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PLANNING AND COORDINATION OF PUBLIC HIGHER EDUCATION IN OHIO. THE 4TH ANNUAL REPORT OF THE OHIO BOARD OF REGENTS FOR THE YEAR ENDING JUNE 30, 1967.

Ohio Board of Regents, Columbus.

Pub Date Oct 67

Note-65p.

EDRS Price MF-\$0.50 HC-\$2.68

Descriptors-EDUCATIONAL FINANCE, ENROLLMENT PROJECTIONS, *FINANCIAL SUPPORT, *HIGHER EDUCATION, *MASTER PLANS, PRIVATE COLLEGES, *STATE FEDERAL AID, TAX ALLOCATION, *UNIVERSITIES

Identifiers - Columbus

The philosophy of public higher education underlying the planning and coordination of higher education institutions in Ohio is set forth. A master plan based on this philosophy proposes to establish technical institutes, additional community colleges and university branches, convert some municipal universities into state universities and develop new state universities. Proposed financial support to implement the master plan is listed in terms of support per student and allocation of construction funds by institution. The appendices summarize the 1966-67 data regarding student enrollment and income-expenditure for the municipal universities, community colleges and state universities (ULI) community colleges and state universities. (HH)

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The Fourth Annual Report
of the
Ohio Board of Regents

For the Year Ending
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U.S. DEPARTMENT OF HEALTH, EDUCATION & WELFARE OFFICE OF EDUCATION

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TABLE OF CONTENTS

CHAPTER		PAGE
I	A Philosophy of Public Higher Education	1
11	A Master Plan for Higher Education	11
ш	Implementation of the Master Plan	21
IV	Relations with Governor and General Assembly	37
APPENDIC	ES	39



OHIO BOARD OF REGENTS

88 East Broad Street, Room 770
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October 19, 1967

Honorable James A. Rhodes Governor, State of Ohio

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Gentlemen:

On behalf of my colleagues, I transmit herewith the Fourth Annual Report of the Ohio Board of Regents for the fiscal year ending June 30, 1967. Actually, this is more than an ordinary annual report.

Because September 20, 1967, marked the fourth anniversary of the creation of the Ohio Board of Regents and because these past four years have been crucial and productive in developing the public system of higher education in Ohio, we wish to record here the major events not of one year but of our history to date. We believe this report presents a comprehensive and clear account of the actions which have been taken to promote a new structure and quality of public higher education in this state.

Once again let me express the appreciation which the Board of Regents has for the cooperative and generous support the Board has received from you personally and from your colleagues in the executive and legislative branches of state government.

Cordially yours,

John Marshall Briley

Chairman



I. A PHILOSOPHY OF PUBLIC HIGHER EDUCATION

The Ohio Board of Regents was created by House Bill No. 214 of the 105th General Assembly, effective September 20, 1963. For the first time in the history of the State of Ohio, a statewide administrative agency was established by law charged with the duty of planning and coordinating the state interest in higher education. The Ohio Board of Regents has now completed four years of activity in carrying out its pioneer task.

It must be emphasized that the Ohio Board of Regents is not a governing board for public higher education in Ohio, but a planning and coordinating board. There is an important distinction. By uniform provision of law, state universities and community colleges are each individually bodies politic and corporate. The authority of government is vested in the board of trustees of each university and college. The duties assigned to the Ohio Board of Regents do not supersede this authority. Indeed, during its brief existence, the Board of Regents can point to notable accomplishments in legislation recommended by it and enacted by the General Assembly and Governor which have strengthened the management position of the individual state universities.

The role of the Ohio Board of Regents is to assist in formulating a state government point of view in the field of public higher education. The chief executive of Ohio in his authority to appoint members of the boards of trustees, in his authority to "see that the laws are faithfully executed," and in his authority to recommend to the General Assembly "such measures as he shall deem expedient" must determine the broad outlines of desirable public policy affecting higher education in Ohio. The General Assembly in its authority to exercise "the legislative power of the state" must determine the legal powers and the legal limitations of state universities and community colleges. In addition, the executive budget and the biennial appropriation laws determine what state support shall be available for the current operations and the capital improvements of public higher education. State government must make these decisions. The Board of Regents has sought to provide professional judgment and thoughtful consideration on a state-wide, objective basis as counsel to the officials of state government in the process of their decision-making.

In performing its role as a planning and coordinating agency for public higher education, the Ohio Board of Regents has had to develop a philosophy of public higher education, has had to make explicit a point of view about what the State of Ohio should undertake to accomplish through public higher education. Obviously, the Board of Regents did not start from scratch in this endeavor. In 1963 there were five state universities, one state college, two community colleges, and some 33 state university academic centers in existence. In addition, in 1963 the State of Ohio began to provide financial support to the three municipal universities in Ohio. There were also in existence a considerable body of laws and a long history of activity which established the framework of public higher education in Ohio.

The Board of Regents has necessarily endeavored to build its own basic philosophy upon the law and experience of the past, as well as upon a careful review of current needs and emerging problems. The Board of Regents has endeavored at all times to do this in terms of the public interest, the state-wide interest, which should be served by all public institutions of higher education in Ohio.

Development of Individual Talent

Education at all levels in our society is concerned with individual achievement. Education is a social and cultural process which seeks to assist individual persons in obtaining literacy in the use of language, in developing their capacity to learn about the world and society of which they are a part, and in perfecting their inherent ability to perform useful work in society.

Higher education is that part of this formal process of education which occurs after secondary education. Higher education provides an opportunity for the high school graduate to enhance his learning, to advance his capacity to learn, and



to prepare himself for para-professional or professional employment.

In this whole educational process, the individual student must make the effort to develop his own abilities to the fullest extent consistent with his talent and his interest. Others may encourage, guide, assist, and direct the individual in his learning activity. In the end, it is the individual who learns and who makes use of learning. There is no substitute for the effort of the individual.

State government, and the State of Ohio in particular, has a social interest in and obligation to this process of education. A democratic society is feasible only if there is a literate citizenry. A free society is possible only if individuals have opportunities to develop and to use their talents. A prosperous society is realizable only if individuals obtain the educational levels needed to contribute effectively to technological improvement and economic growth.

American society has been described in our day as consisting of a complex technology, an advancing science, and large-scale organizations. These very characteristics have discouraged or alienated some persons who doubt their capacity to function within such a social system. To certain persons, technology, science, and organization are considered hostile to individuality. Some persons apparently wish to turn their backs alike upon the benefits and the problems of present-day social, economic, and political life. To other persons, technology, science, and organization are challenges which demand renewed effort by individuals to contribute to the welfare of all and to make a place for creative talent.

Let us accept the proposition that ours is a society with complicated work processes and systems, with an expanding knowledge of the biological and physical properties of life and environment, and with large groups of people working together to provide the products and services we require and consume. In such a society, education takes on an importance for individuals and for nations such as it has never had before in man's known experience.

In our own national history, we have long recognized two basic propositions about education. One was that a common level of schooling was desirable for all individuals expected to participate

in community affairs. The nation in this century has become a major community with which we are all vitally concerned. The second proposition was that higher education was needed in order for some individuals to practice essential professions in society. During our colonial experience, some nine colleges were created to provide ministers, lawyers, and certain other learned persons who rendered professional service to others. Over the years, we have had to expand our concept of common schooling and of professional education to keep pace with changing circumstances.

For an agency concerned with higher education, it is especially important to have a clear understanding of the changing scope of this activity. The period in our history before 1860 has been called the age of the college; the period since 1860 has been called the age of the university. We need a new label for the period since 1940 or 1945: the age of research and service. These designations tell much about the activity of higher education.

Until 1860 American higher education meant primarily an undergraduate education in the arts and sciences, although the science part of this education was relatively simple. After 1860 three new directions began in higher education. For one thing, undergraduate education became increasingly practical and more specific in terms of professional preparation. For example, engineering education, agricultural education, business education, and teacher education became important new fields of undergraduate study. Secondly, graduate study began to emerge, both in academic disciplines and in professional fields such as medicine, law, and theology. In the third place, attention was given to research and to public service in promoting use of new knowledge. Initially, this effort was undertaken with federal government financial assistance in agriculture through experiment stations and extension services. Since 1940, under the impact of World War II and in consequence of a rising concern for national health, the federal government has utilized universities for research and for various services both at home and abroad. In this same period, the revolutionary expansion of knowledge has lengthened the process of higher education.

We shall say more about enrollment growth in



higher education below. We may note in passing, however, that the rapid increase in higher education since 1945 reflects not so much an increase in the college-age population in America as it does an increase in the proportion of college-age youth actually going to college and a substantial lengthening of the time spent in higher education. More youth have wanted or needed higher education, and thanks to the circumstance of growing family wealth, more youth have had the opportunity to go to college. Furthermore, an undergraduate education has not been sufficient to provide students with the educational preparation required for various professions. Increasingly, students have continued their studies beyond the baccalaureate level in graduate colleges and in graduate-professional schools.

Today there is no easy or convenient stopping point in the process of higher education between the first year after high school and the top graduate and graduate-professional degrees which require from three to four years of education beyond the baccalaureate level. To be sure, some students may not attend higher education beyond two years. Others may halt their formal education with a bachelor's degree. Nonetheless, we shall not have the doctors and dentists, the lawyers, the engineers, the college and university teachers and the scientists our society needs unless we carry the formal process of higher education through the graduate and graduate-professional years.

There is another concern which is now emerging. It may be called "mid-career" education. More and more school teachers, college teachers, engineers, doctors, scientists, and others are seeking to upgrade their knowledge and their skill after 20 years of professional practice. Some form of continuing education may be desirable in many professions, but a formal mid-career period of education may be increasingly necessary in a society where both technology and science are advancing so rapidly.

Amid all these concerns with social developments and educational requirements, we should not forget that the first objective in higher education is to enhance individual talent and individual capacity to contribute usefully to the welfare of others. A system of higher education in Ohio and elsewhere in America must always keep

its effort clearly directed toward the education of individuals. It is the individual talent which higher education seeks to cultivate and which society continues to need.

The Supply of Professional Talent

Among professional educators in higher education, there is some conflict in point of view about basic objectives. Most persons interested in higher education would agree with the statements just made above which point out the importance of individual talent and interest in the education process. We have underlined here, however, the role of the individual as a functioning, useful member of society. This emphasis does not detract from or deny the usefulness of the social critic. At the same time, society as opposed to anarchy presupposes some minimum degree of socially acceptable behavior and of consensus in individual thought.

There are educators and others who think of knowledge primarily as an individual satisfaction, as a personal commodity. These individuals prefer to lock upon higher education as a means whereby a person broadens his own intellectual outlook, pushes back his own ignorance, and acquires a new understanding of himself and the world about him. The purpose in such education is not to make the individual socially useful; it is to make the individual happier or wiser in his own personal attitudes.

This is a highly individualistic point of view about higher education. We have no desire to criticize this position in and of itself. But this sense of purpose in higher education raises some very profound issues of economics and of government which must be answered. If higher education is a personal satisfaction, then in economic terms higher education can be considered to be a consumer good to be purchased like other consumer goods and services. The implication then is that the consumer should pay for the satisfaction he receives, measuring this satisfaction against other satisfactions in the use of his personal or family resources. If higher education is considered to fall in the realm of a desirable government service, then is it a service to be rendered to everyone? If it is not a service for all, then how and why do governments discriminate among citizens in deciding who shall receive the



benefits of the service? In fact, state governments have provided higher education service only to those who presented themselves for the service, and then have justified retention on a selective basis depending upon the talent and effort of the individual student.

The point of view we would emphasize here is that higher education is more than a matter of providing satisfaction to individuals. In economic terms, higher education may be regarded as a capital investment in creating a productive labor force. In social terms, higher education may be regarded as preparation of individual talent to perform essential services to other citizens. In governmental terms, higher education may be regarded as an essential service whose importance is so great that government must underwrite its performance. It is in these terms that a substantial governmental investment in higher education must be considered not only as justifiable but as imperative. Just as common schooling is an investment in democracy, higher education is an investment in social need.

In considering the social need for higher education, the first concern is that of the supply and demand for professional talent. The Ohio Board of Regents has had this concern in the forefront when making individual decisions about new instructional programs and new educational institutions.

Manpower statistics and manpower projections in the United States have been unfolding a startling story in recent years. At the beginning of this century, only 18 percent of all jobs in this country required formal educational preparation, and only 4 per cent of these jobs were classified as professional. The remaining 82 percent of all jobs in the United States included various categories of employment where formal educational preparation had not been considered necessary. Steadily, these proportions have altered throughout this century. As of 1964 it was reported that 12 percent of all employment was in the professions, and another 31 percent of all jobs were those where some education beyond high school was considered desirable. This left only 56 percent of all jobs in the categories where a high school education or less might be the desired educational preparation. This trend is continuing. By 1975 it is estimated that 50 percent of all employment will require some education beyond the high school, and most of these will be professional. The proportion of employment which will be available to high school graduates or those with lesser educational background will have been reduced to 50 percent.

These same trends are applicable to Ohio. Indeed, as a major industrial state, these trends will be accentuated in Ohio as more industrial processes are automated and as industry becomes increasingly in need of engineering, scientific, managerial, and other professional personnel.

The planning activity of the Ohio Board of Regents continually seeks to assess the supply and demand for educated talent in various professions and in other categories of employment. There are substantial shortages in Ohio of doctors, dentists, nurses, engineers, school teachers, college and university professors, scientists, accountants, economists, managerial personnel, social workers, and librarians, among others. There is also a substantial shortage of technicians in engineering, health, and business technologies to assist professional personnel in their practice.

There are, of course, occupations which do not appear in employment statistics. The two principal categories of such occupations are those of housewife and of volunteer service to various religious, charitable, welfare, fraternal, and civic agencies. Many college graduates, and especially women students and graduates, will be found in these two occupational groupings. Thus, higher educational enrollments cannot be clearly and closely related at all times to professional employment demands.

Representations have been made to the Ohio Board of Regents on several occasions that the professional employment of women tends to lag behind the available or potential supply of women. It is very difficult to determine whether or not there is unemployment of women in various professions, since it is difficult to determine when women are available for full-time or part-time employment. It is sometimes said that more women would prepare themselves for professional employment in various professions if there were some assurance of employment after their education. From time to time we hear also that women are discriminated against in employment opportu-

nities. Where such discrimination may actually occur, we are told that it arises primarily from a doubt whether women who are employed in professional jobs will remain a sufficiently long time to justify the expense of the preliminary period of experience on the job. This kind of doubt is understandable, if perhaps not always justified.

No representations have been made to the Board of Regents at any time about a lack of professional employment opportunities for Negroes. On the contrary, we have been informed on a number of occasions that there are more professional opportunities for Negro educated talent than there are educated Negroes to fill such positions. We have reason to believe that there

is no discrimination in the admission or retention of students on the basis of race, color, religion, or national origin at any state-assisted college or university in Ohio. There may be economic barriers which affect the Negro student more severely than other students. And there may be inadequacies in the educational preparation of the Negro student to undertake college study. These inadequacies may be the result of family, economic, environmental, and school circumstances. In any event, it is to be hoped that an increasing number of Negro students will enroll in higher education and will enter various professions.

The developments over recent years in the

Table 1

Degrees Awarded

Ohio Public Colleges and Universities
Selected Years 1955-1967

Degrees	1955-56	1960-61	1966-67
Associate Degrees		******	1,611
Baccalaureate Degrees	77 FOA	10,027	16,198
Arts & Sciences	~ = 4 ~	3,801	7,186
Business Administration	4 600	1,760	2,348
Education	· = 0 0	2,400	3,897
Engineering		1,007	1,102
Other	070	1,059	1,665
Master's Degrees	4 420	2,031	4,245
Graduate-Professional Degrees	. 717	700	7 88
Dentistry	440	12 3	125
Law	408	158	261
Medicine		212	227
Optometry	~-	25	15
Pharmacy		115	95
Veterinary Medicine		67	65
Doctor's Degrees	000	309	586
Total	. 9,946	13,067	23,428

award of degrees by public institutions of higher education in Ohio are indicated in Table 1. From these data, it will be noted first of all that some 1,600 associate degrees were awarded in the academic year ending June 30, 1967, whereas no such degrees had been awarded in 1961 or in 1956. The number of baccalaureate degrees increased from 7,500 to over 16,000 in the eleven-year pe-



riod. The rise in the number of degrees in the arts and sciences is especially noteworthy. It will be observed that 44 percent of all bachelor's degrees conferred by the public universities of Ohio in 1966-67 were in the arts and sciences. This increase reflected increasing interest on the part of students in entering graduate study or a graduate-professional school in order to prepare for a professior. The number of degrees in teacher education was 24 percent of all bachelor's degrees in 1966-67. Of the remaining degrees conferred at the baccalaureate level, nearly 15 percent were conferred in business administration and nearly 7 per cent in engineering. The number of degrees in business increased only 36 percent between 1956 and 1967, while engineering degrees increased nearly 60 percent. On the other hand, the number of bachelor's degrees as a whole increased by 116 percent.

The increase in the number of master's degrees and in the number of doctor's degrees conferred by public institutions between 1956 and 1967 is especially noteworthy. The number of master's degrees increased by nearly 200 percent, and the number of doctor's degrees by 120 percent.

Contribution to Economic Growth

Perhaps no domestic problem is of greater importance to the American people than that of ensuring continued economic growth. In comparison with the accomplishments of other nations, ours is an affluent economy. In terms of unmer material needs, our economy is one in which demands still exceed our productive capacity. Only economic growth—an expansion of productive output in goods and services—can help to meet our unfulfilled needs.

One study recently reviewed the production levels required to achieve various national objectives which had been enumerated by President Eisenhower's Commission on National Goals. This study found a decided gap as of 1975 between the productive output required to meet national goals and the projected productive capacity for that year. This means that our production objectives for various goods and services, including national defense, may well exceed our input resources for many years to come.

There is considerable discussion among business leaders, government leaders, and economists about the conditions and circumstances required for sustained economic growth. Although there is a good deal of disagreement about various matters, there is a considerable agreement about certain basic propositions. It is generally agreed that economic growth means an increasing output of goods and services. It is generally agreed that an increasing output depends upon improvements in production processes, the expansion of productive plant, the development of new products, and an increased supply of professionally and para-professionally educated talent.

In the past several years a number of economists in the United States and abroad have come to look upon educational expenditures, and especially educational expenditures at the higher education level, as an investment in productive capacity. We have come to understand that there is a qualitative as well as a quantitative importance to a nation's work force. This qualitative factor has to do with the educational attainment of the people who do the productive work of a nation. It has become critical to a nation's economic growth to have a supply of educated talent, not just a supply of people.

There is still a great deal to learn about economic growth in the United States, and about economic growth in Ohio. It does seem clear, however, that economic growth in our nation and in our state is related to our educational effort and to our educational accomplishment. The exact relationship is still to be explored, and from better knowledge may come more effective action to ensure that educational activities and educational support do contribute to economic growth.

One subject of great concern to the Ohio Board of Regents during its first four years has been the research performance of Ohio's universities. Various data available to the Board's staff have clearly indicated that Ohio has not received its fair share of federal government support for university research projects. To be sure, "fair share" is not a clearly defined standard. But some comparison can be made among states on the basis of grant distribution by federal research agencies in relation to population. Such a companying table.

The data in Table 2 show that Ohio has not fared well in comparison with these other states. Inquiries or complaints about this situation have been met with the response that Ohio's universi-

ties, and especially its public universities, have not had the plant, personnel, and other resources required in order to receive major research support from the federal government.

Table 2

Comparison of Population Distribution
and Research Grants by the National Science Foundation
and the National Institutes of Health
Selected States

	% National Population	% Program Grants National Science Foundation F. Y. 1966	% Program Grants National Institutes of Health F. Y. 1966
	2.79	6.62	8.96
Massachusetts	2.15 9.36	9.38	15.77
New York	5.99	4.04	6.64
Pennsylvania	5.43	6.30	3.18
Texas California	9.45	12.22	11.48
	5.28	2,41	3.20
Ohio	4.23	3.08	3.42
Michigan	2.52	3.26	1.47
Indiana	5.48	5.07	5.51
Illinois	2.15	1.79	2.31

This situation is one which calls for definite concern. Federal research grants are essential today in order for a university to build effective programs of graduate study, especially in the physical sciences, the biological sciences, engineering, and mathematics. It is graduate study which provides the top talent important to industry in carrying out its research and development activities. It is graduate study which provides the top talent important to higher education instruction and research. It is graduate study which provides the top talent needed by government in its manifold services.

University research is a basic national and state resource. University research provides the expansion of knowledge upon which new products, new production processes, and new contributions to health and welfare depend. University research satisfies a basic drive of individuals to

learn more about themselves and their universe. University research has become a standard of academic excellence.

Several studies have been conducted with the financial support of the Board of Regents in order to determine what contributions Ohio business and industry seek primarily from Ohio's universities. These studies have all come to the same set of conclusions. It is evident that business and industry in Ohio are vitally interested in the kind of higher education which is available in the state.

These interests are as follows:

- 1 Availability of graduate education in the vicinity of major business locations, especially of development and testing laboratories.
- 2. A supply of educated talent for engineering, scientific, and managerial positions.



- 3. Basic research activity which undergirds business and industry development and decision-making.
- 4. Interchange of information about business problems and university research.
- 5. More university concern with and assistance to business problems.

Our studies have indicated that industry in Ohio does not generally expect universities to perform developmental or testing work on behalf of industry. For the most part, Ohio industries do their own developmental work and plan to continue to do so.

With the small funds which have been made available for this purpose by the federal government under the State Technical Services Act of 1965, the Board of Regents has undertaken to encourage universities in the state to provide better communication with business and industry.

Three different kinds of activity have been undertaken to assist business and industry in Ohio. The first of these is the creation and operation of a referral service network in order that any business or industry seeking current information of a scientific or technical nature can be helped to find the material or persons of interest to it. The state has been divided into eight areas in order to provide this service, and increasing reliance will be placed upon personal contact in order to make this technical service available to business. Secondly, three technical information centers have been established specifically to provide information in construction research and technology, in the glass industry through a silicate institute, and in the machine tool industry. In the third place, seminars and conferences have been organized to provide information about construction materials and building codes, about instrumentation and controls, about research project management, about laser beam technology, about offset duplication, and machine tool design. In all these ways, higher education in Ohio is seeking to help promote improvements in business and industry products and production processes.

Higher education has always been a factor in the economic growth of the United States. What is different today is that higher education has become a more important economic factor than ever before in our national history. Moreover, this importance is tending to increase. We may not know yet all the ways in which higher education can and does contribute to economic growth, but that a close relationship does exist is clearly evident.

If Ohio is concerned about its own participation in national economic growth—and the state is surely so concerned—then Ohio must demonstrate a substantial disposition to develop and improve its resources for higher education.

Contribution to Public Service

A major purpose of government in the United States has been to promote the general welfare. The ways and means of such promotion must be decided by the representatives of the people from time to time in the context of varying circumstances. In a variety of ways publicly sponsored universities have been asked to contribute to governmental action for the general welfare.

The most common undertakings of public universities in the area of public service include hospital service, agricultural extension, continuing education, public television, and international technical assistance. In addition, universities may be requested from time to time to make faculty members available to render public service in the many different programs which are operated by local, state, and federal governments.

Without endeavoring to consider these various areas of public service in any detail, we may note two major problems. The first problem is that of the intensified demand being made upon universities to extend the scope of their public service activities. The second problem is that of financing the expense of such activities. Both of these problems have occupied a good deal of time for consideration by the Ohio Board of Regents in the past four years.

For example, there is increasing evidence that the instructional objectives of a university cannot be fulfilled solely by the educational preparation of persons to enter a professional field of practice. Because knowledge has expanded so rapidly and because research results have farreaching implications for professional practice, there is a growing demand for mid-career education, for an up-dating of skill and knowledge in a professional field. When instructional resources



of a university are already burdened with the pre-professional education load of numerous students, it is not easy for a university to respond to the demands for a broadened program of midcareer education.

There is the further complication of obtaining the financial resources for such mid-career education. In recent years federal government agencies have provided funds for the expense of midcareer education of teachers in such fields as the sciences, mathematics, guidance, and modern foreign languages. The federal government has shared the expense of agricultural extensior. service. And, of course, in the field of international technical assistance, the entire expense has been provided by the federal government. Under Title I of the Higher Education Act of 1965, the federal government has provided matching funds for certain continuing education activity. But only state and local funds are available for the operation of a teaching hospital, supplemented by such patient charges as may be collected. And no direct support has been provided for public television. In many instances short courses and special seminars for various professional personnel are supported entirely by charges to the individual participant.

The Board of Regents has administered the continuing education program under the Higher Education Act of 1965. The Board has given primary emphasis to projects for the mid-career or professional updating of state and local government officials. These projects have included cabinet officers, police officers, social workers, development officers, city attorneys, water supply and pollution control officers, tax officials, and guidance counselors.

The Board of Regents would like to see more attention and support given to public service programs, and especially to mid-career education. At the same time, these activities must necessarily be subordinated to the pre-professional education which is the primary instructional objective of higher education.

Contribution to National Security

Higher education in the past 30 years has also become a major factor in the national security of the United States. This role is performed primarily through the research activities of universities which provide the basic knowledge or background technology for weapons systems and space exploration. This effort is largely supported by the federal government, and especially by the military departments. There appears to be a widespread understanding that the appropriate role for universities is to undertake general research which may have some military application. This application, however, is usually realized through developmental work performed by industry laboratories or by government laboratories. In a few instances, although there are no such examples in Ohio, a university may contract to operate a military or military-related laboratory for the armed forces or other government agencies.

It should not be overlooked that another contribution of universities to the national security is the pre-professional education of military officers for the armed forces. All but two of the public universities in Ohio offer military instruction as a part of their curriculum. The two who do not do so are new institutions where the armed forces have not seen fit to establish such instruction. This instructional contribution is an important service on behalf of national security.

Summary

In this section we have endeavored to set forth certain aspects of the higher education function which make the whole enterprise a matter of major concern for the citizens of Ohio and of the nation. Higher education serves the American people to the extent and with the effectiveness that the citizens will themselves support. The importance of higher education to the general welfare is not widely understood, and the dependence of all citizens upon professionally educated talent is not always appreciated. Much more remains to be done to demonstrate the indispensable endeavor which higher education provides.



II. A MASTER PLAN FOR HIGHER EDUCATION

The first task of the Ohio Board of Regents was to prepare a Master Plan to guide the actions of the Board in making recommendations for tegislation to the Governor and the General Assembly and in exercising such direct authority as was vested in the Board itself. Just as soon as the Board of Regents was organized in September, 1963, it began to explore means for undertaking preparation of a Master Plan. In December, arrangements were concluded whereby the Academy for Educational Development, a non-profit corporation formed by persons well known in the field of higher education, agreed to undertake a master plan survey for the Board.

The survey inquiry was performed during the first six months of 1964, and a final report with some 20 separate studies was delivered to the Board of Regents in September, 1964. The staff of the Board used the survey report and studies as the basis for preparing a master plan document which the Board itself approved and published in tentative form in April, 1965. This provisional Master Plan was given wide circulation throughout Ohio.

During September and October, 1965, the Board of Regents held hearings in Toledo, Cleveland, Cincinnati, and Columbus where representatives of public institutions and representatives of interested groups were invited to present comments and suggestions. In addition, various advisory committees set up by the Board were asked to make suggestions about revision in the preliminary plan. Altogether, comments and recommendations about the contents of the master plan were received from some 100 different organizations. The Board of Regents reviewed these various proposals with care and gave extended consideration to the preparation of a final Master Plan which was published in June, 1966.

There are two particular aspects of the Board's Master Plan which deserve emphasis. The Master Plan provides guide lines for **public** action affecting the operation of colleges and universities in Ohio. The Master Plan of the Board of Regents cannot be a complete blueprint for the operation of every individual college and university of Ohio,

whether publicly or privately sponsored. The Board of Regents has no such authority. The Board's task is to advise the Governor and General Assembly about legislation and appropriation matters affecting higher education and to make determinations about the chartering of community colleges and technical institutes, about the establishment of university branches and academic centers, and about the introduction of new degree programs. The role of a master plan, accordingly, is to guide the Board of Regents in advising about legislation and in making its decisions about matters entrusted to its determination.

The other important qualification which should be understood about the Master Plan is that it is not and cannot be an inflexible document. The Board believes that the Master Plan should be revised in its entirety every five years. It may well be that only parts of the document will need to be revised on such a periodic schedule, but certainly the Master Plan as a whole should be reviewed from time to time. In addition, as various circumstances change and as the work of the Board of Regents proceeds from year to year, modifications in the Master Plan may be necessary.

Before commenting about progress in the implementation of the Master Plan, we believe it may be useful to outline here the Plan's major provisions. We shall not endeavor to compare the provisions of the Master Plan survey of 1964, the preliminary Plan of 1965, or the Master Plan of 1966. It is sufficient to note that there was a substantial amount of continuity or agreement among all three documents. The Board of Regents has found the master plan concept vital to the performance of its duties.

Access to Higher Education

For over 50 years, there has been a provision of Ohio law which has stated that "a graduate of the twelfth grade shall be entitled to admission without examination to any college or university which is supported wholly or in part by the state. . . ." This statutory requirement has



been applicable to all kinds of institutions supported by the state, whether a community college, a technical institute, a municipal university, or a state university. This requirement has been interpreted, moreover, to commit the state to a policy of open access to public higher education so that every high school graduate who is a resident of Ohio should have the opportunity to enroll in an institution of higher education.

The first question which the Ohio Board of Regents had to confront was whether this provision of law should be continued or not, and whether the legal requirement of open access was being fulfilled in practice or not. The second part of this question was the easier to answer, because it became quickly evident that the law was not being fully observed and could not be made effective under existing circumstances. Extensive consultation about the first part of the question made it clear that there was no sizable group of persons in the state interested in obtaining repeal of the law.

In 1963 the State of Ohio was supporting five state universities and one state college. Two new community colleges had been organized under the 1961 legislation authorizing such institutions and were ready to get under way in temporary facilities. In addition, the state was preparing to provide support for full-time students at the lower division level (first two years) at the three municipal universities, Akron, Cincinnati, and Toledo. The five state universities had set up 33 academic centers in high school facilities on a late afternoon and evening basis, but only meager financial support had been provided by the state for this operation. These centers did have the advantage of being located for the most part in large or medium sized cities.

The problem of the five state universities and the one state college was that only one was situated in a major urban center. This, of course, was The Ohio State University in Columbus, and the mission of Ohio State was supposed to be to serve the state as a whole. The other institutions were located in small communities where practically their entire student body had to be housed in residence halls or in approved local dwellings. The academic centers were useful in extending the operations of the state institutions into urban areas, but their facilities were inadequate. The

three municipal universities were located in major urban areas but their financing had not kept pace with enrollment expansion and their ability to serve students from the adjacent suburban areas was restricted.

Finally, the establishment of a public community college in Cuyahoga County was not a final solution to what for ten years had been referred to as the "Cleveland problem." Cuyahoga County had 17 percent of the population of Ohio; the state universities had located four academic centers in the County. There was still a need to find a long-term response to the public higher education needs of the largest city, largest county, and largest metropolitan area in Ohio.

The Master Plan gave emphasis to the establishment of new or expanded public higher education facilities in the major urban areas of the state. In the largest centers of urban population, the Board recommended that new universities be created. In counties where there was a population of 100,000 to 300,000 persons, the Board proposed that community colleges or university branches be established. In addition, the objective was set of having at least a facility for a two-year program in higher education within 30 miles commuting distance of all the young people of Ohio.

There were several reasons for this emphasis upon an urban location for future higher education facilities in Ohio. Colleges and universities located in small towns must build extensive residential, recreational, health, and social facilities for students. The expense of this capital plant and of the operation of these facilities must be borne by the student, since it is the policy of the State of Ohio in general not to build facilities or support special services for students on residential campuses. The cost to the student and his family of residence on a public university campus had become the major expense item involved in enrollment at a state university as of 1963. But reduction in the expense of college attendance was not the only objective the Board of Regents had in mind. Many persons living in urban areas were interested in enrolling on a part-time basis while working in the community. There were very few public facilities to serve this group. Moreover, many studies had indicated that a larger proportion of young people will take advantage



of the opportunity for higher education if facilities are located near their home.

Some individuals did urge upon the Board of Regents that a system of selective admission to the state universities should be recommended to the General Assembly and that a system of community colleges throughout the state should be developed to provide open access to education beyond the high school. There were two principal reasons why this proposal could not be accepted. The Board found little prospect that any such recommendation would be favorably considered by the General Assembly. In addition, the Board found that many communities preferred and indeed expected higher education service from state universities rather than from community colleges.

Furthermore, there was general agreement among professional advisers on the subject that a selective admission system for college enrollment cannot be completely reliable. If there are limited resources for college education, a selective admission system can determine in nine out of ten cases those persons best qualified to complete a baccalaureate program. But there is no definite assurance that some of those rejected might not also have achieved a college degree. The only sure system for assessment of individual

ability and interest in obtaining a college degree is the actual opportunity given that individual to demonstrate by performance his capacity for college study.

In consequence, the Ohio Master Plan called for continuation of open access to public institutions of higher education, with recognition that enrollment in residential facilities at the lower division would have to be limited, and with expansion of two-year and university facilities in the major urban areas of the state. The Board of Regents has been trying to bring public higher education into harmony with the facts of an urbanized America and of an urbanized state.

Enrollment

Under a plan of open access and of urban expansion of facilities, the Board of Regents was next confronted with the problem of what enrollment growth to expect in Ohio's public institutions over the next 15 years, from 1965 to 1980. Ohio's public and private colleges and universities had experienced considerable enrollment growth in the 15 years from 1950 through 1965. This experience had been as follows, on a head-count, autumn enrollment basis:

	Public	Private	Total	$rac{\%}{ ext{Year}}$ of $18\text{-}21$
1950	64,91 8	59,382	124,300	31.1
1955	72,173	59,427	131,590	32.8
1960	96,105	79,034	175,139	36.8
1965	168,405	97,958	266, 3 6 3	44.3

While the private colleges and universities were increasing their enrollment by 50 percent, the public institutions had more than doubled their enrollment in this 15-year period. Moreover, the enrollment total as a proportion of the college-age group 18 through 21 years of age had expanded considerably in the 10 years between 1955 and 1965. Enrollment projections for Ohio made in 1958 and 1961 had tended to underestimate rather than to overestimate future growth.

It is not necessary here to review in detail all

the factors involved in enrollment forecasting. These factors include the size of the college-age population, the proportion of the 18 year olds who graduate from high school and go to college, the length of enrollment at both undergraduate and graduate levels of higher education, the number of part-time enrollments (especially of older or mid-career persons), and the development of programs and facilities which attract a larger number of persons into higher education.

On the basis of the survey study and staff



study, the Board of Regents made the following forecasts of total enrollment growth, on a head-count, autumn basis:

1970	410,000
1975	555,000
1980	650,000

The Board recognized that these forecasts might well be on the generous side. Moreover, some of this enrollment growth would depend upon the capacity of the privately sponsored institutions to expand. Indeed, one of the difficulties in enrollment forecasting is that of estimating the future trend in enrollments at private colleges and universities. The Board anticipated that the private institutions in Ohio might double their enrollment between 1965 and 1980, expanding from 100,000 to 200,000 students. This still would require an enrollment growth from 170,000 to 450,000 students on the part of the public institutions in this same period.

The projected enrollment totals in and of themselves do not provide a sufficient guide line for many necessary recommendations or decisions. It has been important also to anticipate how this enrollment growth might be distributed by levels of instruction (lower division, upper division, and graduate or graduate-professional), and by various campuses in various parts of the state. The Board has assumed no marked change in the distribution of enrollments by level of instruction (65 percent lower division undergraduate, 23 percent upper division undergraduate and 12 percent graduate and graduate-professional as of 1980), but the Board in its Master Plan has indicated a considerable redistribution of enrollments by campuses. In general, the big enrollment increases will have to be carried by two-year campuses and by universities in major urban areas.

Programs

The programs of higher education may be classified in various ways: by level (lower division, upper division, graduate, and graduate-professional), by type (general, arts and sciences, and professional), or by major fields of study (technical, the humanities, the social sciences, the physical sciences, the biological sciences, mathematics, teacher education, engineering, business, agriculture, art, music, architecture, medicine, law, dentistry, nursing, optometry, pharmacy,

etc.). A major concern of the Master Plan was the adequacy and quality of these various instructional programs as offered by the public institutions of higher education in Ohio.

The adequacy of instructional programs must be determined primarily in terms of the supply and demand for professionally educated personnel in the American labor market. This kind of analysis obviously has to be made for each individual field of professional education. The Master Plan of the Ohio Board of Regents undertook to review the best available data and the informed observations of consultants in order to find out what programs needed expansion at public institutions of higher education.

The Board of Regents quickly identified technical education as a program field which had been largely neglected by public higher education in Ohio. Indeed, a first step was the necessity to define technical education and to establish certain standards for its operation. Moreover, it became evident that a sharp distinction had to be made between technical education as a program and various organizational agencies which might offer a technical education program. There were some persons who seemed to think that technical education could only be provided through a technical institute. This is not so, and technical education has been introduced into the curriculum of community colleges, of community and technical colleges attached to state universities, and of university branches.

Technical education is a two-year program for the education of para-professional personnel in three different categories: engineering technologies, business technologies, and health technologies. Technical education follows after high school graduation and builds upon the high school experience. Technical education is job-oriented but at the same time it endeavors to provide the student with a back-ground for further occupational development. While one-half of the course credits in a technical education program are specifically related to a particular para-professional occupation (such as electronics manufacture or mainteance, computer programming, or nursing), onequarter of the course credits are expected to be in general education and another one-quarter are expected to be in the basic subjects (such as physics, or statistics, or biology) related to a particular technology. Technical education need not and should not be thought of as terminal; much and sometimes all of the course credits may be transferred to a four-year baccalaureate program.

Some persons have confused technical education with vocational education which may be provided at the high school, junior high school, or even elementary school level. Others have seemed to think of technical education as a kind of adult vocational education for the benefit of high school graduates who never had an opportunity to enroll in a vocational program while in high school. Still others have confused technical education with job-training for the person who did not complete high school.

Technical education is not vocational education; its emphasis is upon skill and general background at a higher level of competence than may be expected from a high school graduate. Technical education is not adult education; it is education for the high school graduate who has an interest in and a capacity for a particular technology. Technical education is not job-training for the high school dropout; it is a program of higher education requiring a high school education for admission.

At the undergraduate level, the Board's Master Plan pointed out the need for more graduates in the various disciplines of the arts and sciences, in teacher education, in engineering, in business administration (and especially accountancy), in home economics, in nursing, and in agricultural management. In some programs enrollment was below available capacity, as in engineering, business, and agriculture. There did not appear to be any need for additional programs in architecture, art, music, and journalism.

Among graduate-professional programs, the most urgent need was for an expansion of medical education. Some expansion was also needed in dentistry, veterinary medicine, and optometry. There were also needs for additional graduates in social work, library science, and public administration. There did not appear to be a need for any substantial number of additional graduates in law or pharmacy.

In developing its Master Plan, the Board of Regents found it necessary to give a good deal of attention to the problem of graduate study and research, first at the master's degree level and then at the doctor's degree level. While graduate study had once been thought of primarily as involving the educational preparation of individuals to become college and university professors, this circumstance has completely changed. More and more persons with a master's or a doctor's degree are being sought for employment in business and in government. In 1966 the National Science Foundation issued a report which indicated that 38 percent of all persons registered in the National Register of Scientific and Technical Personnel were employed by industry and business, 32 percent by educational institutions, 13 percent by government, and 4 percent by non-profit research agencies and foundations; 13 percent were employed in private practice or in other arrangements. In addition, many fields of professional education—as in teacher education, business administration, engineering, agricultural science, art, music, and architecture—have extended their programs beyond the baccalaureate level to the master's or even doctor's degree level.

The Master Plan survey revealed two facts about graduate study and research in Ohio and in the public universities. The first fact was that, in terms of enrollment in relation to population, Ohio's programs lagged behind the record of such states as New York, Massachusetts, California, Michigan, Illinois, and Wisconsin. The second fact was that in terms of quality Ohio's record was not so good as that achieved by public institutions in other states, particularly other states in the Middle West.

As a result of these findings, the Master Plan gives considerable emphasis to the need to improve both the quantity and quality of graduate programs at the public universities in Ohio. Some persons suggested that this improvement effort should concentrate upon The Ohio State University and the University of Cincinnati. Others advocated that graduate study should be expanded at additional public universities where only small beginnings in this direction had thus far occurred. The Master Plan sought to encourage further development of graduate study and research at the two "comprehensive" public universities of Ohio, but at the same time also proposed expansion of graduate study and research



on a limited basis at other public universities. The criteria for this limited expansion were to be local needs, general needs, general competence, and available resources.

It is not easy to determine the quality of any educational program. Repeatedly, the Board of Regents has been told by consultants and by others that the financial support of the public institutions of higher education in Ohio had prevented the qualitative achievements which were desirable in this state. To some extent, this observation appeared to be justified. The record seemed to indicate that undergraduate education in Ohio's public institutions had been generally of good quality, thanks in large part to many able and dedicated faculty members who had served the public universities. There seemed to have been less interest in building quality achievement at the graduate level, and the financial support for graduate study and research and for graduate-professional education left something to be desired.

The Board of Regents has given a good deal of thought to the problem of how to stress the need for quality graduate study and quality graduateprofessional education. The question has been asked why Ohio should not send its best students receiving the bachelor's degree to established and well-known centers of graduate study in Massachusetts, New York, Michigan, California, and elsewhere. Without doubt, some of these best students will continue to seek and obtain admission to these outstanding graduate schools in the future as they have in the past. At the same time, there are compelling reasons why the public institutions of higher education in Ohio should give much greater attention than in the past to the quality of their graduate and graduateprofessional programs, and why the State of Ohio should undertake to provide the financial resources for this endeavor.

For one thing, in the increase of population and of college graduates occurring at the present time, there are many good students who cannot be accommodated at some of the best known centers of graduate study. Unless new and better graduate and graduate-professional schools are provided elsewhere, many of these students will not be able to continue their education to the level where they can make their most useful con-

tribution to society. Secondly, if Ohio depends upon other states for quality graduate study and graduate-professional education, many of these students will not return to Ohio. In the third place, unless the supply of well-educated talent is expanded, the number of such persons will be inadequate to the needs of this and of other states. The competition for top talent is already extensive and expensive. In the fourth place, much of the able talent seeking advanced education is located in Ohio in connection with present professional employment. There is a tendency for many industries to locate new and expanded activities only in communities where there is an opportunity for advanced education. In the fifth place, higher education is today a seamless fabric in which undergraduate education and graduate study are closely interwoven. Elementary and secondary education depend increasingly upon both undergraduate and graduate teacher education and university research. Two-year and fouryear undergraduate programs depend upon graduate education for their staff. There is a continuing interaction of all educational levels today, and this interaction will increase in the years ahead. For Ohio to ignore the importance of graduate study and research and of graduate-professional education would be to condemn the economic, cultural, social, and intellectual future of this prosperous state to continuing decline.

Finally, the Master Plan of 1966 prepared by the Board of Regents called attention to several other problem areas. Library facilities and services were inadequate at most of the public institutions. Very little was being done to provide public support for continuing education, and especially mil-career education. The only state effort in student assistance was a loan guarantee program. The state had provided no specific support for educational television as such, and there was a good deal of confusion between instructional television on the one hand and public television on the other. There was also some question whether the state teachers retirement system established for the benefit of the public school teachers of Ohio was adequate to the needs of the public institutions of higher education. On each of these matters the Master Plan set forth certain recommendations.



Organizations and Missions

The programs of public higher education must be carried out through organizational arrangements. The Master Plan of the Board of Regents sought to provide some general standards to be observed in the expansion of the organizational arrangements for public higher education. To some extent these organizational problems have been mentioned earlier, but it may be appropriate to review the subject as a whole.

The Board of Regents did not begin its work in 1963 with a clean organizational slate. On the contrary, the Board was given the task of planning and coordinating higher education activities which already involved a large number of diverse institutions. As we have pointed out already, there were in 1963 five state universities, only one of which included a comprehensive program of graduate study, three municipal universities, only one of which had an extensive program of graduate study, one state college, two community colleges, and 33 university academic centers. There was a program of technical education operated by some 10 technical schools sponsored by local school districts and approved by the State Board of Education. The challenge to the Board of Regents in preparing a master plan was to find some organizational coherence in this array of diverse organizational entities.

The Master Plan of the Board of Regents proposed the following actions:

- 1. Establishment of technical institutes to operate technical education programs instead of technical schools in appropriate circumstances.
- 2. Establishment of additional community colleges where the population base was sufficient and where there was a local willingness to meet a part of the costs of these colleges through local taxation. These community colleges should offer technical education as well as a college transfer curriculum.
- 3. Establishment of university branches in communities where the population base was sufficient and where there was a local willingness to meet part of the cost of these branches through voluntary gifts or through local taxation. These university branches would offer a

two-year college program and in some instances a technical education program as well.

- 4. Conversion of the three municipal universities into state universities or state-affiliated universities in order to expand their opportunity for educational service.
- 5. Development of existing and new state universities to meet additional educational needs.
- 6. Continuation of academic centers on a limited scale where there were urgent local need for educational service but neither the population nor the local support base for a community college or university branch.

In devising a comprehensive organizational structure for public higher education in Ohio, the Board of Regents was confronted by several questions. One was the need for and desirability of separate technical institutes. A statute making possible the creation of technical institutes had been enacted in 1961 and extensively revised in 1963. Even so, no such organization was in existence when the Board of Regents was created. The Board took the position that in communities where other institutions of higher education, public or private, were adequate to meet the need for a college-transfer curriculum, there was a place for the technical institute.

Another organizational problem was the question whether university branches should be established or not. It was proposed that a state-wide network of community colleges should be created to provide two-year programs in technical education and in college-transfer education. It was argued that community colleges were more responsive to local needs and interests than university branches. It was implied that university branches were less interested in student counseling and guidance and in helping students to develop their capacity for college study.

There were two principal reasons why the Board of Regents was unable to take a position in favor of a comprehensive scheme of statewide community colleges as of 1965. For one thing, the state universities through their academic centers had developed close working relationships with community leaders in various cities, and these persons tended to look to the universities for the fulfillment of local educational needs. In

the second place, the Board of Regents had grave doubts about the wisdom of insisting that local communities should levy taxes on their general property for the support of a community college. The Board felt that such local support should be voluntary, not compulsory, and should not be mandated by a state agency in Columbus.

Another organizational question, whether existing state universities should be expanded on a residential basis or not, has been discussed above. The Board favored the creation of new state universities in major urban areas of the state which could be attended on a commuting basis.

Still another troublesome organizational question was the matter of the number of new public institutions of higher education which should be created in Ohio. While the Board of Regents was concerned to expand educational opporunity in Ohio, it was equally concerned to do so on a careful and economical basis. There were some small communities which wanted to establish community colleges or university branches. There were other communities which wanted to expand a university branch into a full-fledged state university with an extensive program of graduate studies. The Board decided that it was essential to have an appropriate set of standards to guide decision-making on this subject.

For one thing, the Board decided that new public institutions ought not to be set up in communities where they would compete directly with private colleges and universities serving the same community or the same section of the state. Insofar as the creation of community colleges and university branches was concerned, the Board fixed a standard of 1,000 full-time equivalent students as the enrollment needed to justify a separate plant financed by the State of Ohio. Insofar as the development of new state universities was concerned, the Board fixed a standard of 5,000 full-time equivalent students as the enrollment needed to justify a new state university. These standards in turn were related to a general population base for an area, as well as to the population of high school graduates and the experience of college enrollment among such graduates.

The Board of Regents has sought to confine its own role to that of a planning and coordinating agency of state government in the field of higher education. The authority of government for each separate public institution of higher education has remained in the hands of the board of trustees of the institution.

The Private Colleges and Universities

Another important part of the Master Plan was concerned with the role of the state in relation to the privately sponsored colleges and universities of Ohio. As of 1965 there were 41 four-year accredited general colleges and universities located in Ohio and functioning under private sponsorship. Some of these colleges and universities had a regional or even national reputation and drew their students on a broad basis from various parts of the country. Others of these colleges and universities were primarily concerned to provide educational service to their own community or area.

Of these 41 accredited colleges and universities, 33 were related to religious denominations. Although some degree of sponsorship by a religious denomination was involved in these instances, often the amount of financial support thus provided was quite nominal.

The Board of Regents gave careful consideration to the question of the desirable relationship between the state and these privately sponsored colleges and universities. There were some persons who argued in favor of direct subsidy by the state government to the non-sectarian colleges and universities for each student enrolled from Ohio. There were some persons who argued in favor of a scholarship program which would benefit primarily Ohio residents enrolled in any private college or university. There were some persons who argued that privately sponsored colleges and universities should not receive any public support, that private colleges faced with insurmountable financial difficulties should turn their property over to the state for operation as a public institution.

In its Master Plan, the Board of Regents recommended a Tuition Equalization Grant to be given on a sliding scale based upon family income to every full-time Ohio resident enrolled in any privately sponsored, accredited college or university located in Ohio. The Board also indicated its interest in exploring the possibility of some capital improvement program which would bene-

fit the privately sponsored colleges and universities in Ohio.

Conclusion

The foregoing account should convey some sense of the scope of the Board's Master Plan for State Policy in Higher Education as completed in 1966. The Board has found in practice

that this Master Plan has been a most useful guide line in the preparation of recommendations to be given to the Governor and General Assembly of Ohio and in the determination of decisions entrusted to the Board by statutory authority. The Master Plan is by no means perfect. Experience has demonstrated its utility and its essential soundness.



III. IMPLEMENTATION OF THE MASTER PLAN

A master plan is only a piece of paper until some action is taken by the appropriate agencies of government to carry out its recommendations. The reception of the Master Plan for State Policy in Higher Education as prepared by the Ohio Board of Regents has been quite favorable. Substantial progress has been made in the actual acomplishment of most of the objectives of the Master Plan.

Expansion of Educational Opportunity

Apart from capital improvement appropriations—to be discussed below — several notable actions have been taken to expand the opportunity for higher education in Ohio. Three new state universities have been established by law, two municipal universities have been converted into state universities by law, the University of Cincinnati has been made a state-affiliated university by law, a new Medical College of Ohio at Toledo has been created by law, two new community colleges have been chartered by the Board of Regents, five technical institutes have been chartered by the Board of Regents, and the construction of 18 university branches has been authorized by the Board of Regents.

In December, 1964, a special session of the 105th General Assembly enacted legislation creating the Cleveland State University and making possible the acquisition of the property of a privately sponsored institution, Fenn College. This action brought public higher education in addition to the community college into Cleveland. The "Cleveland problem" in Ohio public higher education was finally on the road to solution. Cleveland State University opened its doors for instruction in September, 1965, and has been growing in enrollment since that date.

Also in December, 1964, the special session of the General Assembly enacted a law creating the Toledo College of Medicine. In 1967 the General Assembly amended this statute to change the name to the Medical College of Ohio at Toledo. The Ohio General Assembly in 1959 had authorized a survey study to determine the need for an additional college of medicine in Ohio beyond

the three then in existence (one in a private university, one in a state university, and one in a municipal university). The report of this survey study in December, 1962, recommended the creation of a new medical college at Toledo in conjunction with the University of Toledo, the expansion of the Ohio State University College of Medicine, and negotiations for enlargement of the College of Medicine at the University of Cincinnati. It should be noted here that all three of these 1962 recommendations have been implemented by the Ohio Board of Regents in the period from 1963 to 1967. The Board of Regents made its own further study of the need for an additional college of medicine, transmitted a special report recommending a new medical college to the Governor and the General Assembly in December, 1964, and the law setting up the Medical College of Ohio at Toledo was then enacted.

The decision was made in favor of a separate medical college because the future status of the University of Toledo was still uncertain at this time and because it seemed desirable to encourage close cooperation between the new medical college and both the University of Toledo and Bowling Green State University.

In December, 1964, a third action was taken by the General Assembly which authorized the Board of Regents to begin construction of an engineering building at Youngstown University, a privately sponsored institution not related to any particular religious denomination. The educational situation in Youngstown will be mentioned again later.

During the regular session of the 106th General Assembly in 1965 a law was enacted enabling the University of Akron and the University of Toledo to become state universities. The conversion of these two universities to state status was approved by the voters of both municipalities in May, 1966, and arrangements for the transfer of property were completed so that the two new state universities could begin operation as of July 1, 1967. This conversion was advantageous to the local communities and to the State of Ohio. The burden of local tax support was relinquished



and the institutions were enabled to serve a wider area of the state with an expanded operating income.

In 1965 the General Assembly also passed legislation which was approved by the Governor creating Wright State University. The effective date of this action was to be July 1, 1967, or the earliest date thereafter when the Board of Regents should determine that there was an enrollment of not less than 5,000 full-time equivalent students. This provision was amended by legislation enacted in 1967 which permitted the Board of Regents to make its determination one year in advance of the required enrollment and for the University to come into existence as of that time. The Board of Regents subsequently made it possible for Wright State University to be established as a separate institution as of October 1, 1967.

In 1967 the 107th General Assembly passed two further pieces of legislation of major importance. The first of these, which became effective August 15, 1967, created Youngstown State University and enabled the new state university to take over the property of the existing privately sponsored university in that city. Mahoning County is estimated as of 1967 to have a population of 320,000 people, with the seventh largest city in Ohio. The county had no provision for public higher education. The private university, which had served the community well, needed additional facilities and additional operating income in order to handle expanded enrollment and in order to provide additional instructional programs in the area. The second important piece of legislation concerned the University of Cincinnati. The University had indicated its need for additional state financial assistance but at the same time sought to continue the community support which had done so much to build up the University. After extensive discussion, the Board of Directors and the Board of Regents agreed that a new arrangement whereby the University of Cincinnati would become a state-affiliated university was desirable. The General Assembly enacted such legislation which became effective on October 13, 1967.

The new law provided that an agreement might be entered into between the Ohio Board of Regents and the Board of Directors of the Uni-

versity of Cincinnati whereby financial support by the state would be provided certain instructional units of the University. It was intended originally that such support would be extended to the graduate program, the law program, and the health professions programs of the University (nursing, pharmacy, and medicine). In turn, the University of Cincinnati would be designated a "state-affiliated" university and four of the nine members on its Board of Directors would be appointed by the Governor of Ohio. The advantage to this arrangement was that the University would receive financial support from the state for programs which were expensive and which were important to the state as a whole, while remaining a municipally sponsored institution with municipal support. Such an arrangement was much less expensive to the State of Ohio than an actual transfer to state sponsorship would have been. At the same time, the charges to students at the University of Cincinnati would be brought into line with those charged at state universities generally.

By 1967 there were four community colleges in existence. Two of these were chartered by the State Community College Board before the Board of Regents was established. The Board of Regents granted a charter on February 18, 1966, to Sinclair Community College in Dayton, and on November 18, 1966, to Lakeland Community College in Lake County. Both were operating in temporary quarters until their permanent plants could be built. Lorain County Community College, chartered in 1962, opened its permanent campus as of September, 1967. Cuyahoga Community College, chartered in 1961, was building its permanent campus in 1967 and hoped to occupy it in 1969. The Board of Regents also chartered the Mahoning Community College on May 20, 1966, but the college tax levy was not adopted by the voters of the County and so the college never came into actual existence.

As of 1967 the Board of Regents had chartered five technical institutes: the Clark County Technical Institute on February 18, 1966; the Jefferson County Technical Institute on September 16, 1966; the Stark County Technical Institute on April 15, 1966; the Columbus Technical Institute on January 20, 1967, and the Penta-County Technical Institute on February 17, 1967. Three of

these were in operation in temporary quarters in 1967-68, and the fourth was scheduled to begin operation in 1968-69. The Stark County Technical Institute had not succeeded in obtaining local tax levy support and was not in operation.

The Board of Regents by 1967-68 had approved the establishment of 18 university branches. These branches provided two-year college transfer courses in permanent facilities on both a day-time and late afternoon-evening basis. In addition, both the University of Akron and the University of Toledo had set up a Community and Technical College as part of their operation, and The Ohio State University had established a University College which would expand educational opportunity in the Franklin County area.

In all of these ways the Ohio Board of Regents had moved since its creation in 1963 to enlarge the opportunity for students at the undergraduate and graduate level to obtain the higher education they wished to receive.

Expansion of Programs

As explained earlier, the Board of Regents has been especially concerned about two broad areas of higher education activity: technical education and graduate education. Other instructional programs have not demanded the same amount of attention.

There is no intention here to suggest that the Board has ignored other fields. At various times there have been discussions of needs in nursing education, in teacher education, in legal education, in engineering education, in public administration, in social work, in library science, and in agriculture. One new baccalaureate program in nursing education was approved at Kent State University, and some planning for other undergraduate or graduate-professional programs went forward between 1963 and 1967. It is fair to say, however, that little of a specific nature had been acomplished in these various areas of instructional concern by 1967.

By 1967 considerable progress had been made in organizing and beginning technical courses of study. The four community colleges and the four technical institutes were offering curricula in the engineering technologies, business technologies, and health technologies. In addition, two university branches had begun such instruction, and plans had been made to expand such branch activity elsewhere. Altogether, as of September, 1967, the Ohio Board of Regents had approved some 112 different curricula in technical education to be offered by community colleges, technical institutes, and university branches.

The second major preoccupation of the Board of Regents has been with graduate study and research. This concern was emphasized in the Master Plan, and the Board has moved to translate this concern into action as soon as possible. As of September, 1967, the Board had approved 31 new master's degree programs at eight different universities. In addition, it had authorized the preparation of eight new master's degree programs at Cleveland State University and had encouraged the development of master's degree programs at Youngstown State University and at Wright State University.

These master's degree programs serve several different purposes. In some fields, such as business administration and teacher education, master's degree programs are a method of midcareer education, helping to update the knowledge of the professional practitioner and assisting him to meet new professional assignments. In some instances these programs provide the additional educational experience desirable for entry into a profession. In still other instances these programs are a kind of preparation for admission to graduate study at the doctoral level. In these various ways expanded master's degree programs have been important in order to provide an additional supply of educated talent needed by business and industry, school districts, government, and higher education itself.

At the doctoral level the Board of Regents had approved 37 new degree programs at Akron, Bowling Green, Kent, Miami, Toledo, and Ohio University, as well as three new programs at The Ohio State University. These programs were intended to enlarge the opportunity for graduate study at the doctoral level and to expand the resources for such study at Ohio's public universities. Doctoral study and research are essential to business and industry, to government, and to education. In the past, doctoral study has been confined largely to The Ohio State University and the University of Cincinnati. These two universities are still expected to carry the largest



part of the instructional effort for the Doctor of Philosophy degree. At the same time, six other public universities had been emerging with facilities and staff appropriate for graduate study at the doctoral level, and they have now been given an opportunity to demonstrate their competence in this field.

At the same time, when instructional programs have been expanding, it has been necessary to give some thought also to the question of quality in instructional programs. The difficulty is that quality is an elusive characteristic or attribute which defies careful, objective measurement. We are often told that quality is a function of the amount of money devoted to the higher educational enterprise. The more funds available to support higher education, the greater the improvement in the quality of instruction. As the next section will make clear, by this standard it can be said that Ohio has advanced the quality of its instructional activity since 1963. In addition, it is widely recognized that quality depends also upon adequate and appropriate physical facilities. Here again Ohio has made substantial progress since 1963, as will be pointed out below.

But quality in higher education is more than simply a matter of capital plant and current operating support. It requires an input of able, conscientious, and dedicated faculty members who work effectively with students to transmit, evaluate, and advance knowledge in various disciplines and professional fields of study. Quality of instruction depends also upon alert, intelligent, and motivated students who are eager to master their subject matter interest and to undertake skillful practice of their profession. There are no very satisfactory methods for evaluating instructional effectiveness of facultiles. Faculty members themselves are generally satisfied with the subjective evaluation of their colleagues and have contributed little in the way of procedures for determining instructional competence. There are standardized tests at both the admission level and the graduating level of undergraduate instruction which can be employed to measure student achievement. But these tests are not too satisfactory, for a variety of reasons. These tests tend to emphasize verbal skill, to assess knowledge acquired, and to indicate general learning aptitude. They do not distinguish

between learning acquired in a cultural context and learning acquired specifically in an educational context, and they do not differentiate clearly between memory capacity and reasoning capacity.

It seems that much more attention needs to be given to the whole subject of determining quality and achievement in higher education. Much of what the Board of Regents can do in this field will depend upon what is done to advance the science and art of educational measurement generally in the United States.

Operating Support

As the Board of Regents set out to encourage the establishment of new state universities and of new two-year commuter campuses, to urge specialized roles for various types of educational organizations and campuses, and to promote increased attention to undergraduate technical education and to graduate education, it was readily apparent that earlier procedures for determining state operating support levels would require revision. In the relatively less complex circumstances existing prior to 1963, the state's six institutions of higher education were supported each biennium by appropriations roughly reflective of enrollment levels and of the general character of each institution's instructional program. The four universities considered to be similar in programs offered—Bowling Green State, Kent State, Miami, and Ohio Universities—were given state operating support in a common amount per student enrolled. While such budgets generally were determined on the basis of anticipated enrollments, no adjustment of appropriations was provided in the event actual enrollments differed from those anticipated at budget-making time. In recognition of the fact that The Ohio State University was the only institution with complex graduate and graduate-professional programs, a higher per student support allowance was given to that institution. No distinction was made, however, as to just how much of the total support given to Ohio State was actually required by instructional programs of various levels. Finally, Central State College, because of its small enrollment size, was considered separately and a special support rate was established for that institution.

With the number of institutions looking to the

state for support on the increase and with the roles of various institutions becoming more diverse, the Board of Regents set out to devise operating budget formulas which would be consistent with the principles both of equity and of program differentiation. Equity required that institions in like circumstances be treated in a like manner. Hence, institutions offering freshman and sophomore instructional programs should be supported in a like amount, regardless of whether the institution was a state university, a community college, or a university branch. Program differentiation required that state support be varied according to the several levels and various programs of instruction, in order to recognize essential differences in expenditure requirements for different levels and fields of study.

In the operating budget recommendations developed during the summer of 1964 for the biennium 1965 through 1967, only a partial application of these principles could be achieved. Insufficient time was available to the Board for carrying out necessary research into the expenditure requirements of various levels of instruction, and insufficient basic and comparable information from the various institutions was available upon which to base such research. It was possible in the 1965-1967 budget, however, to establish for the first time a common undergraduate support amount for all institutions except Central State, and to establish a common graduate level support factor for all institutions other than Ohio State. It was still necessary to make special provisions for Ohio State's graduate and graduate-professional programs, and for all of Central State's enrollments. Support factors for 1965-1967 were related directly to anticipated enrollments and subject to adjustment if enrollment expectations were not realized.

In the interim between the 1965-1967 budget-making period and that for the 1967-1969 biennium, a great deal of attention was given to improving basic data on which budget decisions could be based, upon improving formulas for expressing the principles of equity and of program differentiation, and upon determining the real needs for operating support at various instructional levels and in various fields of study.

A great deal of progress was made in understanding expenditure needs of various levels of instruction, and it was possible in the budget for

the biennium 1967-1969 to express all basic support needs which were related to student enrollments in terms of standard budget models. For each of seven basic levels and fields of instruction, standard expenditure needs of various kinds were calculated, and the proportion of total income which would need to come from state appropriations was determined. Appropriation recommendations proposed by the Board of Regents for the 1967-1969 biennium were determined by applying these standard state support factors to each institution's enrollment expectations within each of the seven basic enrollment categories.

The seven standard categories of instruction within which standard expenditure needs and standard state support factors were developed were:

- 1. Lower Division: Technical Education, General Education, Arts and Sciences, Teacher Education, Business Administration
- 2. Upper Division: Arts and Sciences, Teacher Education, Business Administration
- 3. Professional-Baccalaureate Fields: Agriculture, Architecture, Art, Engineering, Home Economics, Journalism, Library Science, Music, Nursing, Social Work, Dental Hygiene, and Allied Medical Services
- 4. Master's Degree Level
- 5. Graduate-Professional Fields: Law, Dentistry, and Pharmacy
- 6. Doctor of Philosophy Level
- 7. Medical Programs: Medicine, Veterinary Medicine, and Optometry

In addition to improving the methodology of determining various support factors, and as a further result of the careful study of expenditure needs of various levels of instruction, the Board of Regents also was convinced that the overall levels at which the State of Ohio had supported its universities needed to be substantially raised. As shown in Table 3, Ohio's expenditures, both in total dollar amount and in relationship to the number of students served by its state universities, have been modest by comparison with those of other states of similar size and economic structure.

Substantial gains in state support per student enrolled were clearly necessary if Ohio's state-



Table 3

Appropriations from Tax Funds

For Current Operating Expenditures of

State Universities and Colleges

Total Amount	Actual 1966-67 FTE Enrollment	Amount Per FTE
Big Ten States		
Michigan\$193,856,000	137,681	\$1,408
Indiana 104,152,000	83,559	1,246
Illinois 186,941,000	102,153	1,830
Wisconsin 95,160,000	86,722	1,097
Minnesota 68,061,527	75,283	904
Iowa 59,178,000	39,848	1,485
Ohio 88,154,000	106,681	826
Other		
New York\$214,729,000	143,809	1,49 3
California 416,647,000	237,915	1,751

NOTE: Data include appropriations for teaching hospitals, agricultural research, and cooperative extension. Data do not include any appropriations for a state scholarship program for higher education students. Michigan, Indiana, Illinois, Wisconsin, New York, and California have such scholarship or tuition grant programs. Nor do data include appropriations to junior colleges or other public institutions receiving partial support from the state. Enrollment data are from School and Society, Vol. 95, No. 2285, January 7, 1967. Appropriation data are from Grapevine, various issues, by M. M. Chambers.

assisted universities were to be competitive in building strong faculties and in carrying forward the expanded and improved services called for in the Master Plan for State Policy in Higher Education. In order both to carry out this real increase in "per student" state support and to express the revised methodology for relating support needs to enrollment expectations at various levels and in various fields of study, support rates as follows were developed for the biennium 1967-1969:



Proposed Support Per Student

Academic Centers\$	25 0
Community Colleges, Technical Institutes, University Branches, Lower Division of State Universities and the University of Cincinnati	350
Upper Division of State Universities	1,000
Professional Programs, Baccalaureate Level, State Universities and Nursing at the University of Cincinnati (agriculture, architecture, art, engineering, home economics, journalism, library science, music, nursing, social work, allied medical services)	1,000
Master's Degree Programs, State Universities and the University of Cincinnati	1,5 00
Graduate-Professional Programs, State Universities and the University of Cincinnati	1,500
Doctoral Degree Programs, State Universities and the University of Cincinnati	4,800
Medical Programs, State Universities and the University of Cincinnati	4,800

The proposed biennial budget recommended by the Board of Regents for the period 1967-1969 incorporated the proposed new support rates and also made provision for the greatly expanded system of institutions described earlier. Whereas during the last year of the 1965-1967 biennium Ohio's state-assisted institutions had enrolled a

total of 150,000 full-time equivalent students, the expanded system to be supported during the two-year period 1967-1969 would enroll 191,000 and 217,000 students. Necessarily, the total support proposed for the 1967-1969 biennium for all of the programs of higher education was dramatically higher than in earlier periods.

	Annual Appropriation	Biennial Total	Proposed Increase
Previous Bienniu	m		
1965-66 1966-67	\$ 84,864,100 93,100,330	\$177,964,430	
Proposed for Ne Biennium			
1967-68	\$160,457,000		
1968-69	177,534,500	337,991,500	\$160,027,070

Following extended consideration during the 107th General Assembly, and the fashioning of a landmark supplementary appropriation measure for an advance in support for all levels of educa-

tion in Ohio, the budget as proposed by the Board of Regents was substantially underwritten. Some adjustment in support rates was required in the first year of the biennium because of the timing



of revenue collections inherent in supporting tax legislation, the schedule for establishing the University of Cincinnati as a state-affiliated university was altered somewhat, and a proposal for initiating a tuition equalization program for students enrolled in private colleges was removed from the budget. In all other respects, however, the proposed budget was approved and constituted a dramatic breakthrough in operating support for

Ohio's state-assisted colleges and universities. A total of \$325 million was appropriated for support of higher education, constituting an increase of nearly \$147 million over the previous biennium.

The extent of new support for state-assisted higher education approved for the 1967-1969 biennium is striking when compared with earlier budget periods.

State Appropriations State-Assisted Higher Education 1951-1969

Biennium	State Appropriations	Increase from Previous Biennium
1951-1953	\$ 49,600,000	\$ 10,200,000 26%
1953-1955	55,500,000	5,900,000 12%
1955-1957	56,000,000	500,000 1%
1957-1959	74,400,000	18,400,000 33%
1959-1961	90,800,000	16,400,000 22%
1961-1963	105,700,000	14,900,000 16%
1963-1965	126,700,000	21,000,000 20%
1965-1967		51,300,000 40%
1967-1969	324,800,000	146,800,000 82%

While much of the increased support funds was required by institutions newly brought into the state system of higher education and by enrollment growth at all institutions, real gains in "per student" support were also made. Chart 1 plots the support rates per student received by the six long-established state-assisted universities over several biennial periods, and clearly illustrates the gains made for 1967-1969. This chart records a composite of support received by Bowling Green State University, Central State University, Kent State University, Miami University, The Ohio State University, and Ohio University.

Capital Improvements

One of the first tasks of the Board of Regents upon its formation in 1963, and one of its very important continuing assignments in the four years since that time, has been the planning and the general supervision of massive new state investments in higher education physical facilities. Immediately after the Board's establishment, a major capital improvements bond issue was placed on the state-wide ballot in November of 1963. This bond proposal, among other provisions, made \$175 million available for capital improvements at state-assisted institutions of higher education.

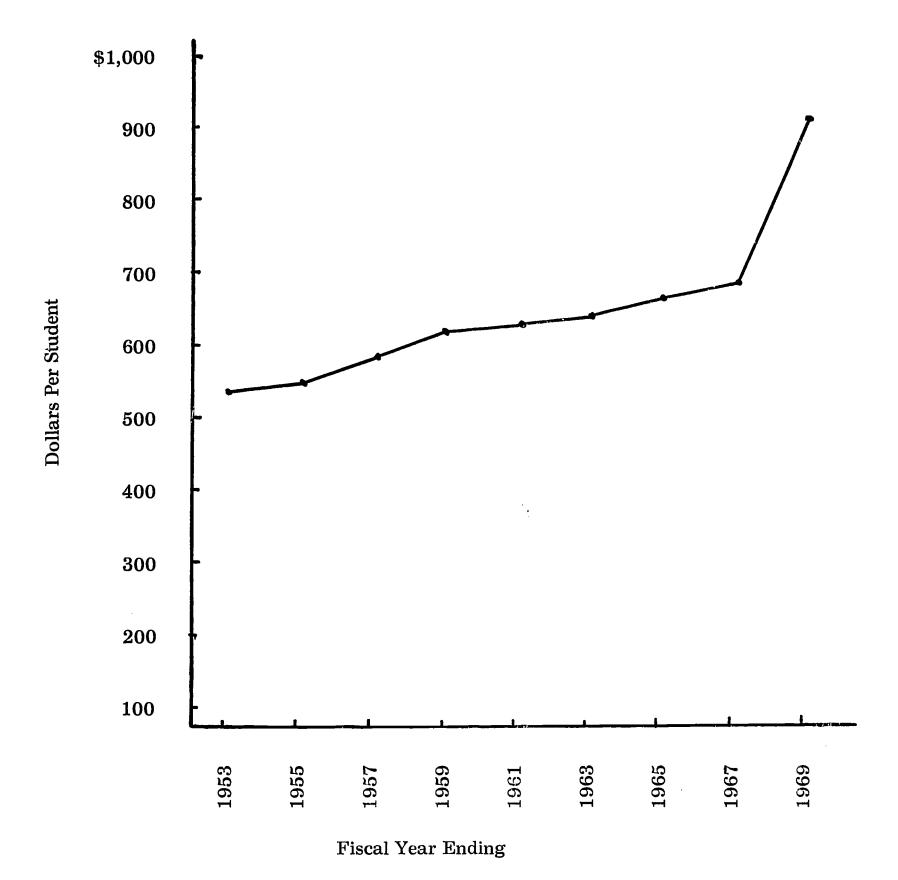
Voter approval of this capital development proposal permitted the beginning of the greatest period of physical expansion ever to take place in the field of higher education in the State of Ohio. Subsequently, in 1965 a continuation of this physical plant expansion was made possible by a second state-wide bond issue which earmarked an additional \$145 million for higher education construction programs. Together, these two bond issues made possible a capital improvements program for 1963-1967 unequalled elsewhere in the United States.

These funds, totaling \$320 million, have been



Chart 1

State Support Per Full-Time
Equivalent Student
Six-Institution Composite
1953-1969





used to expand the capacities of long-existing state colleges and universities, to undertake expansion of new state universities now coming into being or entering the state-assisted system for the first time, to finance the first stage of a new medical college at Toledo, to enlarge facilities of the Ohio State University Medical Center and of the Agricultural Research and Development Center, and to

establish some 30 two-year campuses throughout Ohio of community colleges, technical institutes, university branches, and community and technical colleges of urban-based senior universities.

As is shown in detail in Table 4, bond issue funds have been allocated in such a way to emphasize various expansion goals established in the Master Plan:

Percent of Total Funds

Expanding Central Campuses of Long-Established State-Assisted Universities	35
Expanding or Constructing Main Campuses of New State-Assisted Universities	27
Constructing Two-Year Campuses	
Expanding Medical Facilities	
Other Programs	2
_	
	100

This expansion program, in addition to making possible substantial expansion of graduate level programs on the central campuses of the senior universities, has increased overall student enrollment capacities sufficiently to serve enrollment growth through the year 1970. In addition, the goal of the Master Plan to place two-year centers of higher education within commuting distance of the homes of all Ohio young people has been substantially achieved. Further expansion of facilities to accommodate enrollment growth during the 1970-1975 period will need to be undertaken in the very near future, and a proposal to that effect has been prepared by the Board of Regents and presented to the Governor and to the General Assembly.

Coordination

Coordination is an administrative process which seeks to avoid conflict among agencies with common interests or concerns and to promote harmonious action in the realization of common purposes. In the field of public higher education in Ohio, there are many different colleges and universities with a potentiality of conflict and with

a common concern to realize their appropriate educational objectives.

The coordinating authority of the Ohio Board of Regents is limited, since coordination usually must be accomplished by participation in the management of an enterprise. The Board of Regents has no general authority to issue orders or instructions to the boards of trustees of community colleges, technical institutes, or state universities. The Board of Regents must attempt to obtain harmonious action primarily through its planning activities and through advice on desirable legislation affecting public higher education. The Board's direct coordinating authority is restricted to approval of new degree programs and to approval of new two-year institutions. Efforts at coordination must be accomplished through law, through rules or decisions issued in carrying out provisions of appropriation laws, and through studies which may be undertaken from time to time.

In the first four years of its existence, the Board of Regents has necessarily had to give primary attention to its planning duties and to

Table 4

Allocation of Construction Funds for Higher Education Expansion Bond Issues of 1963 and 1965

Expanding Central Campuses of Long-Established State-Assisted Universities	
Bowling Green State University\$14,5 Central State University	00,000 00,000
Kent State University	500.000
Miami University	00.000
Ohio State University	300,710
Ohio University	000,000
Total	\$116,200,710
Expanding or Constructing Main Campuses of New State-Assisted Universities	
University of Akron\$ 6,0	000,000
Cleveland State University 44,7	750,000
University of Cincinnati	331,074
University of Toledo	000,000
	000,000
Youngstown State University 5,0	000,000
Total	\$ 92,581,074
Constructing Two-Year Campuses Community Colleges:	
Cuyahoga Community College\$14,0)21,054
Lakeland Community College 2,2	250,000
Lorain County Community College	168,922
Sinclair Community College	000,000
Sub-Total \$24,7	739,976
Technical Institutes:	
Clark County Technical Institute\$ 2,6	000,000
Columbus Technical Institute 3,2	200,000
Jefferson County Technical Institute	300,000
Sub-Total \$ 7,0	000,000
University Branches:	
Firelands Branch—BGSU\$ 1,5	375,0 00
Walters Branch—UC 2,	168,926
	925,000
Canton Branch—KSU 2,	450,000
Columbiana County Branch—KSU	20,000
T COCCATO AND TOTAL TIME TO A COLUMN TO THE TANK	875,000
Trumbull & Columbiana Branches—KSU	071,896



Hamilton Branch—MU	2,025,000		
Middletown Branch—MU	2,422,440		
Lima Branch—OSU	3,947,550		
Mansfield Branch—OSU	4,259,750		
Marion Branch—OSU	1,952,857		
Newark Branch—OSU	1,992,203		
Portsmouth Branch—OU	2,075,000		
Chillicothe Branch—OU	2,158,404		
Zanesville Branch—OU	2,170,900		
Belmont County Branch—OU	2,150,285		
Lancaster Branch—OU	1,875,000		
Sub-Total	\$3 9 ,415,211		
Two-Year Urban Campuses of Senior Universities:			
University of Akron Community and			
Technical College	\$ 6,000,000		
Ohio State University			
University College	9,500,000		
University of Toledo Community and Technical College	. 6,000,000		
Sub-Total	\$21,500,000		
Total		\$ 9	92,655,187
Expanding Medical Facilities			
Toledo State College of Medicine			
Total		2	27,369,290
Other Programs			
Ohio Agricultural Research and Development Center			
Total		\$	6,424,542
Grand Total		\$3	35,230,803
Less Recoveries under Section 103, Title I, Higher Education Facilities Act during 1966, 1967, 1968		:	15,230,803
Allocated to Higher Education from 1963 and 1965 Bon	d		
Issues	•	\$33 	20,000,000



its role as a legislative advisor. In general, coordination of the various programs of public institutions of higher education has been sought by these means. In the future, it is possible that more attention will and should be given to problems which do require some degree of coordinated action by the public colleges and universities in Ohio.

There are a number of areas of higher education operation where common action may be desirable. These would include delineation of geographical areas served, elimination of duplication in academic programs, development of common admission procedures, articulation of two-year programs with baccalaureate programs, sharing of library resources, sharing of specialized instructional and research facilities, coordinated academic planning, and sharing of specialized computer facilities. Such a listing is by no means complete but only illustrative of the kinds of problems which deserve some attention.

In exercising its authority to grant charters to community colleges and technical institutes and to approve university branches and academic centers, the Board of Regents has been much concerned about the geographical distribution of such facilities throughout Ohio. As a matter of policy, the Board has endeavored to avoid competition with available programs already provided by existing public and private institutions of higher education. Thus, a technical institute district was favored in both Clark County and Jefferson County in preference to a community college because of the existence of private colleges in both counties. The Board of Regents in 1966 disapproved the chartering of a community college in Columbiana County because there was conflict between groups of citizens in the area, many of whom preferred a university branch. The Board decided that the needs of the area could better be served under the circumstances by development of a university branch in the County. The Board did grant a charter in 1966 to the Mahoning Community College in spite of the fact that the possibility of establishing a state university in Youngstown was under consideration. The voters of the County disapproved a tax levy in support of the college, probably because they believed that a state university would adequately meet the needs of the geographical area.

The Board of Regents had planned that the geographical distribution of higher education facilities could be adequately provided through university branches, but the Board found in practice that there was considerable local pressure for retention of certain academic centers where the area population was not large enough to justify full-time facilities. The Board even approved the creation of a new academic center in the Adams-Brown-Highland counties area in order to provide some opportunity for higher education where the population base was sparse.

One of the geographical problems has been the assignment of supervision over two-year institutions. Originally, university academic centers were developed in Ohio primarily according to a regional assignment for each of the five state universities. With the expansion of the system to 12 universities, the question has arisen whether there should be some geographical redistribution of supervisory jurisdiction over state university branches. Certainly, in a coordinated state system of higher education, a strong case can be made for a rational assignment of geographical duties. Intreorganization of this kind is not easy to carry out in the name of achieving a coordinated structure. There are many local attachments and experiences to consider before undertaking a redistribution of branch supervision.

It is not a simple matter to define what constitutes duplication of academic programs. It is easy to assert that duplication is uneconomical and undesirable. It is something else to determine the existence of duplication. The fact that several institutions of higher education offer the same academic programs does not in itself prove duplication of academic effort. For example, all state universities offer programs in teacher education. This is necessary, since the demand for teachers is great and since the number of students seeking a degree in teacher education is sizable. The same observation can be made about a number of other academic programs at the two-year, the baccalaureate, and the graduate levels.

The test of uneconomical and undesirable duplication is whether a number of institutions are offering the same academic program for which there may be a limited professional demand, a limited number of students to be enrolled, and the need for highly specialized and expensive facili-

ties. In approving new academic programs, the Board of Regents has kept this standard in mind, and in the future the Board hopes to look at existing programs in terms of this same standard.

In its legislative program, the Board of Regents has sought particularly to provide common authority of management for public institutions of higher education and to strengthen the management authority of these institutions. For example, the Board of Regents in 1967 recommended legislation which was enacted by the General Assembly declaring every state university a body politic and corporate. Such language had been used in the original acts establishing Ohio University and Miami University, but had been omitted in the laws creating The Ohio State University and other universities. In addition, the Board of Regents recommended legislation which was enacted by the General Assembly conferring the same borrowing authority upon community colleges and technical institutes as that already given to state universities.

In 1965 the Board of Regents recommended legislation which was enacted by the General Assembly enabling each state university to retain in the hands of the university treasurer all student fees charged and collected by the university rather than having to deposit these fees with the Treasurer of State. There were several advantages to this change in financial practice, both for the State of Ohio and for the state universities. The fees had been earmarked by state law to be used only for the benefit of the collecting university, and all fees were automatically reappropriated to the universities. By eliminating the deposit of these fees with the Treasurer of State, a great deal of paper work was eliminated and a clearer record of the actual support from tax funds to public higher education resulted. At the same time, this legislation greatly augmented the management autonomy of the state universities in Ohio.

One result of the fiscal legislation affecting state universities was the development and adoption of a standard program of accounting and financial reporting for the public institutions of higher education in Ohio. The Uniform Manual of Accounts and Financial Reports for state-assisted institutions was prepared by the Auditor of State. The Board of Regents cooperated in the

preparation of this manual. The result should be a standard practice in maintaining the accounting records of colleges and universities in Ohio and in reporting their financial transactions.

A major concern of the Board of Regents has been the development of a standard information system for public higher education in Ohio. This information system is divided into four major parts: student enrollment and characteristics, staffing (academic, non-academic, and administrative), space inventory and utilization, and financial operations. In each area, standard definitions and standard reporting procedures are expected to provide comparable data about each state-assisted institution of higher education. The data submitted by each institution is being processed in Columbus and periodic reports will be published making these data available for analysis by the staff of the Board of Regents, as well as by the staffs of the public colleges and universities.

The Board's standard information system was originally devised by a management consulting firm retained for this purpose. The systems design for processing the data obtained by the Board was undertaken by another consulting firm. The programming and processing of the data have been performed by the data processing section of the Department of Finance.

The Board of Regents has believed that a system of management information is essential to the coordination of the various public institutions of higher education. Such information is the basis for determining the experience of each institution in the management and utilization of various resources. In addition, the information system is expected to provide cost experience data for each institution on a program basis. This expense information is required in the performance of the Board's budgetary functions.

In 1967 the General Assembly provided a special appropriation to the Board of Regents for research and public service. This appropriation will be used to enable The Ohio State University to undertake certain services for the benefit of all public institutions. These services will include a teacher education improvement program, a business review service, an undergraduate instruction service, development of a high energy

physics program, operation of a hydrobiological research center, development of a central library service, and development of plans for a central computer service. In all of these fields the interests of the state universities will be coordinated on behalf of the Board of Regents by Ohio State.

Some exploration has been started looking toward coordination of admission policies and procedures. There appears to be a need to avoid duplication in payment of admission application fees to the various public institutions. Little attention has yet been given to articulation of twoyear with four-year undergraduate curricula.

Another kind of coordination has been performed in connection with appropriation legislation. In preparing its capital improvement recommendations and in reviewing the facilities planning of each institution, the Board of Regents has found it necessary to have a set of standard space requirements and standards of expected space utilization. Such standards have been incorporated in the capital improvement budgets and in the plans recommended by the Board for construction. The Department of Public Works has been most cooperative in enforcing these standards. In addition, the Board in 1964-65 prepared standard specifications to be used in the construction of university branches. It has been estimated that as much as an additional \$5 million became available for branch construction through savings achieved in this manner.

In 1963 the General Assembly began the practice of delegating to the Board of Regents authority to define full-time equivalent students upon which operating appropriations are based. This authority was repeated in 1965 and 1967. In this way a coordinated definition of enrollment has been realized.

In establishing a year-round counting of enrollment for appropriation purposes, the Board of Regents became aware of a special complication since the public universities utilized three different academic calendars: semester, trimester, and quarter. This absence of common calendar arrangements could and did result in inequities in appropriation support. It also was evident that the coordination of enrollment loads among branches and universities would be facilitated through a common calendar. In consequence, in 1966 the Board of Regents announced that, beginning in September, 1968, the Board would define year-round enrollment only upon the basis of a quarter calendar.

This summary of the coordination activities of the Board of Regents indicates the kinds of concerns which have occupied the Board's attention. It seems probable that these concerns will become more extensive in the future.



IV. RELATIONS WITH GOVERNOR AND GENERAL ASSEMBLY

The Ohio Board of Regents is not an institution of higher education. The Board of Regents seeks to provide a professional and a considered judgment as advice to the Governor and the General Assembly of Ohio on desirable public policy in the field of higher education.

The basic and important decisions about higher education are not made by the Board of Regents. The vital decisions are made by the Governor in his budget and legislative recommendations to the General Assembly and by the General Assembly in its action upon appropriations and other measures considered by it. Necessarily, these decisions are political in nature, political in terms of their concept of the public welfare to be promoted and in their interpretation of what the citizenry of Ohio needs and wants.

Necessarily, in the formulation and determination of public policy affecting higher education, there must be an interplay between professional and board judgment on the one hand and political judgment on the other hand. This interplay can be formal or informal, cooperative or suspicious, effective or ineffective.

The Board of Regents has had the unfailing support of Governor James A. Rhodes during its four years of activity, as well as the fullest possible assistance from the Department of Finance and other executive officers. The leadership and the committees of the General Assembly have given careful and sympathetic consideration to the recommendations of the Board of Regents. Without this continuing cooperation, the Board of Regents might well be reporting a very different record of accomplishment.

Indeed, the accomplishments in legislation advancing the best interests of public higher education in Ohio are not accomplishments of the Board of Regents. They are accomplishments of the political leadership of the State of Ohio.

The Ohio Board of Regents has sought to provide through various public documents informa-

tion to the Governor and the General Assembly and to others about the work and the needs of public higher education in Ohio The publication of a provisional Master Plan in April, 1965, and of the Master Plan in June, 1966, has already been mentioned. The Board has published three annual reports, a summary of the Master Plan entitled New Responses to Vital Issues in Public Higher Education (1966), a pamphlet entitled Higher Education and Jobs (1966), a pamphlet on higher education developments (1967), current operating budget recommendations in 1965 and 1967, and capital improvement programs in 1965 and 1967.

The Board of Regents believes that it has provided more extensive information about public higher education in Ohio than has ever been available before. The Board has sought to make public all information it has had about the institutions of higher education in Ohio. It has been Board policy to encourage interested groups to learn all they are willing to absorb about the service and the problems of public higher education.

Higher education has never been organized and has never sought to operate as a pressure group. In terms of an interested constituency — faculty, staff, students, and alumni — higher education may well reach only a small proportion of the citizens of any state. The impact of higher education upon the economy and upon the welfare of society is quite disproportionate to the direct numbers involved. The benefits of higher education are enjoyed far beyond the numbers of students who graduate.

The responsibility of the university graduate in his professional work is to bring knowledge and skill to the service of others. This the graduates of higher education have done, generally without any limitations imposed upon their efforts. It is the public benefit from higher education which constitutes higher education's claim to public support.



APPENDICES

APPENDIX A-ENROLLMENT

- Table 1 Student Enrollments, Head Count, Autumn, 1966
- Table 2 Student Enrollments, Full-Time Equivalent, Academic Year 1966-67

APPENDIX B-CURRENT FINANCIAL OPERATIONS

- Table 3 Summary of Total Operating Income and Expenditures, State Universities, 1966-67
- Table 4 Summary of Total Operating Income and Expenditures, Municipal Universities and Community Colleges, 1966-67
- Table 5 Summary of Current General Income, State Universities, 1966-67
- Table 6 Summary of Current General Income,
 Municipal Universities and Community Colleges,
 1966-67
- Table 7 Allocation of Current General Income, State Universities, 1966-67
- Table 8 Allocation of Current General Income, Municipal Universities and Community Colleges, 1966-67
- Table 9 Instruction and General Expenditures, State Universities, 1966-67
- Table 10 Instruction and General Expenditures,
 Municipal Universities and Community Colleges,
 1966-67
- Table 11 Income and Expenditures for Research, State Universities, 1966-67



- Table 12 Income and Expenditures for Research,
 Municipal Universities and Community Colleges,
 1966-67
- Table 13 Income and Expenditures for Public Service Programs, State Universities, 1966-67
- Table 14 Income and Expenditures for Public Service Programs,
 Municipal Universities and Community Colleges,
 1966-67
- Table 15 Income and Expenditures for Auxiliary Enterprises, State Universities, 1966-67
- Table 16 Income and Expenditures for Auxiliary Enterprises,
 Municipal Universities and Community Colleges,
 1966-67
- Table 17 Income and Expenditures for Student Aid, State Universities, 1966-67
- Table 18 Income and Expenditures for Student Aid,
 Municipal Universities and Community Colleges,
 1966-67
- Table 19 Instructional and General Expenditures Per Student, 1966-67

APPENDIX C

Table 20 Financial Report of the Ohio Board of Regents, 1966-67

APPENDIX D—ADVISORY COMMITTEES TO THE OHIO BOARD OF REGENTS



APPENDIX A

Table 1

Student Enrollments Autumn 1966 Head Counts

State-Assisted Institutions of Higher Education

		Branches and	
	Main Campus	Academic Centers	Total
University of Akron	11,865		11,865
Bowling Green State University	11,304	1,274	12,57 8
Central State University	2,211	108	2,319
Cleveland State University	6,954	933	7,887
University of Cincinnati	24,5 84		24,5 84
Kent State University	17,225	5,691	22,91 6
Miami University	10,620	2,720	13,34 0
Ohio State University	37,270	3,937	41,207
Ohio University	15,088	4,236	19,324
University of Toledo	11,49 3		11,49 3
Wright State Campus	4,694		4,69 4
Cuyahoga Community College	10,239		10,239
Lorain County Community College	2,750		2,75 0
Sinclair Community College	2,122		2,122
Totals	168.419	18,899	187,318

Table 2

Student Enrollments

Full-Time Equivalents Eligible for Subsidy Support, Academic Year 1966-67

State-Assisted Institutions of Higher Education

		Branches and	
	Main Campus	Academic Centers	Total
University of Akron	4,74 8*		4,74 8
Bowling Green State University	12,35 3	7 78	13,131
Central State University	2,419	30	2,449
Cleveland State University	5,526	649	6,175
University of Cincinnati	8,393*		8,39 3
Kent State University	18,217	2,910	21,127
Miami University	11,969	1,091	13,0 60
Ohio State University	41,161	2,781	43,942
Ohio University	16,135	2,849	18,984
University of Toledo	5,275*	-	5,275
Wright State Campus	3,208		3,208
Cuyahoga Community College	6,075		6,075
Lorain County Community College	1,983		1,9 83
Sinclair Community College	1,006		1,006
Totals	138,468	11,088	149,556

^{*}lower division only



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APPENDIX B

Table 3

Summary of Total Operating Income and Expenditures State Universities, Academic Year 1966-67

Wright State	3,385,427 99.9	2,456	3,387,883	3,204,177 98.4	25,426 .8 .27,456 .8 3,257,059
Ohio U.	21,508,375 63.6 442,511 1.3 3,192,047	8,042,268 23.8 638,051 1.9	33,823,252	22,277,566 64.7 610,184 1.8 3,428,572	6,998,681 20.3 1,120,585 3.3 34,435,588
0.S.U.	75,588,247 53.2 17,634,699 12.4 27,151,060	15,922,109 11.9 4,807,510 3.4	142,103,625	69,969,038 49.7 20,353,627 14.5 27,309,943	15,558,798 11.1 7,495,686 5.3 140,687,092
Miami U.	15,230,552 65.1 185,133 .8 .8	1.2 7,539,953 32.2 164,787	23,388,216	13,131,432 62.7 215,764 1.0 311,208	6,742,038 32.2 559,030 2.6 20,959,472
Kent	23,714,924 69.1 586,441 1.7	5.2 8,5 57 ,579 24.9 368,429 1.1	34,327,595	21,461,416 65.5 641,534 2.0 1,256,338	8,672,741 26.5 743,947 2.2 32,775,976
Clev.	6,525,855 87.5 -0- 5,743	.1 784,552 10.5 138,246 1.9	7,454,396	6,137,738 84.8 -0-	931,459 12.9 165,413 2.3 7,234,610
Central	3,236,591 61.0 15,304 .3 131,614	2.5 1,790,044 33.8 129,936	5,303,489	3,115,842 64.5 29,945 .6 133,061	2.5 1,340,439 27.7 214,592 4.4 4,833,879
BGSU	15,158,261 59.5 223,131 .9 921,636	3.6 9,178,825 36.0 -0-	25,481,853	13,784,990 55.6 290,923 1.2 876,048	9,524,452 38.4 333,695 1.3 24,810,108
	Total Operating Income Curr. Gen. Inc. Per Cent Research Per Cent Per Cent	Per Cent Auxiliary Enterprises Per Cent Student Aid Per Cent	Total	Instruction & Gen. Per Cent Research Per Cent Per Cent Research Public Service	Auxiliary Enterprises Per Cent Student Aid Per Cent Total

APPENDIX B Table 4

	Summar; Municipal Univer	y of Total Opera sities and Comm	Summary of Total Operating Income and Expenditures Municipal Universities and Community Colleges, Academic Year 1.966-67	nditures ic Year 1.966-67	
	U. of Akron	U. of Cin.	U. of Toledo	Cuyahoga Comm. Coll.	Lorain Co. Comm. Coll.
Current General Income Per Cent Research Per Cent	8,702,861 75.9 358,519 3.1	25,517,035 49.6 6,242,250	10,127,718 82.1 -0-	5,450,116 89.9 -0-	1,859,902 90.0 -0-
Public Service Per Cent Auxiliary Enterprises Per Cent Student Aid	111,358 1.0 1,952,827 17.0 336,768	11,442,168 22.3 7,625,978 14.8 584,120	143,553 1.2 2,067,294 16.7 -0-	40,178 .7 .503,851 8.3 69,901 1.1	164,383 8.0 40,760 2.0
Per Cent	2.5 11,462,333	51,411,551	12,338,565	6,034,046	2,065,045
otal Operating Expenditures Instruction and General Per Cent Research	7,720,753 75.2 358,519	24,362,548 47.5 6,693,141	9,383,697 79.5 -0-	5,390,560 89.1	1,820,221
Per Cent Public Services Per Cent Auxiliary Enterprises	$\begin{array}{c} 3.5 \\ 135,729 \\ 1.3 \\ 1,749,603 \\ 170.0 \end{array}$	$13.1 \\ 10,804,759 \\ 21.1 \\ 7,332,610 \\ 14.3$	190,168 1.6 1,964,334	67,869 1.1 511,322 8.5	152,588 7.6
Per Cent Student Aid Per Cent Total	17.0 304,246 3.0 10,268,850	2,023,677 2,023,677 4.0 51,216,735	272,981 2.3 11,811,180	77,896 1.3 6,047,647	34,573 1.7 2,007,382

APPENDIX B

Table 5

Summary of Current General Income State Universities, Academic Year 1966-67

6,595,250 1,900,158 1,500,06 6,000 6		BGSU	Central	Clev.	Kent	Miami U.	o.s.u.	Ohio U.	Wright State
15E,600 6,000 129,799 6,750,850 1,906,158 3,029,800 44,6 58.9 46.4 5,906,324 666,618 1,369,803 488,285 236,345 78,353 593,315 322,238 1,229,443 46.1 37.8 41.0 429,761 5,913 145,078 2.8 .2 4.2 2.8 .2 4.2 2.8 .2 4.2 2.8 .2 4.2 48.9 38.0 45.2 48.9 38.0 45.2 - .8 .3 - .8 .3 - .8 .3 - .4 .5 - .8 .3 - .8 .3 - .6 .6 - .8 .3 - .6 .6 - .6 .6 - .8 .1 - .6 .6	priations Campus	6,595,250	1,900,158	2,900,001	9,693,500	6,440,545	36,537,485	8,800,000	1,620,100
6,760,800 1,900,103 3,023,000 44,6 58.9 46,4 488,285 236,345 78,353 5987,924 1,225,201 2,677,599 429,761 5,913 145,078 130,214 429,761 5,913 275,292 2.8 2.2 4.2 7,417,685 1,231,114 2,952,891 48.9 38.0 49,631 5,100 49,631 1.6 3 11,591 165,630 1.0 42,633 1.6 3 11,591 165,630 1.1 48.9 310,738 3.9 2.7 4.8	Branch	155,600	6,000	129,799	695,000	326,200 6 766 745	742,800 97 990 995	616,000 0 416,000	1 690,100
5,906,324 666,618 1,369,803 488,285 236,345 78,353 593,315 322,238 1,229,443 6,987,924 1,225,201 2,677,599 46,1 37.8 41.0 429,761 5,913 145,078 2.8 .2 4.2 2.8 .2 4.2 2.8 .2 4.2 7,417,685 1,231,114 2,952,891 48.9 38.0 45.2 - .8 .7 240,609 .9 .4 1.6 .4 .8 1.6 .4 .8 1.6 .4 .8 1.6 .4 .8 1.6 .4 .8 1.6 .4 .2 1.0 .4 .2 1.0 .4 .8 2.7 .4 .8 2.7 .4 .8 2.7 .4 .8 2.6 .7 .4 3.9 .7 .4	ent	6,700,850 44.6	1,900,158 58.9	3,023,500 46,4	43.8	0,100,140 44.4	49.3	43.8	47.9
5,906,324 666,618 1,369,803 488,285 236,345 78,363 6,987,924 1,225,201 2,677,599 46,1 37.8 41.0 429,761 5,913 145,078 2.8 2 2 2.8 2 4.2 7,417,685 1,231,114 2,952,891 48.9 38.0 45.2 5,100 38.0 45.2 1.6 3 3 1.6 3 3 1.0 4 2.5 1.0 4 2.5 1.0 4 2.5 1.0 4 2.5 1.0 4 2.5 1.0 4 2.5 2.7 4.8 3.9 2.7 4.8 3.9 2.7 4.8 3.9 2.7 4.8 3.9 2.7 4.8 3.9 2.7 4.8	v2								
488,285 236,345 78,353 593,315 322,238 1,229,443 6,987,924 1,225,201 2,677,599 46,1 37.8 41.0 429,761 5,913 145,078 2.8 2 2.2 2.8 2 4.2 7,417,685 1,231,114 2,952,891 48.9 38.0 45.2 8 38.0 45.2 1.6 .8 .8 1.6 .4 .8 1.6 .3 .3 1.0 .4 2.5 1.0 .4 2.5 1.0 .4 2.5 1.0 .4 2.5 1.0 .4 2.5 1.0 .4 2.5 1.0 .4 2.5 1.0 .4 2.5 2.7 4.8 3.9 2.7 4.8 3.9 2.7 4.8 3.9 2.7 4.8 3.9 2.7 4.8 <td< td=""><td>Instr. & Gen.</td><td>5,906,324</td><td>666,618</td><td>1,369,803</td><td>7,541,636</td><td>4,621,635</td><td>16,100,088</td><td>5,827,558</td><td>1,670,983</td></td<>	Instr. & Gen.	5,906,324	666,618	1,369,803	7,541,636	4,621,635	16,100,088	5,827,558	1,670,983
6,987,924 1,225,201 2,677,599 46.1 37.8 41.0 429,761 5,913 145,078 2.8 2.8 2 2.8 2.8 4.2 7,417,685 1,231,114 2,952,891 48.9 38.0 45.2	ut-of-state)	488.285	236,345	78,953	1,030,178	1,069,016	2,891,368	1,269,017	12,129
6,987,924 1,225,201 2,677,599 46.1 37.8 41.0 429,761 5,913 145,078 2.8 2. 2 45.2 2.8 2.95,761 5,913 275,292 48.9 38.0 45.2 8 240,609 1.6 49,631 1.6 3.9 1.6 4 2.5 1.6 4 2.5 1.6 4 2.5 1.6 4 2.5 1.6 4 2.5 1.6 4 2.5 1.7,417,685 1.6 4 2.5 1.6 4 2.5 1.7,417,685 1.6 4 2.5 1.7,417,685 1.8 2.8 3.9 2.7 4.8 2.9 2.7 2.8 3.9 2.7 4.8 2.9 2.7 2.8 3.9 2.7 4.8 2.7 4.8 2.7 4.8 2.7 4.8 2.7 4.8 2.7 4.8 2.7 4.8 2.7 4.8 2.7 4.8	ervices	593,315	322,238	1,229,443	1,139,229	1,509,353	2,207,300	2,068,861	40,666
46.1 37.8 41.0 429,761 5,913 145,078 130,214 130,214 2.8 2 4.2 2.8 2 4.2 7,417,685 1,231,114 2,952,891 48.9 38.0 45.2 - .8 240,609 .8 1.6 11,591 165,630 1.0 .4 2.5 1.0 .4 2.5 1.0 .4 2.5 1.0 .4 2.5 1.0 .4 2.5 2.7 4.8 3.9 2.7 4.8 3.9 2.7 4.8 3.9 2.7 4.8 3.9 2.7 4.8 4.8 2.7 4.8		6,987,924	1,225,201	2,677,599	9,711,043	7,200,004	21,198,756	9,165,436	1,723,778
429,761 5,913 145,078 130,214 130,214 2.8 2 4.2 2.8 2 4.2 48.9 38.0 45.2 5,100 8 8 5,100 8 8 1.6 11,591 165,630 1.0 4 2.5 1.0 4 2.5 1.0 4 2.5 1.0 4 2.5 1.0 4 2.5 1.0 4 2.5 1.0 4 2.5 1.0 4 2.5 2.7 4.8 3.9 2.7 4.8 3.9 2.7 4.8 4.8 2.7 4.8	ent	46,1	37.8	41.0	40.9	47.3	28.1	42.6	50.9
130,214 2.8 2.8 2.8 4.2 4.2 7,417,685 1,231,114 2,952,891 48.9 38.0 45.2 1.6 1.6 1.6 1.6 1.6 1.0 49,631 - 1.7,165 - 1.7,165 - 1.6 1.0 4 2.5 3.9 2.7 4.8 3.0 7,417,685 11,591 165,630 11,0 4 2.5 3.9 2.7 4.8	Instr. & Gen.	429,761	5,913	145,078	2,245,831	684,932	1,328,736	1,549,709	
130,214 2.8 2.8 2.8 2.8 2.8 2.8 4.2 4.2 4.2 4.8.9 38.0 45.2 - 5,100 5,100 1.6 1.6 1.6 1.6 1.0 49,631 3 11,591 165,630 11,651 1.0 48,630 3 11,591 165,630 11,631 11,631 11,591 11	ut-of-state)	•			4,915	4,352	13,391	1	
429,761 5,913 275,292 2.8 2 4.2 2.8 3 4.2 48.9 38.0 45.2 5,100 49,631 8 240,609 17,165 3 1.6 11,591 165,630 1.0 4 2.5 1.0 4 2.5 589,554 87,728 310,738 3.9 2.7 4.8 3.9 2.7 4.8 3.9 2.7 4.8	rvices			130,214	42,000		35,510	103,507	
2.8 2.8 4.2 7,417,685 1,231,114 2,952,891 48.9 38.0 45.2 - .8 - .8 1.6 1.6 1.6 .3 1.6 .3 1.0 .4 2.5 .3 1.0 .4 2.5 .4 2.5 .4 2.5 .4 2.5 .4 2.7 4.8 3.9 2.7 4.8 .7 4.8 .7 4.8 .7 4.8 .7		429,761	5,913	275,292	2,292,746	689,284	1,377,637	1,653,216	
7,417,685 1,231,114 2,952,891 48.9 38.0 45.28 240,609 17,165 1.6 1.0 .4 2.5 1.0 .4 2.5 1.0 .4 2.5 1.0 .4 2.5 3.9 2.7 4.8	que	2 8	બં	4.2	9.7	4.5	8.	2.7	
48.9 38.0 45.2 5,100 49,631 - .8 1.6 17,165 1.6 .3 1.0 .4 2.5 10,738 3.9 2.7 4.8 3.9 2.7 4.8 3.9 2.7 4.8 3.9 2.7 4.8	ent Fees	7,417,685	1,231,114	2,952,891	12,003,789	7,889,288	22,576,393	10,818,652	1,723,778
5,100 49,631	mt	48.9	38.0	45.2	50.6	51.8	29.9	50.3	20.9
5,100 49,631	Income					7,778	68,334	44,959	
5,100 49,631)mt					구	- :	οi	
240,609 17,165 1.6 3.9 11,591 165,630 1.0 4 2.5 1.0 4 2.5 2.5 3.9 2.7 4.8	and Grants	5,100		49,631	200	67,000	857,357	120,117	
240,609 17,165 1.6 .3 154,463 11,591 165,630 589,554 87,728 310,738 589,554 87,728 310,738 3.9 2.7 4.8	ant			ထံ့		₹.	1.1	rů	
1.6 .3 154,463 11,591 165,630 1.0 .4 2.5 589,554 87,728 310,738 3.9 2.7 4.8	Grants	240,609		17,165	84,097	139,424	3,408,639	699,470	
154,463 11,591 165,630 1.0 .4 2.5 1.0 .4 2.5 589,554 87,728 310,738 3.9 2.7 4.8	ent	1.6		က္ခ	4.	o.	4.5	က္	
1.0 .4 2.5 589,554 87,728 310,738 3.9 2.7 4.8	l Sales	154,463	11,591	165,630	258,461	21,581	7,879,165	6,988	
589,554 87,728 310,738 3.9 2.7 4.8	ent	1.0	4.	2.5	1.1	છાં	10.4	•	
3.9 2.7 4.8		589,554	87,728	310,738	979,877	338,736	3,518,074	402,189	41,549
1	ent	3.0	2.7	4.8	4.1	2.2	4.7	1.9	1.2
10,106,201 5,250,091 0,020,010	Curr. Gen. Income	15,158,261	3,236,591	6,525,875	23,714,924	15,230,552	75,588,247	21,508,375	3,385,427

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APPENDIX B Table 6

Summary of Current General Income Municipal Universities and Community Colleges, Academic Year 1966-67

Lorain Co. Comm. Coll.	396,600	21.3 589,445	51.7 986,045 53.0	663,242 6,132 29,164 698,538 37.6	7,477 4 134,528 7.2 3,453 .2 29,861 1,6
Cuyahoga Comm. Coll.	1,058,4	19.4 2,436,415	3,494,899 64.1	1,710,028 137,800 -0- 1,847,828 33.9	56,348 1.0 51,041 1.0 5,450,116
U. of Toledo	1,026,700	10.1 2,372,541 99 E	25.5 3,399,241 33.6	4,557,612 1,325,253 508,351 6,391,216 63.1	74,024 .7 .7 263,237 2.6 10,127,718
U. of Cin.	1,641,800	6.4 3,838,586 15.1	5,480,386 21.5	12,303,956 389,271 268,062 12,961,289 50.8	1,542,983 6.0 1,582,787 6.2 2,965,667 11.6 143,802 .6 840,121 3.3 25,517,035
U. of Akron	914,700	10.5 $1,596,911$	2,511,611 2,511,611 28.9	5,138,181 53,691 343,937 5,535,809 63.6	9,913 .1 380,437 3.8 55,932 .6 .6 259,159 3.0 8,702,861
	Government Appropriations State	Per Cent	Total Government Appropr.	Student Fees: Instruction and General Tuition (Out of County) Student Services Total Student Fees Per Cent	Endowment Income Per Cent Private Gifts and Grants Per Cent Government Grants Per Cent Departmental Sales Per Cent Other Per Cent Other Total Current General Income

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APPENDIX B
Table 7

Allocation of Current General Income State Universities, Academic Year 1966-67

	200	State Universities, 11		1				Waicht
	BGSU	Central	Clev.	Kent	Miami U.	o.s.u.	Ohio U.	State
Available for Alloca. Total Curr. Gen. Income	15,158,261 531,570	3,236,591 437,976	0,525,855 1,029,569	23,714,924	15,230,552	75,588,247 5,869,667	21,508,375 2,623,428	3,385,427 196,147
Deduct: Stu. Serv. fees dedicated to debt retirement	593,315 15,096,516	158,511 3,516,051	7,555,424	230,046	15,230,552	149,960 81,307,954	419,892	52,793 3,528,781
Alloca. of Curr. Gen. Income: Instruction and Gen.	13,784,990 91.3 67.792	3,115,842 88.6	6,137,738 81.2	21,461,416 91.4 41,400	13,131,432 85,5 30,631	69,969,038 86.1 2,718,928	22,277,566 93.9 167,673	3,204,177 90.8
Research Per Cent Public Service Per Cent Auxiliary Enterprises Per Cent	56,347 56,347 368,584 2.5	1,447 20,437 .6 84,656	931,459 12.3 165,413	.2 152,245 .6 587,639 2.5 375,518	.2 43,417 .3 .99,684 3.9 394,243	2.688,176	236,525 1.0 672,726 2.8 482,534	25,426 .7 27,456
Per Cent Trans. to Plant Funds Per Cent Per Cent Process Per	2.2	2.4 123,428 3.5 15.037	2.2 320,814	1.6 544,921 2.3 276,093		5.5 1,141,382 1 .∉	329,383 1.4 135,383	
Other Transfers	48 5,108 3.2	155,204 4.5	. 4.	1.2 45,646 .2	•	3,414,247 4.2	.0 (589,879) (2.4)	271,722 7.7 3.528,781
Total Allocation	15,096,516	3,516,051	7,555,424	23,484,878	16,230,002	F06,106,10		

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APPENDIX B

Table 8

Allocation of Current General Income Municipal Universities and Community Colleges, Academic Year 1966-67

Lorain Co. Comm. Coll.	1,859,902			1 879 795	1,820,221	7.16			3,205	์ เ	6,759	₩.			5.940	୍ଟେନ୍	36,600	1.9	1,872,725
Cuyahoga Comm. Coll.	5,450,116			5.450.116	5,230,560		27,691	πċ	23,870	. 4.	7,995	сi							5,450,116
U. of Toledo	10,127,718 235,174	98,250	10,264,642		9,385,697		46,615	4.	132,214	1.3	272,981	2.7	29,000	ကဲ့			400,135	0: 0	10,264,642
U. of Cin.	25,517,035 1,449,031	o	26,966,066		24,362,548 90.3	450,891 1.7	96,840	4.	371,597	1.4	1,439,557	ວຸຄ	161,500	9.	83,133	တဲ့	- 0		26,966,066
U. of Akron	8,702,861 1,094,618	343,937	9,453,542		7,720,253		121,616	1.2									1,611,673	17.1	9,453,542
Available for Allocation:	Total Current General Income Add: Transfers Deduct: Student Services Fees dedicated to debt	retirement	available for allocation	Allocation of Current General Income	Instruction and General	Research Per Cent	Public Services	Per Cent	Auxiliary Enterprises	Per Cent	Student Aid	Fer Cent	Transfer to Plant Funds	Per Cent	Other Transfers	Per Cent	Unallocated	Per Cent	Total Allocation

ERIC Full fact Provided by ERIC

APPENDIX B Table 9

Instruction and General Expenditures State Universities, Academic Year 1966-67

Wright State

Ohio U.

o.s.u.

Miami U.

Kent

Clev.

Central

BGSU

2,131,260 66.5 66.5 .9 .9 302,155 9.4 140,544 4.4 93,124 2.9 316,461 9.9 192,004 6.0	1,838,327 86.3 30,72 2 1.4 262,211 12.3 2,131,240
12,109,547 54.4 2,123,924 9.5 863,035 3.9 949,617 4.3 1,005,288 4.5 2,427,310 10.9 1,168,585 5.2 22,277,566	8,353,472 69.0 978,267 8.1 2,777,808 22.9 12,109,547
49,123,938 70.2 1,713,680 2.4 1,478,928 2.1 2,578,081 3.7 2,354,187 3.4 2,025,193 2.9 8,279,163 11.8 2,415,868 3.5 69,969,038	24,672,099 50.2 13,182,874 26.8 11,268,965 23.0 49,123,938
7,807,110 59.5 938,875 7.1 366,960 2.8 627,283 4.8 1,077,231 8.2 502,996 3.8 1,352,676 10.3 458,301 3.5	5,357,304 68.6 1,171,203 15.0 1,278,603 16.4 7,807,110
11,792,175 54.9 2,747,260 12.8 515,651 2.4 927,243 4.3 1,457,429 6.8 899,963 4.2 2,103,956 9.8 1,017,739 4.8	7,281,032 61.9 2,269,234 19.1 2,241,909 19.0
3,179,508 51.8 373,771 6.1 35,950 .6 362,590 5.9 404,532 6.6 318,977 5.2 1,010,727 16.5 451,683 7.3	2,398,928 75.4 234,155 7.4 546,425 17.2 3,179,508
1,396,339 44.8 10,930 .4 52,611 1.7 147,698 4.7 319,794 10.3 165,546 5.3 744,102 23.9 278,822 8.9 3,115,842	1,072,418 76.8 93,549 6.7 230,372 16.5
7,906,240 57.4 459,888 3.3 361,860 2.6 557,272 4.0 1,222,520 8.9 724,919 5.3 1,905,839 13.8 646,452 4.7	5,219,048 66.0 1,288,788 16.3 1,398,404 17.7
Departmental Instruction* Per Cent Off-Campus Instruc. Per Cent Instructional Service Per Cent Libraries Per Cent Student Services Per Cent General Expense Per Cent General Expense Per Cent General Administration Per Cent Plant Operation Per Cent Per Cent Plant Operation Per Cent Per Cent Per Cent Per Cent Per Cent	*Dept, Instruction: Faculty Salaries Per Cent Other Salaries Per Cent Other Expenditures Per Cent Total

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APPENDIX B Table 10

Instruction and General Expenditures Municipal V.::-prsities and Community Colleges, Academic Year 1966-67

	U. of Akron	U. of Cin.	U. of Toledo	Cuyahoga Comm. Coll.	Lorain Co. Comm. Coll.
Departmental Instruction* Per Cent Instructional Service Per Cent	4,475,284 58.0 243,637 3.9	17,195,020 70.6 270,232	6,303,943 67.2 85,783	2,919,815 54.2 148,125	1,039,693 57.1
Libraries Per Cent Student Services Per Cent	191,272 2.5 539,221 6.8	1.1 776,673 3.2 1,154,934 4.7	.9 398,077 4.2 578,475 6.2	2.7 208,209 3.9 628,843	78,205 4.3 189,429 10.5
General Expense Per Cent Plant Operation Per Cent General Administratinon Per Cent	853,734 11.1 832,145 10.8 504,960 7.6	1,348,886 2,599,500 10.7 4.2	565,123 6.0 6.0 11.0 416,796 4.5	344,842 6.4 778,967 14.5 361,759 6.6	182,077 10.0 223,724 12.3 107,093
*Departmental Instruction Faculty Salaries Per Cent Other Salaries Per Cent Other Expenditures Per Cent Other Expenditures Per Cent	3,21 5 ,335 71.8 338,208 7.6 921,741 20.6 4,475,284	24,362,548 12,157,886 70.7 2,033,404 11.8 3,004,640 17,195,020	9,383,697 4,520,522 71.7 687,756 10.9 1,095,665 17.4 6,303,943	5,390,560 2,007,894 68.8 384,898 13.2 527,023 18.0	1,820,221 377,884 84.4 105,520 10.2 56,289 5.4 1,039,693

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APPENDIX B

Table 11

Income and Expenditures For Research State Universities, Academic Year 1966-67

·	Stat	State Universities,	Academic rear 1500-01	former in				Wright
	BGSU	Central	Clev.	Kent	Miami	o.s.u.	Ohio U.	State
Income: State Appropriations					17,022	1,250,000 66,182		
Endowments	223,131	15,:		509,670 76,771	144,568 23,543	15,806,114 512,403	380,184 62,327	
Other Total Total	223,131	15,30		586,441	185,133	17,634,699	442,511	
Expenditures: Excess or (Deficiency)	290,923 (67,792)	2 9,945 (14,641)		641,534 (55,093)	(30,631)	(2,718,928)	(167,673)	
Allocations: Supported by prev. balSupported out of curr. general income	67,792	14,641		13,693 41,400	30,631	2,718,928	167,673	

APPENDIX B

Table 12

Income and Expenditures For Research Municipal Universities and Community Colleges, Academic Year 1966-67

	U. of Akron	U. of Cin.	U. of Toledo	Cuyahoga Comm. Coll.	Lorain Co. Comm. Coll.
Income: State Appropriations Endowments Government Grants & Contracts Other Total Income	264,379 94,140 358,519	190,041 3,697,387 2,354,822 6,242,250			
Expenditures	358,519 -0-	6,693,141 (450,891)			
Allocation:					

20

450,891

Supported by Prev. Bal.
Supported out of Current
General Income

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APPENDIX B Table 13

Income and Expenditures — Public Service Programs State Universities, Academic Year 1966-67

	Stat	State Universities,	Academic Year 1966-67	ar 1966-67				Wright
Institutes and Workshons	BGSU	Central	Clev.	Kent	Miami U.	0.S.U.	Ohio U.	State
Income	921,636	131,614	5,743	836,005	223,199	113,543	1,763,286	
Expense	858,776 62,860	133,061 (1,447)	5,743	836,000 -0-	(16,260)	(50,572)	1,103,435 (6,207)	
Overseas Projects								
Income				23,073 99 079		1,196,791 1 196 791	1,353,490	
Expense				-0-		-0-	(62,476)	
Tolocommunication Center								
Thomas						16,418		
Expense						774,006		
ġ						(757,588)		
University Press						1	3	
Income				9,381		5,163	41,061	
Expense				60,153 (50.772)		(183,350)	(78,449)	
Lifference				(11160)			•	
Medical Center						10 100 640		
Income						18,103,649		
Expense Difference						1,075,314		
Coop Extension								
Income						6,549,000		
Expense Difference						6,549,000 -0-		
Other					,			
Income	-0-			231,763	44,592 71.749	1,166,496 $1,409,183$	34,210 123,603	
Expense Difference	(17,272)			(105,344)	(27,157)	(242,687)	(89,393)	
Excess or (Deficiency)	45,588	(1,447)	5,743	(156,116)	(43,417)	(158,883)	(236,525)	
Allocations					,			
To existing bal, or reserve	101,935 56,347		5,743	152,245	43,417	158,883	236,525	
		1,447		3,871				

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APPENDIX B TABLE 14

1000	1960-01
Ħ:	ic Year
Pro	Academic
Public Service	ty Colleges,
ditures —]	: Jommuni
<u> </u>	and
Income and Ext	Universities and (
	Municipal

	Municipal Universitie	s and Community Co	Municipal Universities and Community Colleges, Academic Year 1966-67	Lo	,
	U. of Akron	U. of Cin.	U. of Toledo	Comm. Coll.	Lorain Co. Comm. Coll.
Institutions and Workshops Income	111,358 14,113 97,245	25,634 30,618 (4,984)	143,553 190,16? (46,615)		
Overseas Projects Income					
Telecommunications Center Income Expense Difference		4,482 95,855 (91,373)			
University Press Income Expense Expense Efference Effere					
Medical CenterIncomeExpenseDifference		11,412,052 10,677,803 734,249			
Cooperative Extension Income Expense Expense Difference					
Other Income Expense Difference Excess or (Deficiency)	121,616 (121,616) (24,371)	483 (483) 637,409	(46,615)	40,178 67,869 (27,691) (27,691)	
Allocations To existing bal. or reserves Support out of curr. gen. income	24,371	734,249 96,840 52	46,615	27,691	

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APPENDIX B Table 15

Income and Expenditures — Auxiliary Enterprises State Universities, Academic Year 1966-67

	BGSU	Central	Cleve.	Kent	Miami U.	o.s.u.	Ohio U.	Wright State
Residence and Dining Income	6,094,037 5,946,389 147,648	1,339,643 936,225 403,418	106,741 133,297 (26,556)	5,659,542 5,296,995 362,547	5,746,087 4,433,131 1,312,956	8,334,321 7,683,565 650,756	7,734,142 6,021,787 1,712,355	
Student Union Income	992,041 1,150,299 (158,258)	193,410 156,521 36,889	25,078 (25,078)	718,505 853,577 (135,072)	1,410,414 1,425,561 (15,147)	1,344,114 1,552,810 (208,696)	1,120 76,146 (75,026)	
BookstoreIncomeExpenseDifference	804,379 796,674 7,705	140,340 137,947 2,393	547,820 590,848 (43,028)	1,386,172 1,278,237 107,935		1,901,916 1,816,253 85,663	13,388 9,430 3,958	-0- 25,426 (25,426)
Intercoll. Athletics Income Expense Difference	204,399 442,953 (238,554)	87,445 91,363 (3,918)	70,348 (70,348)	196,081 649,748 (453,667)	185,661 585,345 (399,684)	2,977,519 2,556,150 421,369	210,653 762,124 (551,471)	
Airport Income				53,826 66,266 (12,440)	54,043 60,354 (6,311)	489,258 504,750 (15,492)	61,066 103,181 (42,115)	
OtherIncomeExpenseDifferenceExcess or (Deficiency)	1,083,969 1,188,137 (104,168) (345,627)	29,206 18,383 10,823 449,604	129,991 308,888 (178,897) (343,907)	543,453 527,918 15,535 (115,162)	143,748 102,647 41,101 932,915	1,874,981 ¹ 1,445,270 429,711 1,363,311	21,899 26,013 (4,114) 1,043,587	2,456 -0- 2,456 (22,970)
Allocations: Surplus: to Curr. Gen. Inc. To prev. bal. or other acct.	186,523	453,522	84,942	486,017	1,538,910	1,587,499	1,716,313	2,456
Deficiency supported out of prev. bal. or by transier	85,766 446,384	3,918	41,196 387,653 53	13,540 587,639	6,311 599,684	91,188 133,000	672,726	25,426

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APPENDIX B

Table 16

Income and Expenditures — Auxiliary Enterprises Municipal Universities and Community Colleges, Academic Year 1966-67

	U. of Akron	U. of Cin.	U. of Toledo	Cuyahoga Comm. Coll.	Lorain Co. Comm. Coll.
Residence and Dining Income	802,632 402,593 400,039	2,636,499 2,207,209 429,290	503,453 392,783 110,670		
Student Union Income	299,242 508,853 (209,611)	323,847 402,766 (78,919)	202,600 164,280 38,320	2,882 816 2,066	
Bookstore Income Expense Difference	709,434 683,278 26,156	1,068,797 1,041,773 27,024	896,727 810,543 86,184	500,540 486,207 14,333	155,058 140,058 15,000
Intercollegiate Athletics Income Expense Difference	141,519 154,879 (13,360)	401,240 693,918 (292,678)	464,514 5 96,728 (132,214)	429 24,299 (23,870)	9,325 12,530 (3,205)
Airport Income Expense Difference					
OtherIncomeExpenseDifferenceExcess or (Deficiency)	203,224	3,195,595 2,983,944 208,651 293,368	102,960	(7,471)	(11,795)
Allocation: To existing balance or reserve	426,195	664,965	235,174	16,398	15,000
Support out of current general income Support out of previous bal. in same account	222,971	371,597	132,214	23,870	3,205

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Table 17

Wright State

(482,534)338,695 387,790 394,100 482,534 208,956 375,770 1,120,585 3,292 638,051 Ohio U. 4,807,510 4,432,432 2,931,436 131,818 (2,688,176)2,688,176 974,202 3,361,610 285,767 7,495,686 185,931 o.s.u. 394,243) 136,533 383,247 39,250 559,030 394,243 33,117 78,609 52,911 164,787 150 Miami U. (375,518)375,518 368,429 375,518743,947 368,429 State Universities, Academic Year 1966-67 35,636 332,793 Income and Expenditures -- Student Aid þ (27,167)27,167 53,261 35,773 76,379 165,413 22,693 70,784 44,769 138,246 Clev. (84,656)84,656 200 88,955 125,437 214,592Central 1,087 3,244 125,392 129,936 213 (333,695)333,695 333,695 333,695 BGSU To existing balance or reserve Support out of current general income ... Expenditures Excess or (Deficiency) Private Total Income Other Fees Waived Total Other Sources Governmental Scholarships Endowment Expenditures Allocation: Income

(27,456)

27,456

21,339 6,117 27,456

APPENDIX B

Table 18

	Lorain Co. Comm. Coll.	55 0 40,210	40,760	300 3,059 31,214	34,573 6,187	6,187	
	Cuyahoga Comm. Coll.	34,039 35,302	69,901	69,901 7,995	77,896 (7,995)	i C	986',
Income and Expenditures — Student Aid	U. of Toledo			106,006 166,975	272,9 81 (272,981)		272,981
Income and Expenditures — Student Aid	Cin.	166,422 202,281 215,417	584,120	917,092	2.023.677 $2.023.677$ $(1,439.557)$		1,439,557 F
Inc	Municipal University of Akron	33,614 303,154	336,768	207,900 96,346	304,246 32,522	32,522	
	Income	Endowment	Other Sources	Expenditures ScholarshipsFees Waived	1 Expendi	Allocation: To existing bal, or reserve	general income

ro ro

APPENDIX B

Table 19

Instructional and General Expenditures Per Student Main Campus, Academic Year 1966-67

	Bowling Green	Central State	Cleveland State	Kent State	Mismi U.	Ohio State	Ohio U.	Wright State	Cuyahoga Comm. Coll.	Lorain Co. Comm. Coll.
Instruction and General Expenditures (off-campus excluded)	\$13,325,102	\$3,104,912	\$5,763,967	\$18,714,156	\$12,192,557	\$68,255,358	\$20,153,642	\$204,177	\$5,390,560	\$1,820,221
On-Campus Full-Time Equivalent Students	12,353	2,419	5,554	18,217	11,969	41,969	16,135	3,208	6,075	1,983
lotal Expenditures par FTE	1,079	1,284	1,038	1,027	1,019	1,658	1,249	666	887	918
Departmental Instruction	640	577	573	647	652	1,194	751	799	481	524
Instructional Service	29	22	4	58	31	36	53	6	24	•
Libraries	45	19	99	51	53	63	69	76	34	89
Student Services	86	132	73	80	06	57	101	44	104	96
General Expense	29	69	57	49	42	49	62	29	57	83
Plant Operation	155	308	182	, 116	113	200	150	66	127	118
General Administration	82 83	115	81	26	38	69	73	09	09	99

APPENDIX C

Table 20

Financial Report of the Ohio Board of Regents Fiscal Year Ending June 30, 1967

General Revenue Fund Available for Expenditure: Appropr. in H. B. 200 Transferred from 1966		\$383,250.00 25,000.00
Total Available		\$408,250.00
Less Encumbrances:		
Personal Service Staff		
Maintenance Equipment Regents' Professorships Univ. Res. Center Studies Transferred to Lakeland Comm. Coll.	\$103,596.59 57,874.88 484.89 200,000.00 25,000.00 20,000.00	
Total Encumbrances		406,956.36
Unencumbered Balance, June 30, 1967		\$ 1,293.64
Rotary - Higher Education Facilities Act		
Available for Expenditure: Allocation from Federal Government Carried forward from 1966		\$ 38,400.00 1,616.57
Total Available		\$ 40,016.57
Less Encumbrances: Personal Service and Related Benefits Maintenance Equipment	\$ 31,966.39 7,284.92 561.81	
Total Encumbrances		39,813.12
Unencumbered Balance, June 30, 1967		\$ <u>203.45</u>



APPENDIX C Table 20 (continued)

Rotary - Community Service and Continuing Education

Available for Expenditure:		\$350,080.00
Allocation from Federal Government		4000,
Less Encumbrances: Personal Service and Related Benefits	\$ 15,332.77	
Maintenance	2,619.64	
Program Grants	330,932.27	
Total Encumbrances		348,884.68
Unencumbered Balance, June 30, 1967		\$ 1,195.32
Rotary - Technical Services Act		
Available for Expenditure:		¢ 59 094 50
Allocation from Federal Government		\$ 52,924.50 3,444.28
Carried forward from 1966		
Total Available		\$ 56,368.78
Less Encumbrances:		
Personal Service		
Staff and Related Benefits \$1,907.96		
Consultants 15,194.51	\$ 17,102.47	
	2,364.53	
Maintenance	32,809.50	
Program Grants		
Total Encumbrances		<u>52,276.50</u>
Unencumbered Balance, June 30, 1967		\$ 4,092.28
Improvements Fund		
Available for Expenditure:		\$ 8,494.14
Carried forward from 1966		\$ 8,494.14
Less Encumbrances:		6,780.34
Modular Construction - Newark		
		\$ 1,713.80
Unencumbered Balance, June 30, 1967		



APPENDIX D—ADVISORY COMMITTEES TO THE OHIO BOARD OF REGENTS

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Mr. Joseph Cosentino

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