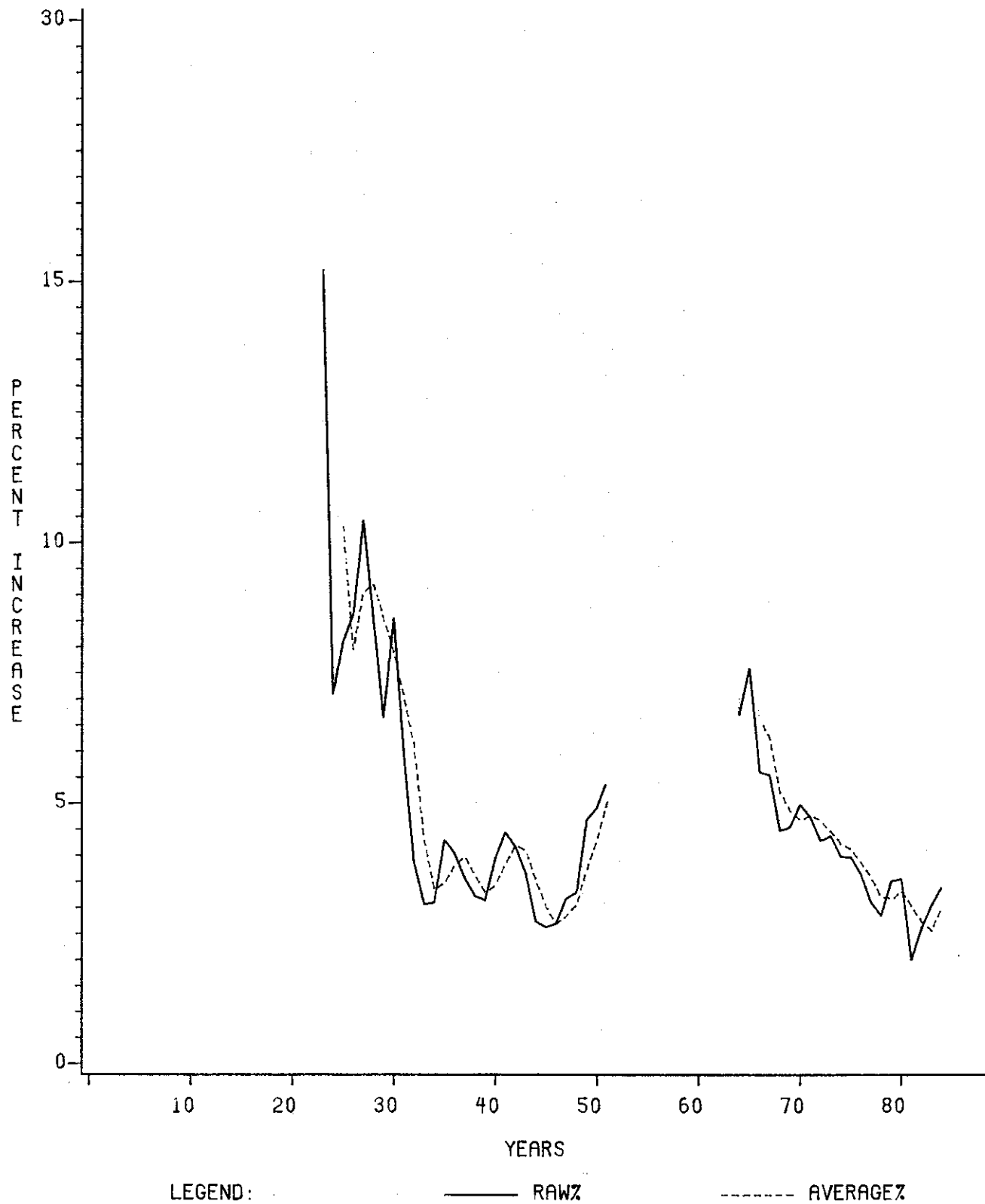
GROWTH AT OREGON

INSTITUTION
NUMBER: 6400

YEAR	VOLUMES		AVE.		YEAR	VOLUMES		AVE.	
	VOLUMES	ADDED	%	%		VOLUMES	ADDED	%	%
1921/22	106,649	7,469	*	*	1977/78	1,377,205	38,037	2.8	3.2
1922/23	122,845	16,728	15.7	*	1978/79	1,424,882	48,253	3.5	3.1
1923/24	130,470	8,710	7.1	*	1979/80	1,474,358	50,394	3.5	3.3
1924/25	140,823	10,541	8.1	10.3	1980/81	1,502,404	29,374	2.0	3.0
1925/26	152,596	12,136	8.6	7.9	1981/82	1,540,340	38,931	2.6	2.7
1926/27	167,335	15,898	10.4	9.0	1982/83	1,586,877	46,811	3.0	2.5
1927/28	191,640	14,245	8.5	9.2	1983/84	1,639,745	53,471	3.4	3.0
1928/29	193,394	12,695	6.6	8.5					
1929/30	215,165	16,520	8.5	7.9					
1930/31	227,924	12,759	5.9	7.0					
1931/32	235,645	8,800	3.9	6.1					
1932/33	242,559	7,200	3.1	4.3					
1933/34	249,409	7,500	3.1	3.3					
1934/35	259,574	10,690	4.3	3.5					
1935/36	269,215	10,472	4.0	3.8					
1936/37	278,789	9,574	3.6	4.0					
1937/38	287,721	8,932	3.2	3.6					
1938/39	299,128	9,004	3.1	3.3					
1939/40	307,603	11,760	3.9	3.4					
1940/41	321,227	13,624	4.4	3.8					
1941/42	333,961	13,330	4.1	4.2					
1942/43	342,164	12,201	3.7	4.1					
1943/44	349,384	9,308	2.7	3.5					
1944/45	356,297	9,134	2.6	3.0					
1945/46	383,078	9,594	2.7	2.7					
1946/47	395,205	12,127	3.2	2.8					
1947/48	401,264	12,975	3.3	3.0					
1948/49	433,270	18,729	4.7	3.7					
1949/50	451,064	21,261	4.9	4.3					
1950/51	474,548	24,417	5.4	5.0					
.....									
.....									
1962/63	923,257	56,630	*	*					
1963/64	982,622	61,576	6.7	*					
1964/65	954,501	74,342	7.6	*					
1965/66	1,004,105	53,098	5.6	6.6					
1966/67	980,038	55,412	5.5	6.2					
1967/68	987,123	43,675	4.5	5.2					
1968/69	1,029,568	44,706	4.5	4.8					
1969/70	1,060,882	51,015	5.0	4.6					
1970/71	1,104,320	49,960	4.7	4.7					
1971/72	1,146,199	47,111	4.3	4.6					
1972/73	1,187,352	49,946	4.4	4.4					
1973/74	1,223,628	46,926	4.0	4.2					
1974/75	1,266,234	48,321	3.9	4.1					
1975/76	1,307,473	45,970	3.6	3.8					
1976/77	1,343,738	40,390	3.1	3.6					

INCREASE IN VOLUMES AT OREGON

AS A PERCENT
1907/08-1983/84



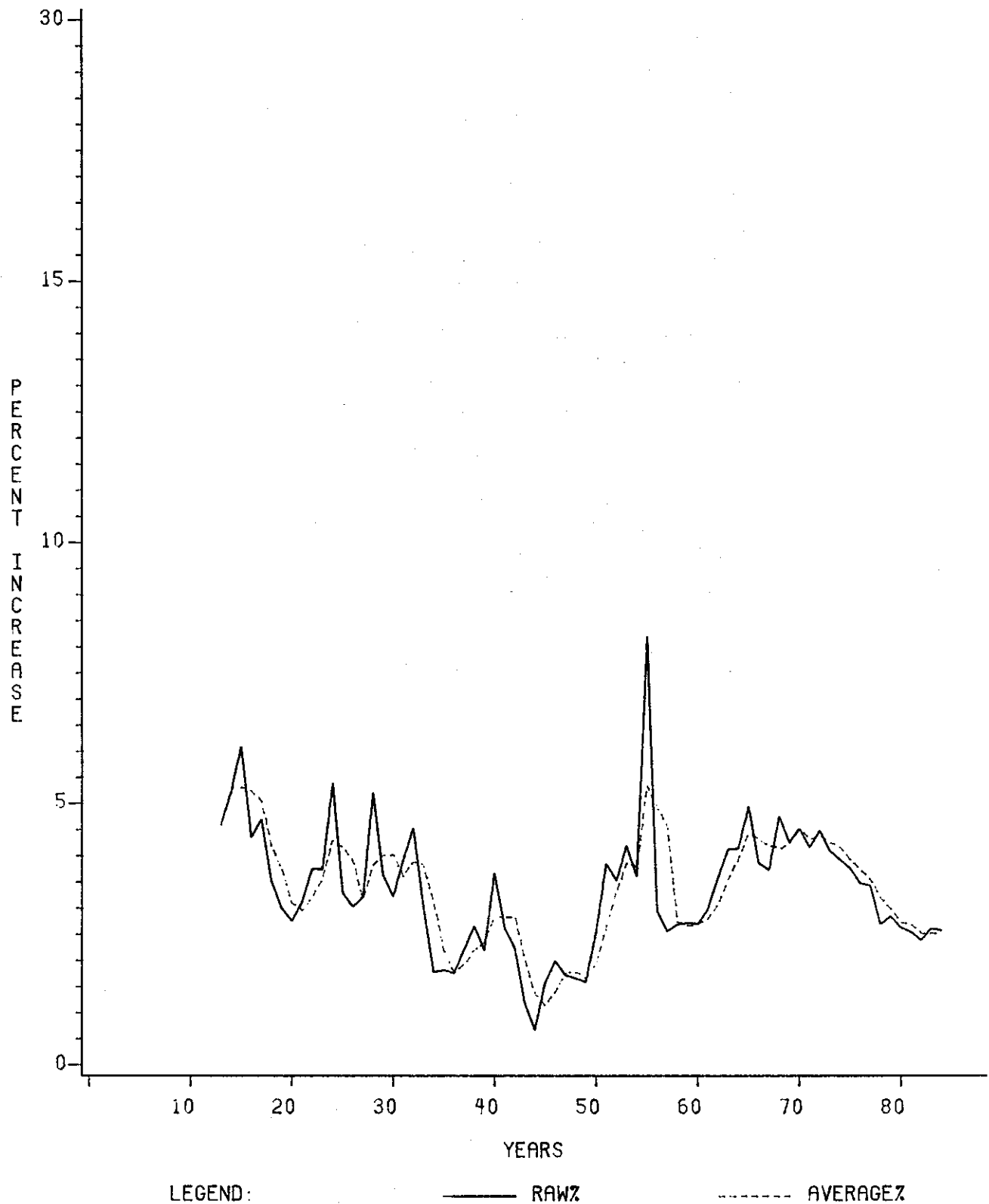
GROWTH AT PENNSYLVANIA

INSTITUTION
NUMBER: 6500

YEAR	VOLUMES	VOLUMES ADDED	%	AVE. %	YEAR	VOLUMES	VOLUMES ADDED	%	AVE. %
1911/12	352,674	15,738	*	*	1956/57	1,543,234	38,275	2.5	4.6
1912/13	375,109	16,236	4.6	*	1957/58	1,570,009	41,587	2.7	2.7
1913/14	389,813	19,610	5.2	*	1958/59	1,593,824	42,782	2.7	2.7
1914/15	413,519	23,706	6.1	5.3	1959/60	1,665,114	42,863	2.7	2.7
1915/16	413,523	18,004	4.4	5.2	1960/61	1,703,089	49,447	3.0	2.8
1916/17	450,956	19,433	4.7	5.0	1961/62	1,744,680	60,750	3.6	3.1
1917/18	466,769	15,813	3.5	4.2	1962/63	1,835,638	71,983	4.1	3.6
1918/19	481,190	13,964	3.0	3.7	1963/64	1,816,040	75,943	4.1	3.9
1919/20	494,415	13,225	2.7	3.1	1964/65	1,894,480	89,880	4.9	4.4
1920/21	509,796	15,381	3.1	3.0	1965/66	1,958,602	72,954	3.9	4.3
1921/22	533,729	19,151	3.8	3.2	1966/67	2,025,046	72,920	3.7	4.2
1922/23	554,507	19,962	3.7	3.5	1967/68	2,099,869	96,309	4.8	4.1
1923/24	578,293	29,906	5.4	4.3	1968/69	2,181,833	89,113	4.2	4.2
1924/25	597,219	18,926	3.3	4.1	1969/70	2,248,642	98,470	4.5	4.5
1925/26	615,325	18,106	3.0	3.9	1970/71	2,323,401	93,424	4.2	4.3
1926/27	635,070	19,745	3.2	3.2	1971/72	2,410,933	103,879	4.5	4.4
1927/28	668,180	33,110	5.2	3.8	1972/73	2,472,735	98,353	4.1	4.2
1928/29	692,421	24,241	3.6	4.0	1973/74	2,557,046	97,014	3.9	4.2
1929/30	712,358	22,347	3.2	4.0	1974/75	2,640,013	96,047	3.8	3.9
1930/31	740,294	27,936	3.9	3.6	1975/76	2,713,905	91,129	3.5	3.7
1931/32	773,843	33,549	4.5	3.9	1976/77	2,784,260	92,640	3.4	3.5
1932/33	797,126	23,283	3.0	3.8	1977/78	2,821,564	74,791	2.7	3.2
1933/34	811,303	14,177	1.8	3.1	1978/79	2,889,788	80,068	2.8	3.0
1934/35	826,037	14,734	1.8	2.2	1979/80	2,938,890	75,587	2.6	2.7
1935/36	840,495	14,458	1.8	1.8	1980/81	3,000,650	74,473	2.5	2.7
1936/37	858,995	18,500	2.2	1.9	1981/82	3,054,234	71,135	2.4	2.5
1937/38	881,781	22,786	2.7	2.2	1982/83	3,120,976	79,247	2.6	2.5
1938/39	901,164	19,383	2.2	2.4	1983/84	3,193,015	79,924	2.6	2.5
1939/40	934,150	32,986	3.7	2.8					
1940/41	958,523	24,373	2.6	2.8					
1941/42	979,919	21,396	2.2	2.8					
1942/43	991,366	11,447	1.2	2.0					
1943/44	997,929	6,563	0.7	1.4					
1944/45	1,013,653	15,724	1.6	1.1					
1945/46	1,033,794	20,141	2.0	1.4					
1946/47	1,132,465	17,663	1.7	1.8					
1947/48	1,151,199	18,734	1.7	1.8					
1948/49	1,165,210	18,234	1.6	1.6					
1949/50	1,194,808	29,598	2.5	1.9					
1950/51	1,237,278	46,028	3.9	2.7					
1951/52	1,276,337	43,595	3.5	3.3					
1952/53	1,327,421	53,573	4.2	3.9					
1953/54	1,371,193	47,863	3.6	3.8					
1954/55	1,475,243	112,457	8.2	5.3					
1955/56	1,501,586	43,258	2.9	4.9					

INCREASE IN VOLUMES AT PENNSYLVANIA

AS A PERCENT
1907/08-1983/84



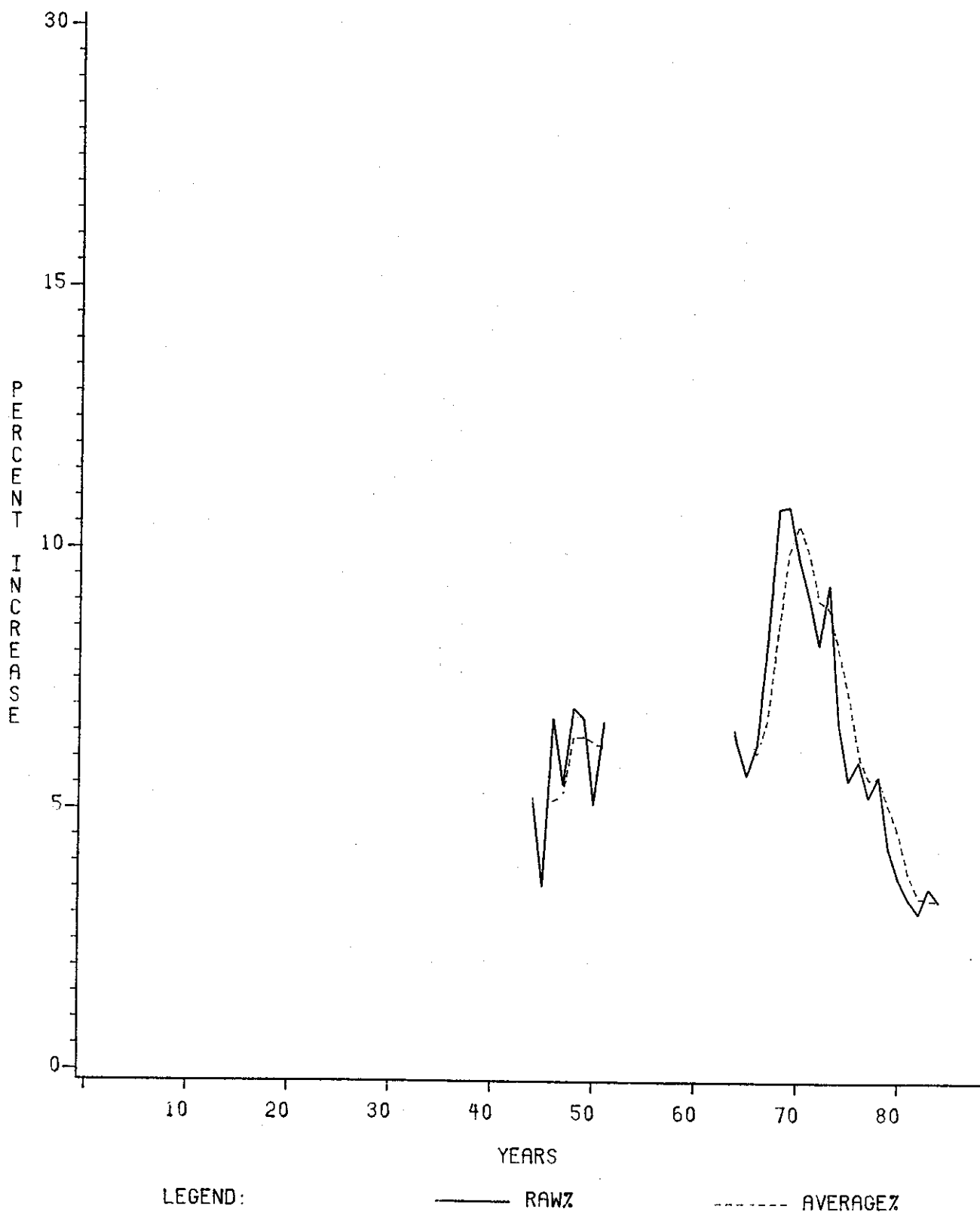
GROWTH AT PITTSBURGH

INSTITUTION
NUMBER: 6700

YEAR	VOLUMES	VOLUMES ADDED	%	AVE. %
1942/43	350,659	22,678	*	*
1943/44	425,000	18,300	5.2	*
1944/45	430,000	15,000	3.5	*
1945/46	457,000	29,000	6.7	5.2
1946/47	482,000	25,000	5.5	5.2
1947/48	515,500	33,500	7.0	6.4
1948/49	548,200	34,700	6.7	6.4
1949/50	578,000	27,870	5.1	6.3
1950/51	617,000	38,700	6.7	6.2
.....				
.....				
1962/63	1,072,713	45,989	*	*
1963/64	1,137,713	67,557	6.3	*
1964/65	1,147,105	64,296	5.7	*
1965/66	997,896	71,316	6.2	6.1
1966/67	1,071,499	81,846	8.2	6.7
1967/68	1,188,633	115,368	10.8	8.4
1968/69	1,302,611	128,502	10.8	9.9
1969/70	1,428,605	127,725	9.8	10.5
1970/71	1,551,109	129,269	9.0	9.9
1971/72	1,664,234	126,502	8.2	9.0
1972/73	1,777,275	155,158	9.3	8.8
1973/74	1,880,753	118,075	6.6	8.0
1974/75	1,972,624	104,561	5.6	7.2
1975/76	2,075,909	116,978	5.9	6.0
1976/77	2,174,868	108,817	5.2	5.6
1977/78	2,283,082	122,988	5.7	5.6
1978/79	2,375,542	97,204	4.3	5.1
1979/80	2,246,371	87,013	3.7	4.5
1980/81	2,339,242	73,584	3.3	3.7
1981/82	2,386,504	70,833	3.0	3.3
1982/83	2,472,489	83,864	3.5	3.3
1983/84	2,552,031	80,206	3.2	3.3

INCREASE IN VOLUMES AT PITTSBURGH

AS A PERCENT
1907/08-1983/84



GROWTH AT PRINCETON

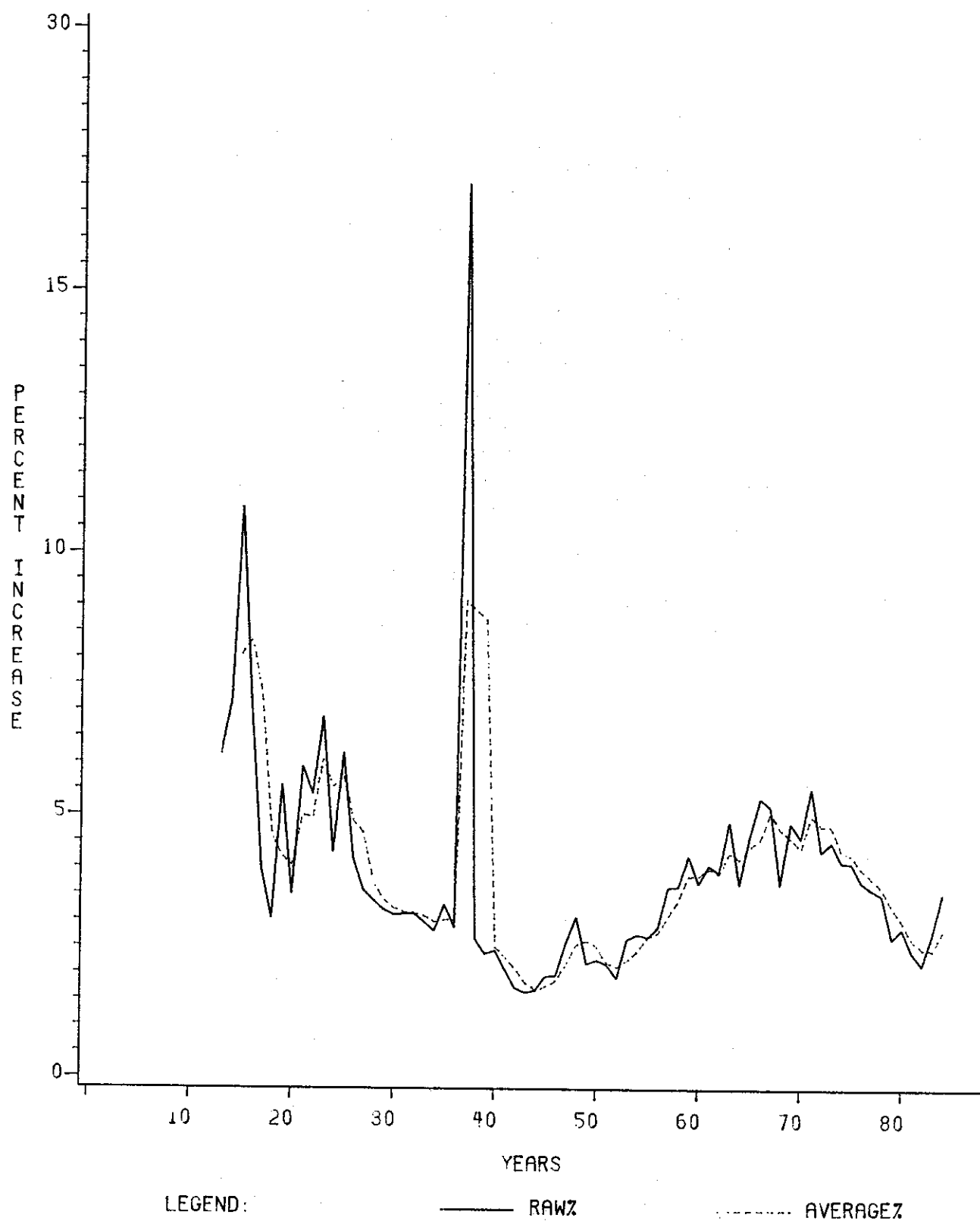
INSTITUTION
NUMBER: 6800

YEAR	VOLUMES				YEAR	VOLUMES			
	VOLUMES	ADDED	%	AVE.		VOLUMES	ADDED	%	AVE.
1911/12	294,915	12,067	*	*	1956/57	1,457,173	51,277	3.6	3.1
1912/13	355,897	18,150	6.2	*	1957/58	1,508,240	53,134	3.6	3.4
1913/14	379,496	25,408	7.1	*	1958/59	1,569,825	63,930	4.2	3.8
1914/15	373,224	41,239	10.9	8.1	1959/60	1,626,537	58,313	3.7	3.9
1915/16	383,674	26,169	7.0	8.3	1960/61	1,689,302	65,943	4.1	4.0
1916/17	397,126	15,252	4.0	7.3	1961/62	1,754,580	66,102	3.9	3.9
1917/18	409,159	12,033	3.0	4.7	1962/63	1,834,074	85,800	4.9	4.3
1918/19	429,286	22,786	5.6	4.2	1963/64	1,705,577	67,711	3.7	4.2
1919/20	444,268	14,983	3.5	4.0	1964/65	1,992,743	78,733	4.6	4.4
1920/21	469,506	26,294	5.9	5.0	1965/66	2,097,737	106,390	5.3	4.5
1921/22	492,186	25,281	5.4	4.9	1966/67	2,202,206	108,480	5.2	5.0
1922/23	525,939	33,851	6.9	6.1	1967/68	1,998,491	81,340	3.7	4.7
1923/24	545,413	22,558	4.3	5.5	1968/69	2,099,761	97,029	4.9	4.6
1924/25	574,503	33,675	6.2	5.8	1969/70	2,194,273	95,911	4.6	4.4
1925/26	593,954	23,910	4.2	4.9	1970/71	2,314,323	121,356	5.5	5.0
1926/27	594,195	21,178	3.6	4.6	1971/72	2,412,871	99,824	4.3	4.8
1927/28	611,370	20,021	3.4	3.7	1972/73	2,518,392	108,687	4.5	4.8
1928/29	630,885	19,515	3.2	3.4	1973/74	2,615,317	103,510	4.1	4.3
1929/30	643,861	19,511	3.1	3.2	1974/75	2,715,458	106,983	4.1	4.2
1930/31	664,024	20,163	3.1	3.1	1975/76	2,812,253	101,527	3.7	4.0
1931/32	678,299	20,750	3.1	3.1	1976/77	2,910,461	101,083	3.6	3.8
1932/33	699,263	20,075	3.0	3.1	1977/78	3,091,903	101,492	3.5	3.6
1933/34	709,450	19,550	2.8	3.0	1978/79	3,172,238	82,632	2.7	3.3
1934/35	725,942	23,315	3.3	3.0	1979/80	3,260,396	90,722	2.9	3.0
1935/36	744,090	20,771	2.9	3.0	1980/81	3,363,282	78,284	2.4	2.6
1936/37	898,836	157,332	21.1	9.1	1981/82	3,430,242	72,843	2.2	2.5
1937/38	919,555	23,778	2.6	8.9	1982/83	3,519,262	95,131	2.8	2.4
1938/39	939,017	21,758	2.4	8.7	1983/84	3,636,334	123,993	3.5	2.8
1939/40	959,645	22,885	2.4	2.5					
1940/41	976,260	19,781	2.1	2.3					
1941/42	990,657	16,695	1.7	2.1					
1942/43	1,003,809	16,096	1.6	1.8					
1943/44	1,017,077	16,823	1.7	1.7					
1944/45	1,039,849	19,800	1.9	1.7					
1945/46	1,058,920	20,361	2.0	1.9					
1946/47	1,086,280	27,360	2.6	2.2					
1947/48	1,119,695	33,415	3.1	2.5					
1948/49	1,143,097	24,475	2.2	2.6					
1949/50	1,166,634	25,730	2.3	2.5					
1950/51	1,193,085	25,220	2.2	2.2					
1951/52	1,211,999	22,708	1.9	2.1					
1952/53	1,243,115	32,117	2.6	2.2					
1953/54	1,275,703	34,018	2.7	2.4					
1954/55	1,308,000	34,219	2.7	2.7					
1955/56	1,407,179	37,618	2.9	2.8					

A footnote in the Princeton Compilation notes that the Volumes ("Book stock") and Volumes Added figures for 1936/37 include the Gest Oriental Library with 133,419 volumes "from this point on" (Princeton, 1947).

INCREASE IN VOLUMES AT PRINCETON

AS A PERCENT
1907/08-1983/84



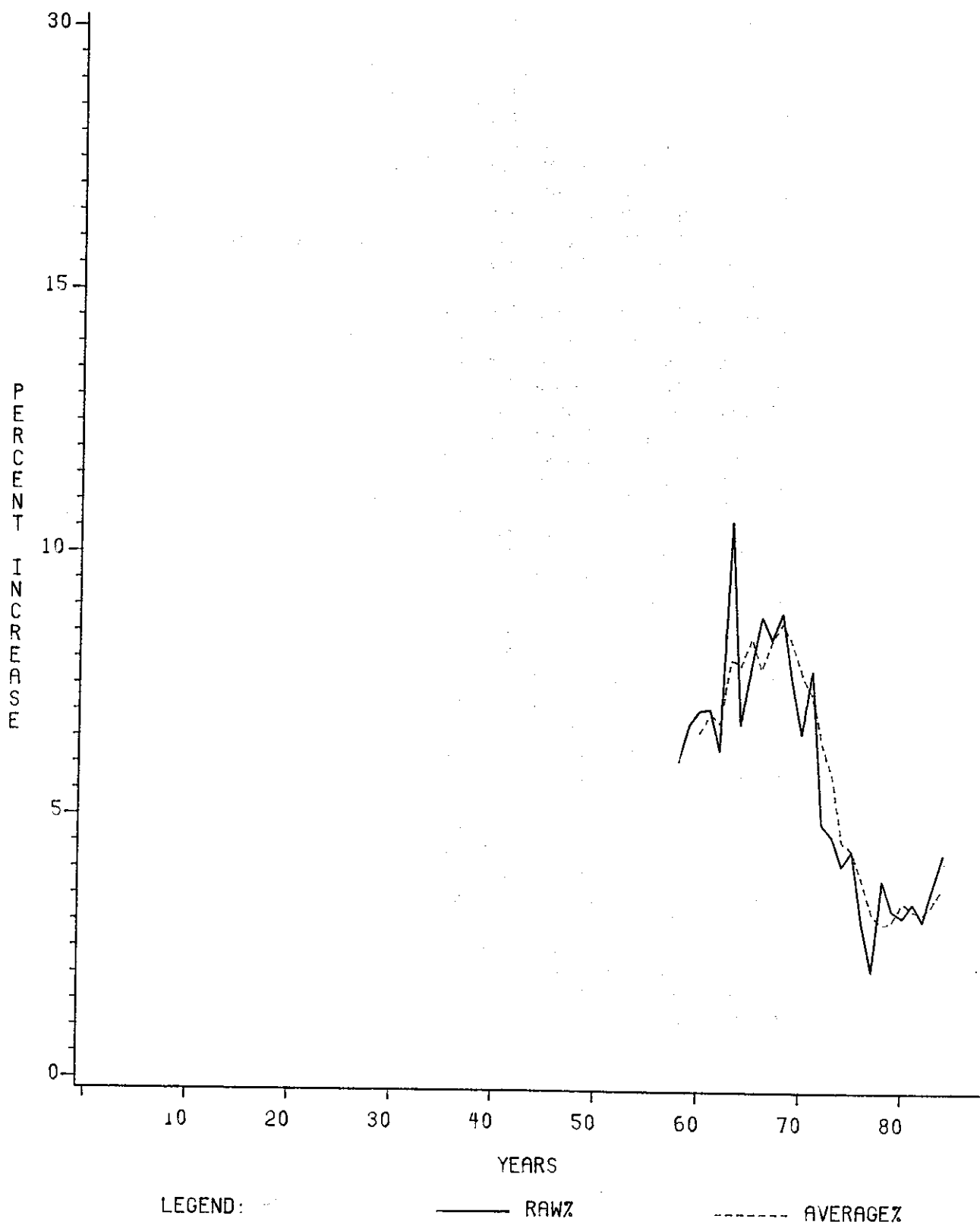
GROWTH AT PURDUE

INSTITUTION
NUMBER: 6900

YEAR	VOLUMES	VOLUMES		AVE.	
		ADDED	%	%	%
1956/57	417,258	23,890	*	*	
1957/58	440,074	25,348	6.1	*	
1958/59	469,877	29,803	6.8	*	
1959/60	502,124	33,097	7.0	6.6	
1960/61	535,262	35,519	7.1	7.0	
1961/62	564,383	33,591	6.3	6.8	
1962/63	620,022	60,022	10.6	8.0	
1963/64	660,559	41,985	6.8	7.9	
1964/65	710,822	51,925	7.9	8.4	
1965/66	770,666	62,796	8.8	7.8	
1966/67	833,572	64,617	8.4	8.4	
1967/68	903,738	74,241	8.9	8.7	
1968/69	968,597	68,735	7.6	8.3	
1969/70	1,025,789	63,841	6.6	7.7	
1970/71	1,100,603	80,034	7.8	7.3	
1971/72	1,011,430	53,665	4.9	6.4	
1972/73	1,047,334	47,037	4.7	5.8	
1973/74	1,085,100	42,919	4.1	4.5	
1974/75	1,231,673	47,576	4.4	4.4	
1975/76	1,247,975	37,298	3.0	3.8	
1976/77	1,265,156	26,103	2.1	3.2	
1977/78	1,357,775	48,503	3.8	3.0	
1978/79	1,388,152	44,064	3.2	3.1	
1979/80	1,424,896	43,302	3.1	3.4	
1980/81	1,468,805	48,446	3.4	3.3	
1981/82	1,503,098	44,965	3.1	3.2	
1982/83	1,538,062	56,022	3.7	3.4	
1983/84	1,593,668	66,680	4.3	3.7	

INCREASE IN VOLUMES AT PURDUE

AS A PERCENT
1907/08-1983/84



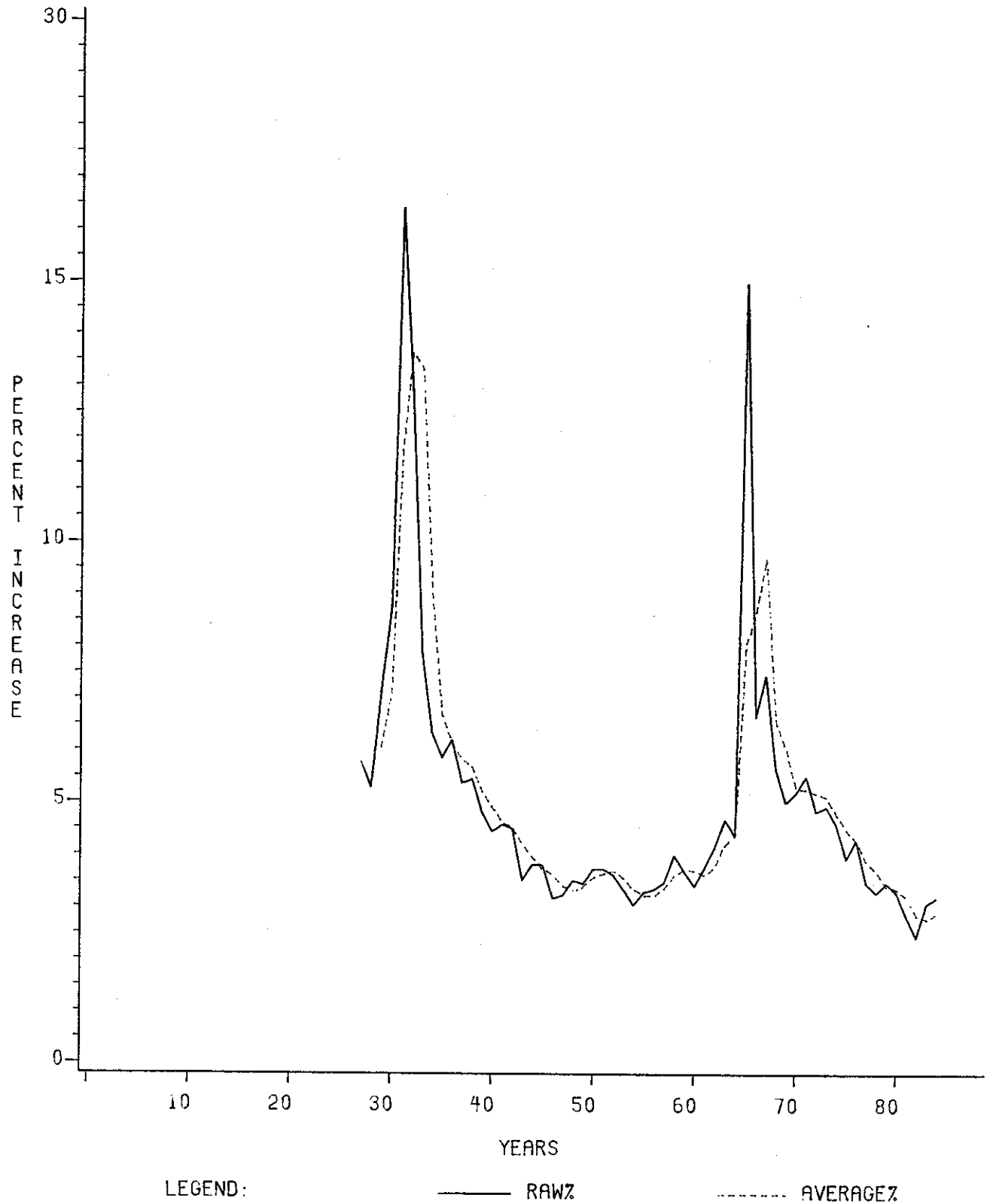
GROWTH AT ROCHESTER

INSTITUTION
NUMBER: 7200

YEAR	VOLUMES	VOLUMES ADDED	%	AVE. %	YEAR	VOLUMES	VOLUMES ADDED	%	AVE. %
1925/26	140,380	13,826	*	*	1970/71	1,179,224	62,000	5.5	5.2
1926/27	163,700	8,101	5.8	*	1971/72	1,232,324	56,800	4.8	5.2
1927/28	163,015	8,647	5.3	*	1972/73	1,294,471	60,584	4.9	5.1
1928/29	175,839	11,626	7.1	6.1	1973/74	1,351,715	59,073	4.6	4.8
1929/30	191,266	15,427	8.8	7.1	1974/75	1,402,000	53,000	3.9	4.5
1930/31	204,331	36,817	19.2	11.7	1975/76	1,600,000	60,000	4.3	4.3
1931/32	230,692	26,262	12.9	13.6	1976/77	1,653,000	55,000	3.4	3.9
1932/33	248,795	18,103	7.8	13.3	1977/78	1,565,000	54,000	3.3	3.7
1933/34	264,490	15,695	6.3	9.0	1978/79	1,647,000	54,100	3.5	3.4
1934/35	279,960	15,470	5.8	6.7	1979/80	1,700,000	54,000	3.3	3.3
1935/36	297,689	17,329	6.2	6.1	1980/81	1,745,000	48,000	2.8	3.2
1936/37	313,233	15,944	5.4	5.8	1981/82	1,871,675	42,058	2.4	2.8
1937/38	329,706	17,059	5.4	5.7	1982/83	1,925,138	57,465	3.1	2.8
1938/39	345,522	15,816	4.8	5.2	1983/84	1,969,702	61,305	3.2	2.9
1939/40	360,184	15,315	4.4	4.9					
1940/41	376,660	16,476	4.6	4.6					
1941/42	392,820	16,900	4.5	4.5					
1942/43	406,198	13,734	3.5	4.2					
1943/44	421,684	15,486	3.8	3.9					
1944/45	436,703	16,010	3.8	3.7					
1945/46	449,995	13,780	3.2	3.6					
1946/47	464,485	14,490	3.2	3.4					
1947/48	479,617	16,262	3.5	3.3					
1948/49	496,097	16,480	3.4	3.4					
1949/50	514,575	18,478	3.7	3.6					
1950/51	531,119	19,142	3.7	3.6					
1951/52	548,305	19,097	3.6	3.7					
1952/53	565,068	18,181	3.3	3.5					
1953/54	580,609	17,122	3.0	3.3					
1954/55	596,914	18,993	3.3	3.2					
1955/56	613,526	19,899	3.3	3.2					
1956/57	631,702	21,198	3.5	3.4					
1957/58	654,641	25,197	4.0	3.6					
1958/59	674,771	23,983	3.7	3.7					
1959/60	696,630	22,854	3.4	3.7					
1960/61	721,119	26,117	3.7	3.6					
1961/62	749,217	29,871	4.1	3.8					
1962/63	781,496	34,993	4.7	4.2					
1963/64	811,896	33,993	4.3	4.4					
1964/65	931,490	121,691	15.0	8.0					
1965/66	991,280	61,894	6.6	8.7					
1966/67	1,063,094	73,773	7.4	9.7					
1967/68	1,022,759	59,891	5.6	6.6					
1968/69	1,072,642	51,013	5.0	6.0					
1969/70	1,127,024	55,591	5.2	5.3					

INCREASE IN VOLUMES AT ROCHESTER

AS A PERCENT
1907/08-1983/84



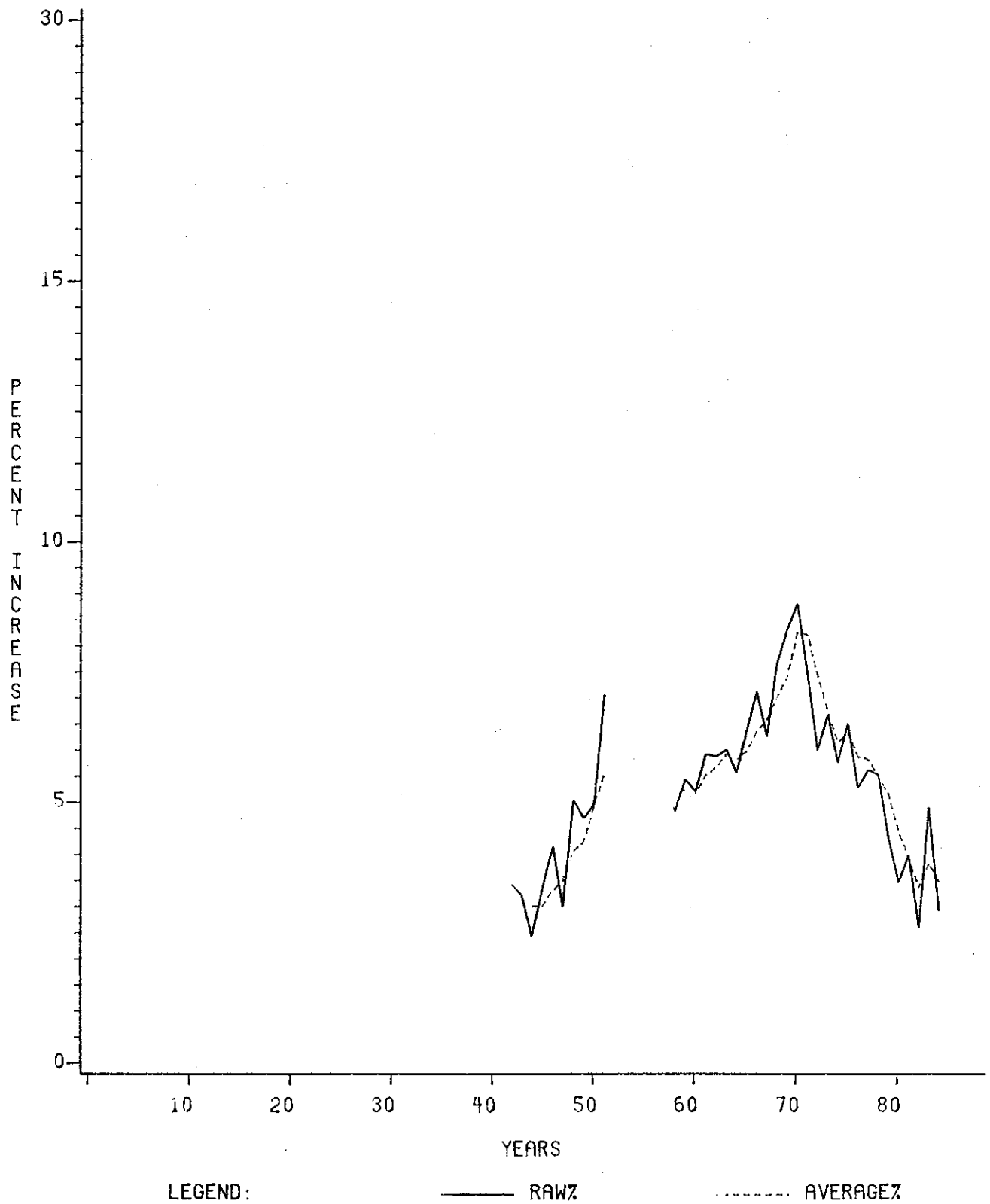
GROWTH AT RUTGERS

 INSTITUTION
 NUMBER: 7300

YEAR	VOLUMES	VOLUMES		AVE.	
		ADDED	%	%	%
1940/41	342,802	10,123	*	*	
1941/42	336,502	11,700	3.4	*	
1942/43	347,314	10,812	3.2	*	
1943/44	355,721	8,407	2.4	3.0	
1944/45	367,640	11,919	3.4	3.0	
1945/46	482,454	15,275	4.2	3.3	
1946/47	496,953	14,499	3.0	3.5	
1947/48	522,007	25,054	5.0	4.1	
1948/49	546,530	24,523	4.7	4.2	
1949/50	573,602	27,072	5.0	4.9	
1950/51	615,710	40,528	7.1	5.6	
1951/52	*	*	*	*	
1952/53	*	*	*	*	
1953/54	*	*	*	*	
1954/55	*	*	*	*	
1955/56	*	*	*	*	
1956/57	780,250	28,301	*	*	
1957/58	817,995	37,745	4.8	*	
1958/59	862,554	44,559	5.4	*	
1959/60	907,452	44,898	5.2	5.2	
1960/61	961,272	53,820	5.9	5.5	
1961/62	1,017,765	56,493	5.9	5.7	
1962/63	1,078,916	61,151	6.0	5.9	
1963/64	1,138,269	60,073	5.6	5.8	
1964/65	1,207,350	72,781	6.4	6.0	
1965/66	1,289,554	85,993	7.1	6.4	
1966/67	1,367,670	80,859	6.3	6.6	
1967/68	1,468,139	104,869	7.7	7.0	
1968/69	1,655,964	122,148	8.3	7.4	
1969/70	1,791,526	145,855	8.8	8.3	
1970/71	1,916,039	133,530	7.5	8.2	
1971/72	1,584,259	114,932	6.0	7.4	
1972/73	1,655,119	105,737	6.7	6.7	
1973/74	1,736,978	95,425	5.8	6.1	
1974/75	1,839,894	113,178	6.5	6.3	
1975/76	1,927,021	97,175	5.3	5.9	
1976/77	1,995,278	108,352	5.6	5.8	
1977/78	2,082,970	110,176	5.5	5.5	
1978/79	2,166,200	90,402	4.3	5.2	
1979/80	2,216,843	75,109	3.5	4.4	
1980/81	2,290,013	88,432	4.0	3.9	
1981/82	2,024,215	59,730	2.6	3.4	
1982/83	2,083,310	99,269	4.9	3.8	
1983/84	2,140,698	61,146	2.9	3.5	

INCREASE IN VOLUMES AT RUTGERS

AS A PERCENT
1907/08-1983/84



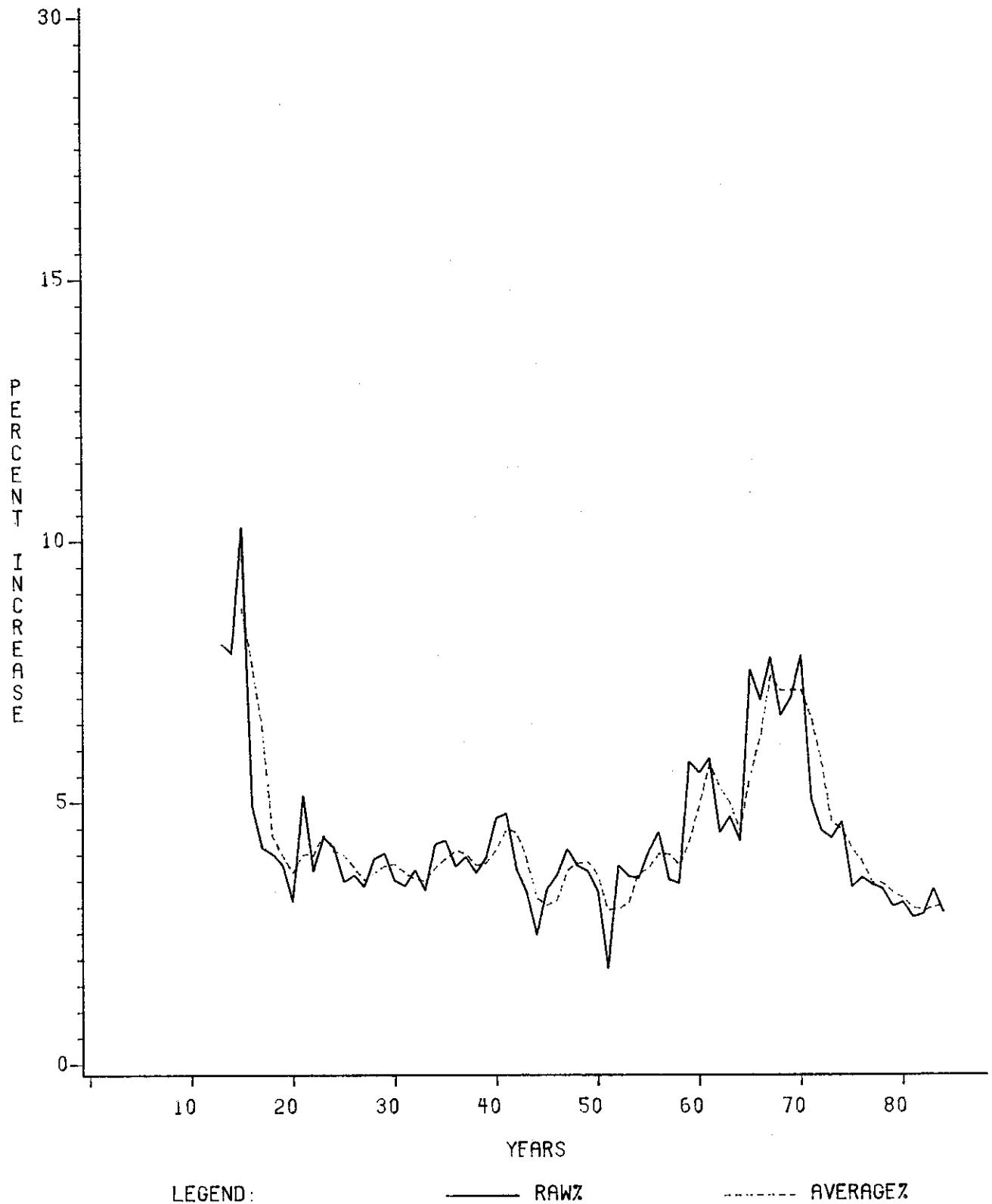
GROWTH AT STANFORD

INSTITUTION
NUMBER: 7700

YEAR	VOLUMES	VOLUMES ADDED	%	AVE. %	YEAR	VOLUMES	VOLUMES ADDED	%	AVE. %
1911/12	205,801	14,684	*	*	1956/57	1,414,611*	48,034	3.5	4.0
1912/13	221,720	16,530	8.0	*	1957/58	1,355,715	48,772	3.4	3.8
1913/14	239,122	17,402	7.8	*	1958/59	1,448,080	78,085	5.8	4.2
1914/15	263,657	24,535	10.3	8.7	1959/60	1,592,287	80,463	5.6	4.9
1915/16	276,251	12,982	4.9	7.7	1960/61	1,615,740	92,945	5.8	5.7
1916/17	287,634	11,383	4.1	6.4	1961/62	2,287,332	71,323	4.4	5.3
1917/18	298,856	11,550	4.0	4.4	1962/63	2,379,079	108,119	4.7	5.0
1918/19	310,230	11,374	3.8	4.0	1963/64	2,416,372	101,381	4.3	4.5
1919/20	319,872	9,642	3.1	3.6	1964/65	2,560,334	181,745	7.5	5.5
1920/21	336,181	16,456	5.1	4.0	1965/66	2,627,095	177,684	6.9	6.2
1921/22	348,058	12,435	3.7	4.0	1966/67	2,940,208	204,053	7.8	7.4
1922/23	362,889	15,103	4.3	4.4	1967/68	3,071,372	195,450	6.6	7.1
1923/24	375,903	15,015	4.1	4.1	1968/69	3,262,978	214,397	7.0	7.1
1924/25	390,988	13,084	3.5	4.0	1969/70	3,447,372	254,355	7.8	7.1
1925/26	404,833	14,119	3.6	3.7	1970/71	3,584,123	173,721	5.0	6.6
1926/27	420,516	13,742	3.4	3.5	1971/72	3,721,343	159,229	4.4	5.8
1927/28	490,733	16,542	3.9	3.6	1972/73	3,851,260	160,337	4.3	4.6
1928/29	511,034	19,778	4.0	3.8	1973/74	3,982,009	177,926	4.6	4.5
1929/30	528,934	17,900	3.5	3.8	1974/75	4,092,362	134,377	3.4	4.1
1930/31	546,932	17,998	3.4	3.6	1975/76	4,175,976	145,367	3.6	3.8
1931/32	567,243	20,311	3.7	3.5	1976/77	4,363,593	142,515	3.4	3.4
1932/33	586,089	18,846	3.3	3.5	1977/78	4,487,703	145,360	3.3	3.4
1933/34	610,737	24,648	4.2	3.7	1978/79	4,577,827	134,807	3.0	3.2
1934/35	635,873	26,138	4.3	3.9	1979/80	4,694,769	141,208	3.1	3.1
1935/36	659,897	24,024	3.8	4.1	1980/81	4,813,393	131,303	2.8	3.0
1936/37	685,735	26,076	4.0	4.0	1981/82	4,889,448	137,403	2.9	2.9
1937/38	710,806	25,071	3.7	3.8	1982/83	5,040,940	163,099	3.3	3.0
1938/39	738,879	28,073	3.9	3.9	1983/84	5,177,088	145,725	2.9	3.0
1939/40	773,626	34,747	4.7	4.1					
1940/41	810,137	37,068	4.8	4.5					
1941/42	840,162	30,025	3.7	4.4					
1942/43	867,658	27,496	3.3	3.9					
1943/44	889,151	21,493	2.5	3.2					
1944/45	918,873	29,722	3.3	3.0					
1945/46	952,051	33,179	3.6	3.1					
1946/47	1,045,734	39,199	4.1	3.7					
1947/48	1,191,024	39,542	3.8	3.8					
1948/49	1,221,826	43,912	3.7	3.9					
1949/50	1,092,008	40,301	3.3	3.6					
1950/51	1,128,893	20,041	1.8	2.9					
1951/52	1,171,695	42,802	3.8	3.0					
1952/53	1,213,716	42,021	3.6	3.1					
1953/54	1,257,698	43,061	3.5	3.6					
1954/55	1,308,680	50,992	4.1	3.7					
1955/56	1,366,627	57,947	4.4	4.0					

INCREASE IN VOLUMES AT STANFORD

AS A PERCENT
1907/08-1983/84



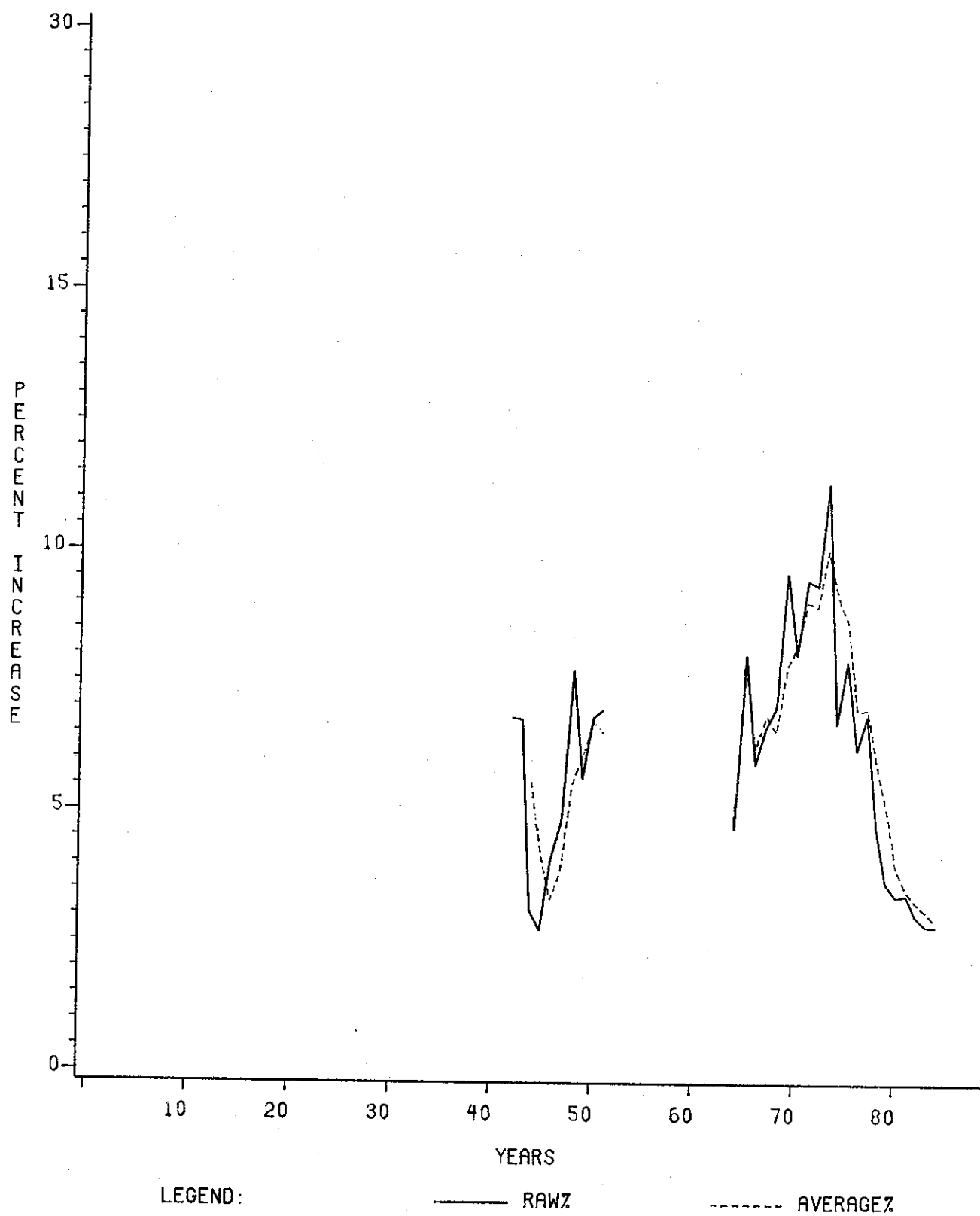
GROWTH AT TEMPLE

INSTITUTION
NUMBER: 8200

YEAR	VOLUMES	VOLUMES ADDED	%	AVE. %
1940/41	210,087	19,167	*	*
1941/42	224,364	14,277	6.8	*
1942/43	242,370	15,150	6.8	*
1943/44	248,007	7,452	3.1	5.5
1944/45	257,152	6,706	2.7	4.2
1945/46	262,000	10,425	4.1	3.3
1946/47	274,500	12,500	4.8	3.8
1947/48	291,693	21,147	7.7	5.5
1948/49	307,058	16,427	5.6	6.0
1949/50	322,633	20,918	6.8	6.7
1950/51	339,885	22,460	7.0	6.5
.....				
.....				
1962/63	619,835	36,347	*	*
1963/64	642,474	29,045	4.7	*
1964/65	692,106	51,593	8.0	*
1965/66	730,791	40,970	5.9	6.2
1966/67	776,628	48,363	6.6	6.9
1967/68	831,228	54,600	7.0	6.5
1968/69	905,149	79,832	9.6	7.8
1969/70	971,688	72,689	8.0	8.2
1970/71	1,055,893	91,861	9.5	9.0
1971/72	1,142,862	98,664	9.3	8.9
1972/73	1,107,699	129,377	11.3	10.0
1973/74	1,165,884	74,330	6.7	9.1
1974/75	1,247,261	92,318	7.9	8.6
1975/76	1,315,884	77,276	6.2	6.9
1976/77	1,446,011	90,324	6.9	7.0
1977/78	1,501,025	67,983	4.7	5.9
1978/79	1,544,274	54,830	3.7	5.1
1979/80	1,592,849	52,258	3.4	3.9
1980/81	1,641,057	54,749	3.4	3.5
1981/82	1,683,308	49,478	3.0	3.3
1982/83	1,742,595	47,672	2.8	3.1
1983/84	1,787,130	49,112	2.8	2.9

INCREASE IN VOLUMES AT TEMPLE

AS A PERCENT
1907/08-1983/84



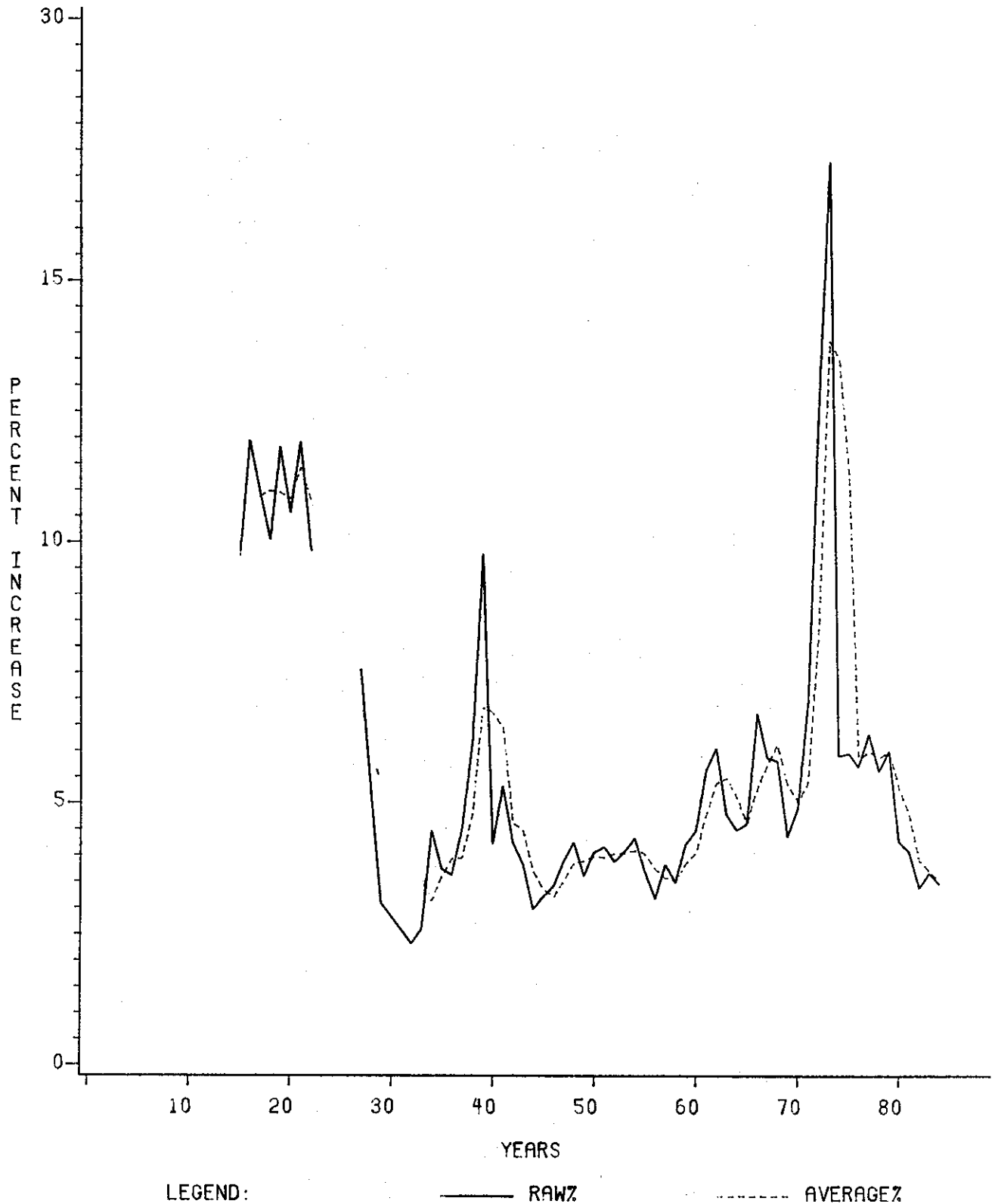
GROWTH AT TEXAS

INSTITUTION
NUMBER: 8400

YEAR	VOLUMES	VOLUMES ADDED	%	AVE. %	YEAR	VOLUMES	VOLUMES ADDED	%	AVE. %
1913/14	100,774	11,694	*	*	1958/59	1,299,217	52,688	4.2	3.8
1914/15	109,032	9,811	9.7	*	1959/60	1,350,671	58,094	4.5	4.1
1915/16	120,825	13,026	11.9	*	1960/61	1,424,861	76,171	5.6	4.8
1916/17	134,242	13,210	10.9	10.9	1961/62	1,508,262	86,203	6.0	5.4
1917/18	148,160	13,487	10.0	11.0	1962/63	1,578,490	72,093	4.8	5.5
1918/19	165,678	17,514	11.8	10.9	1963/64	1,649,280	70,790	4.5	5.1
1919/20	183,263	17,483	10.6	10.8	1964/65	1,724,332	76,023	4.6	4.6
1920/21	205,097	21,833	11.9	11.4	1965/66	1,838,645	115,836	6.7	5.3
1921/22	225,347	20,250	9.9	10.8	1966/67	1,945,271	107,707	5.9	5.7
1922/23	*	*	*	*	1967/68	2,075,615	112,957	5.8	6.1
1923/24	282,048	18,536	*	*	1968/69	2,165,728	90,538	4.4	5.3
1924/25	*	*	*	*	1969/70	2,269,785	105,947	4.9	5.0
1925/26	416,523	17,041	*	*	1970/71	2,427,062	157,682	6.9	5.4
1926/27	388,016	31,362	7.5	*	1971/72	2,734,595	309,853	12.8	8.2
1927/28	411,310	20,161	5.2	*	1972/73	3,330,871	596,985	21.8	13.8
1928/29	430,082	12,692	3.1	5.3	1973/74	3,518,690	196,538	5.9	13.5
1929/30	*	*	*	*	1974/75	3,726,134	209,614	6.0	11.2
1930/31	459,873	17,425	*	*	1975/76	3,878,535	212,396	5.7	5.9
1931/32	471,515	10,642	2.3	*	1976/77	4,053,715	245,056	6.3	6.0
1932/33	450,249	12,235	2.6	*	1977/78	4,224,101	227,532	5.6	5.9
1933/34	473,837	20,158	4.5	3.1	1978/79	4,406,193	253,578	6.0	6.0
1934/35	490,345	17,686	3.7	3.6	1979/80	4,547,508	188,132	4.3	5.3
1935/36	509,127	17,782	3.6	3.9	1980/81	4,702,122	185,225	4.1	4.8
1936/37	531,454	22,985	4.5	4.0	1981/82	4,846,764	159,155	3.4	3.9
1937/38	564,360	32,906	6.2	4.8	1982/83	5,057,649	177,633	3.7	3.7
1938/39	618,856	55,159	9.8	6.8	1983/84	5,209,536	174,634	3.5	3.5
1939/40	639,732	26,117	4.2	6.7					
1940/41	673,888	34,156	5.3	6.4					
1941/42	702,429	28,541	4.2	4.6					
1942/43	729,319	26,890	3.8	4.5					
1943/44	750,974	21,655	3.0	3.7					
1944/45	775,124	24,150	3.2	3.3					
1945/46	801,637	26,513	3.4	3.2					
1946/47	832,786	31,149	3.9	3.5					
1947/48	868,171	35,385	4.2	3.9					
1948/49	898,755	31,362	3.6	3.9					
1949/50	934,290	36,623	4.1	4.0					
1950/51	973,279	38,989	4.2	4.0					
1951/52	1,011,153	37,859	3.9	4.0					
1952/53	1,050,755	41,294	4.1	4.0					
1953/54	1,095,284	45,531	4.3	4.1					
1954/55	1,132,128	40,313	3.7	4.0					
1955/56	1,166,295	36,044	3.2	3.7					
1956/57	1,208,265	44,653	3.8	3.6					
1957/58	1,248,265	42,154	3.5	3.5					

INCREASE IN VOLUMES AT TEXAS

AS A PERCENT
1907/08-1983/84



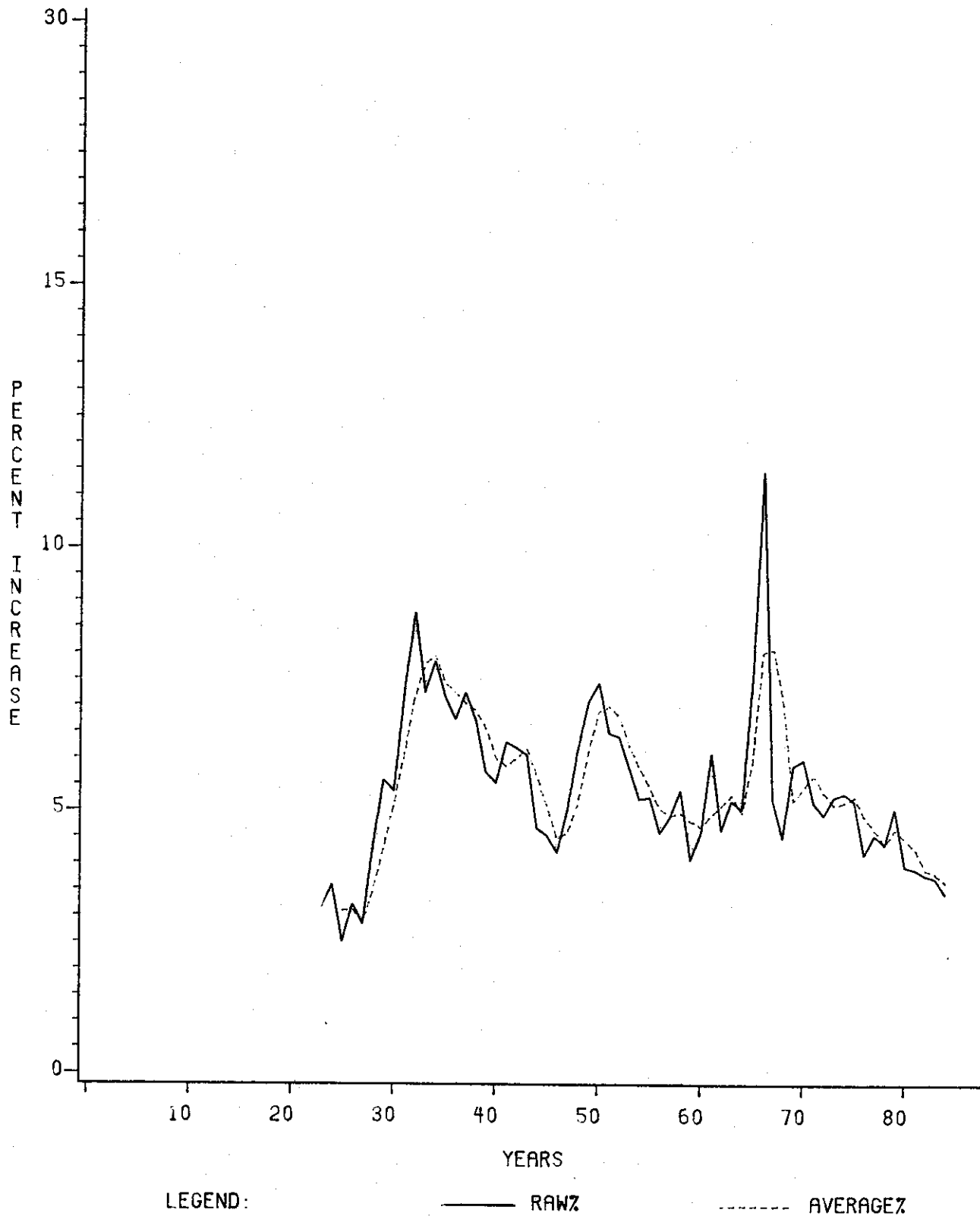
GROWTH AT VIRGINIA

INSTITUTION
NUMBER: 8900

YEAR	VOLUMES	VOLUMES ADDED	%	AVE. %	YEAR	VOLUMES	VOLUMES ADDED	%	AVE. %
1921/22	120,000	*	*	*	1966/67	1,759,166	79,569	5.2	8.1
1922/23	123,780	3,780	3.1	*	1967/68	1,445,229	78,606	4.5	7.0
1923/24	128,220	4,440	3.6	*	1968/69	1,527,903	84,521	5.8	5.2
1924/25	131,422	3,202	2.5	3.1	1969/70	1,618,249	91,002	6.0	5.4
1925/26	136,142	4,220	3.2	3.1	1970/71	1,699,151	83,258	5.1	5.6
1926/27	140,000	3,858	2.8	2.8	1971/72	1,777,936	83,277	4.9	5.3
1927/28	157,446	6,113	4.4	3.5	1972/73	1,867,991	93,304	5.2	5.1
1928/29	163,162	8,773	5.6	4.3	1973/74	1,951,040	99,355	5.3	5.2
1929/30	171,899	8,737	5.4	5.1	1974/75	2,006,454	100,873	5.2	5.2
1930/31	184,468	12,569	7.3	6.1	1975/76	2,083,424	83,325	4.2	4.9
1931/32	200,644	16,176	8.8	7.1	1976/77	2,143,226	94,437	4.5	4.6
1932/33	215,168	14,524	7.2	7.8	1977/78	2,231,611	93,244	4.4	4.3
1933/34	232,014	16,846	7.8	7.9	1978/79	2,351,842	112,121	5.0	4.6
1934/35	248,580	16,566	7.1	7.4	1979/80	2,431,322	92,357	3.9	4.4
1935/36	265,273	16,693	6.7	7.2	1980/81	2,391,585	94,088	3.9	4.3
1936/37	284,462	19,189	7.2	7.0	1981/82	2,466,753	90,164	3.8	3.9
1937/38	303,502	19,040	6.7	6.9	1982/83	2,550,064	91,553	3.7	3.8
1938/39	320,835	17,333	5.7	6.5	1983/84	2,622,969	86,975	3.4	3.6
1939/40	338,535	17,700	5.5	6.0					
1940/41	359,811	21,276	6.3	5.8					
1941/42	382,050	22,239	6.2	6.0					
1942/43	405,145	23,095	6.0	6.2					
1943/44	424,002	18,857	4.7	5.6					
1944/45	443,128	19,126	4.5	5.1					
1945/46	461,691	18,563	4.2	4.5					
1946/47	484,826	23,135	5.0	4.6					
1947/48	514,900	30,074	6.2	5.1					
1948/49	551,497	36,397	7.1	6.1					
1949/50	592,390	40,893	7.4	6.9					
1950/51	630,633	38,243	6.5	7.0					
1951/52	670,948	40,305	6.4	6.8					
1952/53	709,816	38,868	5.8	6.2					
1953/54	746,834	37,018	5.2	5.8					
1954/55	785,277	39,160	5.2	5.4					
1955/56	821,143	35,866	4.6	5.0					
1956/57	850,896	40,069	4.9	4.9					
1957/58	895,632	45,748	5.4	4.9					
1958/59	926,293	36,368	4.1	4.8					
1959/60	966,390	42,260	4.6	4.7					
1960/61	1,104,610	58,795	6.1	4.9					
1961/62	1,155,488	50,878	4.6	5.1					
1962/63	1,214,625	59,839	5.2	5.3					
1963/64	1,159,809	60,696	5.0	4.9					
1964/65	1,367,293	87,719	7.6	5.9					
1965/66	1,532,577	156,460	11.4	8.0					

INCREASE IN VOLUMES AT VIRGINIA

AS A PERCENT
1907/08-1983/84



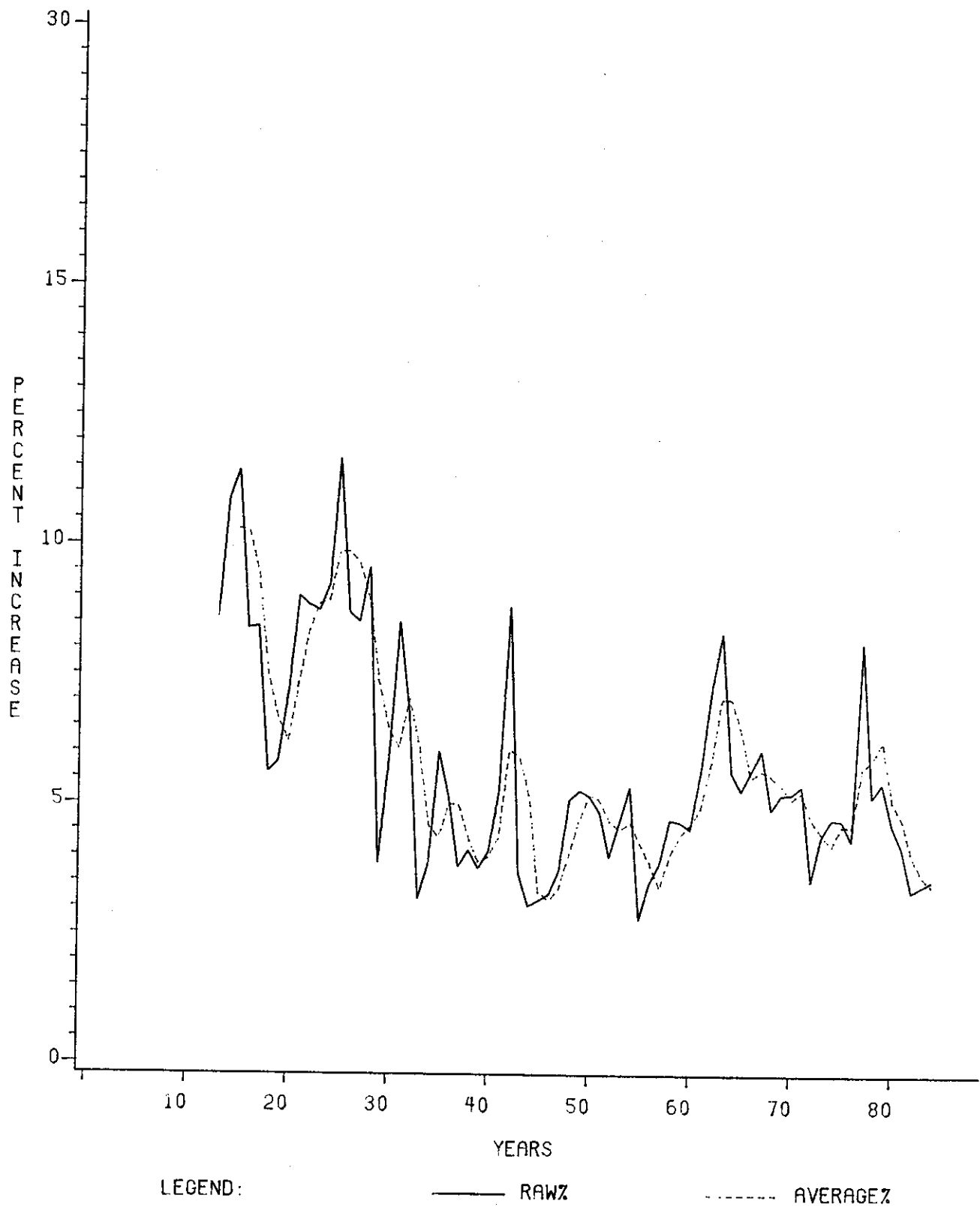
GROWTH AT WASHINGTON (SEATTLE)

INSTITUTION
NUMBER: 9100

YEAR	VOLUMES	VOLUMES ADDED	%	AVE. %	YEAR	VOLUMES	VOLUMES ADDED	%	AVE. %
1907/08	35,519	4,398	*	*	1952/53	802,681	35,463	4.7	4.5
1908/09	*	*	*	*	1953/54	842,928	42,779	5.3	4.7
1909/10	41,650	2,586	*	*	1954/55	865,002	23,545	2.8	4.3
1910/11	*	*	*	*	1955/56	895,079	30,205	3.5	3.9
1911/12	50,163	5,857	*	*	1956/57	928,700	34,517	3.9	3.4
1912/13	52,614	4,310	8.6	*	1957/58	971,935	43,711	4.7	4.0
1913/14	58,330	5,716	10.9	*	1958/59	1,014,328	45,177	4.6	4.4
1914/15	64,991	6,661	11.4	10.3	1959/60	1,060,086	45,918	4.5	4.6
1915/16	74,068	5,447	8.4	10.2	1960/61	1,104,485	59,705	5.6	4.9
1916/17	80,307	6,239	8.4	9.4	1961/62	1,173,496	79,431	7.2	5.8
1917/18	84,809	4,502	5.6	7.5	1962/63	1,267,031	97,392	8.3	7.0
1918/19	89,727	4,918	5.8	6.6	1963/64	1,323,330	71,104	5.6	7.0
1919/20	96,128	6,401	7.1	6.2	1964/65	1,390,636	69,741	5.3	6.4
1920/21	104,776	8,648	9.0	7.3	1965/66	1,466,906	78,522	5.6	5.5
1921/22	114,014	9,238	8.8	8.3	1966/67	1,553,014	88,658	6.0	5.7
1922/23	120,964	9,946	8.7	8.8	1967/68	1,625,631	76,081	4.9	5.5
1923/24	132,007	11,143	9.2	8.9	1968/69	1,704,698	84,352	5.2	5.4
1924/25	143,840	15,391	11.7	9.9	1969/70	1,788,198	88,685	5.2	5.1
1925/26	154,877	12,464	8.7	9.8	1970/71	1,876,900	95,968	5.4	5.3
1926/27	174,668	13,169	8.5	9.6	1971/72	1,938,298	66,148	3.5	4.7
1927/28	191,358	16,690	9.6	8.9	1972/73	2,017,935	85,298	4.4	4.4
1928/29	198,757	7,378	3.9	7.3	1973/74	2,102,030	95,210	4.7	4.2
1929/30	207,069	11,618	5.8	6.4	1974/75	2,187,917	98,559	4.7	4.6
1930/31	292,982	17,600	8.5	6.1	1975/76	2,273,656	94,292	4.3	4.6
1931/32	257,853	19,768	6.7	7.0	1976/77	3,236,944	184,799	8.1	5.7
1932/33	265,492	8,179	3.2	6.1	1977/78	3,393,836	166,866	5.2	5.9
1933/34	275,820	10,180	3.8	4.6	1978/79	3,788,788	183,966	5.4	6.2
1934/35	366,962	16,598	6.0	4.3	1979/80	3,877,238	174,099	4.6	5.1
1935/36	385,809	18,860	5.1	5.0	1980/81	4,024,258	161,622	4.2	4.7
1936/37	400,463	14,654	3.8	5.0	1981/82	4,084,741	133,880	3.3	4.0
1937/38	429,717	16,482	4.1	4.4	1982/83	4,168,079	140,418	3.4	3.6
1938/39	444,934	16,145	3.8	3.9	1983/84	4,296,319	148,004	3.6	3.4
1939/40	458,082	18,140	4.1	4.0					
1940/41	478,687	23,904	5.2	4.4					
1941/42	519,518	42,168	8.8	6.0					
1942/43	535,296	19,027	3.7	5.9					
1943/44	552,875	16,251	3.0	5.2					
1944/45	575,694	17,466	3.2	3.3					
1945/46	588,295	18,760	3.3	3.2					
1946/47	610,994	21,812	3.7	3.4					
1947/48	642,470	31,186	5.1	4.0					
1948/49	666,348	33,787	5.3	4.7					
1949/50	700,716	34,368	5.2	5.2					
1950/51	733,429	33,949	4.8	5.1					
1951/52	761,161	29,274	4.0	4.7					

INCREASE IN VOLUMES AT WASHINGTON

AS A PERCENT
1907/08-1983/84



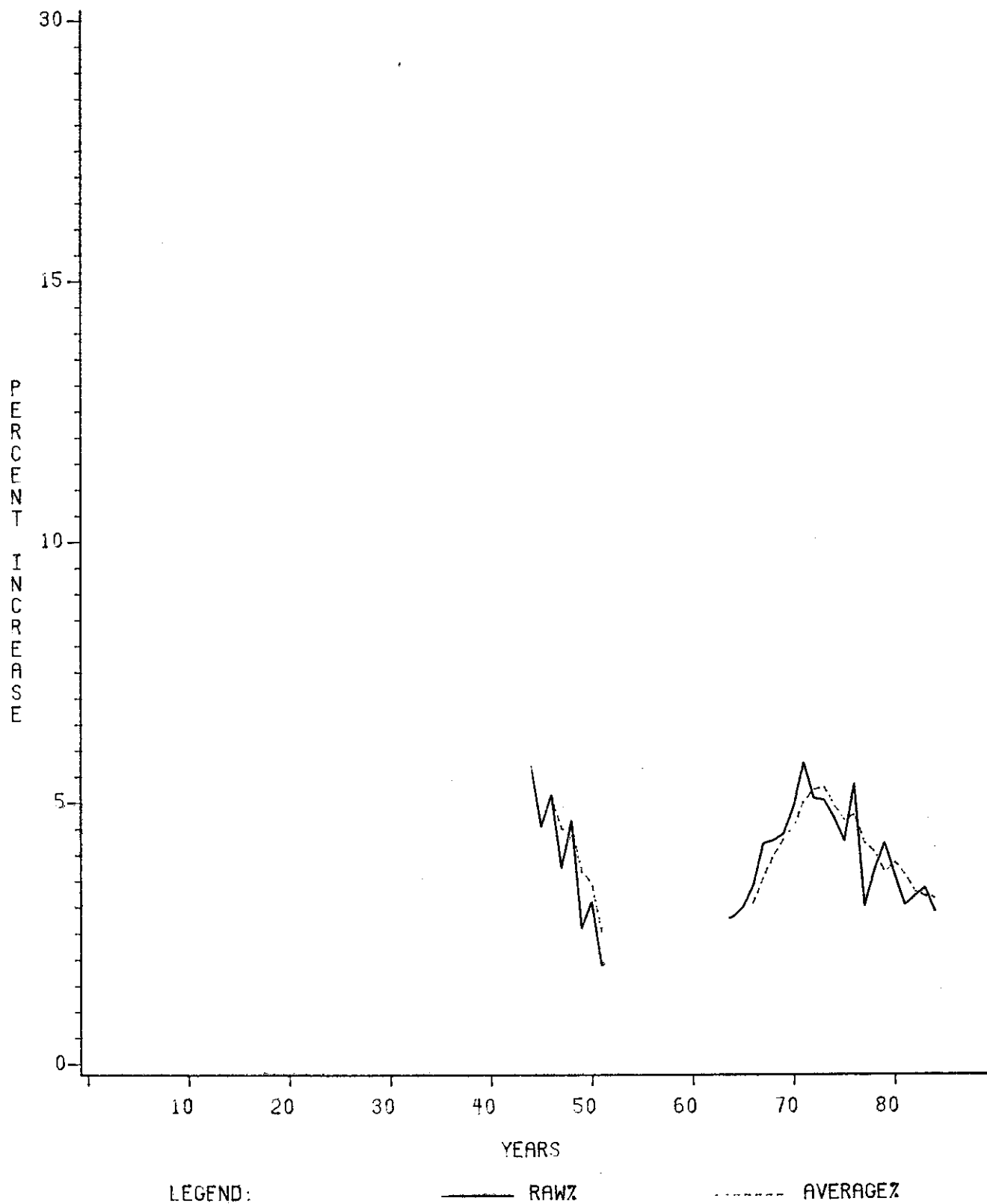
GROWTH AT WASHINGTON STATE

INSTITUTION
NUMBER: 9200

YEAR	VOLUMES	VOLUMES ADDED	%	AVE. %
1942/43	525,000	35,000	*	*
1943/44	555,000	30,000	5.7	*
1944/45	557,543	25,180	4.5	*
1945/46	591,340	28,755	5.2	5.1
1946/47	600,000	22,142	3.7	4.5
1947/48	610,763	27,889	4.6	4.5
1948/49	600,000	15,901	2.6	3.7
1949/50	600,000	18,560	3.1	3.4
1950/51	600,000	11,299	1.9	2.5
.....				
.....				
1962/63	800,000	16,518	*	*
1963/64	822,500	22,500	2.8	*
1964/65	850,000	24,672	3.0	*
1965/66	847,000	29,094	3.4	3.1
1966/67	914,880	35,786	4.2	3.5
1967/68	954,016	39,136	4.3	4.0
1968/69	774,285	41,975	4.4	4.3
1969/70	809,119	38,045	4.9	4.5
1970/71	853,458	46,643	5.8	5.0
1971/72	892,658	43,232	5.1	5.2
1972/73	931,378	45,023	5.0	5.3
1973/74	970,962	43,661	4.7	4.9
1974/75	1,010,211	41,416	4.3	4.7
1975/76	1,060,964	54,227	5.4	4.8
1976/77	1,092,099	31,991	3.0	4.2
1977/78	1,143,288	40,725	3.7	4.0
1978/79	1,189,899	48,477	4.2	3.7
1979/80	1,231,724	43,015	3.6	3.9
1980/81	1,265,979	37,392	3.0	3.6
1981/82	1,304,500	40,821	3.2	3.3
1982/83	1,346,609	43,998	3.4	3.2
1983/84	1,384,073	39,353	2.9	3.2

INCREASE IN VOLUMES AT WASHINGTON STATE

AS A PERCENT
1907/08-1983/84



GROWTH AT WASHINGTON U-ST. LOUIS

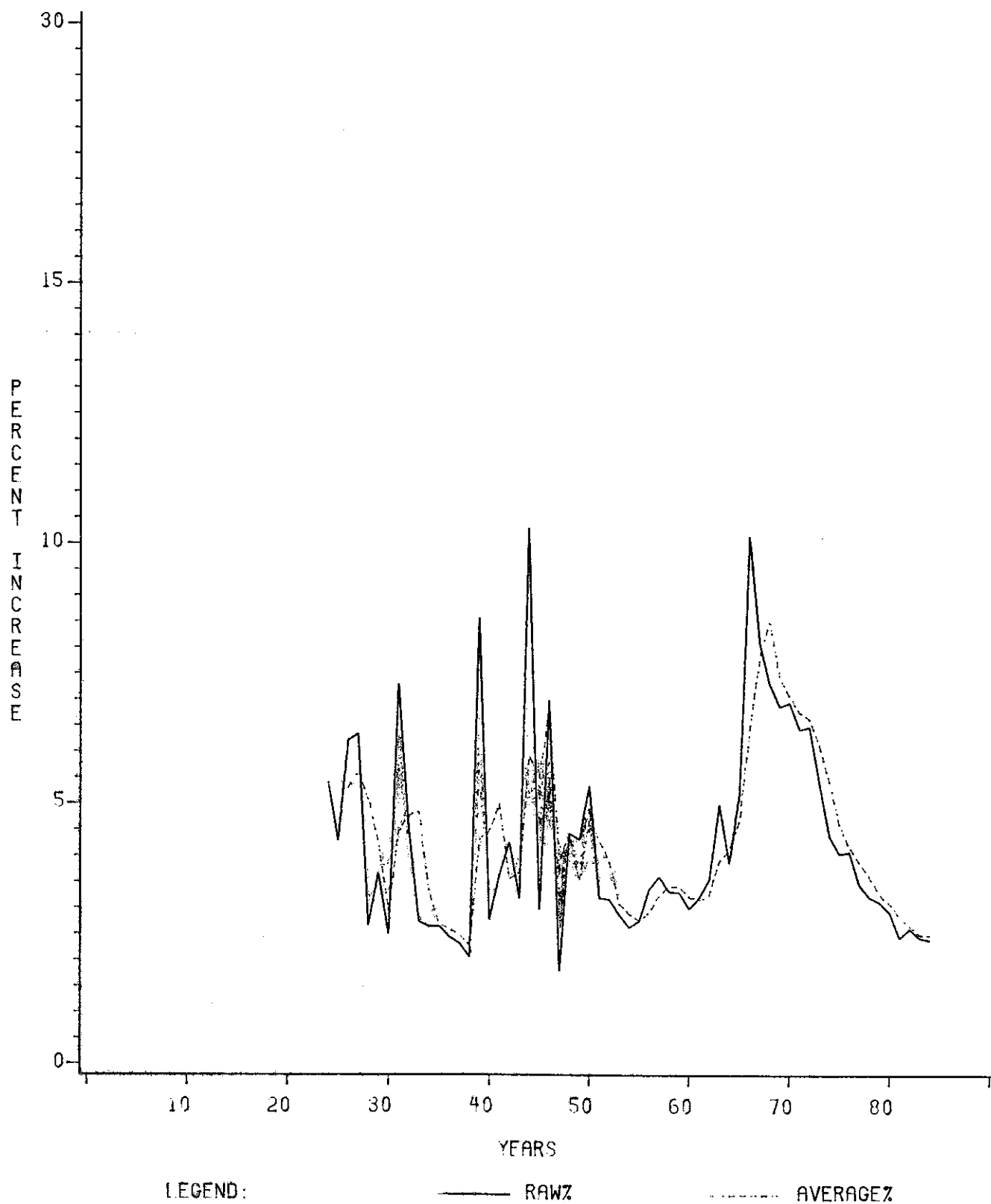
INSTITUTION

NUMBER: 9300

YEAR	VOLUMES	VOLUMES		AVE.	YEAR	VOLUMES	VOLUMES		AVE.
		ADDED	%				ADDED	%	
1922/23	225,000	10,000	*	*	1967/68	1,078,655	73,730	7.3	8.5
1923/24	234,926	12,176	5.4	*	1968/69	1,143,930	74,229	6.9	7.4
1924/25	245,000	10,074	4.3	*	1969/70	1,218,828	79,376	6.9	7.0
1925/26	261,301	15,233	6.2	5.3	1970/71	1,293,425	78,415	6.4	6.8
1926/27	277,885	16,584	6.3	5.6	1971/72	1,371,232	83,918	6.5	6.6
1927/28	243,221	7,420	2.7	5.1	1972/73	1,439,370	73,850	5.4	6.1
1928/29	250,699	8,934	3.7	4.2	1973/74	1,496,806	62,978	4.4	5.4
1929/30	168,752	6,256	2.5	2.9	1974/75	1,545,423	60,430	4.0	4.6
1930/31	271,808	12,322	7.3	4.5	1975/76	1,619,795	63,204	4.1	4.2
1931/32	271,808	12,322	4.5	4.8	1976/77	1,665,274	55,877	3.4	3.9
1932/33	189,632	7,445	2.7	4.9	1977/78	1,708,958	53,474	3.2	3.6
1933/34	295,249	4,998	2.6	3.3	1978/79	1,755,180	53,133	3.1	3.3
1934/35	303,089	7,840	2.7	2.7	1979/80	1,798,711	51,166	2.9	3.1
1935/36	305,515	7,426	2.5	2.6	1980/81	1,838,820	43,638	2.4	2.8
1936/37	305,515	7,077	2.3	2.5	1981/82	1,883,737	47,950	2.6	2.6
1937/38	167,556	6,288	2.1	2.3	1982/83	1,953,047	45,795	2.4	2.5
1938/39	398,819	14,384	8.6	4.3	1983/84	1,989,816	46,645	2.4	2.5
1939/40	409,872	11,063	2.8	4.5					
1940/41	481,137	14,915	3.6	5.0					
1941/42	501,623	20,486	4.3	3.6					
1942/43	276,390	15,941	3.2	3.7					
1943/44	565,329	28,510	10.3	5.9					
1944/45	582,069	16,740	3.0	5.5					
1945/46	566,916	40,715	7.0	6.8					
1946/47	472,742	10,163	1.8	3.9					
1947/48	490,834	20,976	4.4	4.4					
1948/49	501,177	21,136	4.3	3.5					
1949/50	527,346	26,813	5.4	4.7					
1950/51	543,464	16,807	3.2	4.3					
1951/52	568,821	17,102	3.1	3.9					
1952/53	565,174	16,259	2.9	3.1					
1953/54	577,690	14,812	2.6	2.9					
1954/55	594,055	15,924	2.8	2.7					
1955/56	611,684	19,985	3.4	2.9					
1956/57	667,713	22,029	3.6	3.2					
1957/58	687,517	22,047	3.3	3.4					
1958/59	707,985	22,647	3.3	3.4					
1959/60	726,218	21,172	3.0	3.2					
1960/61	748,471	23,185	3.2	3.2					
1961/62	771,949	26,543	3.5	3.2					
1962/63	882,740	38,467	5.0	3.9					
1963/64	817,448	34,038	3.9	4.1					
1964/65	853,623	42,600	5.2	4.7					
1965/66	936,754	86,675	10.2	6.4					
1966/67	1,009,426	75,762	8.1	7.8					

INCREASE IN VOLUMES AT WASHINGTON, ST. LOUIS

AS A PERCENT
1907/08-1983/84



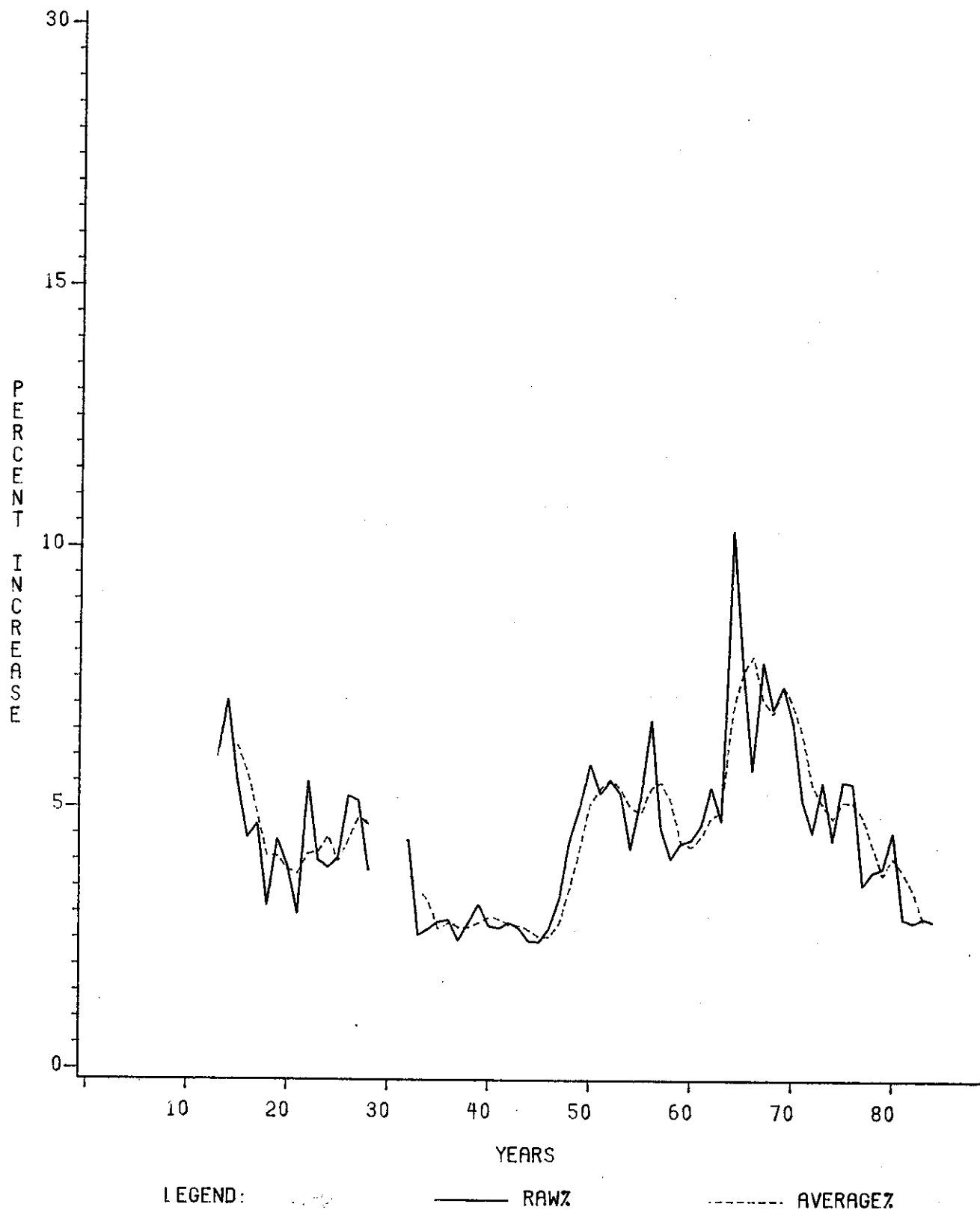
GROWTH AT WISCONSIN

INSTITUTION
NUMBER: 9600

YEAR	VOLUMES	VOLUMES ADDED	%	AVE. %	YEAR	VOLUMES	VOLUMES ADDED	%	AVE. %
1907/08	135,000	13,000	*	*	1952/53	909,586	45,606	5.3	5.4
1908/09	*	*	*	*	1953/54	947,896	38,310	4.2	5.0
1909/10	163,000	16,000	*	*	1954/55	997,146	49,250	5.2	4.9
1910/11	*	*	*	*	1955/56	1,065,940	66,794	6.7	5.4
1911/12	192,513	10,800	*	*	1956/57	1,227,335	48,931	4.6	5.5
1912/13	204,000	11,500	6.0	*	1957/58	1,276,217	49,456	4.0	5.1
1913/14	210,000	14,400	7.1	*	1958/59	1,327,425	55,263	4.3	4.3
1914/15	235,400	11,480	5.5	6.2	1959/60	1,384,222	58,173	4.4	4.2
1915/16	245,786	10,386	4.4	5.6	1960/61	1,455,758	64,674	4.7	4.5
1916/17	257,295	11,509	4.7	4.9	1961/62	1,527,432	78,664	5.4	4.8
1917/18	253,000	7,990	3.1	4.1	1962/63	1,445,521	72,536	4.7	4.9
1918/19	269,120	11,120	4.4	4.1	1963/64	1,765,802	149,397	10.3	6.8
1919/20	279,540	10,420	3.9	3.8	1964/65	1,897,127	135,792	7.7	7.6
1920/21	287,800	8,260	3.0	3.7	1965/66	1,744,321	108,647	5.7	7.9
1921/22	303,640	15,840	5.5	4.1	1966/67	1,882,546	136,225	7.8	7.1
1922/23	315,850	12,110	4.0	4.1	1967/68	2,012,329	129,783	6.9	6.8
1923/24	327,980	12,130	3.8	4.4	1968/69	2,159,947	147,618	7.3	7.3
1924/25	341,250	13,270	4.0	4.0	1969/70	2,303,061	143,114	6.6	7.0
1925/26	359,067	17,817	5.2	4.4	1970/71	2,417,024	118,194	5.1	6.4
1926/27	377,452	18,385	5.1	4.8	1971/72	2,517,796	109,430	4.5	5.4
1927/28	391,762	14,310	3.8	4.7	1972/73	2,654,541	138,350	5.5	5.1
1928/29	*	*	*	*	1973/74	2,784,733	116,047	4.4	4.8
1929/30	*	*	*	*	1974/75	2,973,300	153,448	5.5	5.1
1930/31	422,960	15,400	*	*	1975/76	3,132,863	162,683	5.5	5.1
1931/32	441,500	18,540	4.4	*	1976/77	3,238,152	110,666	3.5	4.8
1932/33	450,460	11,270	2.6	*	1977/78	3,351,900	122,815	3.8	4.3
1933/34	462,560	12,100	2.7	3.2	1978/79	3,475,184	129,271	3.9	3.7
1934/35	475,600	13,040	2.8	2.7	1979/80	3,631,669	158,344	4.6	4.1
1935/36	489,240	13,640	2.9	2.8	1980/81	4,044,136	105,136	2.9	3.8
1936/37	500,000	12,000	2.5	2.7	1981/82	4,173,215	113,953	2.8	3.4
1937/38	465,000	14,000	2.8	2.7	1982/83	4,281,749	121,531	2.9	2.9
1938/39	472,061	14,632	3.1	2.8	1983/84	4,390,437	121,685	2.8	2.9
1939/40	485,004	12,942	2.7	2.9					
1940/41	498,045	13,040	2.7	2.9					
1941/42	512,000	13,998	2.8	2.7					
1942/43	558,000	13,823	2.7	2.7					
1943/44	571,500	13,612	2.4	2.6					
1944/45	575,000	13,888	2.4	2.5					
1945/46	600,000	15,500	2.7	2.5					
1946/47	619,550	19,550	3.3	2.8					
1947/48	640,279	27,150	4.4	3.4					
1948/49	672,349	32,070	5.0	4.2					
1949/50	777,491	39,345	5.9	5.1					
1950/51	818,761	40,992	5.3	5.4					
1951/52	863,979	45,218	5.5	5.5					

INCREASE IN VOLUMES AT WISCONSIN

AS A PERCENT
1907/08-1983/84



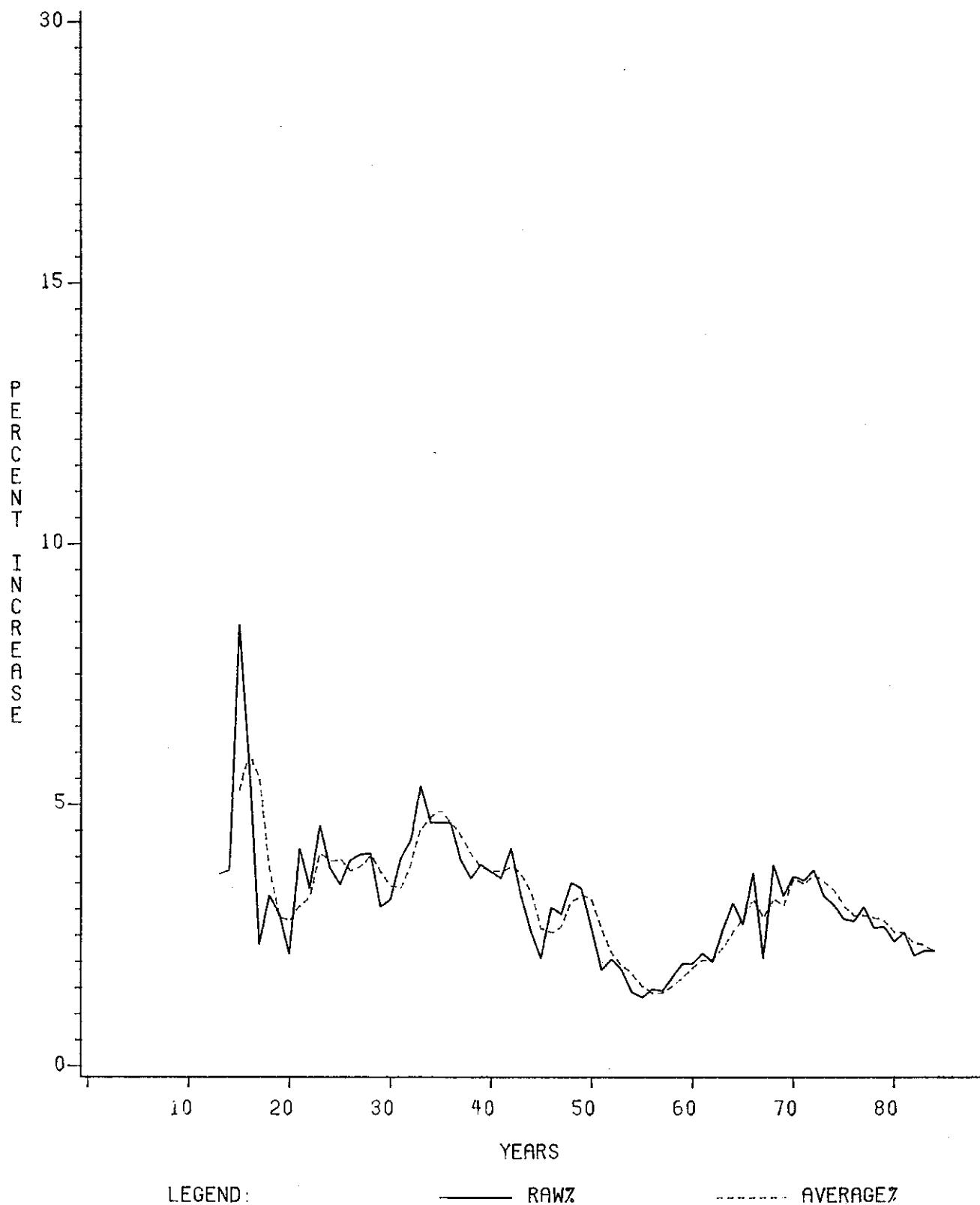
GROWTH AT YALE

INSTITUTION
NUMBER: 9700

YEAR	VOLUMES	VOLUMES ADDED	%	AVE. %	YEAR	VOLUMES	VOLUMES ADDED	%	AVE. %
1911/12	900,000	45,933	*	*	1956/57	4,139,047	58,701	1.4	1.4
1912/13	1,000,000	33,099	3.7	*	1957/58	4,215,909	70,556	1.7	1.5
1913/14	1,000,000	37,546	3.8	*	1958/59	4,309,882	83,305	2.0	1.7
1914/15	1,000,000	84,581	8.5	5.3	1959/60	4,394,988	85,106	2.0	1.9
1915/16	1,070,000	57,000	5.7	6.0	1960/61	4,490,420	95,432	2.2	2.0
1916/17	1,095,000	25,000	2.3	5.5	1961/62	4,572,893	90,015	2.0	2.1
1917/18	1,130,000	35,797	3.3	3.8	1962/63	4,693,072	119,946	2.6	2.3
1918/19	1,253,830	32,743	2.9	2.8	1963/64	4,702,876	146,978	3.1	2.6
1919/20	1,157,000	27,000	2.2	2.8	1964/65	4,831,738	128,281	2.7	2.8
1920/21	1,471,028	48,282	4.2	3.1	1965/66	5,004,301	178,937	3.7	3.2
1921/22	1,514,717	50,096	3.4	3.2	1966/67	5,183,790	103,868	2.1	2.8
1922/23	1,582,102	69,779	4.6	4.1	1967/68	5,318,971	200,031	3.9	3.2
1923/24	1,644,516	59,809	3.8	3.9	1968/69	5,452,757	173,642	3.3	3.1
1924/25	1,697,322	57,115	3.5	4.0	1969/70	5,645,982	198,324	3.6	3.6
1925/26	1,775,077	66,935	3.9	3.7	1970/71	5,829,035	200,788	3.6	3.5
1926/27	1,838,099	71,895	4.1	3.8	1971/72	5,993,856	219,719	3.8	3.7
1927/28	1,902,512	75,004	4.1	4.0	1972/73	6,175,168	195,366	3.3	3.5
1928/29	1,922,157	58,080	3.1	3.7	1973/74	6,350,824	190,750	3.1	3.4
1929/30	1,983,341	61,407	3.2	3.4	1974/75	6,518,848	179,298	2.8	3.1
1930/31	2,036,405	78,777	4.0	3.4	1975/76	6,692,632	180,882	2.8	2.9
1931/32	2,130,600	87,918	4.3	3.8	1976/77	6,884,604	204,903	3.1	2.9
1932/33	2,226,332	114,095	5.4	4.5	1977/78	7,072,345	182,703	2.7	2.8
1933/34	2,325,540	103,699	4.7	4.8	1978/79	7,246,195	189,195	2.7	2.8
1934/35	2,445,682	108,575	4.7	4.9	1979/80	7,401,953	173,003	2.4	2.6
1935/36	2,558,179	113,777	4.7	4.7	1980/81	7,579,121	190,521	2.6	2.5
1936/37	2,663,063	100,854	3.9	4.4	1981/82	7,725,424	161,097	2.1	2.4
1937/38	2,748,918	95,912	3.6	4.1	1982/83	7,880,025	172,165	2.2	2.3
1938/39	2,850,349	106,139	3.9	3.8	1983/84	8,044,765	175,623	2.2	2.2
1939/40	2,955,539	106,241	3.7	3.7					
1940/41	3,074,817	106,119	3.6	3.7					
1941/42	3,180,934	128,169	4.2	3.8					
1942/43	3,281,739	103,417	3.3	3.7					
1943/44	3,365,475	84,372	2.6	3.3					
1944/45	3,432,363	69,674	2.1	2.6					
1945/46	3,539,596	104,460	3.0	2.6					
1946/47	3,642,730	103,134	2.9	2.7					
1947/48	3,770,813	128,083	3.5	3.2					
1948/49	3,877,819	128,312	3.4	3.3					
1949/50	3,979,942	102,123	2.6	3.2					
1950/51	4,056,276	73,634	1.9	2.6					
1951/52	4,139,659	83,385	2.1	2.2					
1952/53	4,215,841	76,182	1.8	1.9					
1953/54	4,245,583	59,611	1.4	1.8					
1954/55	4,280,473	56,280	1.3	1.5					
1955/56	4,073,946	63,476	1.5	1.4					

INCREASE IN VOLUMES AT YALE

AS A PERCENT
1907/08-1983/84



APPENDIX 1

DATA SOURCES CONSULTED

The Gerould statistics were issued by James Thayer Gerould at Minnesota in 1907/08, 1909/10, and subsequently from 1911/12 through 1918/19 or 1919/20. In 1920, Gerould moved to Princeton. From then through 1937/38, Gerould continued to publish the statistics. Gerould retired in 1938 and publishing the data was continued by the staff at Princeton from 1939/40 through 1961/62. Also in that year, the Association of Research Libraries began to publish its statistical series, which continues the series started by Gerould through today as the ARL Statistics.

In the latter years, the issues of these data available from the various sources are virtually identical. However, in the early years, there are different editions of the various years in which the data were rearranged, edited, or retyped. It is not clear where this work was done, although one edition of the data in which the data were put in order by the size of the library appears to have been done at Illinois. In spite of these different editions, there are few major discrepancies in data between these different editions. Appendix 2 lists the variant items of data found in the sources consulted.

There have been two ways used to order the Gerould data over the years: alphabetically by the name of the institution and by size of the library in descending number of volumes held. In the early years the issues organized by institution name were entitled simply "Statistics of University Libraries" with a date; while those in order of the size of the institution had a title followed by: "Compiled by J. T. Gerould, University of Minnesota Library."

In addition to these annual issues, there are errata which were sent by library directors or by the compiler in postcards or letters. These errata are noted with the source and discussed in a separate section beginning on page 221.

The copies of the Gerould statistics gathered for this study came from university libraries, archives, and a private collection of these data. Originally, interlibrary loan requests were sent to all institutions that reported data in the 1921/22 issue, including Princeton. The only universities which could locate copies were Illinois, Texas, and Virginia. Dr. Haynes McMullen of the Library School of the University of North Carolina subsequently contributed what ultimately proved to be a copy of issues of all the early years data from his dissertation notes. These copies came from the archives of the University of Chicago in the mid-1940's. The Manuscripts Department at the University of Virginia was subsequently checked. Letters were also sent to other manuscripts departments or archives of large university libraries which seemed likely to have early data. Penelope Krosch at the University of Minnesota sent early issues of the Gerould statistics, and Maynard Brichford at the University of Illinois sent early issues of the Gerould statistics as well as correspondence between Gerould and Phineas Windsor, the University Librarian at Illinois. These letters were most useful in sorting out facts about the early years of this data series. The University Microfilms collection, containing data from 1944/45 to 1961/62, was also consulted. This set is made up of issues of the data from an unknown source and is available from UMI as Special Film No. S-338.

To summarize, the issues of the Gerould statistics consulted in this compilation come from the following sources:

Illinois Archives
 Illinois stacks (by ILL)
 (Haynes) McMullen (originally from Chicago)
 Minnesota Archives
 Virginia stacks
 Texas (by ILL)
 University Microfilms (1944/45 to 1961/62). The earlier edition published by Xerox-University Microfilms, one of UM's Books on Demand (AG1-30634), is actually the compilation of the data for 1919/20-1943/44 done at Princeton and referred to in the main text as the Princeton Compilation.

No attempt will be made here to discuss differences in the data between the various issues for given years. This task is left to Appendix 2.

A list of the sources consulted by year follows. In order to make the remarks clearer, a distinction will be drawn between the types of existing copies of the Gerould statistics. Gerould and subsequent compilers would have generated what will be called a "master" copy which reflected their views about what the numbers were. This copy is the corrected text assembled by the compiler from which the distribution copy--the copy to be sent to subscribers--is to be made. A distribution copy can exist as an "original," that is, the actual piece mailed by the compiler, or as a copy (used here to mean either a photographic copy or one made by the Xerox, or similar, process). Since the invention of the Xerox process, a distribution copy is often a direct copy of the master. In such a copy, the text itself has not been touched or altered and there is little chance of a change in the text's being introduced in the process of making the distribution copy. This process of reproduction of documents has tended to obscure a distinction that is useful in considering these early data. When Gerould compiled his master copy, he could not Xerox the master and distribute the resulting issues, he had to have a copy made. By as early as 1913/14, these issues were made by a process which allowed reproduction but before then the distribution copies appear to have been retyped. Each retyping, of course, introduced the possibility of a change in the text.

<u>Year</u>	<u>Source</u>	<u>Remarks</u>
1907/08	Minnesota McMullen	Both are in alphabetical order and appear to have been done on the same typewriter but at different times.
1909/10	Illinois Archives McMullen	Both are in alphabetical order and appear to have been done on the same typewriter but at different times.
1911/12	McMullen	In alphabetical order.
1912/13	McMullen	In alphabetical order.

<u>Year</u>	<u>Source</u>	<u>Remarks</u>
1913/14	Illinois stacks	In order by size. This issue is blurred and unclear.
	McMullen	In alphabetical order.
	Minnesota	In alphabetical order.
	The McMullen and Minnesota issues may have come from the same distribution copy. There is a letter from Windsor to Gerould at Illinois and an erratum from Gerould in the Illinois Archives.	
1914/15	McMullen	Both are in alphabetical order and may have come from the same distribution copy.
	Minnesota	
1915/16	Illinois Archives	In order by size.
	Illinois stacks	In order by size.
	These two issues appear to have been done on the same typewriter but at different times.	
	McMullen	In alphabetical order.
	Minnesota	In alphabetical order.
	These two issues appear to be from the same distribution copy.	
1916/17	Illinois Archives	In alphabetical order.
	Illinois stacks	In alphabetical order.
	The issue in the stacks is probably a carbon of the Archive copy.	
	McMullen	In alphabetical order.
1917/18	McMullen	In alphabetical order.
1918/19	McMullen	In alphabetical order.
1919/20	McMullen	In alphabetical order.
1920/21	Illinois Archives	In alphabetical order. There are two issues, one of which appears to be a carbon of the other.
	McMullen	In alphabetical order.
1921/22	McMullen	In alphabetical order.
	Texas	In alphabetical order. This is a photocopy.
	Virginia	In alphabetical order.
	All three issues are from the same distribution copy.	
1922/23	McMullen	In alphabetical order. There are two issues, an original and a photocopy.
	Texas	In alphabetical order.
	Virginia	In alphabetical order.
	All four issues are from the same distribution copy.	

<u>Year</u>	<u>Source</u>	<u>Remarks</u>
1923/24	McMullen	In alphabetical order.
	Texas	In alphabetical order.
	Virginia	In alphabetical order.
These three issues are from the same distribution copy. There is an undated erratum in the Illinois Archives the first line of which reads: "Northwestern University reports:".		
1924/25	Illinois Archives	In order by size. This issue includes a typed erratum dealing with data from Iowa labelled "MEMORANDUM; Concerning; Statistics of University Libraries, 1924-1925, Recently Distributed." This erratum deals is date stamped "Dec21 1925." It is not clear where this erratum came from. There is an erratum date stamped "Dec 12 1925" reporting data from Colorado. The first line says: "University of Colorado reports:". This correction appears to have been typed on the same typewriter as the original data and may have come from Gerould.
	Illinois stacks	In order by size.
The issue in the Illinois stacks is apparently a carbon of the Archives copy.		
	McMullen	In alphabetical order.
	Texas	In alphabetical order.
	Virginia	In alphabetical order. This issue includes three errata. Two are other issues of the errata found in the Illinois Archives although neither has been stamped with a date. The erratum with data from Iowa appears to be identical to that in the Illinois Archives, while the erratum with data from Colorado appears to have been done on the same typewriter as the issue of this erratum in the Illinois Archives but at a different time. The data in the two issues are the same. The third erratum is in the form of a typed letter from William Henry, Librarian at the University of Washington (Seattle), and is dated "February 25, 1926."
The latter three issues appear to be from the same distribution copy.		
1925/26	Illinois Archives	In order by size.
	Illinois stacks	In order by size.
The issue in the stacks appears to be a carbon of the Archives issue.		
	McMullen	In alphabetical order.
	Texas	In alphabetical order. A photocopy.
	Virginia	In alphabetical order.
The latter three issues appear to be from the same distribution copy.		

<u>Year</u>	<u>Source</u>	<u>Remarks</u>
1926/27	Illinois stacks McMullen Texas Virginia archives	In order by size. This issue is not clear. In alphabetical order. In alphabetical order. In alphabetical order.
The latter three issues appear to be from the same distribution copy.		
1927/28	Illinois stacks McMullen Texas Virginia	In order by size. Some numbers are unclear because of the quality of the copy. In alphabetical order. In alphabetical order. In alphabetical order.
The latter three are from the same distribution copy.		
1928/29	McMullen Texas Virginia	In alphabetical order. In alphabetical order. In alphabetical order.
These copies are from the same distribution copy.		
1929/30	Illinois stacks Texas Virginia	In order by size. In alphabetical order. In alphabetical order.
The latter two are from the same distribution copy.		
1930/31	Illinois stacks Texas Virginia	In order by size. In alphabetical order. In alphabetical order.
The latter two are from the same distribution copy.		
1931/32	Illinois stacks Texas Virginia	In order by size. In alphabetical order. In alphabetical order.
The latter two are from the same distribution copy.		
1932/33	Illinois stacks Texas Virginia	In order by size. In alphabetical order. In alphabetical order.
The latter two are from the same distribution copy.		
1933/34	Illinois Texas Virginia	In order by size. In alphabetical order. In alphabetical order.
The latter two are from the same distribution copy.		

<u>Year</u>	<u>Source</u>	<u>Remarks</u>
1934/35	Illinois Texas Virginia	In order by size. In alphabetical order. In alphabetical order.
	The latter two are from the same distribution copy.	
1935/36	Illinois Texas Virginia	In order by size. In alphabetical order. In alphabetical order.
	The latter two are from the same distribution copy.	
1936/37	Illinois Texas Virginia	In order by size. In alphabetical order. In alphabetical order.
	The latter two are from the same original.	
1937/38	Illinois Texas Virginia	In order by size. In alphabetical order. In alphabetical order.
	The latter two are from the same distribution copy.	
1938/39	Illinois Texas Virginia	In order by size. In alphabetical order. In alphabetical order. There is an erratum (an undated, printed postcard) from M. Llewellyn Raney, Director, at Chicago.
	The latter two are from the same distribution copy.	
1939/40	Illinois Texas Virginia	In order by size. In alphabetical order. In alphabetical order.
	The latter two are from the same distribution copy.	
1940/41	Illinois Texas Virginia archives Virginia stacks	In order by size. In alphabetical order. In order by size. In alphabetical order.
	All four copies appear to have been done on the same typewriter from two different distribution copies, one arranged by size and the other alphabetical. Both sets were apparently issued at the same time as there is an explicit reference on the alphabetically ordered list to footnotes on the "sheet attached...arranged by size."	
1941/42	Illinois Texas Virginia	In order by size. In order by size. In order by size.
	All three issues are from the same distribution copy.	

<u>Year</u>	<u>Source</u>	<u>Remarks</u>
1942/43	Illinois Texas Virginia	In order by size. In order by size. In order by size.
	All three issues are from the same distribution copy.	
1943/44	Princeton Compilation	The data from this year were not distributed separately because of war time paper shortages.
1944/45	Illinois Univ. Microfilms Virginia	In order by size. In order by size. In order by size.
	These three issues are from the same distribution copy.	
1945/46	Illinois Univ. Microfilms Virginia	In order by size. In order by size. In order by size.
	These three issues are from the same distribution copy. However, there are two different sets of footnotes. Illinois and Virginia have what appear to be identical sets of footnotes on three pages while UM's copy has two pages of footnotes. The texts of these two sets of footnotes appear to be the same.	
1946/47	Illinois Texas Univ. Microfilms Virginia	In order by size. In order by size. In order by size. In order by size.
	All four issues are from the same distribution copy.	
1947/48	Illinois Texas Univ. Microfilms Virginia	In order by size. In order by size. In order by size. In order by size. Contains an erratum (an undated, mimeographed postcard) from the "Princeton University Library " for Kansas.
	All four issues are from the same distribution copy.	
1948/49	Illinois Texas Univ. Microfilms Virginia	In order by size. In order by size. In order by size. In order by size.
	All four issues are from the same distribution copy.	
1949/50	Texas Univ. Microfilms Virginia	In order by size. In order by size. In order by size.
	All three issues are from the same distribution copy.	

<u>Year</u>	<u>Source</u>	<u>Remarks</u>
1950/51	Illinois	In order by size.
	Texas	In order by size.
	Univ. Microfilms	In order by size.
	Virginia	In order by size.
All four issues are from the same distribution copy.		
1951/52	Texas	In alphabetical order.
	Univ. Microfilms	In alphabetical order.
	Virginia	In alphabetical order. Contains an erratum for Washington, St. Louis.
All three issues are from the same distribution copy.		
1952/53	Texas	In alphabetical order.
	Univ. Microfilms	In alphabetical order.
	Virginia	In alphabetical order.
All three issues are from the same distribution copy.		
1953/54	Texas	In alphabetical order.
	Univ. Microfilms	In alphabetical order.
	Virginia	In alphabetical order. This issue is a photocopy, perhaps of the University Microfilms issue.
All three issues are from the same distribution copy.		
1954/55	Texas	In alphabetical order.
	Univ. Microfilms	In alphabetical order.
	Virginia	In alphabetical order. This issue is a photocopy. Both the UM issue and the Virginia issue have identical handwritten notes on them suggesting that both were copies from an unknown original or that Virginia's copy was made from the UM copy.
All three issues are from the same distribution copy.		
1955/56	Texas	In alphabetical order.
	Univ. Microfilms	In alphabetical order.
	Virginia	In alphabetical order.
All three issues are from the same distribution copy.		
1956/57	Texas	In alphabetical order.
	Univ. Microfilms	In alphabetical order.
	Virginia	In alphabetical order.
All three issues are from the same distribution copy.		
1957/58	Texas	In alphabetical order.
	Univ. Microfilms	In alphabetical order.
	Virginia	In alphabetical order.
All three issues are from the same distribution copy.		

<u>Year</u>	<u>Source</u>	<u>Remarks</u>
1959/60	Texas Univ. Microfilms Virginia	In alphabetical order. In alphabetical order. In alphabetical order.
All three issues are from the same distribution copy.		
1960/61	Texas Univ. Microfilms Virginia	In alphabetical order. In alphabetical order. In alphabetical order.
All three issues are from the same distribution copy.		
1960/61	Texas Univ. Microfilms Virginia	In alphabetical order. In alphabetical order. In alphabetical order. This issue is a photocopy. Both the UM issue and the Virginia issue have identical handwritten notes on them suggesting that both were copies from an unknown original or that Virginia's copy was made from the UM copy.
All three issues are from the same distribution copy.		
1961/62	Univ. Microfilms Virginia	In alphabetical order. In alphabetical order.
Both issues are from the same distribution copy.		

ERRATA

What follows is a list of the errata used in this compilation. Individual values will be discussed in Appendix 2.

<u>Year</u>	<u>Source</u>	<u>Institutions dealt with</u>
1913/14	Illinois Archives	Texas

In the Illinois Archives, there is a letter, dated November 17, 1914, from Phineas Windsor to Gerould saying that he had received a letter from the University of Texas Library with data similar to the statistics distributed by Gerould about other libraries. The letter of reply, dated November 19, 1914, records that Gerould was sending these figures to "the institutions which have received copies of the table of university library statistics." The November 19th letter from Gerould giving the values from Texas and addressed "Dear Sir" is also included in the Archives. As noted in Appendix 2, Gerould made a transcription error from the Windsor letter to the erratum in the number of volumes reported for Texas. Windsor's letter records the number of volumes at Texas as 100,774 while Gerould's erratum has this number as 100,744.

<u>Year</u>	<u>Source</u>	<u>Remarks</u>
1923/24	Illinois Archives	Northwestern

This erratum begins "Northwestern University reports:" and resembles the erratum for Colorado for 1924/25 in the format displaying the data and in the typewriter used. This typewriter also appears to be the same one used to produce the alphabetically ordered distribution copy of the Gerould data. This erratum bears no date and has not been date stamped. The distribution copies of the data from 1922/23 and 1923/24 list no data from Northwestern so the assignment of this erratum to 1923/24 is based on circumstantial evidence which is discussed in Appendix 2.

1924/25	Illinois Archives	Colorado
		Iowa
	Virginia	Colorado
		Iowa
		Washington

The Colorado erratum might have been sent by Gerould. In the distribution copy there is space for Colorado's values but nothing was typed in. Colorado might have sent the reply late and Gerould might have passed these additions on. As discussed above, the two issues of this erratum appear to have been done on the same typewriter although at different times. These errata resemble the erratum for Northwestern for 1923/24 in that they use the same format to display the data and they also use the same typewriter. The font on this typewriter closely resembles the font on the typewriter used on the distribution copy of the alphabetically ordered Gerould data.

The two Iowa errata are identical, with the exception that the issue from Illinois is stamped with a date. The source of these errata are not clear.

The Washington erratum is in the form of a letter dated February 25, 1926 from William E. Henry, Librarian.

1938/39	Virginia	Chicago
---------	----------	---------

This erratum is in the form of an undated printed postcard from M. Llewellyn Raney, Director.

1947/48	Virginia	Kansas
---------	----------	--------

This erratum is an undated mimeographed postcard from the "Princeton University Library."

1951/52	Virginia	Washington, St. Louis
---------	----------	-----------------------

This erratum is a mimeographed postcard dated "13 January 1953" from Lawrence Heyl Associate Librarian at Princeton.

APPENDIX 2

DIFFERENCES FOUND IN THE VALUES OF VARIABLES REPORTED BY THE SOURCES OF GEROULD STATISTICS CONSULTED

This appendix gives the cases where there is uncertainty in the values that might be used in this edition of the Gerould data. Part 1 lists the cases of uncertainty with the different possible numbers and the decision made in this edition between these possibilities. Part 2, on page 239, lists the cases where the decision made might be wrong.

Uncertainty in the context of this appendix occurs because of a conflict between the values given by different sources of these data. The most common kind of conflict arises when two sources record a different value for a variable at an institution in a given year. For example, there are two different issues of the Gerould data for 1909/10, one of which reports that there were 16 staff members employed at Minnesota, while the other reports that Minnesota had 18 staff members. This appendix will discuss these kinds of conflicts as well as two others, both of which have only one example. Below, at MICHIGAN, 1945/46, there is a discussion of a value a part of which is illegible, and at ILLINOIS, 1960/61 there is a discussion of a case where a wrong value has been corrected but it is not clear what the corrected value should be. While for most of the cases of conflict an attempt is made to develop a set of principles to follow in adjudicating disputes between possible values, these two cases are handled in an ad hoc manner.

Part of the problem in assembling these data is sorting out which number is correct when there is more than one possibility. This process is made difficult by the fact that there are many places where error can creep into any text, whether a play of Shakespeare or a set of numbers. In the case of these data, an error might have been introduced before the data reached Gerould, of course, but only errors that arise after Gerould received the data are dealt with here.

Before the data for 1913/14 were published (when these data were apparently first distributed in mimeographed form) Gerould would have assembled the data and generated what might be called a master copy. In order to distribute the text, he would have to duplicate the master copy, which would have been done by having a copy typed from the master. Before massive reproduction was possible, each distribution copy would have been produced separately and each new copy could vary from the master copy and from other distribution copies.

Making copies by mimeograph allowed the production of numerous identical copies of a text. As a result, deciding which of several numbers is correct should be easier after 1913/14 but is still complicated by three facts:

1. There are editions of these data made by people other than Gerould and at other institutions. Each new edition requires that the data be rearranged or retyped, processes which increase the chances for error.

2. Changes have been made in the distribution copies sent to the various libraries. For example, suppose identical distribution copies were sent to twenty institutions and suppose further that all of these distribution copies have been changed in the same way. Is the change in the text we see correct? What about cases where identical changes are made on half of the distribution copies?

3. There are instances where the text being used is barely legible.

In cases where there are more than one possibility for a given number, deciding which to choose has been guided by the attempt to establish which of the different candidates has the best authority. That is, what did the master text look like or what would it have looked like after a correction was sent out? In this context authority will be established by:

1. Using the earliest generation of the data possible. This principle follows from the notion that each new generation of a text allows (without necessarily promoting) the introduction of errors. This matter is serious enough to deserve separate treatment below.

2. Preferring changes in data from errata over the principle that the earliest generation should be used. In compiling data in the days of Gerould or now, mistakes are inevitable and corrections issued either by the compiler or by the library that reported the data should have priority over the master copy or the distribution copy made from it. For the lone exception to this principle see the listing below for TEXAS, 1913/14. The one change in the text of the data made without a erratum or clear authority is reported at LOUISIANA STATE, 1954/55.

3. In cases where neither of the first two principles allows the selection between two possible values, use other variables or data from other years for clues about which value is correct.

There have been two ways used of presenting the Gerould data each year. One is to arrange the data alphabetically by the name of the institution and the other is to arrange the data for each institution in order by the number of volumes held. In the early years of the Gerould series, two editions were issued about the same time each year. There are stray examples of data arranged each way but there are two editions of these data, readily identifiable because each is consistently done on its own typewriter. Which of these editions is closer to the master copy is not absolutely clear, but the alphabetical set has been treated as the earlier edition. In cases where the alphabetical text and the text ordered by size differ, the alphabetical text is assumed to have precedence. The case for this view is circumstantial:

1. There are instances of variant forms given below where it seems clear that the list ordered by size was done later than the alphabetical list. For example, in the cases of TEXAS, 1913/14, HARVARD, 1924/25 and COLORADO, 1924/25, (see below) there are handwritten changes made in various distribution copies of the alphabetical list which are included in the typed list ordered by size.

2. There is an issue of an alphabetically arranged edition of all years of the data from the beginning until Gerould retired, but there is not a issue ordered by size of institution for all of those years.

3. A copy of "Preliminary statistics" from 1913/14 in the Illinois Archives has what appear to be notes in Gerould's hand. This issue of these statistics is a predecessor to the master copy and is arranged alphabetically. The expenditure categories includes cents. One note says: "Arrange by size....omit cents." It appears from this issue of the data that a copy ordered alphabetically was produced first.

4. A series of these data apparently done on the same typewriter and arranged alphabetically are in several libraries from about 1918/19 through the 1930's while a series of these data arranged by size (and done on a different typewriter) is only at Illinois.

A conservative view is taken here of making changes in what is presumed to be the text closest to the master copy. While the treatment of changes has been conservative in the text of the data, the inclusion of variant values has been fairly liberal in this appendix. For instance, the following variant values are included in the appendix but not in this edition of the data:

1. Handwritten changes to the typed text for which there is no clear authority.
2. Values for the volumes held at Wisconsin's Historical Library. These values were reported for a number of years in the Gerould data as a footnote to the reports for the University of Wisconsin's library.
3. Values for 1909/10 from Chicago, Columbia, Cornell, Harvard, Johns Hopkins, Northwestern, Pennsylvania, Princeton, Stanford, and Yale which were collected by Phineas Windsor at Illinois using the same definitions as those used by Gerould.

Excluding these kinds of values in this edition of the Gerould data helps insure the integrity of the Gerould text but causes other kinds of problems. For instance, the values collected by Windsor using Gerould's definitions are probably as good as those collected by Gerould, and handwritten changes may reflect an erratum noted at one institution but not another. Occasionally, the changes that lack authority seem more likely to be correct than the values chosen here. In a few cases, therefore, there is an apparent conflict between insuring the integrity of the Gerould text and insuring that the numbers are always correct. While using authority as the criterion leads to a dilemma in a handful of cases, it avoids accepting values that seem right because they fit some preconceived notion of how the data should lie. Future research may resolve many of these conflicts but it seems reasonable to note those values that meet the criteria used here, that is, there is good authority for the values chosen but the values not chosen might seem better in some circumstances. A list of these values is included at the end of this appendix.

The symbol "*" is used to indicate no value is given for the variable. The Expenditure variable listed in the pages that follow records expenditures for books, periodicals, and binding.

PART 1

CALIFORNIA, BERKELEY 1911/12

Variable: Appropriations

Value of the variable used in this edition: \$24,000

The Minnesota issue reports that appropriations were \$24,000 while the McMullen issue reports \$34,000. \$24,000 is assumed to be the correct value because this is the value on the Minnesota copy that must be either a later copy than the McMullen copy or closer to the master copy for reasons discussed under CHICAGO, 1911/12 and WISCONSIN, 1911/12 in this Appendix.

There is reason to be suspicious of the value from the Minnesota copy, however, as the following list should make clear:

Year	Expenditures	Appropriations
1910/11	Not published	
<u>1911/12</u>	\$33,800	\$24,000 (\$34,000)
1912/13	36,538	33,950

\$34,000 seems to fit in this series of numbers better, although it is not yet clear how the variable appropriations behaves. Not enough is known about the behavior of this variable to know if a jump from an appropriation of \$24,000 to an expenditure of \$36,538 is an anomaly.

CALIFORNIA, LOS ANGELES 1929/30

Variable: Volumes Added

Value of the variable used in this edition: 17,220

The edition of these data ordered by size records the number of volumes added as 17,200, while the edition ordered alphabetically records 17,220. The latter edition is presumed to be closer to the master copy so 17,220 is used here.

CHICAGO 1909/10

Variables: All

In November, 1910 Phineas Windsor, the Librarian at Illinois, sent a letter to the directors at Chicago, Columbia, Cornell, Harvard, Johns Hopkins, Northwestern, Pennsylvania, Princeton, Stanford, and Yale asking for information on "the six questions which Mr Gerould asked of the state universities." Data from the replies to these letters are included in this appendix but not in the edition of the Gerould data presented here. Data from Chicago first appear in the Gerould reports beginning in 1911/12, the next year the data appear. The values for Chicago are:

	Vols.	Vols.Added	Expend.	Approps.	Staff	Salaries
1909/10	310,000	22,871	\$38,484.54	\$41,679.95	60	\$25,860.66

The figure for appropriations is broken down into appropriations: \$25,265
and "Balances carried forward:" \$16,414.95

CHICAGO 1911/12

Variable: Salaries

Value of the variable used in this edition: \$43,216

The Minnesota issue of these data reports the total salaries as \$43,216 while that from McMullen reports this variable's value as \$52,570. This latter issue has a footnote indicating "there has been an additional appropriation of \$14,484 for student service." As was noted in the main text, salaries was apparently regarded as distinct from wages. Salaries were paid to full time employees while wages were paid to part-time workers like students. The language of this footnote and the inclusion of wages with salaries seem to suggest that the McMullen issue of this year's Gerould statistics was a retyping done at Chicago. The value on the Minnesota copy, \$43,216, is used here.

CHICAGO 1922/23

Variable: Salaries

Value of the variable used in this edition: Missing.

All four issues appear to be from the same distribution copy and they all have the original figure for salaries at Chicago lined out. The figure which has been lined out is not clear but it appears to be \$28,300. Consider the figures for this variable for these years:

Year	Salaries
1921/22	\$121,742.11
<u>1922/23</u>	28,300(?)
1923/24	165,962.96

Given the values for this variable from the year before and after, and given the fact the same change was made on all four copies, this variable is treated here as if there were no value reported.

CHICAGO 1927/28

Variable: Salaries

Value of the variable used in this edition: \$230,857.

The three of copies of the alphabetical edition and the copy from the edition ordered by size have the figure for salaries for Chicago as \$230,587. The McMullen copy has a handwritten change of \$233,041.35. The McMullen copy comes from the University of Chicago so there is a strong temptation to regard this new figure as correct. There is a problem, however: when was the change made, by whom, and was the definition followed in making the change the same as that used by Gerould in compiling the original figure? The argument advanced in the main text is that changes in the text of a series of data, such as the Gerould data, should be timely, widely distributed, and done for a clear reason. This change done at Chicago meets none of these criteria and is suspect until the reasoning behind the change is clear. Therefore, the original value, \$230,857, is used in this edition.

CHICAGO 1938/39

Variable: Salaries

Value of the variable used in this edition: \$189,578.36

An erratum found attached to the Virginia issue of these data corrects the value reported for salaries from \$157,732.66 to \$189,578.36. This change is made on the Texas and Illinois issues, but not on the Virginia issue.

COLORADO 1920/21

Variable: Appropriations

Value of the variable used in this edition: \$13,000

The alphabetically ordered edition gives the figure of \$13,000 while the edition ordered by size gives this figure as \$15,000. \$13,000 is used in this edition of the Gerould statistics because it comes from a copy of the data deemed to be closer to the master copy.

COLORADO 1924/25

Variables: All

The alphabetically ordered distribution copy of the data from 1924/25 has a blank line instead of reporting values for Colorado's library. Both the Virginia and McMullen issues have the values handwritten in the blank line while the Texas issue has no values written in. There is an erratum with the Virginia copy giving the following values, which have been included in this edition:

	Vols.	Vols.Added	Expend.	Approps.	Staff	Salaries
1924/25	167,000	9,000	7,500	7,700	15	24,085

These values are included in the distribution copies which are ordered by size.

COLUMBIA 1909/10

Variables: All

Phineas Windsor collected data from Columbia in 1909/10. More detail on his effort is found above at CHICAGO, 1909/10. Data from Columbia first appear in the Gerould reports beginning in 1911/12, the next year the data appear. The data from Columbia for this year are:

	Vols.	Vols.Added	Expend.	Approps.	Staff	Salaries
1909/10	446,112	16,090	\$24,279.85	\$37,424.34	42	\$41,700

COLUMBIA 1911/12

Variable: Volumes Added

Value of the variable used in this edition: 23,528

The Minnesota issue reports the number of Volumes Added as 23,528 while that from McMullen has this number as 23,522. 23,528 is used here because the Minnesota issued is presumed to be closer to the master copy.

COLUMBIA 1929/30

Variable: Staff

Value of the variable used in this edition: 163

The alphabetically ordered edition reports Columbia employed 163 staff members while the edition ordered by size reports 183. Because the alphabetical list is presumed to be closer to the master copy, the value from it is used here. This number appears to be correct, as a comparison of the numbers of staff and salaries at Columbia from 1928/29 through 1930/31 shows that 163 appears to fit the related data better than 183 would.

Year	Staff	Salaries
1928/29	157	\$285,568.00
<u>1929/30</u>	163	308,202.00
1930/31	166	337,569.00

CORNELL 1909/10
Variables: All

Phineas Windsor collected data on Cornell in 1909/10. More detail on his effort is found at CHICAGO, 1909/10. Data from Cornell first appear in the Gerould reports beginning in 1911/12, the next year the data appear. The data from Cornell are:

	Vols.	Vols.Added	Expend.	Approps.	Staff	Salaries
1909/10	383,696	14,645	\$20,116	\$21,500	18	\$22,660

CORNELL 1931/32
Variable: Expenditures

Value of the variable used in this edition: \$38,638.00

The edition of these data ordered by size records a figure for Expenditures in 1931/32 as \$38,636.00 while the alphabetically ordered edition records a value of \$38,638.00. The latter edition is presumed here to be closer to the master copy and the value from it is used here.

HARVARD 1909/10
Variables: All

Phineas Windsor collected data from Harvard in 1909/10, as discussed above at CHICAGO, 1909/10. Data from Harvard first appear in the Gerould reports in 1913/14, although they appear only sporadically before 1919/20. Data from Harvard for this year are:

	Vols.	Vols.Added	Expend.	Approps.	Staff	Salaries
1909/10	543,439	20,616	\$30,422	\$19,100	47	\$42,000

These figures apply "to the central or College library only." Expenditures are further broken down into: \$21,962 "from regular funds" and \$8,460 "from current gifts for immediate use."

HARVARD 1912/13

The McMullen issue of this year's Gerould data has the following values handwritten on it:

	Vols.	Vols.Added	Expend.	Approps.	Staff	Salaries
1912/13	1,083,750	40,318	\$106,965	*	116	\$99,745

It is not clear where these values came from. It can be speculated that Gerould hoped to have something to report for Harvard when the master copy was made and that he received a reply from Harvard late, reported the new values to those who were sent copies, and someone at Chicago wrote in these values for Harvard and did not keep the letter from Gerould. This case is a bit tenuous and we can not be sure of the source for these numbers so they are not included in this edition.

HARVARD 1917/18

The McMullen issue of this year's Gerould data has the following values typed in with a different typewriter from that used in making the distribution copy:

Year	Volumes	Volumes Added
1917/18	1,854,800	61,800

As with the variables for 1912/13, it is not clear where these values came from and they are not included in this edition.

HARVARD 1924/25

Variable: Expenditures

Value of the variable used in this edition: \$157,040

The alphabetical distribution copy, the one presumably sent by Gerould, has no value for Expenditures for 1924/25, but the issues from Virginia and McMullen have been amended to include the value \$157,040. The Texas issue has not been changed. The issues from the Illinois stacks and Archives are arranged by size and are dated "Dec. 1925" and both have the same figure for Expenditures (\$157,040) on the distribution copies. It appears that someone sent an erratum after the distribution of the alphabetical copy and before the compilation of the Illinois copy. This erratum is missing but was accepted as genuine by the libraries which had received distribution copies of the Gerould data. The amended Expenditure figure is used in this edition.

HARVARD 1936/37

Variable: Expenditures

Value of the variable used in this edition: \$292,924.27

The edition of these data ordered alphabetically records the Expenditures for Harvard in 1936/37 as \$292,924.27 while the edition ordered by size records a value of \$292,924.26 for this variable. The value from the alphabetical list is presumed to be closer to the master copy and is used here.

ILLINOIS 1936/37

Variable: Volumes

Value of the variable used in this edition: 1,086,212

The Illinois stacks issue of these data has a handwritten correction to the value recorded in this edition. The value recorded in the distribution copies of both the edition ordered by size and the alphabetically ordered edition is 1,086,212 while the handwritten correction is 1,087,286. Even though this correction was done at Illinois on data from Illinois, the value in the originals is used here for reasons given above under CHICAGO, 1927/28.

ILLINOIS 1960/61

Variable: Volumes Added

Value of the variable used in this edition: 95,246

The distribution copy records that Illinois added 66,789 volumes but this figure has been altered with a handwritten change indicating that either 95,266 volumes were added (on the Texas issue) or 95,226 volumes were added (on the Virginia and University Microfilms issues. The Virginia issue is either a Xerographic copy of this UMI issue or they have both been copied from the same original.) The two changes appear to have been made in the same handwriting which suggests the change was made at Princeton before the copies were distributed. The change, therefore, is acceptable by the criteria used here but which value should be used? There is no clear choice and the decision was made to take the average of the two values until some reason emerges for choosing one of the two. Following this procedure means that a value will be used here which does not exist in any of the texts consulted. While this solution to the conflicting values is not easy to defend on intellectual grounds, it is practical because the difference between the two values is so small.

JOHNS HOPKINS 1909/10
Variables: All

Phineas Windsor collected data from Johns Hopkins in 1909/10 as discussed at CHICAGO, 1909/10. Data from Johns Hopkins first appear in the Gerould reports beginning in 1911/12, the next year the data appear. The data from Johns Hopkins for this year are:

	Vols.	Vols.Added	Expend.	Approps.	Staff	Salaries
1909/10	148,242	5,928	\$13,990.88	\$12,000	12	\$9,088.35

JOHNS HOPKINS 1920/21

Variable: Salaries

Value of the variable used in this edition: \$21,713.50

The two issues from Illinois report \$21,713.50 spent for salaries. The McMullen issue has this same value but it has been crossed out and had \$24,763.50 handwritten beside it. There is no other authority for this change and it is not used here.

KANSAS 1907/08
Variables: All

The McMullen issue has a blank line for Kansas while the Minnesota issue has variables for this year included. The values given in the Minnesota issue are included in this edition of the Gerould data.

KANSAS 1921/22
Variables: All

The three issues of this year's data appear to have come from the same distribution copy but two of them have been amended. The issue from Texas has a blank line beside Kansas. Virginia's issue has been amended to include all six variables. These changes have been typed in on the original. An asterisk is beside the figure for Expenditures referring to a note at the bottom of the page: "Binding is not a charge on the budget." The McMullen issue has the values for the variables Volumes, Volumes Added, and Expenditures handwritten on it. These three values are the same as those on the Virginia version of these data. In addition, the McMullen issue has an asterisk beside the Expenditure figure with this note at the bottom of the page: "Not incl. binding".

It appears that an erratum was sent out with the Kansas values and that there are no copies of this erratum. Virginia received and noted all changes but for some reason Kansas noted only three changes and Texas did not receive or did not note any changes. The changes recorded on the Virginia copy have been included in this edition. These values are:

	Vols.	Vols.Added	Expend.	Approps.	Staff	Salaries
1921/22	150,104	5,675	\$20,538.00	\$17,700.00	18	\$28,430.00

KANSAS 1947/48
 Variable: Salaries
 Value of the variable used in this edition: \$60,924

The three distribution copies consulted here recorded \$660,924 as the amount of money spent on salaries at Kansas in 1947/48. An erratum corrects this figure to \$60,924.

LOUISIANA STATE 1954/55
 Variables: Volumes, Volumes added
 Values of the variables used in this edition: Volumes: 656,639
 Volumes Added: 32,108

The originals of the data for this year record the number of volumes as 32,108 and the number of volumes added as 656,639. The University Microfilms issue and the Virginia issue have the same change made on the text with arrows showing the two figures reversed. The Virginia issue is either a xerographic copy of the UMI issue or they are both made from the same issue. The issue from Texas makes no note of this change. Although the change seems obvious there is no erratum. The values used here are the changed ones. A comparison of the values for these two variables for 1953/54 through 1955/56 is given below in order to show the context of this change in the distribution copy:

Year	Volumes	Volumes added
1953/54	625,813	34,683
<u>1954/55</u>	656,639	32,108
1955/56	690,529	34,204

MICHIGAN 1945/46
 Variable: Volumes Added
 Value of the variable used in this edition: Missing

In the issues of the data from 1945/46 the middle digit for volumes added is illegible, appearing as "28, 87." The middle digit, of course, can be any number which creates a conflict that is not easily resolvable because there are no good choices in this circumstance. A solution offered at the end of this appendix, which lists values excluded from this edition of these data, suggests that substituting a "5" for the blank may be useful in some calculations. The solution adopted here is to treat this value as if it were not reported at all.

MINNESOTA 1909/10

Variable: Staff

Value of the variable used in this edition: 18

The McMullen copy gives the number of staff as 16, while the copy from the Illinois Archives gives the number as 18. These two copies appear to be two separate distribution copies done from the same master. In the process of typing one of the copies an error was made. The number of staff and salaries at Minnesota for 1907/08, 1909/10, and 1911/12 are as follows:

Year	Staff	Salaries
1907/08	13	\$12,490
1908/09		(Not published)
<u>1909/10</u>	16 or 18	18,890
1910/11		(Not published)
1911/12	24	24,245.00

Over the period, the figure for salaries increased approximately \$3,000 a year and in a regular fashion; it has not increased by a small amount from 1907/08 to 1909/10 and then a larger amount from 1909/10 to 1911/12. It is likely that the staff follow a similar regular progression. 18 is 5 more than 13 and 6 less than 24, a more orderly series than 3 (from 13 to 16) and 8 (16 to 24).

NEBRASKA 1925/26

Variable: Appropriations, Salaries

The alphabetically arranged distribution copy records \$41,000 for Appropriations and \$81,000 for Salaries. The issue from Texas has had the appropriations figure changed to \$40,000 and the figures for salaries changed to either \$40,000 or \$41,000 (the second digit in this correction is not legible on the copy of the data used in this compilation.) The source for these changes is not given. The other copy of these data, the one arranged by size, gives the same values as the alphabetical list. The changes made to the issue from Texas are not used in this edition because there is no authority for them.

Even though these changes are not accepted they may be correct. Consider these data from Nebraska for 1924/25 through 1926/27:

Year	Staff	Salaries
1924/25	23	\$33,940.00
<u>1925/26</u>	30	81,000.00 (or \$40,000)
1926/27	32	41,000.00

It is difficult to see how the 1925/26 figure could be correct although the criteria used here to decide correct values force the acceptance of \$81,000.

NORTHWESTERN 1909/10

Variables: All

Phineas Windsor collected data from Northwestern in 1909/10, as discussed above at CHICAGO, 1909/10. Data from Northwestern first appear in the Gerould reports beginning in 1912/13. Data from Northwestern in this year are:

	Vols.	Vols.Added	Expend.	Approps.	Staff	Salaries
1909/10	123,595	9,531	\$8,642.42	\$10,973.31	10	\$7,820

The figures for Volumes and Volumes Added include departmental libraries. A footnote to the figure for expenditures says: "Besides the Law School expends as much again." A note to appropriations says the law school "has about \$8-10,000."

NORTHWESTERN 1923/24

Variables: All

The three issues of this year's data appear to come from the same distribution copy. In two of these issues, those from McMullen and from Virginia, there is a blank line beside the value for Northwestern. The Texas copy, however, has a set of values handwritten in. There is an erratum in the Illinois Archives for this set of data. This erratum is undated but, given the note on the Texas issue for this year, and the surrounding values, it seems probable this erratum is for 1923/24. These values, along with those for Northwestern from the years before and after, are reproduced here:

	Vols.	Vols.Added	Expend.	Approps.	Staff	Salaries
1921/22	219,448	11,401	\$15,688.43	\$17,319.00	13	\$23,810.22
1922/23	(Not Reported)					
1923/24	236,946	12,283	27,963.31	28,000.00	21	31,594.87
1924/25	247,768	10,154	38,744.00	28,700.00	21	49,130.00

The values for Volumes and Volumes Added which are handwritten on the Texas issue are slightly different from those on the erratum. The number of volumes held on this issue is 236,945 (not 236,946) and the number of volumes added is 12,285 (not 12,283.)

OHIO STATE 1923/24

Variables: Expenditures, Appropriations

Value of the variables used in this edition:

Expenditures: \$47,718.33

Appropriations: 61,376.67

The three issues for this year record \$54,547.50 as the amount expended for books in 1923/24 and appropriated for next year's book purchases, but in all three cases there is a change made on the original. In each case, a line is drawn through the two values and the values used here typed in on the bottom of the page by the same typewriter. It appears that an error was caught after the distribution copy was mimeographed but before the issues were mailed.

PENNSYLVANIA 1909/10

Variables: All

Phineas Windsor collected data from Pennsylvania in 1909/10 as discussed above at CHICAGO, 1909/10. Data from Pennsylvania first appear in the Gerould reports beginning in 1911/12, the next year the data appear. The data for Pennsylvania for this year are:

	Vols.	Vols.Added	Expend.	Approps.	Staff	Salaries
1909/10	313,772	15,246	\$25,412.34	*	23	\$20,000

A note under Appropriations says this figure is about the same as expenditures "but probably more. Appropriations vary each year."

PRINCETON 1909/10

Variables: All

Phineas Windsor collected data from Princeton in 1909/10 as discussed above at CHICAGO, 1909/10. Data from Princeton first appear in the Gerould reports beginning in 1911/12, the next year the data appear. The data for Princeton for this year are:

	Vols.	Vols.Added	Expend.	Approps.	Staff	Salaries
1909/10	264,242	14,258	\$14,510.81	*	35	\$20,300

A note under Appropriations reports this figure is the "same approximately" as the Expenditure figure.

STANFORD 1909/10

Variables All

Phineas Windsor collected data from Stanford in 1909/10 as discussed above at CHICAGO, 1909/10. Data from Stanford first appear in the Gerould reports beginning in 1911/12, the next year the data appear. Data for Stanford for this year are:

	Vols.	Vols.Added	Expend.	Approps.	Staff	Salaries
1909/10	143,881	15,118	\$29,300	\$32,000	19	\$19,240

TEXAS 1913/14

Variables: All

The Illinois Archives has a copy of a letter from Phineas Winsor, University Librarian at Illinois, to Gerould dated November 17, 1914. In this letter, Windsor says he has "received a personal letter from Mr. Godwin at the University of Texas, in which he gives me the corresponding figures for his own library. You may be interested in them." He lists the values and notes "I am adding these Texas figures to the copies of the summary which I am using here in Urbana." There is also a letter in the Archives from Gerould to Windsor (dated "November 19, 1914") saying, in part: "I am sending on to the institutions which have received copies of the table of university library statistics, the figures from the University of Texas Library." A letter of the same date, with the heading "UNIVERSITY LIBRARY STATISTICS (sic)" from Gerould and addressed "Dear Sir" asks that data from Texas be added "to the table of University Library Statistics recently sent you." Unfortunately, this letter mistranscribes the number of volumes held by Texas from the value reported by Windsor to Gerould (100,774) to 100,744. This letter must be a copy of the general mailing that might have been retyped for each institution receiving the data, so this mistake may not have been repeated on other issues of this erratum. However, the McMullen issue has these values from Texas written in after Yale (that is, in the first blank line) and for volumes the figure given is 100,744. The Minnesota issue has the Texas values typed in after Yale and also has 100,744 volumes. The Illinois stacks issue of these data, which unlike the others is arranged by size, has Texas typed in, in proper order, and with 100,774 volumes. The Texas data are included in this edition of the Gerould data with the number of volumes used here will be 100,774, the value in the Windsor letter. In this case, the value in this letter must take precedence over the erratum.

Data from Texas are included on subsequent reports from Gerould. The data from 1913/14 are:

	Vols.	Vols.Added	Expend.	Approps.	Staff	Salaries
1913/14	100,774	11,694	\$17,000	\$21,000	18	\$15,040

TEXAS 1926/27
Variables: All

The alphabetical edition of this year's data has blanks after Texas and Wisconsin. The issues at Texas and Virginia were left blank while values for all variables for these two libraries were typed in on the McMullen copy. Both of these sets of values have footnote saying "See attached slip," although no slip is attached. The same values were handwritten on the edition of these data ordered by size. The values for Texas and Wisconsin are included here because they appear to have come from an erratum which has not been found. The values from the years on either side of this year are worth considering, though, because the numbers are not in good order. The values for Texas for 1925/26 through 1927/28 are:

	Vols.	Vols.Added	Expend.	Approps.	Staff	Salaries
1925/26	416,523	17,041	\$32,862.83	\$30,000.00	30	\$66,130.00
<u>1926/27</u>	388,016	31,362	74,818.54	35,000.00	26	52,530.00
1927/28	411,310	20,161	59,912.67	35,000.00	26	52,900.00

TEXAS 1937/38
Variable: Volumes
Value of the variable used in this edition: 564,360

The edition of these data ordered by the size of the institution records the number of volumes held at Texas in 1937/38 as 564,350 while the value recorded in the alphabetical list is 564,360. Because this latter edition is deemed closer to the master copy the value from that edition is used here.

VIRGINIA 1941/42
Variable: Salaries

Value of the variable used in this edition: \$81,089.22

This case is discussed on pages 13-14 and 18 of the main text. There is good evidence that the value should be \$78,509.42. The latter value was not used in this edition of these data because not enough is known about changes made in the Princeton Compilation.

WASHINGTON (SEATTLE) 1924/25 and 1925/26
Variables: Volumes, Volumes Added

The Virginia issue of this year's data has a letter dated February 25, 1926, from William E. Henry, the Librarian at the University of Washington's library, correcting the figures for Volumes and Volumes Added given in the Gerould report. The distribution copy reports 156,416 Volumes and 26,030 Volumes Added while the erratum asks that these values be changed to 143,840 and 15,391, respectively. These changes have been made in this edition.

The issue from Texas does not include this correction, nor do the issues from Illinois's stacks or Archives. The Illinois issues are dated "Dec. 1925" and were, therefore typed before Henry's letter was sent. The issue from the Illinois stacks for 1925/26, dated "December, 1926" has had a handwritten change made to the Volumes and Volumes Added figures. Volumes has been changed to 145,840 (or 145,640--the change is barely legible) and Volumes Added has been changed to 15,391. It is clear from the dates that the changes made to the 1925/26 issue were made on the wrong year's data. The Volumes figure, in any case, was mistranscribed.

WASHINGTON (SEATTLE) 1929/30

Variable: Volumes

Value of the variable used in this edition: 207,069

The number of volumes reported for Washington in the alphabetically ordered edition is 207,069 while the edition ordered by size reports 207,067 volumes held. Because the alphabetical edition is deemed to be closer to the master copy, the value from that edition is used here.

WASHINGTON (ST. LOUIS) 1951/52

Variables: Staff salaries, student salaries

Values of the variables used in this edition: Staff salaries: \$137,106
Student salaries: 10,290

An erratum dated "13 January 1953" from Lawrence Heyl at Princeton University corrects the values in the original issues (\$59,190 and \$17,570, respectively) to those used here.

WISCONSIN 1911/12

Variables: All

The McMullen issue of the 1911/12 data says "(Figures not yet received)" for Wisconsin. The Minnesota issue has values for all six variables. The values from the Minnesota issue are used here.

WISCONSIN 1913/14

Variable: Volumes

Value of the variable used in this edition: 210,000

The McMullen and Minnesota issues from this year report 210,000 volumes held while the alphabetically ordered issue in the Illinois stacks reports another number which is barely legible. What is visible may be 393,000 or 398,000. This number is probably 393,000 because the footnote says the count "includes state Hist. Soc. Lib. 183,000 vols. in same building." 210,000 plus 183,000 equals 393,000. For reasons given at the beginning of this Appendix, the alphabetically ordered list is deemed not to be a distribution copy from Minnesota and might be a copy made (presumably at Illinois) from a distribution copy. This issue of these data includes a change in the data which exists in no other issue of these data, namely the inclusion of the volumes held at the Wisconsin Historical Society Library. In most of the Gerould data, the number of volumes held by Wisconsin is reported with a note similar to the one found in this year: "Figures do not include State Hist. Library numbering 183,000 vols. in same building."

The Wisconsin library's statistics, as they are now published in the ARL Statistics, include the holdings of Wisconsin's Memorial Library and the State Historical Library. The holdings of the main library at Wisconsin are included in this edition of the Gerould statistics but footnotes often record the number of volumes held at

The State Historical Library. These figures are included here:

Year	Volumes	Year	Volumes
1911/12	175,000	1923/24	234,000
1912/13	not reported	1924/25	not reported
1913/14	183,000	1925/26	242,000
1914/15	185,000	1926/27	248,000
1915/16	193,000	1927/28	255,000
1916/17	201,000	1928/29	not reported
1917/18	201,000	1929/30	not reported
1918/19	212,275	1930/31	271,000
1919/20	218,000	1931/32	271,000
1920/21	220,000	1932/33	not reported
1921/22	226,000	1933/34	282,000
1922/23	228,000	1934/35	286,000

There is no explanation of the repeat in 1917/18 of the figure from 1916/17 or of the repeat in 1931/32 of the figure from 1930/31. There are no other data on the State Historical Library until 1949/50 when it is noted there are "720,246 physical volumes and about 850,000 manuscripts."

WISCONSIN 1926/27

Variables: All

Values for 1926/27 were added after the alphabetically ordered edition was distributed and before the edition ordered by size was distributed. See TEXAS, 1926/27 for a fuller explanation. The values have been included in this edition of these data:

	Vols.	Vols.Added	Expend.	Approps.	Staff	Salaries
1926/27	377,452	18,385	\$61,673.55	\$53,700.00	35	\$79,765.00

YALE 1909/10

Variables: All

Phineas Windsor collected data from Yale in 1909/10, as discussed above at CHICAGO, 1909/10. Data from Yale first appear in the Gerould reports beginning in 1911/12, the next year the data appear. Data from Yale for this year are:

	Vols.	Vols.Added	Expend.	Approps.	Staff	Salaries
1909/10	600,000	30,000	\$26,843	\$27,400	47	\$37,233

The volumes figure is reported as "about 600,000." The reply to volumes added says "Total accessions, bound + unbound, 30,00 (sic.)" This mistake may be a result of carelessness on the part of Dr. J.C. Schwab, who apparently collected the data at Yale, or it may be the figure on the original sheet was, in fact, 30,000 but the last zero was cut off when the copy that was used in this compilation was made. This copy was not aligned properly on the copying machine and, as a result, part of this number may be missing.

YALE 1911/12
 Variable: Volumes
 Value of the variable used in this edition: 900,000

The McMullen issue reports 600,000 while Minnesota reports 900,000. For reasons given at CHICAGO, 1911/12 and WISCONSIN, 1911/12 the Minnesota issue is believed to be later and closer to the master copy.

In 1912/13 Yale is reported to have 1,000,000 volumes. 1911/12 is the first year data from Yale appears in the Gerould data. Of course, there is a 1909/10 figure (600,000) from the Windsor data (see YALE, 1909/10).

PART 2

VALUES NOT USED IN THIS EDITION BUT WHICH MAY BE CORRECT

The biggest group of the values not included in this edition of the Gerould data that may be correct is the set of data collected by Phineas Windsor in 1909/10. These data are not, strictly speaking, Gerould data but Windsor made an effort to collect these data using the definitions used by Gerould. There may be circumstances where these data are useful. See above the listings under CHICAGO, 1909/10; COLUMBIA, 1909/10; CORNELL, 1909/10; HARVARD, 1909/10; JOHNS HOPKINS, 1909/10; NORTHWESTERN, 1909/10; PENNSYLVANIA, 1909/10; STANFORD, 1909/10; and YALE, 1909/10 for these values.

Other values that may be correct are given below. These values are also discussed in Part 1.

CALIFORNIA, BERKELEY 1911/12
 Variable: Appropriations
 Used here: \$24,000 Not used: \$34,000

HARVARD 1912/13
 Variables: All

The values given in the McMullen issue for 1912/13 for Harvard may be correct.

HARVARD 1917/18
 Variables: All

The values given in the McMullen issue for 1917/18 for Harvard may be correct.

MICHIGAN 1945/46
 Variable: Volumes Added

The distribution copy of these data give the value of Volumes Added at Michigan in 1945/46 as "28, 87" with the middle digit illegible. The decision was made to exclude this value from this edition of these data and treat it as a missing value because the missing digit can be any number from 0 through 9. In many circumstances, treating the missing digit as a "5" and reading the number as "28,587" will give a useable approximation of the number of volumes added.

NEBRASKA 1925/26

Variable: Salaries

Used here: \$81,000

Not used: \$40,000

The value used does not fit the context of related variables for Nebraska as well as the value for which there is no authority. \$40,000 seems to fit better than \$81,000. See above for the related values.

VIRGINIA 1941/42

Variable: Salaries

Used here: \$81,089.22

Not used: \$78,509.42

This pair of values is discussed on pages 13-14 and 18.

APPENDIX 3

DIFFERENCES IN DATA BETWEEN THE GEROULD STATISTICS AND THE PRINCETON COMPILATION

This appendix lists differences between the 1947 Princeton Compilation of the 1919/20 to 1943/44 Gerould data and the version of the Gerould statistics used in this study for the years the two series overlap. Both sets of data are included on the tape of the data that is being made available. The tape of these sets of data is described in Appendix 5.

The values for dollar variables have been rounded to the nearest whole dollar in the Princeton Compilation. In a large number of cases the compilers apparently did not round the values correctly. It is possible, though unlikely, that these many cases may have actually resulted from the correction of errors in the data issued by Gerould. This list of differences between the two sets of numbers has ignored those cases where there were apparent rounding errors.

Data from the library at the University of South Dakota which appeared in the issues of the Gerould statistics from 1907/08--1924/25 were not included in the Compilation.

The symbol "*" will be used to indicate that there is no value for the given variable in that year and source. In order to conserve space, the variable recording expenditures for books, periodicals and binding is labelled "Expenditures."

	<u>Year</u>	<u>Variable</u>	<u>Gerould</u>	<u>Princeton</u>
BROWN				
	1922/23	Salaries	*	28,300
	1930/31	Volumes Added	21,485	21,435
BRYN MAWR				
	1934/35	Expenditures	13,604.00	18,604
CALIFORNIA, BERKELEY				
	1935/36	Appropriations	*	102,000
	1936/37	"	*	113,000
	1937/38	"	*	160,700
	1938/39	Salaries	119,831.47	179,062
CALIFORNIA, LOS ANGELES				
	1932/33	Salaries	56,750.00	66,100
CHICAGO				
	1925/26	Salaries	188,337.89	181,338
	1936/37	Volumes Added	34,259	34,269
CINCINNATI				
	1940/41	Salaries	54,634.02	54,632

COLORADO

1922/23	Not reported in the original.
1923/24	Not reported in the original.
1930/31	Not reported in the original.

The Princeton compilation reports the following values for these years:

	Vols.	Vols. added	Expend.	Approps.	Staff	Salaries
1922/23	143,885	9,200	10,500	31,045	13	16,070
1923/24	153,289	9,404	14,230	31,095	14	17,940
1930/31	235,000	13,163	25,000	45,260	16.5	24,550

	<u>Year</u>	<u>Variable</u>	<u>Gerould</u>	<u>Princeton</u>
COLORADO (continued)				
	1924/25	Volumes	167,000	163,470
	"	Volumes Added	9,000	10,181
	"	Expenditures	7,500.00	15,650
	"	Appropriations	7,700.00	31,785
	"	Staff	15	15.5
	"	Salaries	24,085.00	19,150
	1925/26	Staff	24	14

COLUMBIA

1921/22	Appropriations	*	75,238
1922/23	"	*	73,337
"	Salaries	*	138,844
1923/24	Appropriations	*	71,855
"	Salaries	*	257,098
1924/25	Appropriations	*	87,337
"	Salaries	*	168,000
1925/26	"	*	183,584

CORNELL

1923/24	Appropriations	*	40,206
"	Staff	36	32
"	Salaries	52,437.00	46,640
1924/25	Volumes	724,453	724,452
"	Appropriations	*	39,514
"	Staff	22	34
"	Salaries	58,215.00	51,560
1925/26	Appropriations	*	41,767
"	Staff	32	33
"	Salaries	57,255.00	52,040
1926/27	Volumes	787,127	761,868
"	Appropriations	*	42,048
"	Staff	20	33
"	Salaries	71,125.00	53,706
1927/28	Appropriations	*	44,375
"	Staff	20	35
"	Salaries	58,700.00	55,540

	<u>Year</u>	<u>Variable</u>	<u>Gerould</u>	<u>Princeton</u>
DARTMOUTH				
	1922/23	Appropriations	*	27,440
	1926/27	Salaries	39,600.00	34,435
	1927/28	"	57,000.00	39,577
	1928/29	"	62,000.00	54,140
	1929/30	Volumes	331,146	306,496
	1930/31	"	330,000	328,905
	1939/40	Staff	56	58
	1940/41	Appropriations	90,536.00	56,300
	"	Staff	49.5	61
	1941/42	Appropriations	97,954.00	54,250
	"	Staff	56	59
	1942/43	Appropriations	98,900.00	53,547
DUKE				
	1933/34	Appropriations	102,500.00	102,000
	1938/39	Salaries	99,519.24	112,161
	1940/41	"	103,584.98	118,773
	1941/42	"	111,989.33	126,160
	1942/43	Appropriations	*	96,245
	"	Salaries	98,238.87	117,686
HARVARD				
	1919/20	Salaries	*	67,390
	1920/21	"	*	89,377
	1921/22	"	*	91,557
	1924/25	Expenditures	157,040.00	*
	1931/32	Staff	131	118
ILLINOIS				
	1919/20	Volumes	440,372	549,873
	"	Volumes Added	21,423	36,884
	"	Salaries	52,384.00	54,757
	1920/21	Volumes	456,503	581,193
	"	Volumes Added	17,352	31,924
	"	Salaries	55,184.00	57,984
	1921/22	Volumes	480,595	628,595
	"	Volumes Added	28,873	48,006
	"	Salaries	77,795.00	80,933
	1922/23	Volumes	541,942	677,534
	"	Volumes Added	28,506	49,543
	"	Salaries	108,407.00	101,002
	1923/24	Volumes	567,787	720,697
	"	Volumes Added	25,863	43,767
	1924/25	Volumes	655,139	762,227
	"	Volumes Added	32,678	42,134
	"	Salaries	121,898.00	105,382

Listings for Illinois are continued on the following page.

<u>Year</u>	<u>Variable</u>	<u>Gerould</u>	<u>Princeton</u>
ILLINOIS (continued)			
1925/26	Volumes	687,345	810,948
"	Volumes Added	32,206	49,325
"	Salaries	110,494.00	106,644
1926/27	Volumes	708,850	854,947
"	Volumes Added	25,522	44,603
"	Salaries	132,838.00	116,086
1927/28	Volumes	768,329	903,137
"	Volumes Added	59,579	48,794
"	Expenditures	127,006.00	127,007
"	Salaries	143,302.00	123,841
1928/29	Volumes	800,330	955,931
"	Volumes Added	32,001	53,398
"	Expenditures	117,599.00	117,600
1929/30	Volumes	841,395	1,006,900
"	Volumes Added	35,086	51,573
"	Salaries	158,409.00	133,819
1930/31	Volumes	887,884	1,060,733
"	Volumes Added	36,489	54,437
"	Salaries	164,769.94	135,770
1931/32	Volumes	916,452	1,113,733
"	Volumes Added	38,568	53,604
"	Expenditures	103,634.00	109,560
"	Salaries	183,868.00	155,995
1932/33	Volumes	947,043	1,167,978
"	Volumes Added	30,591	54,849
"	Expenditures	94,456.20	97,414
"	Salaries	169,179.00	145,535
1933/34	Volumes	978,212	1,220,746
"	Volumes Added	31,169	53,372
"	Expenditures	94,648.00	98,927
"	Salaries	134,389.00	127,586
1934/35	Volumes	1,011,938	1,273,446
"	Volumes Added	34,155	53,304
"	Expenditures	103,535.86	106,497
"	Salaries	161,776.00	133,554
1935/36	Volumes	1,052,684	1,335,456
"	Volumes Added	40,746	62,614
"	Expenditures	113,910.70	116,988
"	Salaries	171,742.00	142,266
1936/37	Volumes	1,086,212	1,395,691
"	Volumes Added	33,528	60,888
"	Expenditures	117,557.89	128,908
"	Salaries	151,318.00	145,061
1937/38	Volumes	1,130,584	1,468,684
"	Volumes Added	43,298	73,749
"	Expenditures	139,565.00	151,734

Listings for Illinois are continued on the following page.

	<u>Year</u>	<u>Variable</u>	<u>Gerould</u>	<u>Princeton</u>
ILLINOIS (continued)				
	1938/39	Volumes	1,175,692	1,545,344
	"	Volumes Added	45,108	77,393
	"	Expenditures	138,859.99	154,170
	1939/40	Volumes	1,209,977	1,618,579
	"	Volumes Added	34,285	73,998
	"	Expenditures	135,189.39	141,923
	"	Salaries	204,552.00	208,407
	1940/41	Volumes	1,262,046	1,687,847
	"	Volumes Added	44,371	70,002
	"	Expenditures	133,724.68	146,674
	"	Appropriations	137,500.00	151,200
	"	Salaries	244,124.00	212,903
	1941/42	Volumes	1,306,561	1,765,203
	"	Volumes Added	44,515	78,154
	"	Expenditures	156,682.00	151,229
	"	Salaries	244,124.00	235,719
	1942/43	Volumes	1,364,906	1,834,437
	"	Volumes Added	58,455	69,733
INDIANA				
	1927/28	Staff	19	10
	1930/31	Volumes	218,800	232,800
	1941/42	"	436,183	*
IOWA				
	1923/24	Salaries	33,760.00	28,633
	1924/25	"	59,014.00	50,607
	1925/26	"	73,719.80	59,698
	1926/27	"	73,696.95	56,165
	1927/28	"	77,785.00	58,922
	1928/29	"	78,445.00	61,020
	1929/30	"	83,640.00	65,186
	1930/31	"	96,174.11	75,440
	1931/32	Appropriations	*	50,000
	"	Salaries	97,476.00	72,834
	1932/33	"	90,096.00	66,675
	1933/34	"	82,789.00	59,923
	1934/35	"	83,760.00	60,488
	1935/36	"	83,823.00	61,613
	1936/37	"	87,473.78	65,708
	1937/38	Volumes Added	14,595	14,593
	"	Salaries	98,869.95	74,353
JOHNS HOPKINS				
	1920/21	Salaries	21,713.50	21,715

	<u>Year</u>	<u>Variable</u>	<u>Gerould</u>	<u>Princeton</u>
KANSAS				
	1921/22	Volumes	150,104	149,140
	"	Volumes Added	5,675	5,359
	"	Expenditures	20,538.00	21,500
	"	Appropriations	17,700.00	33,545
	"	Staff	18	19
	"	Salaries	28,430.00	22,116
MICHIGAN				
	1936/37	Expenditures	133,673.00	133,676
MINNESOTA				
	1920/21	Salaries	65,030.00	63,030
	1936/37	Appropriations	93,885.00	93,835
	1937/38	Staff	87	97
	1938/39	"	88	98
	1939/40	"	126	95
	1941/42	"	88	98
	1942/43	"	94	98
MISSOURI				
	1932/33	Salaries	40,506.00	36,175
NEBRASKA				
	1922/23	Expenditures	27,000.00	27,400
	1924/25	Volumes	185,575	195,575
	1925/26	Appropriations	41,000.00	40,000
	"	Salaries	81,000.00	41,000
	1935/36	Staff	25	35
NEW YORK				
	1941/42	Staff	104	99
	1942/43	"	60	67
NORTH CAROLINA				
	1930/31	Salaries	55,922.36	46,025
	1931/32	"	45,317.00	37,035
	1932/33	"	25,806.00	35,437
	1933/34	Volumes	254,552	264,552
	"	Salaries	33,006.00	28,423
	1934/35	"	44,537.00	30,412
	1937/38	Staff	30	20
	1938/39	Appropriations	40,000.00	25,000
	1939/40	"	25,500.00	25,000
	1940/41	Volumes	403,051	405,051
	1942/43	Expenditures	38,437.01	38,369

	<u>Year</u>	<u>Variable</u>	<u>Gerould</u>	<u>Princeton</u>
NORTH DAKOTA				
	1927/28	Volumes	80,000	95,215
	1939/40	Appropriations	*	14,862
	1940/41	"	8,500.00	14,026

NORTHWESTERN				
	1922/23	Not reported in the original.		

The Princeton compilation reports the following values for this year:

	<u>Vols.</u>	<u>Vols. added</u>	<u>Expend.</u>	<u>Approps.</u>	<u>Staff</u>	<u>Salaries</u>
1922/23	225,061	8,320	18,332	20,915	*	26,392

	<u>Year</u>	<u>Variable</u>	<u>Gerould</u>	<u>Princeton</u>
NORTHWESTERN (continued)				
	1923/24	Volumes	236,945	237,821
	"	Volumes Added	12,285	12,760
	"	Expenditures	27,963.31	*
	"	Appropriations	28,000.00	*
	"	Staff	21	*
	"	Salaries	31,594.87	*
	1924/25	Staff	21	*
	1929/30	Volumes	423,744	354,601
	1930/31	Volumes	575,245	388,055
	1931/32	"	605,288	418,098
	1932/33	"	652,689	452,272
	"	Volumes Added	41,121	34,194
	1933/34	Volumes	719,412	483,949
	"	Volumes Added	43,933	31,657

OBERLIN				
	1925/26	Salaries	*	34,647
	1929/30	Staff	27	32.8
	"	Salaries	55,972.00	51,051
	1930/31	Staff	26	32
	"	Salaries	49,480.00	54,451
	1931/32	Staff	42	37
	"	Salaries	49,070.00	55,538
	1932/33	Staff	30	36
	"	Salaries	58,737.00	53,887
	1933/34	Staff	36	33
	"	Salaries	47,830.00	45,036
	1934/35	Staff	30	33
	"	Salaries	49,978.00	43,673
	1935/36	Staff	33	32.6
	"	Salaries	51,100.00	46,252
	1936/37	Staff	34	33
	"	Salaries	54,420.00	54,092
	1937/38	Staff	35	34
	"	Salaries	56,750.00	54,492

	<u>Year</u>	<u>Variable</u>	<u>Gerould</u>	<u>Princeton</u>
OHIO STATE				
	1923/24	Expenditures	47,718.33	54,547
	"	Appropriations	64,376.67	54,547
	1930/31	"	*	36,935
	1935/36	"	*	45,859
OREGON				
	1921/22	Salaries	26,965.41	20,176
	1922/23	Staff	16	13
	"	Salaries	32,085.84	21,359
	1923/24	"	33,556.52	24,400
	1924/25	Staff	19	16
	"	Salaries	36,099.00	24,413
	1926/27	"	41,987.40	29,555
	1927/28	"	46,915.00	30,849
	1928/29	Staff	27	25
	1929/30	"	27	25
	"	Salaries	55,349.00	35,082
	1930/31	Staff	26	24
	"	Salaries	59,630.70	39,363
	1931/32	Volumes	235,645	235,643
	1935/36	Staff	25	24
	"	Salaries	53,058.00	36,475
	1932/33	Staff	19	23
	"	Salaries	44,680.00	34,108
	1933/34	Staff	21	23
	"	Salaries	40,621.00	28,587
	1934/35	Staff	24	23
	"	Salaries	32,874.00	31,911
	1935/36	Staff	25	24
	"	Salaries	41,758.00	33,048
	1936/37	Staff	22	24
	"	Salaries	39,921.24	31,530
	1937/38	Staff	23	24
	1938/39	"	23	24
	1940/41	"	24.5	24
	"	Salaries	42,457.64	42,790
	1941/42	Staff	28	24
	1942/43	"	24	27
PENNSYLVANIA				
	1930/31	Expenditures	83,877.50	93,877
	1942/43	Appropriations	*	62,592
PRINCETON				
	1925/26	Volumes	593,954	595,954

	<u>Year</u>	<u>Variable</u>	<u>Gerould</u>	<u>Princeton</u>
ROCHESTER				
	1925/26	Volumes	140,380	125,380
	"	Volumes Added	13,826	8,900
	1926/27	Volumes	163,700	133,488
	"	Volumes Added	8,101	8,108
	1927/28	Volumes	163,015	142,165
	"	Volumes Added	8,647	8,677
	1928/29	Volumes	175,839	153,791
	1929/30	"	191,266	167,514
	"	Volumes Added	15,427	13,723
STANFORD				
	1921/22	Staff	34	32
	"	Salaries	58,900.00	54,000
	1927/28	Appropriations	*	53,615
	1942/43	"	55,000.00	54,000
TEXAS				
	1922/23	Not reported in the original.		
	1924/25	Not reported in the original.		
	1929/30	Not reported in the original.		

The Princeton compilation reports the following values for these years:

	<u>Vols.</u>	<u>Vols. added</u>	<u>Expend.</u>	<u>Approps.</u>	<u>Staff</u>	<u>Salaries</u>
1922/23	294,308	25,746	*	*	27	40,960
1924/25	325,873	13,404	*	*	25	41,210
1929/30	407,536	14,507	*	*	29	43,205

	<u>Year</u>	<u>Variable</u>	<u>Gerould</u>	<u>Princeton</u>
TEXAS (continued)				
	1919/20	Volumes	183,263	226,479
	"	Volumes Added	17,483	17,662
	1920/21	Volumes	205,097	248,312
	1921/22	Volumes	225,347	268,562
	1923/24	"	282,048	312,469
	"	Volumes Added	18,536	18,161
	1925/26	Volumes	416,523	339,458
	"	Volumes Added	17,041	13,585
	1926/27	Volumes	388,016	358,821
	"	Volumes Added	31,362	19,363
	1927/28	Volumes	411,310	379,165
	"	Volumes Added	20,161	20,344
	1928/29	Volumes	430,082	393,029
	"	Volumes Added	12,692	13,864

Listings for Texas are continued on the following page.

	<u>Year</u>	<u>Variable</u>	<u>Gerould</u>	<u>Princeton</u>
TEXAS (continued)				
	1930/31	Volumes	459,873	426,076
	"	Volumes Added	17,425	18,540
	1931/32	Volumes	471,515	436,224
	"	Volumes Added	10,642	10,148
	1932/33	"	12,235	14,025
	1933/34	"	20,158	23,588
	1934/35	"	17,686	16,508
	1935/36	"	17,782	18,782
	1936/37	"	22,985	22,327
	1937/38	Volumes	564,360	563,697
	"	Volumes Added	32,906	32,243
	1938/39	Volumes	618,856	613,615
	"	Volumes Added	55,159	49,918
VASSAR				
	1931/32	Salaries	36,709.00	36,700
	1937/38	"	41,529.00	37,529
VIRGINIA				
	1934/35	Volumes Added	16,566	16,586
	1936/37	Expenditures	29,006.74	29,807
	1941/42	Salaries	81,089.22	78,509
WASHINGTON				
	1922/23	Volumes	120,964	120,946
	1924/25	"	143,840	156,416
	"	Volumes Added	15,391	26,030
	1931/32	Volumes	257,853	316,136
	"	Appropriations	*	45,000
	1932/33	Volumes	265,492	327,431
	1933/34	"	275,820	344,220
	1941/42	Salaries	108,747.00	71,693
WASHINGTON UNIVERSITY-ST. LOUIS				
	1923/24	Volumes Added	12,176	9,926
	1925/26	"	15,233	16,301
	1926/27	Appropriations	*	50,950
	1927/28	Volumes	243,221	294,469
	"	Volumes Added	7,420	16,584
	1928/29	Volumes	250,699	301,889
	"	Volumes Added	8,934	7,420
	1929/30	Volumes	168,752	310,823
	"	Volumes Added	6,256	8,934
	1930/31	Volumes	271,808	317,079
	"	Volumes Added	12,322	6,256
	"	Expenditures	36,502.00	36,302

Listings for Washington University-St. Louis are continued on the following page.

<u>Year</u>	<u>Variable</u>	<u>Gerould</u>	<u>Princeton</u>
WASHINGTON UNIVERSITY-ST. LOUIS (continued)			
1931/32	Volumes	271,808	329,401
1932/33	"	189,632	338,711
"	Volumes Added	7,445	9,310
1933/34	Volumes	295,249	346,156
"	Volumes Added	4,998	7,445
1934/35	Volumes	303,089	351,154
"	Volumes Added	7,840	4,998
1935/36	Volumes	305,515	358,994
"	Volumes Added	7,426	7,840
1936/37	Volumes	305,515	366,420
"	Volumes Added	7,077	7,426
1937/38	Volumes	167,556	373,497
"	Volumes Added	6,288	7,077
1938/39	"	14,384	25,322
"	Staff	34	16
"	Salaries	*	25,186
1939/40	Volumes	409,872	413,203
"	Volumes Added	11,063	14,384
1940/41	"	14,915	67,934
1942/43	Volumes	276,390	536,819
"	Volumes Added	15,941	35,196
WELLESLEY			
1942/43	Appropriations	*	22,000
WESTERN RESERVE			
1942/43	Volumes	565,500	565,000
WISCONSIN			
1928/29	Not reported in the original.		
1929/30	Not reported in the original.		

The Princeton compilation reports the following values for these years:

	Vols.	Vols. added	Expend.	Approps.	Staff	Salaries
1928/29	404,386	12,624	50,313	57,500	37	62,544
1929/30	417,467	13,081	55,791	57,500	39	65,065
YALE						
1928/29		Staff		*		81
"		Salaries		*		164,015

APPENDIX 4

DIFFERENCES IN DATA BETWEEN THE GEROULD AND PURDUE STATISTICS

This appendix presents the values of five variables, (volumes held, volumes added, materials expenditures, salaries for full time employees, and wages for student employees) that differ between this edition of the Gerould statistics and the statistics used in the Purdue studies in the years these two series overlap, 1950/51-1961/62. The five variables are those which are directly comparable with each other in the two series. There are 46 institutions common to both sources.

The Purdue data were not published in hardcopy but were made available in a deck of computer cards. Dr. Warren Seibert of the National Library of Medicine located one of the Purdue decks and the data are now available on tape from:

Keith Dowden,
Director of Special Collections
University Libraries
Purdue University
Lafayette, Indiana 47907

The comparison between the Gerould and Purdue statistics made in this appendix uses the Purdue values recorded on a tape from Dr. Seibert that records values for the 58 Purdue libraries from 1950/51 through 1971/72 and will, therefore, reflect any changes in those data made through the last year by the compilers of the data or by anyone who had owned any earlier generation of the data used to make the comparisons in this appendix. There is no reason to suspect that any changes were made in the data nor any way to make sure changes were not made.

The Purdue values that differ from the values reported in the Gerould statistics have been checked with the original sources, as indicated in the Appendix to The Past and Likely Future of 58 Research Libraries, 1951-1980: A Statistical Study of Growth and Change, (Dunn, Seibert, and Scheuneman, 1965) and references to these sources are included when necessary. According to the Purdue Appendix, the Purdue values for these early years come from three sources:

1. Values for these five variables from 1950/51 through 1958/59 come from an annual cumulation published in College and Research Libraries, volumes 13-21.
2. Values for 1959/60 and 1960/61 come from Library Statistics of College and Universities for those two years. This title was produced by the Office of Education at the U.S. Department of Health, Education, and Welfare and published by the Government Printing Office.
3. Data for 1961/62 came from the first issue of the annual statistical series published now by the Association of Research Libraries statistical series under the title ARL Statistics but known in 1961/62 as Statistics for the Fiscal Year 1961/62.

In the references given below to these three sources, C&RL refers to the issues of College and Research Libraries. In that series, values for a given year will be found in the next year, that is, data from 1950/51 will be in volume 13, 1952. The statistics appear in the first issue each year. LS refers to Library Statistics and ARL refers to the statistics published by the Association of Research Libraries for 1961/62. According to the Appendix in The Past and Likely Future, the Purdue values given are said to have been taken from one of these three sources with exceptions as noted in the next paragraph.

The compilers of the Purdue data also used other sources of data and other means of obtaining data. In a section on PROCEDURES, the authors mention they discovered omissions in the data and "steps were taken to locate and insert the missing figures. In some cases, data initially missing were found in reports which had not served as principal data sources. In other cases, omitted data could be supplied by interpolation, extrapolation, or other calculations from the data in hand." (p. 5)

As was noted in the discussion of the Princeton compilation, the fact that a number in the Purdue tape differs from the value in one of the sources does not indicate the Purdue value is wrong because the compilers of the data may have discovered a mistake and corrected it.

In many of the cases that follow the values differ by one and may result from rounding errors. Purdue and the sources it consulted do not include amounts below a dollar, so there are no numbers to the right of decimal points. The Gerould data during this period used decimals in 1950/51 with library materials expenditures and did not thereafter. These values less than a dollar are reported for the Gerould data for 1950/51. Values for 1950/51 are not regarded as different for purposes of this appendix if the correctly rounded Gerould value equals the Purdue value.

In 1959/60 and 1960/61, the Purdue studies used Library Statistics, which did not record the value for library materials expenditures and binding: these two variables were separate. In order to derive figures that were comparable to those reported for other years, the compilers of the Purdue data apparently added the figure given for "Books and other library materials" expenditures with those for "Binding." In two cases (COLORADO, 1959/60, and ROCHESTER, 1959/60), these figures were apparently not added correctly. The details in these two instances are given below.

There are cases where values for student wages are given by Purdue as \$0. In all such cases (except Yale's student wages in 1950/51) the original source did not report a value, that is, the space was blank. There were a number of reasons for the practice of reporting no value as evidenced by footnotes, the most common of which are either that the data are "not reported or not available" or that student wages are included with staff salaries. In 1950/51 Yale is reported to have spent \$0 because the student budget did not come out of the library's budget.

Cases where the source suggested for data gives no values for an institution for a given year are also given. There are a number of institutions for which there are no data in C&RL in given years but there are data in the Purdue statistics. For example, Johns Hopkins has no data in C&RL before 1954/55, yet Purdue reports data for these years. In six (Iowa before 1950/51, Johns Hopkins before 1954/55; Nebraska before 1953/54; Notre Dame before 1954/55; Pittsburgh before 1954/55; and Stanford before 1959/60) there are relatively few differences between the Purdue and Gerould data. In these cases the Gerould statistics may have been one

of the "reports that had not served as principal data sources" used by the compilers of the Purdue data.

The symbol "*" indicates that the value for the given variable is missing in the source.

	<u>Year</u>	<u>Variable</u>	<u>Gerould</u>	<u>Purdue</u>
BROWN				
	1950/51	Volumes Added	17,014	18,534
	1951/52	"	17,220	19,429
	"	Wages	14,926	14,936
	1952/53	Volumes Added	19,741	21,461
	"	Expenditures	92,090	92,089
	1953/54	Volumes	807,902	817,514
	"	Volumes Added	18,056	20,363
	1954/55	Volumes	825,797	836,159
	"	Volumes Added	17,895	19,425
	1955/56	Volumes	844,383	857,660
	"	Volumes Added	18,586	23,858
	1956/57	Volumes	862,674	891,033
	"	Volumes Added	18,291	37,510
	1957/58	Volumes	884,247	922,077
	"	Volumes Added	21,584	32,937
	"	Salaries	226,961	223,523
	"	Wages	29,699	33,587
	1958/59	Volumes	906,415	956,472
	"	Volumes Added	25,993	37,953
	"	Salaries	265,897	264,807
	"	Wages	33,093	34,183
	1959/60	Salaries	321,968	319,887
	"	Wages	35,313	37,392
	<u>LS</u> records 37,394 instead of 37,392.			
	1960/61	Salaries	369,064	363,619
	"	Wages	43,394	48,839
CALIFORNIA, BERKELEY				
	1950/51	Salaries	877,194	864,614
	"	Wages	196,190	193,950
	1951/52	Expenditures	412,570	412,571
	"	Wages	191,654	191,655
	1953/54	Volumes Added	79,276	79,279
	"	Salaries	1,183,811	1,192,004
	"	Wages	294,202	241,027
	1958/59	Wages	303,166	330,166
CALIFORNIA, LOS ANGELES				
	1950/51	Expenditures	353,094.76	353,093
	1957/58	Wages	281,084	281,064

	<u>Year</u>	<u>Variable</u>	<u>Gerould</u>	<u>Purdue</u>
CHICAGO				
	1950/51	Volumes Added	45,459	49,457
	<u>C&RL</u> records 53,971 instead of 49,457.			
	1950/51	Wages	*	0
	1951/52	Salaries	483,369	216,737
	"	Wages	*	266,633
	<u>C&RL</u> records 483,369 for salaries but gives no value for wages which are included with salaries according to a footnote. The figure for Salaries, \$216,737, plus the figure for wages, \$266,633, equals \$483,370.			
	1954/55	Salaries	394,003	394,004
	1956/57	"	456,381	456,382
CINCINNATI				
	1950/51	Expenditures	51,188.78	51,639
	1952/53	Volumes	661,227	661,572
	1955/56	Expenditures	95,441	94,646
	1957/58	"	102,531	102,331
COLORADO				
	1950/51	Wages	33,685	33,686
	1951/52	Salaries	107,778	107,779
	1952/53	Volumes	805,090	758,190
	"	Volumes Added	36,809	34,529
	"	Expenditures	91,727	79,327
	"	Salaries	148,013	133,033
	"	Wages	36,733	34,133
	1953/54	Expenditures	86,846	86,847
	1956/57	Wages	40,901	40,900
	1959/60	Expenditures	187,488	187,448
	<u>LS</u> gives \$165,018 for "Books and other library materials" and 22,470 for "Binding." The sum of these two numbers is \$187,488.			
COLUMBIA				
	1950/51	Wages	*	0
	1951/52	"	*	0
	1952/53	"	*	0
	1953/54	"	*	0
	1954/55	"	*	0
	1955/56	Expenditures	330,483	329,483
	"	Wages	*	0
	1956/57	"	*	0
	1957/58	"	*	0
CORNELL				
	1952/53	Wages	53,734	53,735
	1954/55	Salaries	561,126	561,127
	"	Wages	70,512	70,513
	1957/58	"	97,663	97,623

	<u>Year</u>	<u>Variable</u>	<u>Gerould</u>	<u>Purdue</u>
DUKE				
	1950/51	Expenditures	166,679	166,680
	"	Salaries	204,811	204,812
	1955/56	Volumes	1,244,880	1,243,691
	"	Volumes Added	47,748	46,500
	1957/58	Expenditures	250,104	250,105
	1959/60	Salaries	403,799	390,031
	"	Wages	34,415	48,183
FLORIDA				
	1957/58	Salaries	479,446	479,447
	1960/61	Wages	75,590	75,591
HARVARD				
	1951/52	Salaries	890,000	889,702
	<u>C&RL</u> does not record any values for Harvard in 1951/52.			
	1952/53	Volumes Added	54,153	54,123
	<u>C&RL</u> records 112,262 instead of 54,123.			
	1953/54	Volumes	5,832,912	5,833,116
	"	Volumes Added	129,965	130,169
	"	Salaries	1,057,510	1,107,510
	<u>C&RL</u> records this variable as "not reported or not available."			
	1953/54	Wages	50,000	0
	<u>C&RL</u> records this variable as "not reported or not available."			
	1954/55	Salaries	1,125,154	1,100,154
	"	Wages	70,000	95,000
	1956/57	Volumes	6,225,447	6,225,444
	1957/58	Volumes Added	162,186	124,723
	"	Salaries	1,552,752	1,401,385
	<u>C&RL</u> records 214,723 instead of 124,723 volumes added.			
	1957/58	Salaries	1,552,752	1,401,385
	1958/59	Volumes	6,492,124	6,492,111
ILLINOIS				
	1950/51	Expenditures	385,444.00	385,445
	"	Wages	96,215	96,216
	1951/52	Expenditures	378,006	378,007
	"	Wages	100,635	100,636
	1952/53	Volumes Added	85,825	92,146
	1953/54	"	133,760	109,377
	1954/55	"	98,694	113,294
	"	Expenditures	447,240	448,995
	1955/56	Volumes Added	90,040	98,427
	1960/61	"	95,246	95,266

This pair of values is discussed in Appendix 2 on page 226.

	<u>Year</u>	<u>Variable</u>	<u>Gerould</u>	<u>Purdue</u>
INDIANA				
	1950/51	Volumes Added	40,000	34,958
	1952/53	"	40,271	44,300
	"	Expenditures	252,764	253,164
	"	Salaries	328,896	329,996
	1954/55	Volumes Added	*	30,000
	<u>C&RL</u> records this variable as "not reported or not available."			
	1955/56	Volumes Added	*	83,000
	<u>C&RL</u> records this variable as "not reported or not available."			
	1956/57	Volumes Added	*	46,500
	<u>C&RL</u> records this variable as "not reported or not available."			
	1957/58	Volumes	1,190,566	1,188,827
	"	Volumes Added	*	82,500
	<u>C&RL</u> records this variable as "not reported or not available."			
	1958/59	Volumes Added	*	69,000
	<u>C&RL</u> records this variable as "not reported or not available."			
	1959/60	Volumes Added	*	59,000
	<u>LS</u> does not record a value for this variable.			
	1959/60	Salaries	440,340	444,340
	1960/61	Volumes Added	*	97,000
	<u>LS</u> records this value as an "estimated figure."			
	1961/62	Volumes	1,828,992	1,678,992
	<u>ARL</u> records 1,828,992 instead of 1,678,992 volumes held.			
	1961/62	Volumes Added	*	102,100
	<u>ARL</u> does not report a value for this variable.			

IOWA

<u>C&RL</u> records no values for Iowa in 1950/51.				
	1951/52	Volumes	773,205	664,814
	"	Volumes Added	22,205	18,098
	"	Expenditures	129,385	113,335
	"	Salaries	233,480	236,375
	<u>C&RL</u> records 236,675 instead of 236,375.			
	1953/54	Wages	40,318	45,525
	1954/55	Salaries	259,605	251,628
	"	Wages	39,395	47,372
	1955/56	Salaries	272,530	270,910
	"	Wages	44,405	46,025

IOWA STATE

	1950/51	Wages	14,421	14,422
	1951/52	"	18,053	18,054
	1952/53	Expenditures	88,724	88,725
	"	Salaries	136,382	136,383
	"	Wages	18,414	18,415
	1953/54	Expenditures	95,098	95,099
	"	Wages	21,393	21,394
	1955/56	Salaries	154,684	154,685

<u>Year</u>	<u>Variable</u>	<u>Gerould</u>	<u>Purdue</u>
JOHNS HOPKINS			
1951/52	Wages	8,597	8,598
<u>C&RL</u> records no values for Johns Hopkins before 1954/55.			
1958/59	Expenditures	141,069	141,070
1959/60	Wages	13,758	15,530
1960/61	Expenditures	189,471	162,237
"	Salaries	335,777	319,087
"	Wages	20,050	22,280
JOINT UNIVERSITY			
1950/51	Expenditures	104,685.03	104,684
1951/52	Salaries	109,438	109,439
1953/54	Volumes Added	23,183	24,839
"	Wages	30,965	30,966
1954/55	Expenditures	89,343	89,344
"	Salaries	125,083	125,084
"	Wages	30,768	30,769
1955/56	Expenditures	96,035	96,036
1956/57	Volumes	708,752	708,952
1957/58	Volumes Added	24,616	27,914
1958/59	"	26,591	29,436
KANSAS			
1950/51	Expenditures	121,761.00	122,761
KENTUCKY			
1951/52	Volumes	558,442	558,896
"	Expenditures	80,641	80,642
1952/53	"	108,319	108,320
"	Salaries	144,457	144,458
1953/54	"	145,055	145,056
1954/55	Volumes Added	31,470	31,009
1956/57	Expenditures	133,486	133,487
"	Wages	15,178	15,179
1957/58	Expenditures	176,170	195,170
1958/59	Salaries	272,827	272,828
"	Wages	24,847	24,848
1959/60	Expenditures	322,222	322,223
"	Salaries	298,058	298,059
1960/61	Volumes	904,757	925,904
"	Volumes Added	38,064	41,180
"	Salaries	327,613	354,449
"	Wages	26,336	28,550

	<u>Year</u>	<u>Variable</u>	<u>Gerould</u>	<u>Purdue</u>
LOUISIANA STATE				
	1950/51	Salaries	183,680	1 83,681
	"	Wages	20,157	20,158
	1951/52	Expenditures	118,340	118,341
	"	Salaries	189,805	189,806
	"	Wages	18,022	18,023
	1953/54	Expenditures	188,190	188,191
	"	Salaries	252,333	252,334
	1954/55	"	281,759	281,760
	1956/57	Expenditures	228,317	228,318
	"	Salaries	321,635	321,636
	"	Wages	39,295	39,296
	1959/60	Expenditures	410,196	410,197
	"	Salaries	481,594	481,118
MASSACHUSETTS INSTITUTE OF TECHNOLOGY				
	1950/51	Volumes Added	15,623	15,625
	"	Salaries	151,000	130,850
	"	Wages	14,900	16,132
	1951/52	Volumes Added	16,809	16,876
	"	Expenditures	54,736	48,700
	"	Salaries	158,340	141,400
	"	Wages	16,491	16,500
	1954/55	Expenditures	51,340	51,339
	1955/56	"	74,825	74,826
	"	Salaries	177,200	177,201
	"	Wages	19,074	19,075
	1958/59	"	27,384	27,383
	1960/61	Volumes Added	40,812	40,910
MICHIGAN				
	1951/52	Expenditures	244,708	251,500
	"	Salaries	557,971	570,432
	"	Wages	67,468	74,855
	<u>C&RL</u> records no values for Michigan in 1951/52.			
	1953/54	Volumes Added	58,211	58,018
	1954/55	Salaries	783,945	783,946
	1956/57	Expenditures	523,304	523,305
MICHIGAN STATE				
	1957/58	Expenditures	363,791	336,309
	1960/61	Salaries	463,630	463,730
	"	Wages	94,131	94,000
MINNESOTA				
	1957/58	Salaries	643,866	643,876
	1958/59	Expenditures	388,342	388,341

	<u>Year</u>	<u>Variable</u>	<u>Gerould</u>	<u>Purdue</u>
MISSOURI				
	1951/52	Expenditures	140,388	140,389
	1952/53	"	133,624	133,622
	"	Salaries	154,023	154,203
	"	Wages	18,303	18,302
	1954/55	Volumes Added	17,467	17,500
	"	Expenditures	115,367	116,368
	1955/56	Salaries	147,292	147,293
	1956/57	Expenditures	190,263	190,264
	"	Salaries	164,206	164,207
	"	Wages	36,937	36,938
NEBRASKA				
	1951/52	Salaries	176,158	176,159
	"	Wages	27,334	27,335
	<u>C&RL</u> records no values for Nebraska before 1953/54.			
	1953/54	Salaries	212,528	212,529
	1954/55	Volumes Added	20,504	18,485
	"	Expenditures	123,653	123,654
	1956/57	Wages	34,547	34,548
	1958/59	"	35,870	35,871
	1959/60	"	39,997	36,997
NEW YORK				
	1950/51	Expenditures	144,048	144,038
	"	Salaries	410,846	410,847
	<u>C&RL</u> records that this variable is "not reported or not available."			
	1950/51	Wages	*	0
	1951/52	Salaries	365,557	365,558
	"	Wages	*	0
	1952/53	Expenditures	112,761	122,201
	"	Salaries	411,372	419,784
	"	Wages	*	0
	1953/54	Expenditures	125,585	91,795
	"	Salaries	436,071	389,306
	"	Wages	*	0
	1954/55	"	*	0
	1955/56	"	*	0
	1956/57	Expenditures	132,039	132,040
	"	Salaries	*	216,166
	"	Wages	*	0
	1957/58	"	*	0
	1958/59	"	40,284	40,285
	1960/61	Salaries	561,933	275,343
	"	Wages	45,437	330,028

	<u>Year</u>	<u>Variable</u>	<u>Gerould</u>	<u>Purdue</u>
NORTH CAROLINA				
	1950/51	Expenditures	157,389.92	157,389
	"	Wages	37,859	37,860
	1951/52	Expenditures	131,091	131,092
	"	Wages	43,348	43,349
	1956/57	Volumes Added	67,295	69,043
	"	Wages	49,549	49,550
	1959/60	Volumes	1,025,144	1,025,944
	1960/61	Salaries	522,450	522,451
NORTHWESTERN				
	1951/52	Volumes	1,089,295	1,089,458
	"	Expenditures	174,450	174,151
	"	Salaries	279,483	279,484
	1954/55	"	319,962	310,962
	1956/57	Volumes Added	43,364	47,940
	1957/58	Volumes	1,339,218	1,322,040
	"	Volumes Added	43,364	57,783
PITTSBURGH				
	1950/51	Volumes	617,000	616,216
	"	Volumes Added	38,700	21,919
	"	Expenditures	105,576	87,676
	"	Salaries	138,263	119,250
	"	Wages	12,633	0
<u>C&RL</u> records no values for Pittsburgh before 1954/55.				
PRINCETON				
	1950/51	Salaries	263,064	266,683
	"	Wages	9,522	9,523
	1951/52	Salaries	271,939	275,925
	"	Wages	12,156	12,157
	1952/53	Salaries	280,848	291,860
	1953/54	Expenditures	151,685	151,686
	"	Wages	13,750	25,853
	1954/55	Expenditures	154,375	154,357
	"	Salaries	329,940	320,826
	"	Wages	17,177	26,291
	1955/56	Expenditures	169,632	169,631
	"	Salaries	362,676	352,417
	"	Wages	18,408	28,667
	1956/57	Salaries	376,371	364,462
	"	Wages	21,562	35,554
	1957/58	Volumes Added	53,134	53,146
	"	Expenditures	243,707	243,706
	"	Salaries	418,633	418,753
	"	Wages	20,539	35,291
	1958/59	Salaries	474,897	531,416
	"	Wages	23,060	39,933
	1959/60	Salaries	462,625	518,845
	"	Wages	22,267	43,256
	1960/61	Salaries	568,777	568,778
	"	Wages	25,670	52,132

	<u>Year</u>	<u>Variable</u>	<u>Gerould</u>	<u>Purdue</u>
PURDUE				
	1956/57	Volumes	417,258	416,637
	"	Volumes Added	23,890	23,909
ROCHESTER				
	1950/51	Expenditures	97,619.51	97,619
	"	Salaries	136,699	136,700
	1951/52	Wages	14,264	14,265
	1952/53	Expenditures	96,644	96,662
	1953/54	"	101,010	100,892
	"	Salaries	158,082	158,083
	1954/55	Expenditures	96,544	96,545
	"	Salaries	170,549	170,550
	"	Wages	21,322	21,332
	1955/56	Expenditures	105,028	100,317
	1956/57	Wages	26,474	26,475
	1959/60	Expenditures	143,874	143,742
<u>LS</u> gives \$121,442 for "Books and other library materials" and 22,432 for "Binding." The sum of these two numbers is \$143,874.				
RUTGERS				
	1950/51	Expenditures	109,468.00	103,200
STANFORD				
	1950/51	Expenditures	184,430.50	184,430
	"	Wages	*	0
	1951/52	Expenditures	179,625	179,626
	"	Salaries	312,842	312,843
<u>C&RL</u> records no values for Stanford before 1959/60.				
	1960/61	Volumes	1,615,740	1,691,008
	"	Volumes Added	92,945	98,721
TEMPLE				
	1950/51	Wages	16,693	16,694
TEXAS				
	1950/51	Wages	68,277	68,278
	1951/52	Expenditures	139,778	139,779
	"	Wages	67,564	67,565
	1953/54	Salaries	260,343	260,344
	"	Wages	82,154	82,155
	1956/57	Expenditures	197,625	197,626
	1958/59	"	633,749	633,748

	<u>Year</u>	<u>Variable</u>	<u>Gerould</u>	<u>Purdue</u>
VIRGINIA				
	1950/51	Salaries	201,412	201,413
	"	Wages	25,761	25,762
	1951/52	Volumes Added	40,305	40,315
	"	Expenditures	97,516	97,517
	1952/53	Salaries	227,476	227,447
	<u>C&RL</u> records 227,477 instead of 227,447.			
	1952/53	Wages	22,800	22,801
	1957/58	Volumes Added	45,748	45,745
	"	Expenditures	170,369	170,370
	1960/61	Volumes	1,104,610	1,111,642
	"	Volumes Added	58,795	60,407
	"	Salaries	340,744	347,464
	"	Wages	36,470	38,751
WASHINGTON				
	1950/51	Expenditures	181,127.00	152,770
	"	Salaries	303,742	303,505
	1951/52	Expenditures	143,615	120,479
	"	Salaries	317,046	298,596
	"	Wages	83,824	75,971
	1952/53	Volumes	802,681	795,442
	"	Volumes Added	35,463	35,488
	"	Expenditures	212,039	189,257
	"	Salaries	355,465	334,585
	"	Wages	87,584	81,584
	1953/54	Volumes Added	42,779	49,225
	"	Expenditures	188,281	165,594
	"	Salaries	415,032	368,224
	"	Wages	87,416	82,801
	1954/55	Volumes Added	23,545	23,547
	"	Salaries	471,209	417,209
	1957/58	Volumes Added	43,711	45,252
	1959/60	"	45,918	47,977
WASHINGTON STATE				
	1950/51	Volumes Added	11,299	12,148
	"	Expenditures	60,300	49,337
	"	Salaries	143,935	140,231
	"	Wages	36,000	34,573
WASHINGTON UNIVERSITY, ST. LOUIS				
	1950/51	Salaries	136,460	136,461
	1951/52	"	137,106	59,190
	For a discussion of this pair of values see page 233 in Appendix 2.			
	1951/52	Wages	10,290	17,570
	For a discussion of this pair of values see page 233 in Appendix 2.			
	1955/56	"	36,623	36,628
	<u>C&RL</u> records 36,623 instead of 36,628.			

	<u>Year</u>	<u>Variable</u>	<u>Gerould</u>	<u>Purdue</u>
WISCONSIN				
	1950/51	Expenditures	240,829.00	237,629
	1953/54	Salaries	433,414	433,410
	<u>C&RL</u> records 433,414 instead of 433,410.			
YALE				
	1950/51	Wages	*	0
	1951/52	Expenditures	303,375	303,275
	"	Wages	*	0
	1952/53	"	*	0
	1953/54	"	*	0
	1954/55	"	*	0
	1955/56	"	*	0
	1957/58	Salaries	817,331	860,784
	"	Wages	43,453	0
	1958/59	Expenditures	478,663	478,633
	<u>C&RL</u> records 478,663 instead of 478,633.			
	1958/59	Wages	*	0
	1959/60	"	*	0
	1960/61	Volumes	4,490,420	4,478,040
	"	Volumes Added	95,432	83,052
	"	Wages	*	0
	1961/62	"	*	0

APPENDIX 5

THE MACHINE READABLE VERSION OF THE GEROULD DATA

A tape of the machine readable version of the Gerould data is being made available. This appendix discusses that tape.

The default tape of the Gerould data is described here. The parameters and format can be changed or a tape could be written as a SASDataset, if desired.

Tape Description

The data are stored on a non-labelled, nine track, ASCII tape written at 1600 bpi. The logical record length is 80. The records are in fixed blocks of 100 records (or 8000 bytes).

There are two files on the tape. The first file is the edited version of the Gerould data as they appear in the main text on pages 42-102; the second file is the data from the Princeton Compilation (Princeton, 1947).

A few important details about the tape:

1. The data are arranged by institution number and then by year.
2. The data are in fixed fields with commas and decimals points omitted. The variables Materials Expenditures, Appropriations, Staff, and Salaries have had decimals stripped out. (The two other expenditure categories, wages and total expenditures never had fractional values.) The decimals can be replaced by dividing the values of these variables by 100 or by using informats. The Princeton Compilation reports fractional values for staff only.
3. Character values are left justified, numerical values right justified.
4. Numerical values are packed with leading zeroes.
5. All missing values have been converted to "0" (zero). There are no variables for any institution with a value of zero, so all zero values should be converted to missing values.
6. Blank lines have been inserted in cases where data are missing from institutions that have reported data before or after the missing year(s). (These blank lines are often helpful in time series applications.) Thus, a blank line is inserted for Northwestern in 1922/23, when data are missing for this one year but not for Pittsburgh after 1950/51 because no data are reported after that date. Note that 8 institutions (Dartmouth, McGill, Oregon, Pittsburgh, St. Louis, Temple, Toronto, and Washington State) cease reporting in the Gerould data after 1950/51 and subsequently report data to ARL. The biggest class of these inserted lines is for institutions that reported

data in 1907/08 or 1909/10. No data exist for 1908/09 or 1910/11 so a blank line is inserted for all such institutions. The blank lines are included in the tables of the Gerould data on pages 42-101. The inserted lines are, (in addition to those for 1908/09 and 1910/11):

Colorado	1922/23--1923/24, 1930/31
Dartmouth	1914/15--1919/20
Harvard	1911/12--1912/13, 1914/15, 1917/18, 1918/19
Nebraska	1943/44
Northwestern	1922/23
Rutgers	1951/52--1955/56
Texas	1922/23, 1924/25, 1929/30
Wisconsin	1928/29--1929/30

Tape Format

The two files are written in the same format. The first file consists of 2,091 records in 4,182 lines; the second 935 records in 1,870 lines. Each record consists of information on one institution for one year. For reasons of space, it was necessary to write each record on two lines.

The following format is used on the tape:

LINE 1

<u>Variable</u>	<u>Columns</u>	<u>Comments</u>
Institution Number	1-4	A list of these numbers is on pages 6 and 7. See page 8 for a discussion of the relationship between these institution numbers and those used in the ARL data.
Year	5-6	This field has years in two digits. 1907/08 = 8,...1924/25 = 25, etc.
Institution Name	7-31	Institutions names are listed on pages 6 and 7. The length of this field is 25 characters and Massachusetts Institute of Technology's name has been abbreviated to "MIT" to fit within this limit.
Volumes	32-38	
Volumes Added	39-44	
Materials Expenditures	45-53	Note: decimals should be reinserted
Appropriations	54-61	Note: decimals should be reinserted.
Total Expenditures	62-68	

<u>Variable</u>	<u>Columns</u>	<u>Comments</u>
Staff	69-73	Note: decimals should be reinserted. The original Gerould sheets frequently report the numbers of staff with fractions. These fractions have been converted to decimal values to two places.
LINE 2		
Salaries	1-9	Note: decimals should be reinserted.
Wages	10-15	
Type	16	There are three possible Types: "C" (Canadian), "P" (Private), "S" (State controlled or public). The value of this variable comes from the ARL data if the institution reports to ARL, otherwise, it comes from the <u>Education Directory</u> from the U.S. National Center for Education Statistics. In cases where an institution has changed status from private to public during the years of these data, Type will not pick up the change, because it is based on current information.
Region	17-18	Region, like Type, comes from the ARL data for members of ARL. Non-ARL institutions were assigned Regions based on the following classification from the National Science Foundation: <ul style="list-style-type: none"> 1 = New England 2 = Middle Atlantic 3 = East North Central 4 = West North Central 5 = South Atlantic 6 = East South Central 7 = West South Central 8 = Mountain 9 = Pacific 10 = Canadian
Year joined ARL	19-20	Like Year, this variable is in two digits. This variable is useful in separating the ARL libraries from the non-ARL libraries, which have no value for this variable.

The tape of the Gerould and Princeton Compilation data can be ordered from:

The Association of Research Libraries
1527 New Hampshire Avenue, N.W.
Washington, D.C. 20036

Inquiries about purchasing tapes with different parameters than those described here should be sent to the same address.

REFERENCES

- Boyd, Julian (1945). Julian Boyd, Librarian at Princeton, to Clemons, "July 23, 1945." This letter says, in part: "Due to the war and the shortage of paper, The Princeton University Library did not publish statistical totals for the year 1943-44..." Letter is signed by the "Secretary to Mr. Boyd" whose signature is not clear [Anne Goldsmith?]. Boyd's letter is probably in response to a letter from Clemons to him dated "21 July 1945" which says, in part: "Apparently we have not received a copy of the statistical totals of university libraries for the year 1943-44." Manuscripts Department, Alderman Library, University of Virginia, Charlottesville. Manuscript number 8836, Archives Records Group RG 12/1.
- Clapp, Verner (1951). A note beginning "The 'Princeton Statistics'". Library of Congress Information Bulletin 10, no. 17, pp. 15-16.
- Clemons, Harry (1946). Lawrence Heyl to Clemons, "6 February 1946." Letter begins: "In order to bring out a compilation..." Reply from Clemons to Heyl dated "9 February 1946" (begins "We have been able to locate no figures whatever for volumes added to the University of Virginia Libraries for the year 1921/22.") Manuscripts Department, Alderman Library, University of Virginia, Charlottesville. Manuscript number 8836, Archives Record Group RG 12/1.
- Downs, Robert B. (1946). Uniform Statistics for Library Holdings. Library Quarterly 16, 63-69.
- Downs, Robert B. (1985). Letter to Robert Molyneux dated October 22, 1985.
- Dunn, O. C., W. F. Seibert, and J. A. Scheuneman (1965). "The Past and Likely Future of 58 Research Libraries, 1951-1980: A Statistical Study of Growth and Change." (West Lafayette, Indiana: University Libraries and Audio Visual Center, Purdue University). This was the first of nine studies with the same title. The last was: Dunn, O. C., D. L. Tolliver, and M. A. Drake (1973). "The Past and Likely Future of 58 Research Libraries, 1971/72." Ninth Issue, (West Lafayette, Indiana: Instructional Media Research Unit, University Libraries and Audio Visual Center, Purdue University).
- Gerould, J. T. (1906). A Plan for the Compilation of Comparative University and College Library Statistics. Library Journal 31, 761-763.
- Gerould, J. T. (1913). Letter from J.T. Gerould to G.W. Harris (at Cornell), October 25, 1913. University Archives, University Library, University of Minnesota, Minneapolis. Bears the handwritten note: "Saved as a sample." This letter appears to be a form letter with the name of the person to whom the letter is being sent to be filled in. The letter was probably typed (not printed) and reproduced in some fashion. In this copy of the letter, Harris's name and address were typed in a different font from the that in the rest of the letter and without allowing enough space for Harris's name and address.

- Gerould, J. T. (1932). "The College Library Building: Its Planning and Equipment." (New York: Scribners), p. 31.
- Hayes, Robert, Ann M. Pollack, and Shirley Nordhaus (1983). An Application of the Cobb-Douglas Model to the Association of Research Libraries. Library and Information Science Research 3, 297-306.
- Kuhlman, A. F. (1960). Two ARL Approaches to Counting Holdings of Research Libraries. College and Research Libraries 21, 207-211.
- Molyneux, R. E. (1984). "An Examination of the Growth of Academic Libraries in the United States, 1972/73-1981/82." Unpublished dissertation, University of North Carolina, Chapel Hill.
- Molyneux, R. E. and Kendon Stubbs (1985). "ARL Supplementary Statistics, 1983-84," (Washington, D.C., Association of Research Libraries). Unpublished report.
- Molyneux, R. E. (1986a). Patterns, Processes of Growth, and the Projection of Library Size: A Critical Review of the Literature on Academic Library Growth. Library and Information Science Research 8, 5-28.
- Molyneux, R. E. (1986b). Growth at ARL Member Libraries, 1962/63-1983/84. Journal of Academic Librarianship (in press).
- Princeton (1947). "College and University Library Statistics, 1919/20 to 1943/44," (n.p. Princeton University Library). This title is available from University Microfilms as one of its Books on Demand: AG1-OP30634.
- Rider, Fremont (1944). "The Scholar and the Future of the Research Library," (New York: Hadham Press).
- Stubbs, Kendon and David Buxton (1981). "Cumulated ARL University Library Statistics, 1962-63 through 1978-79," (Washington, D.C., Association of Research Libraries).
- Stubbs, Kendon (1985). Introduction. ARL Statistics, 1983-84. pp. 4-7.
- U.S. Bureau of Education (1876). "Public Libraries in the United States of America," (Washington, D.C.: Government Printing Office, 1876).

Association of Research Libraries
1527 New Hampshire Avenue, N.W.
Washington, D.C. 20036
(202) 232-2466

ISBN 0-918006-11-2