VOLUME IV.

Historical Department, Biennial Report, 1916.
Historical Society, Biennial Report, 1916.
Oil Inspector, Biennial Report, 1916.
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Insurance Department, Annual Report of Commissioner:
- Volume 1—Fire Insurance, 1916.
- Volume 2—Casualty and Miscellaneous, 1916.
- Volume 3—Life and Fraternal Insurance, 1916.

VOLUME VI.

Insurance Department, Annual Report of Commissioner:
- Volume 1—Fire Insurance, 1917.
- Volume 2—Casualty and Miscellaneous, 1917.
- Volume 3—Life and Fraternal Insurance, 1917.

Board of Health, Biennial Report, 1916.

STATE OF IOWA

1916

REPORT OF THE

Iowa State Board of Education

FOR THE

Biennial Period Ending June 30, 1916

State University of Iowa
Iowa State College of Agriculture and Mechanic Arts
Iowa State Teachers College
College for the Blind

FOURTH BIENNIAL REPORT

Published By
THE STATE OF IOWA
Des Moines

IOWA STATE BOARD OF EDUCATION.

D. D. MURPHY, President.....Elkader
W. H. GEMMILL, Secretary.....Des Moines

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J. W. Bowdish.....Des Moines

*Appointed by the Governor since the adjournment of the Thirty-sixth General Assembly.

LETTER OF TRANSMITTAL.

HON. GEORGE W. CLARKE, Governor.

SIR: As provided by law, I herewith submit to you and to the members of the Thirty-seventh General Assembly, the Fourth Biennial Report of the Iowa State Board of Education for the period July 1, 1914, to June 30, 1916. This report contains the observations and conclusions of the Board respecting the State University of Iowa, the Iowa State College of Agriculture and Mechanic Arts, the Iowa State Teachers College, and the College for the Blind. It also contains the reports of the executives of these four educational institutions. Not only do these reports give a complete history of the work of the State Educational Institutions of Higher Learning during the biennium, but they present the needs of the schools for the next two years.

D. D. MURPHY, President.

Des Moines, Iowa, September 30, 1916.

IOWA STATE BOARD OF EDUCATION REPORT

During the last biennial period, each of the state institutions of higher learning has enjoyed a steady growth in development and enrollment. Both of these facts are gratifying and encouraging. High entrance requirements have been maintained; the courses offered have been strengthened materially as well as increased in number; and the work of many departments has been enlarged.

While it is a simple task to show material increase, it is difficult to measure educational development and efficiency. Time alone determines the effectiveness of the work of a college. The large enrollment is, of course, a source of pride and gratification to the people of the state, in so far as it indicates that the curricula, the equipment, and particularly the teachers, are sought on their own account; but growth in numbers should be deplored unless it is accompanied by a proportionate increase in the character of the work done by the students.

During the past two years, the state educational institutions have been free from any disasters. No fires have occurred; no epidemics have affected them, and the health of the student body has been especially good.

The Board is able to report to the Governor and the Legislature that, in general, each of the institutions under its control has made distinct progress. We believe that a better spirit prevails than ever before, and we look forward to a time when personal and institutional pride will be wholly subordinated to the general good.

THE EVER EXPANDING FIELD.

Few individuals, few corporations, few states, accurately anticipate the future. As a rule, what actually happens is greater than anything anticipated. The men who framed the Constitution of the United States looked forward to a country whose remotest frontier would be the Mississippi. Some of the richest sections of our own state to-day were looked upon by the pioneers as forever cut off from markets, and therefore, worthless. If any one had held up before the far-seeing men who founded the University, the State College at Ames and the Teachers College at Cedar Falls, a picture of what these institutions would be, physically and educationally,

in the year 1916, they would have said: "Verily, 'tis a consummation devoutly to be wished, but it can never be." When this Board made up its first legislative budget to be presented to the General Assembly, it looked forward to the time when there would be an end of demand for new buildings and greatly increased appropriations—when, in short, these institutions would be finished as it were. If there had been no expansion of the educational field, this would have come to pass; but we know now that the end is not yet —nor will be.

No longer ago than fifty years, higher education was looked upon as forever for the elect, the very few who looked forward to a professional career. Today, the would-be farmer, merchant and mechanic, no less than the prospective minister, lawyer, doctor and teacher, look forward to a general education along higher lines, supplemented by special training along their particular lines. The college curriculum of a generation ago bears about the same relation to the modern curriculum as the modest bill of fare of a country hotel, where what has been prepared is placed upon the table and the guest bidden to help himself, bears to the elaborate menu of a city hostelry from which the patron can order as many combinations as his taste, aided by his imagination, can suggest.

It is possible that there is some waste in all this, some surplusage, some nonsense; but the fact remains that, taking it all in all, this is in response to a genuine public demand. The people are a unit in the belief that education is one of the functions of the state and that, no matter what private interests may do and offer, that which is done under state auspices must at least keep pace. The growth of the state institutions of higher learning during the last twenty-five years has been remarkable. This fact stands out so clearly that argument is unnecessary. It confronts us at every meeting; it stands out with special significance, not to say insistence, at each recurring session of the General Assembly. We come to you this year, as before, having assumed that it is our duty to consider the needs of these institutions and to bring them to you only after the most careful consideration, having eliminated everything that does not appear in the light of an absolute necessity, provided Iowa is to maintain her place in the educational progress of the period in which we live and strive to do our part.

METHOD OF PRESENTATION.

The Board presents the needs of the institutions under three heads: First, the absolute needs, that is to say, those things that

must be done if the work now being carried on is to be continued without being impaired. In order to accomplish this, there must be some increases in salaries, some increases in administrative expenses, and funds to employ additional teachers. Additional instructional force is made necessary by reason of increased attendance and by the demand for the enlargement of departments already established.

Second, plans for additional departments of instruction and service, plans which should be set on foot and carried forward if Iowa is to keep pace with the work being done in neighboring states. These are presented to the General Assembly on their merits and with our hearty approval.

Third, expenditures which might be put off for a time, but which are inevitable and which it would be true economy to face and meet now rather than to go about it piecemeal. We refer chiefly at this time to the purchase of additional land which the institutions need in part now and must have as a whole in the not distant future, and which will inevitably cost vastly more at a later period than at the present time. This question will be taken up in detail under separate institutional askings.

THE INCREASING COST OF LIVING.

For more than two years the most terrible war that the world has ever witnessed has been waged in Europe, and practically an entire continent is engaged in that titanic struggle. The enormous armies that are contesting every foot of territory, create an unprecedented demand for all kinds of supplies needed by soldiers. American exports of food and clothing, and agricultural and manufactured products for European consumption, are many times larger than they have been at any other time in the commercial history of this country. This exceptional foreign demand during the last two years has caused the price of all commodities to increase greatly. This is especially true of all food products and clothing. As living expenses have increased, wages for both skilled and unskilled laborers in the agricultural and industrial world have also increased. These conditions are well known to every one.

The constantly increasing cost of living is felt keenly by teachers whose incomes are fixed. For some time, it has been almost impossible for many of them to keep the necessary expenses within their incomes. Two years ago many members of the Thirty-sixth General Assembly were assured that the additional appropriations for support for each of the state institutions of higher learning were not

to be used to increase the salaries of members of the instructional staffs. At that time, no one realized that living expenses would be so greatly increased before the close of that biennial period. While many requests for increased salaries have been denied during the last two years, it is evident to every one that the salary scale for members of the instructional staff of the institutions under the control of the Iowa State Board of Education must be increased considerably if this state is to retain the services of many of those teachers. The members of the teaching staff cannot be continually changing without serious detriment to the efficiency of the work.

The prices of all kinds of drugs, chemicals, supplies, apparatus and equipment are much higher than they were two years ago; and during this time the cost of some of these has more than doubled.

If the salaries of the members of the instructional force are to be increased as they should be; if the imperative needs of the institutions are to be met properly, and if high standards are to be maintained, additional appropriations are needed. These are presented in another part of this report.

THE EDUCATIONAL SURVEY.

The State Board of Education recognizes the rapid progress and development in means and methods of education in our own country and throughout the world, and desires that the educational institutions of Iowa shall keep abreast of other institutions of like character in all that has been proved worthy and efficient. Therefore, after advising with the Governor and Executive Council, the Board requested Honorable P. P. Claxton, United States Commissioner of Education, to assemble a commission of educators from various parts of the country and make a survey of three of Iowa's institutions of higher learning, to-wit: The State University, the State College of Agriculture and Mechanic Arts and the State Teachers College. This survey was requested in order that the Board might have the benefit of outside expert opinion in settling important questions of policy which are constantly coming before it for decision; and, further, that there might be erected, by authority so eminent as to command respect and attention, certain educational guide-posts which will, in years to come, prove valuable to the institutions themselves, to the membership of the Board of Education and to the people as a whole. In making this request, the Board followed the example of certain other states which have found such educational surveys of great benefit.

The commission which Mr. Claxton gathered for the Iowa survey was one of unusual strength. Its report has been given to the public. A copy of it has been placed in the hands of each member of the legislature, and it has been distributed quite generally throughout the state. This being true, it would seem unnecessary to incorporate even a synopsis of it in this report. One thing the Board wishes to emphasize, viz.: that so far as the more radical recommendations of the report are concerned, it has no intention of putting such recommendations into effect except as they may win, through their merits, the approval of the educational public and the broad-minded co-operation of the institutions themselves. To do otherwise would be to invite a recurrence of the controversy which was waged so strenuously during the session of the Thirty-fifth General Assembly. Nothing but harm would come from such a recurrence. The educational institutions need to be freed from controversy in order to pursue their several ways diligently and at peace. The Board has already acted formally on one of the commission's recommendations; viz., to request the presidents of the several institutions to sit with the Board at all times. The presidents had always been given to understand that their presence was desired, but now it is formally requested. The Board hopes and believes that the executives of the several institution will co-operate to the end that the vital recommendation of the survey, viz., the adoption of the principle of major and service lines of work, shall be carried out to the letter, both on the campus and in the extension work of each of the institutions.

For the most part, this report is advisory to the Board itself, and is not intended as suggestive of legislation. Most of it does not come within the legislative province. The Board sought this survey in order to get expert advice on some vexed educational problems. It is not intended as a prelude to legislation. The problems on which advice was requested are problems that affect, primarily, those things which must be left very largely to the wisdom of the executive heads of the institutions, and to the governing board. Legislation in educational matters, if it attempts to go much into detail, is apt to be ill-advised. The Board expects, with the co-operation of the executives, to work out, without friction, certain principles laid down by the survey commission.

The Board regrets that the report of the commission could not have been given to the public earlier. It was, however, a United States Government document. It was completed by the commission early in the summer, and the commission hoped to have it published not later than the latter part of June; but the long session of Congress so overloaded the Government printing office, that this, along with other public documents, was delayed.

EXTENSION.

In our report to the Thirty-Sixth General Assembly, we said: "We believe that every laboratory supported by the state can be made to do a direct service to the people at large, and we believe that it is the duty, as well as the opportunity, of the State College of Agriculture and Mechanic Arts, through the medium of short courses in agriculture, home economics and trade school courses in engineering, to render inestimable service to that large body of young men and young women who can not take a four-year college course and who, perhaps, would not be benefited if they did take it. It is the Board's desire that these courses be increased in number and that they be liberalized to such an extent that no young man who can be benefited thereby shall be excluded." It is also the Board's wish, now, that this same principle be applied to the extension service of all of the institutions under its control, and that it be made more personal and more intensive.

The State University has, with legislative sanction, undertaken extension work along lines which naturally fall to this institution. The service rendered by the State Teachers College has met with public approval, and there is insistent demand on the part of the public that this service be extended. We regard as sound the principle governing extension work by the three institutions as laid down by the survey commission, viz., that an institution should be permitted to do extension work only in a major line; and we shall insist that duplication and the consequent confusion and waste incident thereto, shall not be permitted to gain so much as a foothold.

THE EXTENSION SERVICE FOR THE INSTRUCTION AND TRAINING OF TEACHERS.

With the approval of the Thirty-sixth General Assembly, the Board of Education authorized the President of the State Teachers College to undertake the instruction of teachers in service by the organization of Saturday Study Centers in every county in the

state where the county superintendent of schools might be willing to co-operate with the Teachers College, the expenses for the same to be paid from the special appropriation of $19,750.00 granted by the General Assembly. Naturally, there were limitations, because of the small appropriation and the large amount of work that should be done to assist the teachers by this organized effort. The Board is of the opinion that Iowa is conducting a practicable system of extension in these Study Centers, and that it surpasses the undertakings outside the state. By this plan, every county can have the assistance of the faculty of the Iowa State Teachers College in developing a local system of instruction and training that will meet the entire needs of the state for the improvement of the teachers under contract in the public schools. The Board believes that the state can afford to expand this service by increasing the appropriation so that the number of meetings of each study center may be double the number now possible, and so that a traveling faculty of expert instructors in public school work may conduct classes in the cities and towns, in which classes standard credit courses shall be provided and which, in connection with attendance during the summer term, shall enable teachers at work to complete courses and earn diplomas from the Teachers College. The Board approves the recommendation of the President, that branch summer schools of twelve weeks each be organized in the state under the supervision of the Teachers College, such summer schools to be maintained in those counties from which it is most difficult to reach Cedar Falls, the location of these branch summer schools to be changed from year to year. It is recognized that where one hundred or more teachers could thus be assembled under a small faculty of skillful instructors, following a system worked out from experience, notable results could be accomplished at little expense, because the counties thus served would cheerfully contribute buildings and appliances for such service. As a system of extension, it would be limited to those wanting twelve weeks of normal training required by law for admission to the examination for teachers' certificates, and to rural and beginning teachers needing instruction in the subject matter and the methods in the common branches taught in the public schools.

THE RURAL SCHOOL TEACHER IN TRAINING.

It is needless to repeat that the State Board of Education is desirous of helping the many rural school districts of the state by

encouraging the better training of the rural teacher. There is no more complex problem demanding solution in Iowa than the training of special instructors in touch with and in sympathy with rural life and rural occupations. To meet that need, the Board has given hearty support to the organized effort conducted by the State Teachers College in entering into co-operation with seven civil townships in Black Hawk County to demonstrate what can be done for the uplift and the development of rural education. Two of these seven townships are organized as school townships, with nineteen schools, and with an expert head teacher in each township, who supervises the other teachers in the employ of the township school board; each of two other townships is a consolidated school district with a fine modern school building; and the three remaining townships have sixteen demonstration schools in which the candidates for graduation from the Rural Teachers' Course do their teaching, assist in conducting social center meetings and get acquainted with rural school problems and undertakings. The development of this work and the interest of the people in it, the success attained in the training of teachers willing to devote themselves permanently to the rural school field, and the enthusiasm of the members of the faculty in charge of this special part of the work of the Teachers College, have brought results faster and better than the Board of Education had expected them to be accomplished. It is believed that several demonstration schools should be organized in each county in Iowa, such work to be under the supervision of the Teachers College, so that the benefits secured in Black Hawk County may become the benefit of every part of Iowa. The experience in Black Hawk County shows that the rural school, if properly conducted and supported, can become as good an elementary school as civilization demands. The rural school of fifty years ago needs rejuvenation and enlargement of scope in order to meet the demands of the present day. Too many school districts have failed to recognize that there has been as much progress in education as there has been in commerce, transportation and agriculture, and hence are disappointed in what their schools are accomplishing for the children and youth. If the State Board of Education can do anything to give every child in Iowa a good, effective teacher, it will establish a record for public service that it recognizes as first in importance to the commonwealth. For these reasons, the Board commends this service to the people of the state as being worthy of co-operative endorsement.

THE COLLEGE FOR THE BLIND.

This institution continues to do its appointed work in a most satisfactory manner. The teachers and officers are to be commended for their unselfish devotion to duty. Of necessity, they spend most of their waking hours with these unfortunate pupils; and in so doing, they give themselves to their work as few do anywhere. We would fain ask an additional building at this institution mentioned in our last report, viz., a kindergarten building, but have decided to defer this request until another time.

We wish to repeat and emphasize a paragraph from our Third Biennial Report. We would again call attention to the imperative need for some action which would bring before the public in the most forcible manner the methods that should be everywhere understood and employed for the prevention of blindness. It is a sad fact that a considerable portion of blindness might have been prevented if, first, doctors and midwives had done their duty when the child was born; and, second, if proper care had been exercised when accidents happened to the eye. The eyes of every child, irrespective of who its parents may be, should be treated at birth in such a manner as to insure against ophthalmia neonatorum. The process is very simple and could be administered by inexperienced persons if they simply knew what to use and how to use it. A second and more prolific cause of blindness is sympathetic ophthalmia, which means the loss of vision in an uninjured eye through sympathy with one that has been injured. A general knowledge of a few simple facts would reduce a large percentage of this most pitiful affliction. Whatever can be done through statutory enactment should be attempted.

PERSONAL SUPERVISION OF STUDENTS.

In each recurring report, we have sought to emphasize the obligation which has been acknowledged from the beginning in the matter of the care of individual student needs. Each year has shown progress in this direction, the health of the students, both men and women, being looked after more carefully and more systematically than ever before; and it is the intention of the Board to perfect this service as rapidly as possible. One of the greatest means to this end is the establishment of dormitories. When the Board of Education took over these institutions, there was but one dormitory, viz., Margaret Hall at Ames. This institution has been supplemented at the State College of Agriculture and Mechanic

Arts by two additional dormitories, and the contract for a third has just been let. At Cedar Falls, they are taking care of approximately 130 girls in a new fireproof and well-appointed dormitory, and by next fall this institution will be able to take care of 195 more girls. Pressing need in other directions at the University has prevented any additions to Currier Hall. This is a matter of regret, for the Board is thoroughly convinced that we ought to proceed in this dormitory matter until facilities are provided for all the young women dependent upon our institutions, and that we should then proceed to provide dormitories for men, sufficient at least to take care of the freshmen, and compel male students to live in these dormitories during their freshman year. In no other way can the health of the student be so systematically looked after. In no other way can he be started more surely aright, both in methods of living and habits of study. This whole matter was thoroughly set out and discussed in our report to the Thirty-sixth General Assembly, and we would respectfully call attention thereto.

PERKINS LAW.

The Thirty-sixth General Assembly enacted a measure of far-reaching importance and beneficence when it passed the act popularly known as the Perkins Law, which provides for treatment, at public expense, of any child less than sixteen years old who is suffering from a deformity or malady which can probably be helped by medical or surgical treatment and hospital care, and whose parents are not able to provide such treatment. Recognizing the obligation imposed by the enactment of this statute, the Board of Education set about providing the proper facilities for taking care of these children in a thoroughly scientific manner. In the statute, the Hospital of the College of Medicine at the State University is designated as the place where the treatment provided for is to be given; and there has been added to the faculty of the College of Medicine one of the most skillful orthopedic surgeons in America, also a specialist in the diseases of children. An expert brace-maker has been employed to make the apparatus which is needed in the treatment of deformities, and a special orthopedic gymnasium has been installed and equipped with the most modern appliances. During the period covered by this report, namely from July 1, 1915, to July 1, 1916, treatment was given in 195 orthopedic cases and in 96 other cases coming within the scope of the statute. With only one exception, the patients so treated have received signal benefit, and

many have been almost, if not quite, made whole. Every section of the state has taken advantage of the provisions of this act. At this writing, only four counties are unrepresented in this department of the hospital. This work appeals to the hearts of our people as few things can appeal. It is wise from every standpoint, not less from the economic than from the humanitarian point of view. The children are given every possible attention. Under the direction of the Department of Education at the University, a school is maintained in the hospital so that these little unfortunates may not lose any of their educational opportunities while being treated. The State Board of Education is grateful to the state for having placed this beneficent and ennobling work in its hands.

NEW BUILDINGS.

Since July 1, 1914, the following buildings have been constructed at the state educational institutions:

STATE UNIVERSITY.

Nurses' Home.
Women's Gymnasium.
Men's Gymnasium.
Dental Building (under construction).
Isolation Hospital (under construction).

IOWA STATE COLLEGE OF AGRICULTURE AND MECHANIC ARTS.

Dormitory for Women (West Hall).
Dormitory for Women (East Hall) (under construction).
Plant Propagation Building.
Science Building (under construction).

IOWA STATE TEACHERS COLLEGE.

Dormitory for Women (Bartlett Hall).
Dormitory for Women (under construction).
Vocational Building (under construction).

COLLEGE FOR THE BLIND.

Barn.

NEEDS OF THE STATE EDUCATIONAL INSTITUTIONS.

The needs of large and growing educational institutions are many, and it is impossible to summarize them in a few words. When the Board considers these needs, some of which are urgent, the important questions to decide are: What must be done first? In what direction is immediate development to be made? What buildings

shall be erected first? At both the State University and the Iowa State College a library and an auditorium should be built at once. These are greatly needed. Such buildings cost considerable money and when completed they must be equipped and maintained. The State Board of Education has given careful consideration to the need for additional buildings, and the Thirty-seventh General Assembly will be requested to approve plans and specifications for buildings to be erected during the next biennium, or as soon as funds are available.

Previous biennial reports show what buildings have been erected out of the proceeds of the millage tax and the appropriations for new buildings. Practically every building constructed out of these funds is fireproof, and all are substantial and scientifically adapted to the purposes for which they were erected. The style of architecture adopted for all new buildings is simple, dignified and appropriate. The lighting is especially good and increases materially the educational efficiency of laboratory, lecture and class rooms. While ornamentation and decoration have been reduced to the minimum, the buildings are beautiful, harmonious and impressive. There has been no false economy.

If the building plans that have been approved by the Iowa State Board of Education are to be continued, new appropriations for such purposes must be granted by the Thirty-seventh General Assembly. Past experience proves that the comprehensive building plans of the Board can be carried out more definitely and better when the general assembly makes appropriations for buildings for a longer period than two years, and the Board suggests the following appropriations, to become effective July 1, 1917:

State University	$150,000.00 annually.
Iowa State College	$150,000.00 annually.
Iowa State Teachers College	$ 75,000.00 annually

SUMMARY OF APPROPRIATIONS RECOMMENDED

STATE UNIVERSITY OF IOWA.

I. ABSOLUTE NEEDS.

A. *Increase of Maintenance Appropriations—Annual.*

1. Colleges of Liberal Arts, Applied Science, Law, Pharmarcy, Medicine and Homeopathic Medicine	$110,000.00
2. College of Dentistry	10,000.00
3. College of Education	10,000.00
4. Graduate College	20,000.00
5. College of Fine Arts	5,000.00
6. Summer School	4,000.00
7. Equipment and Supplies	3,500.00
8. Repair and Contingent	8,500.00
9. Department of Buildings and Grounds	8,500.00
10. Administration	8,000.00
11. Library	12,500.00
Total Increase Annually	$200,000.00

B. *Special Appropriations for the Biennium 1917-1919.*

1. Equipment of buildings and buildings partially equipped	$150,000.00
2. Paving, sidewalks and sewers	20,000.00
3. Purchase of land	125,000.00
Total for the Biennium	$295,000.00

II. FOR ENLARGING THE SCOPE OF THE INSTITUTION—DESIRABLE.

C. *Increase of Appropriations—Annual.*

1. University Extension	$25,000.00
2. School of Commerce	25,000.00
Total Increase Annually	$50,000.00

III. FOR ADDITIONAL LAND—DESIRABLE.

D. *pecial Appropriation for the Biennium 1917-1919.*

Purchase of Land	$ 30,000.00

BRIEF ARGUMENT IN SUPPORT OF RECOMMENDATIONS FOR APPROPRIATIONS.

A. *Increase of Maintenance Appropriations, Beginning July 1, 1917—Annual.*

1. Colleges of Liberal Arts, Applied Science, Law, Pharmacy, Medicine and Homeopathic Medicine.....$110,000.00

There is at present a separate appropriation of $68,350 for the Colleges of Liberal Arts, Applied Science, Law, Pharmacy, Medicine, and Homeopathic Medicine. An increase of $110,000 is requested, which will be distributed approximately as follows:

a. COLLEGE OF LIBERAL ARTS.....$80,500.00

The largest part of the increase asked, it will be seen, goes to the College of Liberal Arts. The reason for this is plain when it is remembered that this college is larger by some 1,200 students than any other college on the campus. It follows that the faculty, also, is correspondingly larger than that of any other college. Over half the students at the University are in the College of Liberal Arts, preparing for business or teaching, or for some professional work. Two years in the college are now required for entrance to law and medicine, and one year is required for entrance to dentistry. After students have completed their preliminary work, and are in one of the professional schools, they still call upon the College of Liberal Arts to furnish instruction in such subjects as English, foreign language, chemistry, physics and mathematics. In addition to its primary function of providing a general education, this college is therefore in the position of a service department, also.

Owing to the peculiar position outlined above, the College of Liberal Arts is affected, more directly than any other part of University work, by increases in attendance. Since 1912 the University registration has increased by 40 per cent; in the same time registration in this college has grown from 1,074 to 1,502. The faculty has been, by no means, increased proportionately, and the salaries of our present staff have remained below the level now maintained at other institutions of its kind in the Middle West.

For the reasons thus briefly stated, it will be imperative that approximately $80,000 be spent in strengthening the College of Liberal Arts. Of this sum, considerably more than half will be utilized to provide additional members of the teaching staff to take care of our rapidly increasing enrollment. The remainder will be used for certain increases in salaries, which will be necessary to provide more satisfactory conditions of service for the state.

b. COLLEGE OF APPLIED SCIENCE.....$8,000.00

In the College of Applied Science, an increase of $8,000 will make it possible for us to hold a number of men whose salaries are now below standard. Most of the members of this faculty are men of considerable

practical experience, as well as specialists in particular branches of engineering. Such men are often willing, on account of their attraction to the teaching side of the profession, to sacrifice a large part of the financial advantage which the practicing engineer enjoys. But we should be able to pay these men salaries which will enable them to live in better circumstances. Several of our instructors are receiving salaries as low as $800 a year. The policy of the College of Applied Science has been to choose comparatively young men and to keep them only as they have shown a marked ability to go forward. The heads of departments have arrived at that maturity and experience which warrants the payment to them of salaries commensurate with their professional standing. The younger men must be encouraged by advancement or we shall have to lose them. We can not be continually changing our instructional staff without detriment to the efficiency of our teaching.

c. COLLEGE OF LAW.....$8,000.00

An increase of $8,000 will be used for similar purposes in the College of Law. The number of lawyers who are qualified and willing to enter the teaching of law, relative to the demands for law teachers, is so few that competition has been becoming increasingly keen. The result has been a marked increase in the salaries of such teachers. We are already behind Wisconsin and Chicago, and we must meet this competition or confess ourselves content to be second-rate. The readjustment of work in the law school also makes necessary the addition of another teacher. This man should be one of experience, scholarship and teaching ability.

d. COLLEGE OF MEDICINE.....$11,000.00.

An increase of $11,000 is proposed for the College of Medicine. Our medical college is now in the front rank of such institutions. We have built up here, within the last few years, a faculty whose members are devoting their whole lives to the training of physicians and surgeons. These men do not receive, for the most part, large salaries; and during the coming biennium scarcely any of them have asked to have their salaries increased. They have done this in the hope that whatever additional funds may be secured should be devoted to the addition of a few specialists who are now almost indispensable for the further development of our work. We propose to add, during the next two years, some instruction in hygiene and public health, an important field which we have not yet entered. Other new and necessary work will be undertaken in a small way. A part of the increase will also be devoted to the stimulation of research, upon which the standing of the college largely depends.

e. COLLEGE OF HOMEOPATHIC MEDICINE.....$500.00

Slight increases in the departmental supply budgets will absorb the proposed addition of $500 in the budget of the College of Homeopathic Medicine.

f. COLLEGE OF PHARMACY.....$2,000.00.

The additional $2,000 requested for the College of Pharmacy will permit some increases in salaries and, also, will meet the rapid rise in the price of drugs and chemicals

2. College of Dentistry.....$10,000.00

An increase of $10,000 is asked for the College of Dentistry. Of this amount, approximately $8,000 will be used to provide new members of the instructional staff. New teachers have become necessary chiefly for four reasons: (1) increase in attendance; (2) re-adjustment of courses incident to the establishment of a four-year course; (3) re-adjustment of instructional service when the new building is occupied; and (4) the establishment of a department of preventive dentistry.

The first three of these reasons need little further explanation. We have been compelled to limit registration for the last two or three years, because we have not had facilities to take care of more than a certain number of students. Each year prospective students have gone to other institutions for the training which should have been given them here. In 1917 we shall enter upon our new course, which is lengthened from three years to four; and in the same year we shall, it is hoped, go into the new building now under construction.

The establishment of a department of preventive dentistry, perhaps, should be more fully explained. Up to the present time, little work has been done in this field. But the attitude of educators is rapidly beginning to change, and it is now seen that the possibilities of this work are almost unlimited. Many of the infectious diseases of childhood are incubated in the mouth containing decayed teeth, stagnant saliva, and decomposed food. The scope of the new instruction will include: (1) lectures and demonstrations on oral hygiene, prophylaxis, and the prevention of oral diseases; and (2) the organization of a system of instruction by lectures and lantern exhibits. This would be brought to the attention of school-boards, teachers and municipal authorities.

3. College of Education.....$10,000.00

Most of the proposed increase in the budget of the College of Education will be expended in enlarging and improving the work now being done in the experimental schools. This work has proved extremely valuable; indeed, it is indispensable to modern methods of training high school teachers, principals, supervisors and superintendents. As yet, however, we have made but a beginning. At the earliest possible moment we should have a complete practice school, extending from the lowest grades to the high school.

The opinion of the Survey Commission on this subject is significant: "Certainly the more advanced forms of training for teachers, and especially for superintendents and supervisors who are to go into the higher branches of work in the state, ought chiefly to be provided for at the State University. * * * There is decided need for a proper practice school at the university. As a makeshift the present arrangements may be accepted for a time, but they lack stability, and are imperfect in many essential particulars. The state can hardly justify a policy which involves doing poorly a thing that, if done at all, ought to be done supremely well. No informed person can doubt that this practice teaching work ought to be done, and it is to the interest of every community in the state that it be done in the best possible manner."

4. Graduate College $20,000.00

It is requested that $20,000 be added to the present budget of the Graduate College. In consideration of this request, it should be remembered that the present budget is totally inadequate and that therefore no weight should be given to the comparison of present figures and appropriations asked. Under our present financial restrictions, we have been able to undertake graduate work only in the College of Liberal Arts, and, in a small way, in the College of Medicine. We need at once to extend this work to the Colleges of Applied Science, Dentistry, Law and Pharmacy. Such a policy is exactly in line with the recommendation of the Survey Commission, which states that graduate work should be carried on here with ever-increasing breadth and efficiency.

The appropriation will provide: (1) Technicians, associates, assistants and helpers who will do the routine work often necessary to a piece of research, but which can be done by a skilled assistant at but a fraction of the cost; (2) additional fellows and scholars; (3) additional specialized pieces of apparatus, books, specimens and instruments; and (4) lectures by eminent men in the various fields of learning.

5. College of Fine Arts.....$5,000.00

An increase of $5,000 is asked for the work in fine arts. This amount will be used to improve conditions in the School of Music and in the Department of Graphic & Plastic Arts. At the present time, teachers of music, though giving courses for which students receive university credit, are paid no salaries by the institution. Their only income is from the tuitions they receive from private pupils. This policy is an indefensible one for a state institution to follow. There is a real demand here for instruction in music, among students of the university. If we are to supply this demand at all, we should not be content to allow the present arrangement to continue.

In the department of graphic and plastic arts, additional instruction is needed to care for students in free-hand drawing and design. The work in this department is constantly growing in popularity and usefulness.

6. Summer Session $4,000.00

A small increase of $4,000 is asked in the appropriation for summer work. With these funds, we hope to be able to extend our instruction to other fields than those of education and liberal arts. A small step toward enlarging the scope of the work was taken last summer, when courses for medical men were offered in the Department of Anatomy. We should be prepared to make additional offerings.

7. Equipment and Supplies.....$3,500.00

An increase of $3,500 is asked in the appropriation to provide equipment and supplies for various departments and colleges of the university not otherwise taken care of. As the work of the university grows, it is evident that the fund for this purpose must be increased to meet the demand. The amount asked will hardly provide the things which are absolutely necessary.

8. Repair and Contingent Fund.....$8,500.00

The present annual appropriation for repairs and contingent expenses should be increased by the addition of at least $8,500, which would make the fund $43,500. This is considerably less than 2 per cent on the valuation of our buildings, and the Survey Commission recommends an amount of at least that much. It costs a great deal to keep our buildings in the best of condition; and the amount available in the past has not been adequate to do this and also to care for the contingencies which constantly arise.

It is also requested that this increase be made available on July 1, 1917, and thereafter annually on the same date. This request is made because much of our repair work must necessarily be done during the summer, when university classes are not in session. The present system of monthly installments does not permit this to be done.

9. Department of Buildings and Grounds $8,500.00

An increase of $8,500 is asked in the appropriation for the Department of Buildings and Grounds. This additional money is needed to meet the increase in cost of maintenance of buildings and grounds, from the standpoint of heat, water, light, power, laundry and many other things. With the opening of the year, we shall occupy two new buildings, which will increase our expenditures for all these items. Our janitor service is much underpaid, also. We should attempt to pay these men a wage which will enable them to live in better circumstances.

10. Administration $8,000.00

An increase of $8,000 in the appropriation for administrative service is requested. This will be apportioned among various offices of the university which are now inadequately equipped for the proper care of institutional business. The offices of the president, the secretary, the registrar, the dean of women, the adviser of men, and others, should be provided with more assistance in order to keep the business efficiency of the institution up to standard, in the face of the increase in complexity of the plant.

11. Library $12,500.00

An increase of $12,500 in the fund for the purchase of books and periodicals is asked. The present amount was made $17,500 in the year 1911-12, when the enrollment of the university was 2,090. There has been no increase since that time, despite the fact that our enrollment has increased over 50 per cent. The creation of new departments and courses, and the enlargement of departments already established, also has its effect upon the library. More and more, modern education is tending to use the method of library assignments and references. More and more, the library is becoming a laboratory.

B. *Special Appropriations for the Biennium, Beginning July 1, 1917.*

1. Equipment of Buildings and Buildings Partially Equipped $150,000.00

Special askings for equipment are made in the total amount of $150,000. This will be distributed somewhat as follows:

a. LABORATORY OF INDUSTRIAL CHEMISTRY.....$6,250
b. LABORATORY OF METALLURGICAL CHEMISTRY..... 6,250

$12,500

For the two chemical laboratories, a combined asking of $12,500 is set out. The necessity for chemists in modern manufacturing is rapidly becoming recognized, and we have more and more demands for young men trained in that line. Although Iowa is not primarily a manufacturing state, it has industries requiring chemical knowledge, and many others should be developed, and can be developed, by the use of Iowa products. The university should also train municipal chemists, milk and food inspectors, men who are capable of checking up gas, water and other public utilities to safeguard the right of the people to good service.

The teaching of metallurgical chemistry in a satisfactory manner is of vital importance to successful work in dentistry. Much research work of value would undoubtedly be developed, also, if the facilities were at hand.

c. EQUIPMENT FOR PHYSICS LABORATORIES.....$4,000

At the time the department of physics entered its new building, it was thought best to provide equipment by adding small amounts each year, as the need arose. The request of $4,000 will simply permit the continuance of this policy.

d. HYDRAULIC TESTING CANAL AND POWER STATION $15,000

An appropriation of $15,000 is requested for the completion of the hydraulic testing canal and power station at the university dam. Part of this canal has already been built. It is estimated that to finish the construction of the station and canal will cost approximately $12,000. The equipment will consist of water-wheels, dynamometers, pumps, motors, chemicals, gauges, and so on, and will cost about $3,000. The completion of this station will provide the university with one of the few places in the country where such testing can be done.

e. EQUIPMENT, COLLEGES OF LIBERAL ARTS AND LAW..$6,000.

An appropriation of $6,000 is asked for equipment in the Colleges of Liberal Arts and Law. This will be devoted toward meeting the calls which continually come from many departments for small amounts to be used in the purchase of equipment and supplies.

f. EQUIPMENT, COLLEGE OF APPLIED SCIENCE.....$5,000.

An appropriation of $5,000 is asked for equipment in the College of Applied Science. This sum will be used for the purchase of special equipment in electrical engineering and mechanical engineering and for much-needed steel lockers in the engineering building.

g. EQUIPMENT, COLLEGE OF MEDICINE.....$5,000.

An appropriation of $5,000 is requested for equipment in the College of Medicine. This will be utilized to increase the supply of budgets of de-

partments in this college. Drugs and chemicals have greatly advanced in price, and it is necessary that our funds for this purpose be enlarged.

h. EQUIPMENT, COLLEGES OF PHARMACY AND EDUCATION $2,000.

An appropriation of $2,000 is requested for equipment in the Colleges of Pharmacy and Education. In the former college considerable laboratory equipment is needed; and the College of Education should have better equipment for its experimental schools.

i. HOSPITAL LAUNDRY EQUIPMENT.....$3,000.

A new mangle is needed in the University Hospital laundry; it will cost $3,000. Our present machine is worn out and is also too small for the increasing amount of work which we are called upon to do.

j. HEATING PLANT EQUIPMENT.....$11,000.

A request for $11,000 for equipping the university heating plant is made. The installation of new equipment is now absolutely necessary in order to handle properly the heating of the new buildings which are being added. We need one 355-horse-power boiler, costing about $6,400, and some new coal and ash-handling machinery, which will cost about $5,000.

k. ELECTRICAL EQUIPMENT .....$11,000.

Another appropriation of $11,000 is requested for the purchase of electrical equipment. With the completion of the new dental building, we shall require a large additional amount of electrical power; and in order to give the university constant and reliable service another engine and dynamo are needed. Our responsibility in this connection is especially great on account of the University Hospital, which must be served both promptly and well. The amount requested is the estimated cost of a 312-kilowatt Corliss engine, including installation.

l. COMPLETION OF WATER SYSTEM.....$3,000.

Our water system should be completed by the purchase of a centrifugal motor and pump. This will cost $3,000.

m. HYDRO-ELECTRIC PLANT EQUIPMENT .....$5,000.

It is very necessary, if we are to continue the efficient operation of our water plant, that a suitable fore-bay be constructed. For this improvement, an appropriation of $5,000 is requested.

n. EQUIPMENT FOR NEW DENTAL BUILDING.....$67,500.

An appropriation of $67,500 is requested to provide proper equipment for the new dental building. As the matter now stands, there has been absolutely no provision made for the equipment of this building, and unless speedy action is taken, we shall not be able to move into the new building at the opening of next year. The cost of new equipment was first estimated at $80,000, but, by planning to use the old equipment and by deferring the furnishing of some of the laboratories, we have reduced the figure to $67,500. The equipment requested will consist of dental chairs and all their furnishings, laboratory benches, instruments, and

furniture of all kinds. The list has been reduced to items which are actually needed for proper instruction; without them we can not begin work in the new building.

2. Paving, Sidewalks and Sewers.....$20,000.00

An appropriation of $20,000 is asked for the construction of paving, sidewalks and sewers. The building of the two new bridges across the Iowa river will necessitate considerable paving, in order that the roads to the bridges may be suitable for the expected traffic. Certain sidewalks, also, will need to be constructed.

The university faces a serious problem in this connection, because the rainwater from our buildings frequently causes floods in the basements of houses on Madison Street. The construction of the two swimming pools has, of course, aggravated the problem. To remedy this condition, the city has proposed the construction of a new and larger storm sewer, the expense of which should be borne jointly by the city and the university.

3. Purchase of Land.....$125,000.00

For the purchase of land, $125,000 is requested. This will enable us to make progress toward following out the plan of campus development laid out ten years ago by Olmsted Brothers, landscape architects. The first acquisition should be the land on the east bank of the Iowa river and north of the present athletic field and men's gymnasium. Such a purchase would provide much-needed playgrounds both for men and for women.

Land must be purchased as sites for the new Botany and Geology building and for a library building. A part of this appropriation will be used in buying land on the hills west of the Iowa River, a step recommended by different landscape architects a number of years ago. There is little doubt that, sooner or later, the University must acquire this land. The property has, as yet, been relatively undeveloped as far as the building of homes is concerned; but within the next few years it is sure to be occupied by residences. If the state waits until that time to make the purchase, it will be asked to pay a great deal more than the land would now cost. The opportunity which now presents itself will never come again.

C. *Increase of Appropriations—Annual.*

1. University Extension $25,000.00

An addition of $25,000 is asked in the present appropriation for the Extension Division. The only new line which is being planned is the extension of public health. The increase asked is due to the fact that more men and more material are needed with which to carry on the present lines of work.

It is necessary that additional men be employed in the field of business extension to answer the constantly increasing number of calls for service from this division. Our work in educational service has also grown to such an extent that it is necessary to provide an assistant. We should have a man who has had experience in visual instruction of all kinds to

continue our organization of lantern slides, in order that the present high standard may be maintained.

From the present outlook, it would seem that it will be necessary to place some one in direct charge of correspondence study work, as the indications clearly point to the work's assuming such proportions that the present force will not be able to handle it. One man is also needed to take charge of study center work with high school teachers, principals and superintendents. This is in answer to a direct demand made upon the Extension Division and the College of Education during the last two years for the organization of work of this kind. The College of Education has sent its men out for work of this nature, but the calls are so numerous that we should have a man whose special duty it is to take charge of the work.

It is also requested that a man be employed to do extension work in public health. His duties would be to give public lectures on various phases of the subject, to give personal instruction to health officers taking correspondence courses, to conduct public health exhibits, and to give first-aid demonstrations. An item for traveling expenses for extension work in preventive dentistry should also be provided.

Additional funds should permit the enlargement of our line of publications. We should be able to print bulletins on preventive medicine, hygiene, dentistry, and so on.

As the work of the division increases, the administrative force must also be enlarged, and a small increase will be used for this purpose.

2. School of Commerce.....$25,000.00

A special request of $25,000 is made for the maintenance of a school of commerce. This request is made after a good deal of investigation, the result of which shows conclusively that there is actually a distinct demand in Iowa for such training.

The enrollment in the Department of Economics, Sociology, and Commerce is now 1,105, an increase of more than 100 per cent over the registration of 1912-13. There are now in the freshman class 73 people who intend definitely to prepare themselves for business and commerce. This is larger than the number of freshmen in any professional college of the university, except dentistry. More graduates of the College of Liberal Arts enter business than any other vocation except teaching. At Northwestern University, the school of commerce is supported by a budget of $62,000; and at the University of Illinois, the budget is $60,000. The enrollment at the latter institution is 715, an increase of 23% over last year; while there are at the University of Iowa now 420 students who are majoring in commercial subjects alone.

We should expect to develop here, first of all, instruction in transportation, business administration, advertising, salesmanship, accounting, statistics, and marketing. These are all lines which have been tested by other institutions, and found necessary in the curriculum of a complete school of commerce.

When this training is provided in Iowa, we shall no longer be compelled to send young men from our cities to Wisconsin, Illinois, and elsewhere, for their business education.

D. *Special Appropriation for the Biennium, Beginning July 1, 1917.*

1. Purchase of Land $30,000.00

For the purchase of additional land, $30,000.00 is requested. This will enable us to buy some land lying between the campus and the Iowa River, which will be needed within a few years. While this expenditure can be deferred for some time, it would be true economy to purchase the property now, as the land can be bought at a reasonable price.

IOWA STATE COLLEGE OF AGRICULTURE AND MECHANIC ARTS.

I. ABSOLUTE NEEDS.

A. *Increase of Maintenance Appropriations—Annual.*

1. Permanent Collegiate Support Fund	$ 98,000.00
2. Summer Session	5,000.00
3. Sub-Collegiate Courses in Agriculture, Home Economics and Engineering	3,000.00
4. Contingent Fund, Repairs and Minor Improvements	4,000.00
5. Library, Books and Periodicals	10,000.00
6. Maintenance and Improvement of Public Grounds	5,000.00
Total Increase Annually	$125,000.00

B. *Special Appropriations for the Biennium 1917-1919.*

1. Equipment and Furnishings for Buildings and Departments	$175,000.00
2. Enlargement of Buildings and Small Additional Buildings	15,000.00
3. Extension of Heating System and Equipment of Heating Plant	25,000.00
4. Sewer Construction	30,000.00
5. Repairs and Improvements of Stock Barns, Judging Pavilions and Fences	5,000.00
Total for Biennium	$250,000.00

II. FOR ENLARGING THE SCOPE OF THE INSTITUTION—DESIRABLE.

C. *Increase of Appropriation for Industrial Service Work—Annual.*

Soil Survey.....$50,000.00

III. FOR ADDITIONAL LAND—DESIRABLE.

D. *Special Appropriations for the Biennium 1917-1919.*

1. Animal Husbandry Farm and Equipment	$ 75,000.00
2. Additional Property near the Campus	45,250.00
3. Patten Property	10,000.00
Total for the Biennium	$130,250.00

BRIEF ARGUMENT IN SUPPORT OF RECOMMENDATIONS FOR APPROPRIATIONS.

A. *Increase of Maintenance Appropriations, Beginning July 1, 1917—Annual.*

1. Permanent Collegiate Support Fund.....$98,000.00

The necessity for this asking is due to the following:

1. The increasing number of students.
2. The increasing cost of living.
3. Competition from other institutions.
4. The continued development of the sciences and their application to the industries.
5. Fuel, light and janitor service.

The student enrollment in courses extending throughout the full college year increased from 1,800 in 1911-12 to 2,878 in 1915-16, more than 1,000 in four years. Although some additional teachers have been appointed, the faculty needs much more relief along this line. Without more help, the present teachers cannot do their best work. Official reports show that they are overworked.

The increasing cost of living falls heavily upon teachers whose income is fixed. It is now almost impossible for many teachers to keep their necessary expenses within their incomes. Two years ago it was announced that there should be no general increase of salaries, and increases have been restricted as far as possible. As a rule, such increases as have been allowed have been very small. There have been many resignations on account of small salaries. In one department having twelve teachers, only three have been in service here over two years. The changes have been due to better inducements offered elsewhere. During the biennium twenty-eight professors resigned, besides about sixty teachers of lower rank. The effect of so many changes is very serious.

Other institutions pay as much as $1,000 a year more than is paid at Iowa State College for positions of certain grades. Even high schools frequently offer better inducements than this college can hold out.

The scope of instruction in a technical institution must continually widen to keep up with the developments of science. At the present time there is necessity for the establishing of new branches of work at this college, and for the strengthening of others, including the science of breeding, nutrition, chemical engineering and business methods as related to the industries. It should be remembered that the cost of such instruction ranks high as compared with most university or college work.

As new buildings are erected to accommodate the larger student enrollment fuel, light and janitor service cost more, and this increase is emphasized by the increasing cost of supplies and labor.

The amount here recommended as an increase would provide for only a very small percentage of increase in the salaries of the present teachers; it would permit the employment of about one additional teacher for each twenty on the staff; and it would provide for additional departmental expenses, including an item of about $17,000 for fuel, light and janitor service.

2. Summer Session.....$5,000.00

The Summer Session enables the state to keep its equipment in use during a long period when otherwise most of it would be inactive. This session accommodates a growing number of students, many of whom are unable to attend college during the winter season. It is serving an especially valuable purpose in assisting school teachers to prepare themselves to teach industrial subjects.

3. Sub-Collegiate Courses in Agriculture, Home Economics and Engineering $3,000.00

These courses are serving a large group of young people who are denied or who do not care for the regular college courses. The environment furnished by the college is worth a great deal to the non-collegiate courses, which are better developed and better equipped than would be possible at any separate institution. These courses should be made better known throughout the state.

4. Contingent Fund, Repairs and Minor Improvements.....$4,000.00

On account of the increased extent and value of the physical plant of the institution, an increase is especially needed for the contingent fund. Furthermore, it is impossible to foretell what contingencies might arise in connection with a plant of this size.

5. Library, Books and Periodicals.....$10,000.00

It has been impossible to keep up even with current scientific literature. Larger appropriations are needed for book purchases. Members of the faculty, research students and other experts are greatly handicapped in their investigations for want of reports upon corresponding work at other places in this country and in foreign countries. Considerable money is now expended for postage on books that are borrowed from other libraries. This borrowing is attended by delays, and, too often, by the necessity of immediately returning the volume. It has been pointed out that money expended for reference books is an economy because it enables investigators to learn quickly and accurately of experiments elsewhere, and thus it saves the time and expense which would be lost in duplicating the experiments. It is felt that the additional asking for books is very modest.

6. Maintenance and improvement of Public Grounds.....$5,000.00

Additional funds are needed to care for a larger area which is due to the location of certain new buildings; to take better care of exercise grounds for the student body; and to make numerous improvements, such as concrete sidewalks, rain water disposal, etc.

B. *Special Appropriations for the Biennium, Beginning July 1, 1917.*

1. Equipment and Furnishings for Buildings and Departments $175,000.00

For a long time, several large branches of the college have been deficient in equipment because the purchases have cared for only the most

pressing needs arising from the increased enrollment in classes. Considerable scientific equipment, such as is commonly found in the best technical institutions, should be purchased. Additional live stock is needed to furnish the essentials for maintaining representatives of various breeds which are especially needed in the stock judging classes.

The new Chemistry Building is only partly equipped, the Board having adopted the policy of furnishing this building through the aid of annual allotments. The physics department, the veterinary department and some of the agricultural departments are particularly deficient in equipment.

It will also be necessary to provide equipment for new buildings authorized, but not yet constructed. The need for equipment is much larger than the sum asked for.

2. Enlargement of Buildings and small additional buildings. $15,000.00

Numerous small buildings are needed on farms and campus as given below. At least $50,000 could be used advantageously for these buildings, but with the amount named the most pressing needs could be partially cared for. Among the buildings in this list are the following:

Cottages for foremen and laborers	$15,000.00
Machinery Shed for Farm Department	1,500.00
Botany Laboratory and Greenhouse	4,000.00
Mining Engineering Laboratory	7,000.00
Home Economics Practice House	6,000.00
Isolation Ward	6,000.00
Machinery Shed for Grounds Department	2,000.00
Agronomy Farm Building	5,000.00

3. Extension of Heating System and Equipment of Heating Plant $25,000.00

A new generator is needed for the heating plant, because of increased demands for electric current in shops and laboratories, and on account of the lighting of additional buildings. A suitable generator would cost approximately $16,000.00. There is also need of an additional tunnel on a lower level than the present tunnels, for the benefit of new buildings on the north side of the campus and to provide better return of condensation from steam circulated through the present tunnels. The balance remaining after the purchase of the generator will allow only the beginning of a tunnel of this kind. The additional amount needed should be provided as soon as possible.

4. Sewer Construction $30,000.00

The present facilities for sewage disposal are outgrown, and the result is that raw sewage flows directly into Campus Creek and thence into Squaw Creek. It is hoped to secure some relief by inducing the City of Ames to withdraw from the agreement entered into, under special authority, some years ago. In that case it will become necessary to refund to the city the amount it has invested in the disposal plant on the college grounds. It is now proposed to make a new sewage disposal bed at a more favorable location than the present site and to locate it where it

may serve practically the entire campus at a future time if this is desired, but for the present both the old and the new beds would be used.

5. Repairs and Improvements of Stock Barns, Judging Pavilions and Fences $5,000.00

Some of the older farm structures are very much in need of repairs and improvements which would be too expensive to be cared for from the college repair fund. It has been necessary to re-adapt some of these old buildings to modern requirements. Furthermore, in a good many places, timbers and posts have worn out or rotted out and need to be replaced.

C. *Increase of Appropriations for Industrial Service Work—Annual.*

Soil Survey $50,000.00

The Agricultural Experiment Station is being called upon constantly for soils surveys in different parts of the state. Thousands of taxpayers have signed petitions asking that this fundamental work be done by the experiment station as it is done in other states. Contrary to the reputation of the state in most quarters, the Iowa soils are showing need of special attention. The first step to be taken is a soil survey. This is an inventory of soils, and the information secured is of great value to the farming people. It is necessary for further studies of soil improvement. This is a problem of enormous proportions, and it has direct bearing upon many millions of dollars in farm values and farm products.

D. *Special Appropriations for the Biennium, Beginning July 1, 1917.*

1. Animal Husbandry Farm and Equipment $75,000.00

Animal Husbandry represents enormous interests in Iowa, and the College should have an animal husbandry farm that would compare at least with many a good stock farm in the state. At the present time, it has no animal husbandry farm. The stock is cared for in buildings and on lands poorly suited for the purpose, and is crowded by the general college developments. The University of Illinois has spent hundreds of thousands of dollars for farm land for its College of Agriculture. Wisconsin and other states have better facilities in this respect than obtain in Iowa. It is urgently recommended that an appropriation be made so that an animal husbandry farm may be established. In this way, many present handicaps to the work would be overcome immediately. A limited amount of equipment should be secured with the purchase of the farm.

2. Additional Property near the Campus $45,250.00

Additional land adjacent to the campus is needed for college purposes, and options have been secured on the lots on Lincoln Way opposite the campus, and between Ash and Lynn Streets. This land is favorably located for dormitories; and its purchase would relieve the campus and, at the same time, protect the college grounds from undesirable encroachments. The options have been secured through the efforts of friends of the college, and will be good until April 1, 1917.

3. Patten Property.....$10,000.00

A leading horticulturist of this state has said: "Mr. Patten is a genius in his way, and has done more than any other man east of the Rocky Mountains. The work of Mr. Burbank, of California, does not count, as his productions are not suited to this climate, and are mostly failures here. Mr. Patten has the most extensive laboratory for producing new and adapted varieties of fruits that exists between the Rocky Mountains and the Atlantic Ocean. He has spent his life and strength at this work for more than forty years."

Mr. Patten has given the Iowa State College an option on this property for the purchase price of $10,000.00.

IOWA STATE TEACHERS COLLEGE.

I. ABSOLUTE NEEDS.

A. *Increase of Maintenance Appropriations—Annual.*

1. Teachers' Fund	$40,000.00
2. Summer Term	2,000.00
3. Contingent and Repair Fund	39,500.00
4. Library Fund	1,000.00
5. Librarian's Salary	1,000.00
6. Hospital Fund	1,000.00
7. Extension Service Fund	10,000.00
Total Increase Annually	$94,500.00

B. *Special Appropriations for the Biennum 1917-1919.*

1. Extension of Summer School Work	$20,000.00
2. Equipment of Vocational Building	10,000.00
3. Furniture for New Dormitory for Women	25,000.00
4. Equipment of Training School Building	4,700.00
5. Improvement and Equipment of Gymnasium	3,000.00
Total for the Biennium	$62,700.00

II. FOR ENLARGING THE SCOPE OF THE INSTITUTION.

C. *Special Appropriation for the Biennium 1917-1919.*

Land for Agricultural Purposes.....$20,000.00

BRIEF ARGUMENT IN SUPPORT OF RECOMMENDATIONS FOR APPROPRIATIONS.

A. *Increase of Maintenance Appropriations, Beginning July 1, 1917—Annual.*

1. Teachers' Fund $40,000.00

The increased cost of living; the demand for more highly trained teachers in every educational institution; the constantly increasing number of

students, requiring additional teachers; and the development of the departments of Home Economics, Agriculture, Manual Training and Rural Teacher Training: These are some of the causes for the request for an increase in the Teachers' Fund during the next biennial period. The constant losses to the instructional staff by the appointment of teachers to positions elsewhere, make this increase an absolute necessity if high efficiency is to be maintained.

2. Summer Term Fund $2,000.00

Two years ago, the attendance in the summer session was 2,022, while last summer the enrollment was between 2,700 and 2,800. In order to provide proper instruction for the increased number of teachers who attend the summer school, this small appropriation is necessary.

3. Contingent and Repair.....$39,500.00

This increased asking is made because of two new buildings which must be heated, and because of the large number of additional janitors and other employes that will be required. The large increase in the number of students during the regular college year, together with the increase in the summer session attendance, has greatly increased the contingent and repair expenses. Then, too, more money is needed for supplies, the value of which has increased greatly. Until recently, the cost of repairing the buildings was defrayed from the receipts of the building millage tax. As that statute has been abolished, an appropriation must be made to keep the physical property in good condition.

4. Library Fund.....$1,000.00

The present appropriation is not adequate to meet the increased demand for additonal library books and periodicals.

5. Librarians' Salary Fund $1,000.00

The increase in librarians' salaries and the growth of the student body make this appropriation necessary.

6. Hospital Fund.....$1,000.00

The support fund now granted is not sufficient to pay the expense of hospital service together with the visiting and inspecting nurse work that is now required. The additional fund requested will give the care and protection that the welfare of the students demands.

7. Extension Service Fund.....$10,000.00

The cordial reception of the extension service work by the teachers and superintendents of the State indicates that the work should be strengthened. Each year the demand for new study centers has increased, and if that demand is to be met properly, an additional $10,000.00 annually is needed.

B. *Special Appropriations for the Biennium Beginning July 1, 1917.*

1. Extension of Summer School Work $20,000.00

This appropriation is requested for the purpose of organizing and maintaining branch summer schools during the summers of 1917 and 1918 re-

spectively. If this policy is approved, instruction will be given in a few places other than Cedar Falls, to new teachers and to those who expect to teach in the rural schools.

2. Equipment of Vocational Building $10,000.00

This money will be expended as follows:

a. Agricultural Floor:

Apparatus		$1,250.00	
Furniture and Equipment:			
Microscopes	$1,125.00		
Tables, cases, etc.	1,500.00		
		$2,625.00	
			$ 3,875.00

b. Manual Arts Floor:

Woodworking equipment	$1,000.00	
Metal working equipment	350.00	
Drawing equipment	648.00	
Office Furniture	40.00	
Fixtures, Lockers, Racks, Filing Equipment	450.00	
		2,488.00

c. Home Economics Floor:

Equipment for Housekeeping Apartment Laboratory	$ 995.00	
Equipment for Cooking Laboratories, Class Rooms, Offices, etc.	2,642.00	
		3,637.00
Total		$10,000.00

3. Furniture for New Dormitory for Women $25,000.00

The new dormitory will provide accommodations for 198 women. Furniture and other equipment must be purchased for the reception rooms, the offices, the dining room, the kitchen, and the rooms for the officers, assistants and students. Careful estimates have been made regarding the cost of good, plain, substantial furnishings and furniture; and the appropriation requested is the minimum.

4. Equipment of Training School Building $4,700.00

This money will be expended as follows:

a. New furniture for training school building, so as to have modern and suitable equipment	$2,100.00
b. Balcony for auditorium of training school building, so as to have sufficient room for the students at assembly time	2,000.00
c. Photographic outfit, for organizing a more efficient instructional service in the training school demonstration department	600.00
Total	$4,700.00

5. Improvement and Equipment of Gymnasium $3,000.00

These funds are to be expended as follows:

a. Filtration Plant	$2,000.00
b. Mixer for heating water	600.00
c. Improvement of playgrounds	400.00
Total	$3,000.00

C. *Special Appropriation for the Biennium Beginning July 1, 1917.*

Land for Agricultural Laboratories $20,000.00

This appropriation, if granted, will enlarge the scope of the work of the institution. The land will be used for field work in agriculture. The growth of the demand for effective instruction in agriculture requires that a suitable tract of land containing about forty acres be purchased.

COLLEGE FOR THE BLIND.

I. ABSOLUTE NEEDS.

A. *Increased Maintenance Appropriations—Annual.*

1. Support Fund	$5,000.00
2. Repair and Contingent Fund	500.00
Total Increase Annually	$5,500.00

B. *Special Appropriations for the Biennium 1917-1919.*

1. Laundry Equipment	$3,000.00
2. Music, Books and Apparatus	500.00
Total for the Biennium	$3,500.00

II. FOR ENLARGING THE SCOPE OF THE INSTITUTION.

C. *Special Appropriation for the Biennium 1917-1919.*

Industrial Building $20,000.00

BRIEF ARGUMENT IN SUPPORT OF RECOMMENDATIONS FOR APPROPRIATIONS.

A. *Increase of Maintenance Appropriations Beginning July 1, 1917—Annual.*

1. Support Fund $5,000.00

This increase is needed for additional teachers to care for the children who attend this institution, and to pay the increased cost resulting from the rise in prices of food. The expense of caring for these children has greatly increased during the last two years.

2. Repair and Contingent Fund.....$500.00

In order to meet the increased contingent expenses and to repair more properly the physical property, this small appropriation is needed.

B. *Special Appropriations for the Biennium Beginning July 1, 1917.*

1. Laundry Equipment $3,000.00

The greater part of the laundry equipment was purchased a number of years ago, and it is in poor condition and out of date. In order properly to equip the laundry, this amount is requested.

2. Music, Books and Apparatus.....$500.00

This small appropriation is requested for the purchase of music, library books, text books and apparatus which are needed very much.

C. *Special Appropriation for the Biennium Beginning July 1, 1917.*

Industrial Building $20,000.00

About five years ago, the Iowa State Board of Education appointed a committee of five—three members of the Board and two members of the Finance Committee—and the Superintendent, to visit schools for the blind in other states.

This committee reported that the buildings now used for industrial training are in very poor condition and that they are not properly arranged and equipped. Schools for the blind should emphasize industrial training; and, in order to secure the best results, a well-arranged and properly equipped building is a necessity. This appropriation is asked for this purpose.

ENDOWMENT FUND IOWA STATE COLLEGE OF AGRICULTURE AND MECHANIC ARTS.

The permanent Endowment Fund of the Iowa State College of Agriculture and Mechanic Arts, as reported at the close of the preceding biennial period, stood as follows:

Loans in force, June 30, 1914	$685,550.00
Cash in hands of Treasurer of State June 30, 1914	1,267.97
Total Fund June 30, 1914	$686,817.97

During the biennial period ending June 30, 1916, the movement of this fund has been as follows:

Loans in force, June 30, 1914		$685,550.00
Loans paid during the present biennium	$190,366.00	
Loans made during the present biennium	154,300.00	
Loans decreased during the present biennium		36,066.00
Total loans in force June 30, 1916		$649,484.00
Cash in hands of Treasurer of State, June 30, 1916		37,333.97
Total Endowment Fund, June 30, 1916		$686,817.97

In addition to the loans made, loans amounting to $27,500.00 were renewed for periods ranging from five to ten years, at a rate of five and one-half per cent per annum. None of the loans are past due as to either principal or interest.

PER DIEM, MILEAGE AND EXPENSE OF MEMBERS.

For the members of the State Board of Education from July 1, 1914, to June 30, 1916, inclusive. Paid from appropriation under Chapter 5-b, Sections 2682-m, 2682-n, Code Supplement 1913; and Senate File 640, Section 16, Acts of the Thirty-sixth General Assembly.

To Whom Paid— Members of Board of Education	Stenographers, messages, etc.	Per diem	Mileage	Amount
D. D. Murphy, president	$407.29	$ 840.00	$ 487.84	$ 1,735.13
Geo. T. Baker	.....	644.00	222.06	866.06
Chas. R. Brenton	.....	728.00	246.98	974.98
P. K. Holbrook	.....	371.00	162.76	533.76
E. P. Schoentgen	.....	588.00	388.64	976.64
H. M. Eicher	11.06	609.00	119.98	740.14
Frank F. Jones	.....	392.00	180.70	572.70
Paul E. Stillman	.....	371.00	79.86	450.86
W. C. Stuckslager	.....	70.00	22.36	92.36
J. H. Trewin	.....	354.00	39.08	403.08
A. B. Funk	1.31	217.00	43.53	261.84
Roger Leavitt	.....	182.00	45.96	227.96
Totals	$419.76	$5,376.00	$2,039.75	$ 7,835.51

FINANCE COMMITTEE, SALARIES, MILEAGE AND EXPENSE.

For the office of Finance Committee of the State Board of Education, from July 1, 1914, to June 30, 1916, inclusive. Paid from appropriation under Chapter 5-B, Sections 2682-l, 2682-m, Code Supplement 1913.

To Whom Paid— Members of the Finance Committee	Salaries	Traveling expenses	Amount
W. R. Boyd, Chairman, 2 years at $3,500 per annum	$ 7,000.00	$ 2,746.64	$ 9,746.64
W. H. Gemmill, Sec'y, 2 yrs. at $3,500 per annum	7,000.00	1,108.89	8,108.89
Thomas Lambert, 2 yrs. at $3,500 per annum	7,000.00	2,705.92	9,705.92
Totals	$ 21,000.00	$ 6,561.45	$ 27,561.45

INSPECTORS OF SECONDARY SCHOOLS, SALARIES AND MILEAGE.

For the office of Inspectors of Secondary Schools, under the State Board of Education, from July 1, 1914, to June 30, 1916, inclusive. Paid from

appropriation under Chapter 5-B, Sections 2682-l, 2682-m, Code Supplement 1913.

To Whom Paid— Inspectors of Secondary Schools	Salary	Traveling expenses	Amount
P. E. McClenahan, inspector 23 4-5 months at $2,200 per annum	$ 4,363.33	$ 1,200.99	$ 5,564.32
John E. Foster, assistant inspector, 2 years at $2,000 per annum	4,000.00	1,242.45	5,242.45
Leslie I. Reed, assistant inspector 2 years at $2,000 per annum	4,000.00	1,348.87	5,348.87
Totals	$ 12,363.33	$ 3,792.31	$ 16,155.64

EMPLOYEES' SALARIES, MILEAGE AND EXPENSE.

For the office of State Board of Education, from July 1, 1914, to June 30, 1916, inclusive. Paid from appropriation under Chapter 5-B, Sections 2682-l, 2682-m, Code Supplement 1913.

To Whom Paid	Salary	Traveling expenses	Amount
J. W. Bowdish, auditor and accountant, 2 years at 1,900 per annum	$ 3,600.00	$ 271.80	$ 3,871.80
J. W. Bowdish, record 62 mortgage releases and one extension, Iowa State College Endowment Fund			27.25
Lida M. Erwin, 2 years at $1,200	2,400.00	13.36	2,413.36
Millicent Warriner, stenographer, 15 months, 11 days at $75.00 per month	1,151.61		1,151.61
May Johnson, stenographer, extra, 23½ days at $2.50; 67½ days at $2.75; 103½ days at $3.00; 5½ mos. at $70.00	1,464.88		1,464.88
Nell Johnson, stenographer, extra, 136½ days at $2.50	341.25		341.25
Mabel Beers, stenographer, extra, 65½ days at $2.50; 24 days at $2.75; 5 months at $70.00	579.75		579.75
Grace N. Burlingham, stenographer, extra, 26 days at $3.00; 13 days at $2.75	113.75		113.75
Des Moines Duplicating Co., 1,400 typewritten letters, $4.10; 1,300 pages paper, $16.25			20.35
J. P. Blaise, special stenographer, 1 day, $10.00; expense to Cedar Falls and return, $7.32	10.00	7.32	17.32
Totals	$ 9,681.50	$ 292.48	$ 10,001.32

EXPRESS, FREIGHT AND CARTAGE.

For the Board of Education from July 1, 1914, to June 30, 1916, inclusive. Paid from appropriation under Senate File 640, Section 3, No. 28, Acts of the Thirty-sixth General Assembly.

Date	To Whom Paid	Amount
1914		
August 5	Blue Line Transfer & Storage Co.	$ .25
August 31	Wells-Fargo Express Co.	.35
1915		
September 11	American Express Co.	.40

EXPRESS, FREIGHT AND CARTAGE—Continued

Date	To Whom Paid	Amount
January 5	American Express Co.	.50
April 12	American Express Co.	.44
November 5	Adams Express Co.	.73
May 16	Wells-Fargo Express Co.	.25
May 26	Adams Express Co.	.40
	Total	$ 3.32

TELEPHONE, TOLLS AND TELEGRAMS.

For the Board of Education from July 1, 1914, to June 30, 1916, inclusive. Paid under Code Section 164.

Iowa Telephone Co.—	
Rental two years at $24.00 per annum	$ 48.00
Toll service from June 21, 1914 to June 20, 1915	204.37
Toll service from June 21, 1915, to July 20, 1916	274.98
One telephone extension	1.00
Western Union Telegraph Co.—	
From July 1, 1914, to June 30, 1915	12.14
From July 1, 1915, to June 30, 1916	7.16
Postal Telegraph and Cable Co.—	
From July 1, 1914, to June 30, 1916	6.18
Total	$ 553.83

STOCK USED BY STATE PRINTER.

For office of Board of Education from July 1, 1914, to June 30, 1916, inclusive. Paid from appropriation under Code Section 121.

Date	For What Purpose	Amount
1914		
July 11	1,500 envelopes	$ 2.33
July 11	3,000 envelopes	3.06
July 11	3,000 letter heads	3.48
August 18	600 requisitions, Teachers College	.53
August 18	500 requisitions, Teachers College	.53
October 14	10,000 letter heads	11.60
October 14	1,000 index cards	1.79
October 21	2,000 high school reports	1.55
1915		
January 21	2,000 letter heads	2.32
January 21	300 letter heads	.35
January 21	700 letter heads	.82
February 4	10,000 certificates	17.60
March 25	3,500 biennial reports	241.36
March 30	1,200 bulletins	24.70
March 30	800 bulletins	8.54
April 21	1,000 envelopes	1.40
April 21	250 envelopes	.21
April 21	4,000 envelopes	6.20
April 23	250 envelopes	.39
April 29	5,000 envelopes	4.10
May 21	5,000 form 2-6	10.00
May 21	20,000 slips	10.00
June 2	1,000 nomination blanks	.34
May 24	5,000 letter heads	5.80
June 3	2,000 letter heads	2.32
June 14	750 envelopes	.80
June 14	750 envelopes	.80
July 1	8,000 child blanks	10.80
July 1	6,000 physician's reports	16.20

STOCK USED BY STATE PRINTER—Continued

Date	For What Purpose	Amount
July 14	5,000 envelopes	4.10
July 16	1,000 form 2-28	.78
August 21	2,000 form 2	2.00
1916		
March 7	1,500 bulletins, No. 5	6.29
March 8	5,000 letter heads	6.30
March 8	1,000 envelopes	1.14
March 8	2,000 form 2-8	2.52
March 8	650 certificates diploma	2.87
March 28	1,000 applications for certificates	1.00
March 29	500 form 2-30	.11
April 25	100 algebra questions	.02
April 28	500 envelopes	4.50
May 4	3,000 physician's blanks	7.56
May 11	15,000 scholarship blanks	37.80
May 11	4,000 envelopes	5.80
May 12	500 envelopes	.41
May 16	8,500 envelopes	10.63
May 20	1,000 envelopes	1.40
June 6	250 manila envelopes	2.25
June 12	2,000 letter heads	2.52
June 23	500 envelopes	.73
July 12	1,000 postal cards	.30
	Total	$ 490.95

BINDING BY STATE BINDER.

For office of Board of Education from July 1, 1914, to June 30, 1916, inclusive. Paid from appropriation under Code Section 121.

Date	For What Purpose	Amount
1914		
October 28	Rule 2,000 high school report blanks	$ 5.62
1915		
February 19	Folding, stitching and trimming 200 advance sheets of biennial report	.30
March 25	Binding in cloth 500 biennial reports	125.00
March 25	Binding in paper 3,000 biennial reports	127.60
May 24	Rebinding Atlas of Iowa	1.25
June 28	Folding 2,000 Senate File 16	2.00
1916		
March 20	Folding, stitching and trimming 1,500 bulletins No. 5	4.80
1914		
November 3	Samuel D. Page & Co., binding one minute book	8.00
	Total	$ 274.57

PRINTING BY STATE PRINTER.

For office of Board of Education from July 1, 1914, to June 30, 1916, inclusive. Paid from appropriation under Code Section 121.

Date	For What Purpose	Amount
1914		
July 18	3,000 letter heads	$ 4.00
July 18	1,500 large envelopes	2.75
July 18	3,000 envelopes	4.00
August 8	500 requisition blanks, Iowa State College	3.20

PRINTING BY STATE PRINTER—Continued

Date	For What Purpose	Amount
August 8	500 requisition blanks, State Teachers College	3.20
August 28	500 requisition blanks, State Teachers College	3.20
October 17	10,000 letter heads	12.75
October 17	1,000 rep. for inspectors	3.70
October 31	2,000 rep. for High Schools	4.70
December 19	635 envelopes return cards	1.56
1915		
January 29	300 letter heads—2 forms	3.00
January 29	2,000 letter heads	4.70
February 8	700 letter heads	1.50
February 16	10,000 uniform admission certificates	18.35
March 27	3,500 Third Biennial Reports—signature 1-32 and covers	1,113.06
March 31	500 envelopes	1.50
April 28	2,000 envelopes	2.75
April 28	250 envelopes	1.50
April 28	250 envelopes	1.50
April 28	4,000 envelopes—return card	6.00
April 28	1,000 envelopes	1.50
April 28	5,000 envelopes with card	6.50
June 5	1,000 nomination blanks	4.95
June 5	2,000 blanks—crippled children bill	22.05
June 11	2,000 letter heads	2.50
June 11	5,000 letter heads	6.50
June 18	2,000 Senate File 16	8.99
June 18	1,500 envelopes	2.00
July 22	5,000 envelopes	4.00
August 13	6,000 physician's reports—crippled children	9.45
September 3	1,000 physician's examination blanks—crippled children	4.95
September 3	2,000 form 2—crippled children	5.85
September 27	10,000 blanks	13.05
September 27	1,000 envelopes	1.00
September 27	10,000 envelopes	7.75
October 7	1,000 envelopes	1.00
October 7	5,000 letter heads	5.50
October 7	3,000 letter heads	3.50
October 7	2,000 envelopes	1.75
October 23	Special ruled paper	4.88
October 23	250 manilla envelopes	1.00
December 1	500 envelopes	1.00
1916		
February 1	500 envelopes	1.00
February 1	250 envelopes	1.00
February 18	500 expense blanks for Board members	7.05
March 14	5,000 letter heads	5.50
March 14	1,500 bulletins No. 5	82.60
March 14	1,000 envelopes	1.00
April 26	100 algebra questions	2.53
May 4	500 envelopes	1.00
May 12	4,000 envelopes	3.25
May 12	15,000 scholarship blanks	20.10
May 12	3,000 physician's blanks—crippled children	6.75
May 26	1,000 envelopes	1.00
May 26	500 envelopes	1.00
June 22	2,000 letter heads	2.50
June 22	250 envelopes	1.00
	Total	$ 1,452.81

FURNITURE AND FIXTURES.

For Board of Education from July 1, 1914, to June 30, 1916, inclusive. Paid from appropriation under Code Section 165, and Chapter 5-B, Section 2682-j, Supplement 1913.

Date	For What Purpose	Amount
1914		
December 28	Davidson Bros., stair carpet and 6 rugs	$ 217.10
December 29	Davidson Bros., two roll top desks	66.70

FURNITURE AND FIXTURES—Continued

Date	For What Purpose	Amount
December 31	Davidson Bros., two rugs	45.55
1915		
March 3	Two Royal typewriters	127.88
June 26	Typewriter desk	23.50
1916		
June 30	McNamara-Kenworthy Co., eyelet punch	3.60
June 30	Davidson Bros., typewriter stand	3.75
June 30	Davidson Bros., couch	12.45
	Total	$ 500.53

OFFICE SUPPLIES, EXPENSES, ETC.

For the Board of Education from July 1, 1914, to June 30, 1916, inclusive. Paid from appropriation under Code Section 165, and Chapter 5-B, Section 2682-j, Supplement 1913.

Date	For What Purpose	Amount
1914		
November 28	Carpenter Paper Co., clasp envelopes	$ 13.14
December 17	Pratt Paper Co., paper	.78
1915		
June 8	Underwood Typewriter Co., repair typewriter	.60
July 2	Lida M. Erwin, notarial commission	8.00
July 26	Underwood Typewriter Co., repair typewriter	.60
November 1	Proudfit, loose leaf binder and 1,000 sheets	9.80
November 17	Underwood Typewriter Co., repair typewriter	.80
1916		
February 29	McNamara-Kenworthy Co., fillers for record book	6.40
	Total	$ 40.12

SUPPLIES DRAWN FROM SUPPLY DEPARTMENT.

For the Board of Education, from July 1, 1914, to June 30, 1916, inclusive. Paid from appropriation under Code Section 165.

Paper	$ 123.10
Envelopes	4.48
Pencils, pens, etc.	17.55
Books	4.34
Rubber bands	2.05
Baskets, brushes, brooms, etc.	.82
Paste, ink, etc.	1.70
Sundries, soap, etc.	59.11
Postage	1,073.00
Total	$1,286.15

EDUCATIONAL SURVEY COMMISSION.

Paid under Chapter 5-B, Sections 2682-k and 2682-l, Code Supplement, 1913.

To Whom Paid	Per Diem	Expense	Total
Members of Educational Commission:			
P. P. Claxton		$ 75.14	$ 75.14
Mrs. Henrietta W. Calvin		125.66	125.66
Samuel P. Capen		324.24	324.24
Kendric C. Babcock, 26 days at $25.00 per day	$ 650.00	310.02	960.02
R. M. Hughes, 17 days at $25.00 per day	425.00	178.28	603.28
James R. Angell, 24½ days at $25.00	612.50	233.66	846.16
Hollis Godfrey, 4 days at $25.00	100.00	58.68	158.68
L. H. Bailey, 15 days at $25.00	375.00	186.52	561.52
Harold T. Murray, 28 days at $5.00	140.00	181.80	321.80
Total	$2,302.50	$1,674.00	$ 3,976.50
Employes:			
J. P. Blaise, 10 days at $8.00	$ 80.00	$ 175.39	$ 255.39
Geo. C. Hand, 2 weeks at $10.00	20.00		20.00
Howard J. Tally, 3 days at $1.00	3.00		3.00
Carolus M. Broomall, 5 days at $2.40	12.00		12.00
Margaret C. Johnson, 6 weeks at $9.00	54.00		54.00
Clarissa Smith, 6 weeks at $15	90.00		90.00
Edw. F. McNally, 10 weeks at $25.00	250.00		250.00
Esther G. Parker, 3½ days at $2.50	8.75		8.75
Roberta King, 5¼ days at $4.00	21.00		21.00
Florence Pellum, 6½ days at $2.50	16.25		16.25
B. A. Rauchenstein, 5 days at $2.50	12.50		12.50
May Helft, 3½ days at $2.50	8.75		8.75
Ida Mills, 6½ days at $2.50	16.25		16.25
Rosa G. Mercalli, 2 weeks at $15.00	30.00		30.00
Clarissa Smith, 2 weeks at $15.00	30.00		30.00
Leah Gottheimer, stenographer	6.10		6.10
Total (Employes)	$ 658.60	$ 175.39	$ 833.99
Total (Members of Commission)	2,302.50	1,674.00	3,976.50
Total	$2,961.10	$1,849.39	$ 4,810.49

RECAPITULATION.

Office of the Iowa State Board of Education for two years, from July 1, 1914, to June 30, 1916, inclusive.

MEMBERS OF THE BOARD OF EDUCATION—EXPENSES.		
Per diem, members of Board of Education	$ 5,376.00	
Mileage, members of Board of Education	2,039.75	
President's office, stenographer, messages, etc.	419.76	$ 7,835.51
SALARIES.		
Members of Finance Committee	$ 21,000.00	
Inspectors of Secondary Schools	12,363.33	
Employes	9,681.59	43,044.92
TRAVELING EXPENSES.		
Members of Finance Committee	$ 6,561.45	
Inspectors of Secondary Schools	3,792.31	
Employes	292.48	10,646.24
OFFICE SUPPLIES.		
Postage	$ 1,073.00	
Drawn from Supply Department	213.15	
Sundry Supplies and expenses—office	40.12	
Furniture and fixtures	500.53	1,826.80
PRINTING AND BINDING.		
Printing by State Printer	$ 1,452.81	
Binding by State Binder	266.57	
Binding, other than State Binder	8.00	1,727.38
SUNDRY EXPENSE.		
Stock used by State Printer and Binder	$ 490.95	
Telephones, tolls and telegrams	553.83	
Express and cartage	3.32	
Release mortgages (see Employes Acct.)	27.25	1,075.35
EDUCATIONAL SURVEY COMMISSION.		
Per Diem	$ 2,382.50	
Traveling expenses	1,849.39	
Employes	578.60	4,810.49
Grand Total		$ 70,966.69

REPORT OF INSPECTOR OF SECONDARY SCHOOLS.

P. E. McCLENAHAN, INSPECTOR.

The work of inspection has increased rapidly in the last five years, but it has only kept pace with the increased attendance and expansion of the high schools of Iowa. Five years ago there were only 262 accredited schools with an enrollment of about 35,000 pupils. Today there are 375 accredited schools and the total enrollment is nearly 50,000 pupils. Last year these schools employed 2,755 teachers, and graduated 8,328 pupils. The libraries contained 402,438 volumes, which is an increase of 118,309 volumes over the previous year. The equipment for physics, domestic science, agriculture, manual training, botany, commercial work and physical geography has increased enormously. Statistics are appended for the years 1913-14 and 1915-16, to show this increase.

For the past five years the high school course of study has been rapidly broadened; the single course for all students is practically a thing of the past; many new branches have been added; laboratories have increased, and libraries have grown beyond the expectations of the most far-seeing educators.

CHARACTER OF THE WORK.

The work of the inspectors for the past seven years has consisted of the visitation of schools, taking a survey of the work done, to see if it has been done to meet the standards set by the State Board of Education for an accredited school. When an inspector goes to a school he visits the classroom and sees the actual teaching done, has conferences with the teachers and superintendent, confers with the Board of Education, and frequently gives public addresses to those who are interested in public education.

Besides the work for the state accrediting, we have done the work of inspection for the North Central Association of Colleges and Secondary Schools. At the present time there are seventy-five Iowa schools accredited by this association.

THE HONOR SCHOLARSHIP.

The Honor Scholarship established by the State Board of Education has been issued from this office. The examination of the pupils'

high school credits and the issuing of these scholarships have come to require a great amount of detailed work. Each scholarship has an estimated value of about $80.00. During the past five years more than 1,000 scholarships have been issued, and the free tuition thus given has amounted to about $80,000.

COLLEGE ENTRANCE EXAMINATIONS.

Entrance examinations have been prepared and an annual examination has been given each spring to students in the unaccredited schools. The co-operation of the non-state schools has been secured in this examination and it is now given for practically all the colleges in Iowa. The following is a brief summary concerning the College Entrance Examination May 8-9, 1916, for unaccredited four-year high schools, conducted by the Inspector of Secondary Schools, under the State Board of Education:

PRELIMINARY ANNOUNCEMENT.

1. Preliminary announcement to unaccredited high schools.
2. Instructions for conducting the examination.
3. List of schools participating.

DATA.

Number of schools to which the preliminary announcement was sent	105
Number of schools requesting the examination	70
Number of schools filing scholarship certificates	64
Number of applicants filing scholarship certificates	283
Number of applicants returning manuscripts	209
Number of applicants not returning manuscripts	74

The choice of institutions on the part of those returning manuscripts was as follows:

State College of Agricultural and Mechanic Arts	45
State University of Iowa	43
Iowa State Teachers College	42
Drake University	17
Grinnell	12
Cornell	10
Highland Park	9
Morningside	6
Des Moines	5
Coe	4
Simpson	4
Iowa Wesleyan	4
Penn	3
Upper Iowa University	3
Hardin College, Mexico, Missouri	1
No choice indicated	1

BULLETINS.

This office has issued five bulletins, as follows:
Bulletin No. 1.—The Accredited High School.
Bulletin No. 2.—History of High School Inspection.
Bulletin No. 3.—Classification of High Schools.
Bulletin No. 4.—The High School and the College.
Bulletin No. 5.—Iowa Accredited High Schools.
Bulletin No. 1 has recently been revised so as to meet the changes that have been made in entrance requirements.

ENTRANCE REQUIREMENTS.

College entrance requirements have changed very materially this year. There has been greater flexibility in the courses; more electives have been allowed; many new subjects have been added, and credit has been given for the same. The list follows:

General Science	½ to 1 unit
Public Speaking	½ unit
Music	½ to 2 units
Pedagogy and Methods	½ to 1 unit
Psychology	½ to 1 unit
Bible Study	½ to 1 unit

The amount of agriculture offered has increased, and vocational work has been given a much more prominent place than it has received in the past.

COMPARATIVE STATISTICS CONCERNING ACCREDITED HIGH SCHOOLS FOR THE SCHOOL YEARS, 1913-14 AND 1915-16.

	1913-14	1915-16	Increase
Total Number of Schools	319	351	32
Total Enrollment	40,085	48,061	7,976
Seniors	6,715	8,328	1,613
Juniors	7,543	9,715	1,172
Sophomores	9,287	12,593	3,306
Freshmen	12,617	16,941	4,324
Unclassified and Post Graduates	3,923	484	.....
Graduates	6,117	7,906	1,789
Total number of teachers	2,273	2,755	582
Number of Volumes in High School Libraries	284,129	402,438	118,309

VALUE OF EQUIPMENT.

Physics	$ 144,310	$ 176,656	$ 32,345
Domestic Science	76,254	139,292	63,038
Agriculture	10,347	22,746	12,399
Manual Training	27,328	160,706	133,378
Botany	29,303	32,749	3,346
Commercial	33,405	57,034	23,629
Physical Geography	9,565	19,880	10,315

SUGGESTIONS.

1. Scholarship blanks can be revised profitably.

2. A certificate for each accredited school would be of value. If it could be framed and hung upon the wall it would save many questions and frequent embarrassments, both to the school and the Board of Education.

3. A bulletin including a summary of the annual high school reports should be published and mailed to the schools.

4. It may be wise to make some restrictions in regard to the honor scholarships.

5. It is a difficult problem to secure good teachers, well trained; and every opportunity possible to train teachers in the state educational institutions should be utilized.

6. Educational standards for high schools should not be lowered, but entrance requirements should be flexible, so as to accommodate as many pupils as seek college entrance.

7. Each state institution of higher learning should have its educational department furnished with statistics from this office, from time to time, as they are available.

State University of Iowa

Iowa City

Biennial Report

Period Ending June 30, 1916

REPORT OF THE PRESIDENT, STATE UNIVERSITY OF IOWA

THOMAS H. MACBRIDE, PRESIDENT.*

It is but a matter of history to say that the biennium closing July 1, 1916, has been, in many ways, the most prosperous in the life of the institution. There has been encouraging progress in almost every college, alike in equipment, teaching force, attendance and accomplishment. Details confirming this general statement are to be found in the reports following, from the officers of the various colleges and divisions of the University work.

GENERAL INDICATIONS OF PROGRESS.

Perhaps the most notable changes about the campus and in the activity of the University are to be seen in our enlarged facilities for the physical training of all the students, in the new building for dentistry and in the extension of University service through the operation of the Perkins law.

The enlargement and equipment of the armory as a gymnasium, with the increased staff of service, now affords to University men abundant opportunity for physical training of every serviceable sort. The new gymnasium for women is a model of its kind, alike in structure, arrangement and equipment, and is in constant use.

The operation of the Perkins law has brought to our hospital scores of children suffering from deformities and defects of all sorts. By the aid of scientific treatment, many of these little people have been wonderfully helped and improved. The beneficence of the provisions of this statute has not yet been realized throughout the counties of the state. Once this is the case, the University will undoubtedly find itself overwhelmed with children patients.

The new dental building, on North Capitol Street, now rapidly approaching completion, will afford for that great school long-needed accommodations and place our equipment for this service at least on a par with that of any dental college in the country.

Plans long contemplated are now ready for the construction of a fifth building to complete the quintet that shall occupy as a

*On August 9, 1916, the resignation of President Macbride was accepted, and Dr. W. A. Jessup was appointed as his successor.

University center the old-time campus; and other plans are preparing for a library building, one wing to be erected immediately east of the present law building. The library will be so planned as to allow additions as need shall rise, and will eventually constitute an architectural unit doubtless the finest in our group of beautiful structures. Our need for other buildings will be discussed later on, in connection with our presentation of general University needs. So long as the University grows, so long as there is progress in the intellectual life of men, new buildings will be at once the index and the incident of such growth and progress.

THE FACULTIES.

But the University consists not in buildings; these are but the larger tools by which the institution essays to do its work. The faculty of the University represents largely, of course, the efficient and directing power; and here changes, though less rapid, are unfortunately none the less constant.

Since the last report, the University has suffered most grievous loss in the death of Judge Emlin McClain, dean of the College of Law. Dean McClain went from teaching to a place on the bench of the Supreme Court, and after twelve years' judicial experience had only just returned to the work of teaching in the employ of his Alma Mater. The College of Law and the commonwealth were just congratulating themselves on the prospect of illustrious service, to be rendered by a most experienced and popular administrator and professor, when the life of our great dean and teacher terminated on the morning of May 12, 1915. It is but simple fact to say that in the passing of Judge McClain the University has lost one of its most distinguished alumni, the state its most distinguished student of law; while hundreds of men, mindful of college days but now in active and successful practice throughout the land, will find it hard to believe that any man can ever be found with their old-time teacher's ability in the lecture-room of the College of Law.

To succeed Dean McClain, Professor E. A. Wilcox was appointed acting dean until the selection of Professor Dudley O. McGovney, of the University of Missouri, who assumed the duties of the position on July 1, 1916.

Dr. James R. Guthrie, after more than a quarter of a century of service as professor of gynecology in the College of Medicine, having been for twelve years dean of that college, withdrew from

more active work, in July, 1914, and became dean emeritus, accepting a position on the staff as research lecturer in connection with the chair he had so long and ably filled. In the deanship, Dr. Guthrie was succeeded by Dr. L. W. Dean, and as professor, by Dr. W. R. Whiteis, sometime assistant to Dr. Guthrie and professor of obstetrics.

In March, 1915, Dr. C. P. Howard, head of the department of internal medicine, a citizen of the Dominion of Canada, accepted appointment from the Canadian government for service in the hospitals of Europe, in connection with the detail of Canadian troops, co-operating with the British armies in France. Dr. Howard received a year's leave of absence, returning to us in March of the present year, enriched by remarkable experience for further distinguished service. During his absence his work was well cared for by other members of his department, notably under direction of Dr. Clarence Van Epps, professor of therapeutics.

Dr. C. S. Grant, for some years in charge of diseases of children in the department of internal medicine, resigned in May, 1915, and was succeeded by Dr. A. H. Beifeld, who came to us from the University of Michigan as professor of pediatrics and contagious diseases.

Mr. M. L. Ferson accepted a position in the College of Law for one year, in September, 1915. He has been succeeded, September 1916, by Mr. Rollin M. Perkins, who has been appointed Acting Assistant Professor of Law.

Professor Eliot Jones, of the Department of Economics, Sociology and Commerce, resigned his position in July last to accept, at much higher salary, a similar position in the University of Texas. The place of Professor Jones has been filled by the appointment of Assistant Professor Nathaniel R. Whitney, coming to us from Johns Hopkins University.

Numerous changes have occurred in the College of Dentistry. Assistant Professor F. B. Whinery, Dr. W. L. Schenck, Dr. H. S. Wright and Dr. H. L. Kalen resigned their positions in June to enter active practice. They have been succeeded by Dr. C. B. Penrose, Dr. Ray V. Smith and Dr. R. L. Van Voltinbergh.

In military science, the detail of Lieutenant (now Captain) Robert T. Phinney, U. S. A., as commandant and professor of military science and tactics, expired in October, and by the special courtesy of the Secretary of War, Honorable Newton F. Baker, we

are favored in the return of Captain Morton C. Mumma, 11th Cavalry, U. S. A., whose previous connection with the University had been a matter of highest satisfaction and usefulness to the state. Captain Mumma begins his new engagement with us with the opening of the present college year.

Our beloved dean of the College of Liberal Arts has been in poor health for the greater part of the biennium, during the last four months in almost constant suffering, endured with uncomplaining fortitude. He has still hoped against hope that he might yet return to his office, though for weeks entirely prostrate. His office remains vacant. His administrative work has been cheerfully assumed by those in charge of other divisions. Professor H. C. Dorcas, University Registrar, and Professor F. C. Ensign, just returned from a year's leave of absence spent at Columbia, have especially contributed. The work in history is carried for the present by members of the staff, under direction of Professor H. G. Plum, senior professor.[1]

The case of Professor Jones brings to view the whole question of continuity in the make-up of a university staff, in so far as this is determined by the question of the payment of salaries in greater or less amount. If a university has been reasonably fortunate in calling able men to its service, it is certain presently to run the danger of losing them, when they are bidden to the enjoyment of higher position, or especially higher salary, in some other institution. To retain a useful man under these circumstances involves, of course, many considerations; but the problem from a purely financial standpoint is, I believe, made unnecessarily difficult by our traditional method of handling the whole salary question.

Heretofore, so far as I know, in the entire history of the institution, funds available for strengthening the teaching staff, either in employing additional instructors or in the increase of salaries to men deserving and asking such recognition, have been entirely a matter of adjustment, an effort to do justice in some one case, or to meet a demand incident to the call of another institution, all without doing injustice in perhaps a dozen other cases where the necessity, though possibly not so immediate, is recognized and

[1]Since this paragraph was written, on the afternoon of October 6, 1916, Dean William Craig Wilcox died. To the University and the State of Iowa, the loss is simply irreparable. No other man connected with the University staff has brought to the service of the state greater gift of mind and character or more distinguished usefulness. We shall miss him often, much and long.

patent. As here considered, the problem concerns chiefly the undergraduate colleges.

The solution of such difficulty comes up at least once a year and rests, primarily, of course, with the president. To reach it, in lack of unlimited resources, is a vexatious duty requiring the utmost patience on all hands, and unlimited tact, with results only partially successful at the best. It is believed that much of this administrative difficulty would be removed, and that among the instructors and professors much better feeling would obtain, could salary increases and limitations be in some way correlated, in a permanent schedule, so that a man entering the University service might know in advance what he could reasonably expect as satisfactory service went forward.

In some of the older institutions, a more or less general normal salary scale has for many years been a matter of custom so fixed as to have the force of law; in others, such scale has been made recently a matter of statutory enactment. Investigation of the annual reports of the universities of the Mississippi Valley states demonstrates easily that salaries at the University of Iowa are generally low and show an inequality, very undesirable, incident to our history and practice for the last fifteen or twenty years.

As an attempt to bring about improvement in our whole salary situation, I beg to submit the following general scale, asking the Board of Education to give it early consideration with such appropriate legislation as will greatly minimize, if not entirely remove, the difficulties with which the administration is annually confronted in the preparation of budget estimates.

The faculty of the College of Liberal Arts, as at present constituted, includes, besides temporary or purely clerical assistants, instructors, assistant professors, professors and heads of departments. A moderate schedule of salaries may be accordingly set out in tabular form somewhat like this:

1.	Instructors, First year	$ 900
	Second year	1,000
	Third year	1,000 to $1,200
	Fourth year	1,200 to 1,400
2.	Assistant Professors, First year	1,500
	Second year	1,500 to 1,600
	Third year	1,600
	After three years	1,750 to 2,500
3.	Professors, not heads of departments	3,000
4.	Professors, heads of departments	3,500 to 4,000

The sums here set out are merely suggestive, of course, subject to such change as may be nominated by the Board after full conference with the president. But the intention is to give each member of the University staff some basis for determining his own career, with opportunity, in case of dissatisfaction, to seek employment elsewhere before increasing years begin to make changes in employment difficult, if not impossible.

Neither is this intended to intimate that the salaries of men of the same rank shall be always the same, or that salaries generally shall be all correspondingly raised at the same time. Any man's salary may be left at the minimum at any time, or it may be increased when the merits of the case are undisputed; but the plan does give notice of what, under ordinary circumstances, the members of the instructional staff may have good reason to expect.

EFFICIENCY.

I have dwelt thus upon details in the story of the University faculties simply to call attention to the long-recognized fact that a great institution, after all, is something more than its teaching staff. As time goes on, it develops history, and history means character, tradition; and these grow more and more potent with the passing years. Not altogether to meet professors, to study classics, and text and science, are sons and daughters sent to a great university, but rather to be brought, for a time, face to face with its traditional ideals, to subject their minds and hearts for a little while to the spirit of its history and the power of its associations—experiences to be carried out into the world to life's latest day. After long association with the men and progress of Iowa, I write here, as a deliberate judgment, that students are feeling this unseen power of the great university more than ever before in the decades of its history. In proportion as this is true, in like proportion does the institution render to men and women its supremest service.

In these days we hear much of efficiency, and on the battlefields of Europe today we may read what efficiency of a certain sort can do, and what its contribution to humanity. We had even begun to call for tests of such efficiency in dealing with a great intellectual agency which has to do with the spirits and souls of men. We were ready to measure floors and count windows and number the men who stood in rows at the blackboard. But it is evident that our efficiency is of a different sort. When we reflect that Harvard

gave the world Emerson, or Dartmouth Webster, the number of blackboards is not counted. True, we rejoice that the graduating class leaving the University in June, 1916, was the largest in the history of Iowa, and we are glad that each succeeding autumn shows rapidly increasing registration; but neither fact is a test of our efficiency, our success; these but indicate that in ever-increasing numbers the children of the state are disposed to avail themselves of its beneficent provisions. The real test of University efficiency must be sought in greater measure, far from the University campus, in the wide world, in village, in city, on farm, in mart, in office, in home, in school-room, in pulpit, in court, in halls of legislation, wherever men stand for that which is good and strive for social improvement, for the uplift and happiness of all; and the sons and daughters of the University of Iowa are helping and leading. There let its price be weighed in the balance and its efficiency brought to estimate and account.

The University, then, exists primarily for the student and for him alone. All our buildings, our faculties, our equipment, our expenditure, are for him. It shall teach him arts and literature and science for themselves alone, that these may open to him wider and juster views of his environment, of the world, and the real value of the things which it holds. Our buildings should accordingly be excellent, not necessarily the most costly, but primarily adapted directly to specific purposes and then architecturally correct, fit to serve as models, that public buildings throughout the state may rise in their likeness; our faculties made up of the best men to be had, in character, in scholarship, in ability to teach; our equipment adequate, illustrative, and up to date.

The appropriations made by the Thirty-sixth General Assembly were intended to enable the University to realize some of these things. It is believed that the moneys granted have been judiciously expended. In the matter of buildings, our new dental building, our new gymnasium, and new detention hospital are models of their kind; in the case of several special appropriations good account is given in the reports of the respective deans of the colleges affected, dentistry, education, graduate work. In dentistry, the additional income has been used in greatly improving the work of established chairs, in employment of added instructors to care for the increased attendance, and for the introduction of necessary business methods in the care of the volume of detail with which the conduct of the college is concerned, especially in its clinical work.

In education, the report of the dean gives all necessary information. In the case of our graduate work, we have been able to stimulate greatly research work throughout the University, by bringing to the University a large number of mature students whose advanced work in laboratory and library has been in a high degree inspiring to younger students, has contributed to a true University atmosphere, and has, at the same time, afforded to the chairs affected much needed expert assistance at an insignificant cost.

In the case of other appropriations, it may be said that the small sum set out for fine arts has been used in the department of graphic and plastic arts to procure additional equipment and instructors. The department of music is self-supporting. The special appropriation for extension has enabled us to build up a work for the people of the state in a way that is simply remarkable when we consider the limited means even now at our disposal for extension. While the State College of Agriculture is using its great resources in meeting the demand for instruction and help in its special field, the wide-spread rural districts of the state, and while the State Teachers College, by its newly organized centers, aids our rural teachers and schools in a field all its own, the University finds for its work abundant room in the towns and cities where all sorts of sociological and business problems are matters of intensest interest. Questions of child-welfare, social organization, public sanitation, public health, charities and correction, nor less questions arising from the conduct of business in every form, questions of journalism, advertising, municipal reform, civic management and finance—all these things present in Iowa problems of supreme and pressing importance, to the right solution of which the University, and the University alone, can bring, through its Extension Division, most efficient and opportune assistance and advice. It is needless to say that at this moment the demand far outruns our ability to serve.

The increase in support fund made by the last legislature has been of greatest service, but as a matter of fact has not kept pace with the growing needs of the institution. There may be found, probably, some day, a limit to the demands made by the University for its support and maintenance; but it will come only when the state reaches a condition of stability in population and wealth, and intellectual life and growth, in other words, when in all these particulars the state of Iowa shall enter upon a period of decline. Such time, we all believe and hope, is far in the future. Meantime, with

increase of population, more young people year by year will seek our University halls; with increase in wealth, more who prize its culture will have means to enjoy it and to further the ambitions of their neighbors with increasing intellectual progress; invention will open new and ever-widening fields for research in the marvelous and fascinating domain of the physical world, leading to new and ever more brilliant use of our natural environment, and tending, if we may believe the past, to an ever-increasing opportunity for human comfort and human delight. In other words, the University must grow with the growth of the commonwealth and its cost will increase only by virtue of an ever wider and wider service.

STUDENT AFFAIRS.

The life of the student in a great university such as ours is not without its peculiar temptations and difficulties. In many cases he approaches the University, for the first time away from home and its surroundings. He begins a distinctly new experience in self-control. He is exposed, in many instances, to temptations, not to vicious conduct especially, but to habits which tend to frustrate the whole purpose of his University life, temptations to dissipation, in the sense of waste, idleness, distraction from duty, social extravagance and folly. I suppose such faults may be summed up all in one phrase, *waste of time*. The student, by yielding to peculiar temptations, loses a great part of University value by absolute loss of his time. Because of this condition, no doubt, practical men of affairs sometimes place a low estimate on student character and the whole value of student experience.

Probably this general fault, here a matter of complaint, affects in some degree all kinds of students, especially at the beginning of University experience. The great majority of University students, however, presently realize their situation and make commendable effort to redeem the time. How best to aid the student in this particular thing is one great problem of University administration. Almost every case of discipline finds ultimate origin here.

To be sure, the course of regular University exercises, of class and lecture and library, if properly managed and used, constitutes the normal corrective. But experience shows that in our peculiar circumstances this is not sufficient. While entirely efficient in some cases, serviceable in the great majority, there are really instances where the University schedule seems to have no effect at all.

It is thought that some general organization of the entire student body may serve to remedy the difficulty. Student may help student. Some form of student government, participation by the students in the administration of affairs, it is thought might be of service.

Much of all this is undoubtedly true. Students may be, and doubtless are, of wonderful help and service to each other, "as iron sharpeneth iron." But, on the other hand, it is notorious that students are often, especially as affecting younger companions, just the reverse of helpful. Even the fraternities, supposedly organized for mutual sympathy and advantage in all high ways, ambitious in scholarship and literary attainment, have often degenerated, it is believed, into mere clubs for residence and social entertainment; with the result that the social life of the students as a whole is one of our gravest problems, some of our students being, by their very organization, condemned to see vastly too much social exercise, while the great majority have possibly too little and some none at all.

In student participation in University management there is more hope. Experience elsewhere has shown at least some excellent results, and an effort is making here to bring about co-operation between student and faculty in the management of all sorts of extra-curricular student activity. As a first step to this end, with the pronounced approval of the student body, as expressed last year by ballot, the student daily newspaper is this year managed by a joint board of trustees made up of three members of the instructional staff, named by the president, and four upper-class students chosen by the students. As a result, we have by far the finest college paper seen on the Iowa campus in many years. It is hoped that further progress in the plan of student co-operation may be reported next year.

For the University student, trouble usually begins, if at all, in the first weeks of the first year. For this reason I am absolutely convinced that no greater boon could be brought to our entering classes than the provision of suitable dormitories for every minor student entering the freshman or first-year class. Currier Hall has already demonstrated the value of this plan. But Currier is able to care for only a fraction of our women. We need immediately a second Currier Hall, just as large. For men we should begin with at least *two* dormitories to accommodate the youth who come up here year after year and who need just the care and supervision which only

such halls can give, in order that that *first* and generally decisive year be entered and finished right, with primary respect to the great ideals of the University.

This brings us to the general consideration of the present needs of the University in the matter of buildings, in discussing which topic I have the honor to present the following statement.

BUILDINGS.

For a satisfactory development of the University, the buildings now cited deserve the early and most serious consideration of the Board. The number is not great, but it is believed they constitute in every case an extension of our plant along lines already planned, and that they will not only serve present need, but are absolutely necessary to the symmetrical up-building of the University as a whole.

Auditorium and Fine Arts Building, near Old Capitol.
Library, first section, east of Law Building.
Building for Botany and Geology.
Dormitory for men, location to be selected.
Dormitory for women.
Psychopathic Hospital, location to be selected.
Anatomy Building, north of Close Hall.
Education Building, location to be selected.
Armory, near present Gymnasium-Armory.
Shops.
Children's Hospital, near University Hospital.
Maternity Hospital, near University Hospital.

Ways and Means. These buildings will become possible only:

1. By a *millage tax,* continuing through a period of years, or
2. By *regular appropriation,* as now, from biennium to biennium, or
3. By *special appropriation* for specific buildings, or
4. By *private beneficence.*

The *millage tax* has the advantage that it enables the Board to look forward and plan in advance for needed structures.

The *biennial appropriation* will accomplish the result, of course, if continued; but we lose the benefit of sharing the fortunes of the state, its prosperity or the reverse; this should be our destiny.

The *special appropriation* is an emergency measure, not a fixed policy.

Private beneficence will yet, no doubt, supplement the state's endeavor. All that we have, all that any citizen may possess, is the gift of the state. Very few men create wealth; they simply share in that which all contribute to create, using as a basis the free resources of the commonwealth. To the commonwealth *(common wealth)* everything, for the benefit of all its citizens, should presently return. Than a university, such as ours, there is no surer place of investment, where there is likelihood of greater care, or of efficiency more continued or more certain.

The day is not distant when the private wealth of Iowa will turn to its great institutions, to the very limit of their power to use, in the service of men. I believe that even today, did men of wealth know how much we need buildings (dormitories) for the care of young girls and inexperienced boys, there would be found in the state of Iowa those who would not for a moment count $150,000 to be spent in each direction, that these children of Iowa homes might be kept happy, sane and safe, as they enter here the untried life of independent effort.

OUR PRESENT POSSIBILITIES.

We have served Applied Science, Law, Medicine and Dentistry. Let us now distinguish the biennium by the service of Liberal Arts and the Graduate College.

A. Order the Botany and Geology Building; the plans are ready and have been approved by the legislature; we have some money, fund available July 1, 1916. We can begin immediately and be ready for service by September 1, 1917. The new building will:

1. Accommodate Botany and Geology and their crowded collections and libraries, and provide all space needed immediately for library overflow, and two literary societies.
2. Release the old Hall of Science, which can be used immediately:
   a. To house four literary societies on the top floor and save rental;
   b. To house Liberal Arts departments on the first and second floors and in the basement, and thus relieve, for the present, the much over-crowded Hall of Liberal Arts. The new dental building, meanwhile, will release the front part of the old dental building for other University uses.

B. At the same time when we order the building just described, let us order plans for the west wing of a Library Building, to be approved next winter; one wing, the west wing, to be ordered at the close of the session. This building, ready in September, 1918, will:

1. House all our books and afford all needed space for perhaps ten years.
2. Release space now occupied by the Library in the Hall of Natural Science, to give place for the State Historical Society for the years that must elapse before it can find place in a third section of the Library Building, for which, by that time, provision may, it is hoped, be made.
3. This removal of the State Historical Society will, in turn, further relieve the Hall of Liberal Arts, and give yet new room for the ever-increasing needs of that great college.

C. Note that this plan affords universal relief, and room for expansion in the College of Liberal Arts for several years to come, without calling for appropriations beyond those which we may reasonably hope at this time to secure. A building fund in some form must be continued, and will provide in 1917 for means to build an Anatomy Building, to relieve Bacteriology and Public Health, and to afford a permanent building for Pharmacy.

Special appropriation should be made for a Children's Hospital, to take care of the children coming to us in ever larger numbers under the provisions of the Perkins law. Special appropriation should be sought for a Psychopathic Hospital, this to be secured by co-operation with the Board of Control, as it is an absolute necessity in the further prosecution of the duties committed to their hands.

It is respectfully suggested that, for the dormitories we need, a special appeal be made to citizens of Iowa whose love for youth and whose appreciation of our necessity will prompt gifts sufficient for purpose so noble and so full of promise for the future service and happiness of the commonwealth.

OTHER UNIVERSITY NEEDS.

Other than buildings, University needs will be specially set out and argued by my successor, President Jessup. I have discussed buildings because they properly illustrate one phase of the present argument and because I have previously, in less formal manner, gone over with the Board the building situation.

CONCLUSION.

In concluding this report, I take opportunity to express to the Board, its honored President and individual members, an appreciation of the satisfaction I have found in co-operating with them for

the past few years in the great work of building up the University of Iowa. Surely the intent of the pioneer founders was of the highest; the purpose of the people of the state today is unmistakable; legislatures are always anxious to carry into effect the wishes and purposes of their constituents; it remains only for us who administer, for the President of the University and the Board, acting together, to devise and carry into prompt effect such plans as will constantly realize the intention of the prophetic pioneer, and the purpose of the intelligent, broad-minded and philanthropic citizen of this day.

The University stands pre-eminently for the intellectual life of the commonwealth. Without this there is, there can be, no science, no progress. To foster and develop this we are appointed. Surely no public trust is more exalted, no administrative function more potent for humanity.

The state is to be congratulated on that which has been achieved; an earnest and a promise, I believe, of yet finer accomplishment, to the increasing peace and joy of the fortunate children of this prairie state, in centuries yet to be.

UNIVERSITY WORK: THE COLLEGES.

COLLEGE OF LIBERAL ARTS.

_____, DEAN.

Owing to the long illness which terminated in the death of Dean William Craig Wilcox, there is no detailed report for the College of Liberal Arts.

It may be said, however, that the College of Liberal Arts, which is the largest college in the University, has had a remarkable growth. Within the past five years it has increased over 50 per cent. With the funds available, the provisions made for this enormous increase have been inadequate. It is imperative that the funds be increased if the College of Liberal Arts is to maintain satisfactory standing.

The demand for new instructors has been so great that it has been necessary to expend much money in the direction of employing many instructors at the lowest possible salary. This has meant that the college has suffered a constant drain because of the fact that money was not available for increasing the salaries of these men as they increased in effectiveness.

With the increase in the cost of living and with the increased prosperity of other institutions, the College of Liberal Arts has been subjected to serious embarrassment in regard to meeting the competition thus afforded.

There is every evidence to indicate that the present rate of increase in student enrollment will continue so that within the next biennium it will be necessary for us to employ many more instructors than are now being employed to operate the college.

According to the standards proposed by the survey commission, we shall need for salaries $67,000 for every additional 500 students we secure. In addition to the demand for new instructors on account of the increased registration, there are many classes that are now over-crowded so that it will be necessary to divide these classes and add instructors. Thus it may be seen that the college is in dire distress on account of lack of funds to employ additional help and to increase the standard of salaries paid so as to be able to attract and hold the highest type of University teacher.

The changes which have been made in the curriculum and the courses offered have all been in the nature of progress. All things considered, the spirit of the work of the past two years has been most wholesome in character.

COLLEGE OF LAW.

DUDLEY O. MCGOVNEY, DEAN.

The death of Judge Emlin McClain at the close of the first year of the biennium, after he had been but one year in service as dean under his last appointment, was a severe loss not only to Iowa but to the United States. His services ranged through all the activities of the enlightened lawyer, judge, and law teacher, and were of marked and widely recognized value.

During the year 1915-16, Professor Elmer A. Wilcox, as acting dean, ably discharged the executive duties of the college.

In accordance with the views of leading lawyers and legal educators, the Board of Education in 1913, acting upon the recommendation of the law faculty, provided that students entering in the fall of 1914 must have completed successfully one full year of work in a college of liberal arts; while those entering in 1915 and thereafter must have completed two years of college work. The foundation of these rules in a sound policy of service to the people of the state is to be found clearly stated by former Dean Dunn, at page 73 of the last biennial report of the State Board of Education. As expected, these higher entrance requirements have affected the enrollment of the college. During the five years preceding the taking effect of these requirements, the average attendance per year was 218. The attendance since has been 191 for 1914-15 and 156 for 1915-16. Should there be no return of the larger enrollment so soon as candidates for the legal profession appreciate the value of better

preparation, the state must take consolation in the better quality of its lawyers. It is worthy of note that of the fifty new students who entered in the fall of 1916, forty-two had made greater preparation in liberal education than the minimum necessary to satisfy our requirement of two years of college work.

At the beginning of the biennium, the College of Law began the publication of the Iowa Law Bulletin, a magazine of Iowa law, appearing four times a year. So far, all the leading articles but one have been contributed by members of the law faculty, and critical notes on the decisions of the courts of Iowa and neighboring states have been contributed by the honor students of the school under the supervision of the faculty. With the issue of November, 1916, the bulletin will close the second year of its successful publication. It has been received with marked approval and commendation by the judges and bar of the state, who recognize in it a valuable medium of service. Year by year, branches of the law of Iowa will be clearly presented, its inconsistencies and imperfections brought out and a basis laid for that thorough understanding of existing law which must always precede any sound attempt at its amendment or alteration. The program of the bulletin is not one of immediate law reform, however; it is content for the present in the assurance that it will be of great value to the state to get the law, now concealed, so to speak, in statutes and numerous decisions, disentangled and systematically and clearly stated.

It is confidently predicted that this pioneer movement in extending the services of the law faculty beyond the walls of the class-room will in later times be regarded as an important event in the history and development of the law of Iowa.

COLLEGE OF MEDICINE.

L. W. Dean, Dean.

The progress in the College of Medicine during this biennial period would perhaps be best expressed by stating two conditions that have been brought about during this time:

(1) The University Hospital has been made a purely university hospital, and is now used, practically as a whole, for teaching purposes.

(2) Teachers in the College of Medicine have been required to make the teaching of medicine their first object.

It is needless to comment upon the rise in standard which has resulted from these two procedures. I need only call your attention to the present high standing of the college throughout the whole country.

The plans for the development of the college in the future tend toward better hospital facilities, both for the care of the patients, and for teaching purposes and clinical research. We are also looking forward to the development of certain clinical departments that now are not so strong as they should be. While we will continue to develop all our laboratory

departments in the very best way, we should look forward to the immediate improvement of the Department of Hygiene and Public Health.

COLLEGE OF HOMEOPATHIC MEDICINE.

George Royal, Dean.

I have the pleasure of reporting that there have been no changes in the personnel of the faculty during the past two years, and that harmony has marked all our deliberations and efforts.

There has been a small increase in the student body. The number of students can only be increased by increasing the clinical and laboratory facilities, as that is the demand made upon us by the Hahnemann Medical Association of Iowa, upon which body we depend for our students.

Our faculty has voted for the following course, viz.: Four years in an accredited high school, one year in an accredited college, four years in an accredited medical college, and one year in an accredited hospital.

Although the number and variety of patients in our hospital has been greater than for any previous biennium, and although for low mortality rate we are surpassed by only two in a list of 101 accredited homeopathic hospitals of the United States, still our students and nurses feel sorely disappointed that the Perkins law did not secure for them the additional advantages expected.

COLLEGE OF DENTISTRY.

F. T. Breene, Dean.

The appropriations for this college have been used for the purpose of improving the work of established departments; also for employing additional instructors, to care for the increased attendance, and for the purpose of organizing and establishing business methods.

The laboratories, class rooms, and clinical facilities in the present dental building have been inadequate. The educational and business management has been carried on under trying conditions.

The new building of the College of Dentistry will be ready for occupancy during 1917, with rooms and equipment adapted to modern methods of teaching. We believe that this college will demonstrate its worth to the citizens of this state.

With definite appropriations in the future, provision should be made for instituting a department of preventive dentistry, and also for the establishment of research along dental lines. Much information could be gained, applicable to dentistry, if proper facilities for teaching metallurgy could be provided.

The appointment of a graduate dentist, as an assistant in bacteriological laboratories, is a beginning in bacteriological research. The appointment of a graduate in dentistry, as an assistant to the chair of oral surgery, and as an interne in the University Hospital has been an incentive in furthering investigation of the relation of dental lesions to general health.

COLLEGE OF PHARMACY.

WILBER J. TEETERS, DEAN.

Beginning with September, 1916, the entrance requirements of the College of Pharmacy were raised to full accredited high school graduation.

The total attendance for the year 1914-15 was 64; and the total attendance for 1915-16, with the increased requirements for entrance, was 75, an increase of 17% and over.

In 1914-15, there were 17 in the regular graduating class and three students registered for advanced degrees, making a total of 20.

In 1915-16, the senior class numbered 30, with four students registered for advanced degrees, a total of 34, making the largest senior class in the history of the college.

Within the past two years the research work of the college has been developed and some discoveries of value have been made. A method, new as far as printed literature is concerned, has been devised for the manufacture of aceto-salicylic acid. Many preparations are made for the hospital, saving considerable for the state. Recently a preparation has been discovered for the protection of wood, fiber and textile materials against fire and the elements of the weather.

There is no college of pharmacy that has higher entrance and graduation requirements than those of the College of Pharmacy of the State University of Iowa. The course, in some respects, can be improved; and we hope that certain subjects can be brought up to a better standard. A building for the college should, by all means, be provided. It should be among the askings from the next legislature. No professional college represented at the University, through its profession, turns a profit to the state by a self-taxation (annual) as does the college of pharmacy. Yet the college of pharmacy is the only professional college not provided with a building of its own.

COLLEGE OF APPLIED SCIENCE.

WILLIAM G. RAYMOND, DEAN.

The attendance in this college has shown substantial and healthy growth. According to the Registrar's statistics, there were 228 students registered in 1913-14, 254 in 1914-15, and 250 in 1915-16. As a matter of fact, the registration for this year was essentially identical with that of last year, but a few more dropped out in the early days of the first semester, almost before they had begun; and these have not been counted. More significant than this statement, however, is the fact that the freshman class is larger this year than last. This fact is particularly noticeable, because attendance in engineering schools generally has not been increasing, but rather falling off.

Few changes have been made in the instructional staff. The technical staff has been increased by five men, and now numbers 22, although two of these are temporarily employed on part time. I am pleased to say that our faculty is recognized not only in the state but outside of the state.

Our Professor Woodward has been for the past two years the principal consulting hydraulic engineer for the great work being planned by the city of Dayton, Ohio, to prevent a recurrence of its flood disasters, and has spent the greater part of his time in Dayton on this work.

Professor Fleming, head of the department of mechanical engineering, was appointed by Secretary of the Interior, Lane, as a member of the Board of Review to examine into and report upon the differences between the land owners and the Government in connection with payment for the construction of the federal irrigation works in the southwest, the enormous cost of which, beyond the government estimate, and the peculiar wording of the contract between land owners and the government have caused serious trouble.

At home the state railroad commissioners have asked our department of electrical engineering, of which Professor A. H. Ford is head, to conduct a series of experiments to determine the extent and possible methods of prevention of the interference of high tension power lines with telephone lines. These experiments are to be carried on under an advisory committee made up of representatives of the power transmission companies, the independent telephone companies, the American Telephone & Telegraph Company, the Western Union Telegraph Company, and the Railway Telegraphers' Association, and Professor F. A Fish of the State College.

Our Professor Lambert has designed and superintended the construction of a beautiful and substantial concrete arch bridge across the Iowa River for the Johnson County board of supervisors, and has planned a second bridge for the city of Iowa City. These bridges are perhaps the best examples of their type in the state.

Our Professor Fleming and Assistant Professor Dunlap have served the state board of control by making examinations and reports on the sanitary situation at Anamosa. Professor Ford has reported on certain questions at Ft. Madison, and Professor Fleming on certain questions connected with the power plant at Mt. Pleasant. During the last summer Professor Dunlap had charge of the construction of a sewage disposal plant and a spur track of railroad at Mt. Pleasant, and he has been engaged to continue that work during the coming summer. All of this work, except the actual superintendence of construction at Mt. Pleasant by Professor Dunlap, has been done without cost to the state beyond the actual expense involved.

To a limited extent, in accordance with their understanding when employed, various members of the faculty have accepted professional engagements when this could be done without interfering with their University duties. In my judgment, this is absolutely necessary to keep these professional men closely in touch with the practice that they teach. It is a matter, however, that needs to be guarded, that no tendency to subordinate University work to better paid professional engagements shall develop. This we have done.

During the biennium this college has made arrangements, approved by the Board of Education, with our own college of liberal arts, Grinnell

College, Morningside College, and Coe College, under which students of those colleges may pursue work preparatory to engineering for three years, after which they may come to the University and at the conclusion of their first year of work in engineering here receive an appropriate undergraduate degree from the college from which they came. At the end of a fifth year, they receive the degree of Bachelor of Engineering from the University; at the conclusion of a sixth year, they may receive a professional degree in engineering. This plan has been offered to the accredited colleges of the state with a proviso that those colleges which were equipped to give certain of the fundamentals of an engineering course might do so, and thus give the first four years, after graduating from which the student may come to the College of Applied Science for a fifth and, if he wishes, a sixth year.

I have recently received replies to questions sent to something more than 100 of the most prominent engineers of the country asking them to give me their opinions based on their experience, both as employees and employers, as to what the general character of a college course for engineers should be—whether four years of general training in all branches, four years of specialization in one branch as is now common, five years of specialized work or general work, or four years of general work followed by a single year of specialization. Without going into the detail of the replies, I may say that they are four to one against the present system of specialization in four years, practically half of all the replies advocating five years of college training with four years of general work and a fifth year of specialization. In accordance with the results of this investigation and further consideration of numerous suggestions that were contained in the replies, this faculty will proceed to consider a revision of its offerings; and I very much hope that, without doing anything radical, we shall be able to develop courses of study a little in advance of any of those generally offered. I feel that we did this eleven years ago, and the results of our work seem to have justified our forward step. I trust that the next step will keep us still in the front rank and that our work may be such that our graduates of the coming years shall not only be proud to say that they came from Iowa but that in looking back through the years of experience yet to come to them, when they shall have been accomplished, they may feel satisfied that they received a professional training as good as was then possible.

We endeavor now, by precept and example, to impress upon our students the value of character as the chief element of success in any line of effort. We have upon the glass doors of our vestibule, where it is constantly before the men who enter and leave the building, the following sentence, which is taken from an editorial in one of our leading engineering periodicals:

"The best asset the engineering profession has is its reputation for honesty; it is the duty of every engineer to preserve that reputation unsullied."

GRADUATE COLLEGE.

C. E. Seashore, Dean.

The growth in registration since the founding of the college is set forth in the accompanying table:

TABLE NO. I. *Graduate Registration.*

	Academic Year		Summer Session		Total, Excluding Duplicates	
	Men	Women	Men	Women	Graduate	University
1900-01	95	53	----------	----------	148	1,542
1901-02	87	43	----------	----------	130	1,512
1902-03	78	43	19	24	121	1,442
1903-04	100	86	29	49	186	1,393
1904-05	77	41	34	36	118	1,560
1905-06	103	63	44	31	166	1,815
1906-07	94	74	43	29	168	2,072
1907-08	137	110	53	54	247	2,315
1908-09	86	74	66	39	223	2,472
1909-10	88	63	74	70	243	2,352
1910-11	83	64	59	64	231	2,090
1911-12	112	54	63	33	223	2,090
1912-13	102	64	78	60	257	2,255
1913-14	125	44	92	67	276	2,669
1914-15	141	59	107	93	364	2,996
1915-16	149	86	144	103	406	3,286

Up to the year 1908, the registration was swelled considerably by the listing of a large number of students *in absentia*. This is now corrected by strict limitations upon projected registration.

Table II shows the rank of the leading state universities in graduate registration. This shows that Iowa ranks well—fourth—among state universities. The exceptionally high rank in California is due to the state law requiring the master's degree of all high school teachers.

TABLE II. *Rank of State Universities in Graduate Registration for the Year Ended June 30, 1914. Latest Available.*

	Per cent.
California	11.9
Wisconsin	9.3
Nebraska	7.7
Iowa	7.4

The figures give the percentage of graduate students in the total registration.

Iowa also compares favorably with the large endowed universities, to-wit: Columbia, 30.6; Chicago, 23.1; Harvard, 16.4; Princeton, 11; Pennsylvania, 10.8; and Yale, 9.9.

SCHOLARLY FACULTY.

At the February, 1916, meeting, the Graduate Faculty unanimously passed the following resolution recommended by the President and the Graduate Council:

"All recommendations for advancement in rank should be accompanied by a written statement about the candidate's contributions to science, literature, or art, in addition to an estimate of teaching ability and other qualifications; and special weight should be given to productive scholarship beyond dissertations for a degree."

Since this principle has the hearty approval also of the Board of Education, its application must result in the gradual raising of standards in the interest of the retention of men of university caliber and the discouragement of men who are not of university caliber.

TABLE NO. III. *Classification of Graduate Students During the Year 1915-16, and Summer Session, 1915, with Reference to Major and Minor Courses.*

	1915-1916		Summer Session		*
	Major	Minor	Major	Minor	
Botany	10	1	0	0	6
Chemistry	6	9	1	0	1
Economics and sociology	18	22	4	12	4
Education	22	6	38	14	14
Engineering	5	3	0	0	0
English	17	14	11	8	4
Fine arts	0	0	0	0	0
Geology	6	7	1	2	1
German	2	1	3	2	0
Greek	0	0	0	0	0
History	8	11	9	7	2
Latin	2	1	1	4	1
Mathematics	2	16	2	3	0
Medicine	15	10	1	1	0
Philosophy and psychology	14	23	5	24	5
Physics	15	3	2	0	8
Political science	9	8	5	2	6
Romance languages	1	3	2	2	0
Zoology	8	12	2	1	0
	161	150	87	82	52

*The numbers in this column indicate the number of students who carried the same major subject in both the year 1915-16 and the Summer Session, 1915.

THE COLLEGE OF EDUCATION.

W. A. JESSUP, DEAN.

The College of Education during the past biennium has been especially active in the direction of providing more adequate facilities for the training of school superintendents, principals, and high school teachers. Supervisors of music, drawing, and manual training have also been given some training. The standard of preparation for these servants of the state has been steadily rising, as witnessed by legal restrictions and the prevailing practice on the part of boards of education. During this period there has been maintained between the Iowa City school board and the College of Education a co-operative agreement, by means of which facilities have been provided for visiting more than two hundred classes a week, thus affording fairly satisfactory provisions for observation for the students who are preparing to teach in the high schools in the state. However, a very limited amount of practice work has been afforded in connection with this co-operative agreement. Also, the practice facilities have not been adequate.

Last year, a three-teacher experimental elementary school for the training of school superintendents was established. About eighty children in the first six grades were enrolled in this school. School superintendents in training were given an opportunity to observe and to practice in connection with supervising this group. The work this year has been expanded so as to demand the services of four teachers who are teaching 130 children throughout the eight grades. Similar provision has been made for the experimental high school which enrolls about 80 students.

There is great need for rapid development of facilities so as to afford an adequate plant including building, equipment, and staff for the operation of a complete experimental school, including the grades and high school.

The survey commission has recommended very definitely that the University needs aditional practice teaching facilities. We can do this only by expanding in the direction indicated above.

There has been a great demand for supervisors trained by the University, as is evidenced by the fact that in 1915-16 there were direct calls for more than 1,300 different teachers or supervisors. In the second year of the biennium, these calls were even heavier, and came from everywhere, chiefly, of course, from Iowa. Thus far, direct calls were received this past year from 97 of the 99 counties.

There is need for at least two additional men in the College of Education to develop the rapidly expanding fields of educational administration.

The conferences on supervision which have been held in December for the past two years have received remarkable support in the state. More than 300 superintendents, principals, and board members attended last year. The leading men in America were present for conferences on topics of supervision and administration.

UNIVERSITY LIBRARY.

JANE E. ROBERTS, LIBRARIAN.

More than the usual amount of reference work has been done for both local and out-of-town calls. Extensive bibliographies have been worked up on various subjects, upon request, usually. Additional help in the department has made this possible. Numbers of calls have been received from various parts of the state for reference material. Usually the calls have come from the high schools for orations or debating material. The library is in charge of student help during the evening hours.

We receive criticisms of the evening service, yet we know that these same students are doing their best. The solution of the problem is plainly seen, namely, the provision of trained help for evening service.

In connection with the bulletin of plays put out by the Extension division, the library loans these titles out to high schools for a week at a time for examination. Those who have made use of this opportunity have expressed themselves as very grateful for it.

The cataloging department has handled 7,762 books, making detailed records for them all. They have been handicapped considerably by lack of enough help to keep up the typing, and another year should see some provision for this in the way of an additional stenographer. This would not need to be one with a knowledge of shorthand.

The cataloging of the Ranney library is nearly finished. When that is done there will be a record in our catalog of every book belonging to the library. Some of the early cataloging, however, was very meagerly done, and there is crying need of recataloging in departmental libraries. Our regular addition of books seems to keep our present staff busy, and we should have more help for the recataloging.

All of the back cards from the John Crerar Library have been received and the large bulk of them filed in. There is, however, a considerable amount of this filing still to do. An extra assistant was employed for this work for two months last summer, and this was a great help. The Union catalog is a great help and is being used by faculty members more than formerly, though more use should be made of it. Storage for so many cards is also becoming quite a problem. The cases have to be in a hallway which is poorly lighted, making them hard to consult.

We now have the printed cards of the Library of Congress, the University of Chicago, the John Crerar Library, and Harvard University.

We are asking again for relief from crowded quarters. We have needed a library building for years, and more than ever we need one now. In connection with a library building, I wish to recommend that some provision be made for the employment of a library expert or library adviser to criticize the plans. It has been found to be the experience of other libraries that an adviser who has had experience in building and has made a special study of the subject can limit the expense of construction, augment capacity, provide for the best and cheapest service, explain library needs to the architect, and avoid friction. It has also been found that committees who work without a trained adviser are certain to spend many times more than the cost in futile experiments. One per cent of the total cost would not seem too large a fee and there would be more than that much saved in the end. Many library buildings have been spoiled for efficient service by mistakes in the plans. Employment of the library adviser enables us to profit by the mistakes of others and to make our money count for as much as possible

EXTENSION DIVISION.

O. E. Klingaman, Director.

Municipal Information.

The work of the Bureau of Municipal Information has been continued. It confines itself to the collection and dissemination of information pertaining to all phases of municipal welfare in Iowa.

In connection with this Bureau, assistance has been rendered in the field of municipal accounting, to such municipalities as have requested this service. It has been of especial value in establishing purchasing departments at Davenport and Waterloo.

Business Administration.

The Bureau of Business Administration has been organized and has accomplished much in its work with the retailers. Mr. C. F. Kurtz has been in charge of this bureau from the time of its organization.

In addition to the assistance which has been given to the various individual retailers with reference to business management, store policy, and accounting, the short course in retail merchandising has been developed. The first short course was held at the University in April, 1914, since which time the division has assisted in short courses at Sioux City, Burlington, Ottumwa, Dubuque, and Des Moines. Shorter meetings have been held in a number of other towns, and these have been of benefit to the retailers.

The business survey is becoming a feature of business in Iowa. Such a survey is at present being conducted in Council Bluffs. The work is appreciated by the retailers of the state, and has been endorsed by practically all of the various state associations of retailers.

Educational Service.

The Bureau of Educational Service has been established during this biennium, with Mr. E. J. Ashbaugh in charge. The service of this bureau is primarily for superintendents and boards of education. Tests of progress of pupils, studies of administration, and ascertaining what standards prevail, are part of the work of this bureau. For example, during this fiscal year a study has been made regarding the skill of over 12,000 Iowa school children in the fundamentals of arithmetic. Additional data in the same subject are now being prepared by the bureau, so that when it is completed, the study will include the skill of approximately 20,000 children.

Reading tests have been conducted with the co-operation of the public school men of the state. These tests have been given to approximately 30,000 children.

Dictation and spelling tests are now being distributed through the public schools, in order that data may be available concerning the children's accomplishment in dictation and spelling.

Mr. Ashbaugh has been granted a three-months leave of absence for the purpose of assisting the General Board of Education in making a survey of the schools of Gary, Indiana.

In connection with this bureau, the Extension Division has established a system of lantern slide service to assist the schools in visual instruction. These lantern slides are prepared for class room use. Many of them have been made at the University especially for the use of the high school or grade pupils. This service is free to the public schools of Iowa, no other charge being made than that of transportation. The subjects covered are Latin, German, physical geography, grade geography, botany, Greek history, and medieval history. These slides number approximately 4,500, and have been used by about 150 school systems of the state. In addition to this, there are a large number of other slides, dealing with special subjects, that are sent from the division from time to time. A set of 100 slides covering Iowa history and civics will be available for next year also.

Social Welfare.

The work of the Bureau of Social Welfare has been considerably enlarged, and is now in charge of Miss Bessie A. McClenahan. It is now working along three lines: constructive charity, child welfare, and community welfare.

A study of the financial reports of the various counties of the state reveals the fact that a large sum of money is being expended by the overseers of the poor for poor relief, but that little has been accomplished by this system in constructive poor relief. In addition to this, there is a large amount of duplication of aid on account of the work of the various philanthropic agencies overlapping, and through a lack of cooperation between the philanthropic agencies giving poor relief and the overseers of the poor.

Miss McClenahan has been engaged in making a series of surveys in a number of cities of the state. These surveys have been made at the request of all agencies interested in relief work, which include commercial clubs, churches, lodges, associated charities, boards of supervisors, and other agencies.

These surveys are conducted with two aims in view:

(1) To ascertain the actual condition in respect to poor relief;

(2) To make a recommendation which shall meet the local condition.

Council Bluffs, Mason City, Charles City, Sioux City, Ottumwa, Burlington, Muscatine, Davenport and Cedar Rapids have availed themselves of Miss McClenahan's services in this direction.

In the field of child welfare, the bureau aims to be of service to all organizations interested in bettering child conditions. It was possible for this division to have the services of Dr. Florence Brown Sherbon during the first year of the biennium in assisting to conduct and organize baby health contests in various parts of the state. Dr. Sherbon is at present, however, employed by the federal government, and the services of Dr. Sophie Hinze Scott, of Des Moines, have been given this year by

this bureau to a large number of women's clubs in baby health contest work.

In connection with the child welfare work, the division has a traveling exhibit, consisting of a number of wall charts and panel pictures, which is loaned to clubs desiring the use of this exhibit. It has also been exhibited at the state fair, at the Tri-state fair at Sioux City, and at a number of county fairs.

The community welfare work has been chiefly handled by means of lectures on various subjects pertaining to community welfare.

Lakeside Laboratory.

The work of the Lakeside Laboratory at Lake Okoboji is also under the care of the Extension Division. The work of the laboratory is given in a six-weeks session. The plans of this six-weeks' session follow closely the experience of previous years when the laboratory was under the immediate direction of President Macbride. The courses and facilities of the laboratory are open to all qualified either for individual work or to take work in classes in botany, zoology, or geology (physiography). The enthusiasm gained at the laboratory has carried many students into further scientific work.

In addition to the scientific work conducted at the laboratory, there is also held each Sunday morning a religious service, which is attended regularly by practically all members of the laboratory, and by many from the cottages on the lake.

Camp Macbride.

A school for the training of guardians for Campfire Girls has also been established by this division at Lake Okoboji. Two camps have been held—one in the summer of 1914, the other in the summer of 1915. The sessions are four weeks each. A number of young women from various parts of the state were enrolled in the camp, where they received daily instruction fitting them to be guardians of Campfire Girls. This camp is under the direction of Miss Sadie G. Holiday.

Library Service.

Library service is given by the Extension Division to a large number of people, especially to the retailers. Many bibliographies are compiled, also, to meet special requests.

Lectures.

The state makes heavy demands upon the Extension Division for lectures. We are able to comply with most of these requests through the kindness of the men in the regular University faculty who are willing to respond to these calls. In adition to this, the regular staff of the Extension Division responds to a large number.

Bulletins.

Fourteen bulletins dealing with various subjects have been issued during this biennium, with a total circulation of approximately 45,000 copies.

Correspondence Study.

Correspondence study for college credit has been inaugurated at the University through the Extension Division. A large number of courses have been announced. The present indications are that the coming year will see a large number of people enrolled in correspondence study work.

DEAN OF WOMEN.

ANNA M. KLINGENHAGEN.

The last two years have further emphasized the need of another hall of residence for young women. Last fall nearly 800 young women were registered in the College of Liberal Arts. Of that number, 168 had obtained rooms in Currier Hall, 96 lived in sorority houses, 209 lived with relatives in Iowa City, 38 were working in private families for their room and board, and the remainder, nearly 300, were scattered about the city in probably 100 rooming houses. These latter ought to be living in some place where the living conditions and environment can be directly controlled by the University authorities. A year ago, Currier Hall was filled by July 1 for the coming school year, and applicants for rooms after that date had to be placed on a waiting list to take their chances. Every year, young women who had hoped to come to Iowa have withdrawn their deposits when they were unable to obtain rooms in Currier Hall, and have gone to other institutions. At the present time, there are only about 25 places left of the 168, and, as deposits are steadily coming in, the hall will probably be filled this year before July 1. Your dean of women feels more strongly every year that caring for the physical and moral welfare of the young women ought to be considered as important as providing for their intellectual development; and she therefore urgently asks that the budget to be presented to the next legislature include a request for a new hall of residence for young women.

The system adopted a few years ago, by which the dean of women is academic adviser for freshmen and sophomore women, has provided an opportunity for a natural approach to the young women from the beginning of their college course. During registration days, the dean of women sees, if only for two or three minutes, all the young women who are entering the University for the first time. The fact that the first encounter with these students is not of a disciplinary nature is of great advantage to the work of the office.

By an action of the liberal arts faculty, taken at the request of the dean of women, in February of this year, the one-hour-a-week first semester course of lectures for freshman women has been extended throughout the year. An opportunity has thus been provided for additional lectures on vocational opportunities for women, for talks on mental efficiency, and for the presentation, by the different departments in the

University, of the purport and scope and value of their subjects. Experience has shown that too many young women have no idea of the meaning of the work in some departments of the University and of the part different courses play in the development of a well-rounded, broad-minded individual. It is hoped that the new plan will enable the young women, at the close of their freshman year, to select work for the following years with intelligence rather than at haphazard.

Much of the work of a dean of women necessarily deals with subjects concerning which no report can be made in a public document. It has been a matter of personal gratification, however, to your present dean of women to see how, year after year, more and more young women come to her with their problems, both academic and private. Members of the faculty, as well, seem to realize that her office is interested in anything that pertains to the welfare of the young women, and their voluntary co-operation has been of great value.

ADVISER OF MEN.

ROBERT E. RIENOW.

Perhaps the most important step in the development of this department has been the outlining of the field to be covered. This work, in all universities, has been one of such recent development that landmarks are few and far between. In the University of Iowa, it has meant practically organizing a new department. So far, the work has proceeded along the following lines: oversight of the social life of the young men, for their own good and that of the University; keeping in touch, through reports from the instructional staff, with students delinquent in their work, and with all excuses for absences; corresponding with parents and teachers relative to the academic work and conduct of students; investigating and reporting on cases for discipline; working with fraternities and fraternity men, of whom we have over six hundred, to the end that these organizations may become influences for uplift among our students, and command the respect and confidence of parents and friends of the University.

In a large and ever-growing university, the oversight of the social life of its young people is becoming more and more an essential part of the university work, not necessarily because the social life is bad, or that young men and young women need espionage; but largely because of the close relation between social life and mental, moral and physical efficiency. To this end, it is the ambition of this office to keep in such close touch and sympathy with the student body that they may be led to see the necessity of reasonable regulations governing social life, and the necessity of carefully obeying them. The young man who finds himself carried away by enticing attractions of the college world soon finds his interest in his academic work lost, his time wasted, and failure staring him in the face. Through conference, and through social regulations, it is hoped that the academic mortality caused by social dissipation will be largely reduced.

Through the bi-weekly scholarship reports, an effort is made to keep in close touch with the academic work of students who are inclined to be delinquent in their classroom preparation. Whenever such students are reported as delinquent, they are called in for a conference. An effort is made to discover the reason for such delinquency, and to remove it. The causes for delinquency are, naturally, of a large variety. Perhaps the most common, and at the same time the most natural one, is plain lack of application; but frequently lack of application has back of it causes which make it very difficult for students to recover themselves and do anything like reasonable work. In such cases, every influence possible is brought to bear upon the student to make him see the necessity of hard and conscientious work if he would meet with any degree of success. If no response is met with through personal conferences, the aid of parents is solicited by correspondence. Frequently high school principals and superintendents are written to; and, in many cases, results well worth the effort have been gained. Where delinquencies are due to inefficient preparation, or natural duliness and mental inability, this should be discovered promptly, that those in authority may immediately take up with the student the problem of finding some other line of work to which his energies may be directed with better assurance of success. It is unfortunate that our traditional attitude towards education makes it so easy to stamp young men as failures, who, through lack of interest, application, preparation, or ability, find it impossible to do satisfactory college work. In many instances it simply means that the young man has taken up the wrong line of work. Here lies the necessity for counsel and advice in adjusting these young men to new conditions and opening up to their vision prospects for successful and prosperous efforts.

Perhaps no line of work has met with more satisfaction than the large correspondence carried on with parents and students. It means that no student is asked to leave the University until his parents have been notified of the causes in time to use their best efforts in order to remedy the same, if it is possible. In every instance, the heartiest co-operation is met with, and in few cases have parents expressed themselves as dissatisfied with the results. Much help has been received from the correspondence with principals and superintendents of schools, who have had young men in their charge before coming to the University; and I have always found them more than anxious to co-operate when information is asked for. All of these many activities naturally have for their purpose the preserving, even in a large growing university, of the personal human element and touch with individual students. It, to a large degree, eliminates the dangers of dealing with young men in masses, and holds each one responsible for the best that is in him.

The fraternity problem in the modern university and college has of late years been one of increasing importance and difficulty. The University of Iowa, with a student enrollment of about three thousand, has on its campus twenty-six organizations known as fraternities and local clubs. These have a total membership of six hundred and fifty-five. These men, living as they do in chapter houses and providing their own table board, present a real problem of social, moral, and academic life that is at once interesting and important. If such organizations could exist without, in any manner, affecting the university life, or the moral and academic life of the young men composing their membership, it would be easy to dispose of the problem as one not concerning the university; but, since they do vitally affect the university conditions and the lives of their members, the problem becomes a real administrative one. However, it is a problem the solution of which will never be reached through arbitrary regulations imposed by university administrations without the sympathy and co-operation of the young men composing this large system. We may hope for results in this field only by stimulating the members of these organizations to see that their salvation lies in inculcating in their men the ideals and principles for which the fraternity stands; and by soliciting their co-operation to the end that their members may advance their own interests and the interests of the university through stimulating better ideals of scholarship, conduct, and business administration. So far, this work, as carried on by this department, has been most encouraging.

There can be no doubt of the fact that our fraternities are largely composed of able and capable men. They are the product of our best homes and are fitted by nature and economic conditions for useful, serviceable lives; and with the continuation of the present policy towards the fraternities we hope the time is not very far distant when fraternities will be looked upon as a source of strength in university life and a help and benefit to their members, and will be worthy of the respect and confidence of the faculty of the University and the people of the state.

Permit me at this point to call attention to the rooming and boarding conditions among men students of the University who are not members of fraternities. These men are scattered over the entire city, in all sorts of localities and in all kinds of rooms. Up to the present time, it has been impossible to do very much with rooming conditions. This is a large and important problem, and should not be lightly approached. The natural growth of the University has congested the student population near the campus, with the result that room rents are unusually high in this locality, and the accommodations not always of the best. It is difficult for a student to secure a desirable room for less than fourteen to sixteen dollars a month, where two take a room. Desirable single rooms can not be procured for much less than ten dollars a month. The large majority of our younger students board at restaurants where board ranges from three to five dollars a week.

It is fair to assume that little or nothing in the way of regulating rooming conditions for men can be done until the state provides certain dormitory facilities. I doubt if there is any building so necessary to the welfare of the students of the University of Iowa as a dormitory for young men. As soon as practicable, arrangements should be made whereby all freshmen should be required to room in dormitories during their first year under university regulations. At present, one dormitory would re-

lieve the situation, and would make possible the regulation of other rooming conditions that would be most desirable.

When one stops to consider that the university or college is established and supported primarily for the purpose of training its students for active leadership and efficiency in life, it is surprising that we are so neglectful in providing conditions that will make the work effective and successful. Permit me at this time to urge, in the strongest manner possible, upon the Board of Education the necessity for erecting a men's dormitory at the earliest moment.

REPORT OF THE REGISTRAR, STATE UNIVERSTY OF IOWA

H. C. DORCAS, REGISTRAR.

The attendance during each year of the biennium was as follows:

ATTENDANCE 1914-1915

	Men	Women	Total
The Graduate College—			
In residence, regular academic year	121	49	170
In residence, summer session	104	85	189
Iowa Lakeside laboratory	3	8	11
Projected registration	20	10	30
	248	152	400
Counted more than once	24	12	36
Total	224	140	364
The College of Liberal Arts—			
Fourth year	68	107	175
Third year	115	112	227
Second year	205	164	369
First year	309	173	482
Special and unclassified	34	28	62
Projected registration	1	8	9
	732	592	1,324
In attendance summer session only	70	90	160
Total	802	682	1,484
Counted more than once	57	5	62
Net total	745	677	1,422
The College of Law—			
Third year	53		53
Second year	47	1	48
First year	85	1	86
Special	6		6
Counted more than once	191	2	193
	2		2
Total	189	2	191
The College of Medicine—			
Fourth year	23	1	24
Third year	30		30
Second year	27		27
First year	62		62
Special	2		2
Total	144	1	145
Nurses		86	86
The College of Homeopathic Medicine—			
Fourth year	3		3
Third year	2		2
Second year			
First year	5	1	6
Total	10	1	11
Nurses		14	14

ATTENDANCE DURING 1914-1915—Continued

	Men	Women	Total
The College of Dentistry—			
Third year	68	1	69
Second year	87	1	88
First year	136	1	137
Special	2		2
Total	293	3	296
The College of Pharmacy—			
Second year	19	3	22
First year	39	4	43
	58	7	65
Counted more than once	1		1
Total	57	7	64
The College of Applied Science—			
Fourth year	32		32
Third year	51		51
Second year	69		69
First year	99		99
Special	3		3
Total	254		254
The College of Fine Arts—			
Fourth year	1	4	5
Third year	1	7	8
Second year	2	16	18
First year	5	20	25
Special	16	70	86
Preparatory (Music)	7	24	31
	32	141	173
Counted more than once	13	24	37
Total	19	117	136
The Summer Session, 1914—			
The College of Liberal Arts	108	136	245
The Graduate College	104	85	189
The College of Fine Arts	1	9	10
School for Library Training		13	13
Total	213	243	457
At the Iowa Lakeside Laboratory—			
The Graduate College	3	8	11
The College of Liberal Arts	10	8	24
Total in Summer Session	232	259	492
Counted more than once	86	60	146
Total in Summer Session, excluding students registered during remainder of academic year	146	199	346

SUMMARY.

The Graduate College	224	140	364
The College of Liberal Arts	745	677	1,422
The College of Law	189	2	191
The College of Medicine	144	1	145
Training School for Nurses	0	86	86
College of Homeopathic Medicine	10	1	11
Training School for Nurses	0	14	14
The College of Dentistry	293	3	296
The College of Applied Science	254	0	254
The College of Fine Arts	19	117	136

SUMMARY—Continued

	Men	Women	Total
The College of Pharmacy	57	7	64
Library Training	0	13	13
Total to March 15, 1915, excluding those counted more than once	1,935	1,061	2,996

STATISTICS FOR THE ACADEMIC YEAR 1914-1915

DEGREES AND CERTIFICATES CONFERRED.

Advanced Degrees—			
Doctor of Philosophy	7	0	7
Master of Arts	21	7	28
Master of Science	10	3	13
Master of Science in Medicine	2	0	2
Civil Engineer	11	0	11
Total advanced degrees	51	10	61
First Degrees—			
Bachelor of Arts	77	98	175
Bachelor of Science	14	0	14
Bachelor of Laws	51	0	51
Doctor of Medicine	22	1	23
Doctor of Medicine (Homeopathic)	3	0	3
Doctor of Dental Surgery	55	1	56
Graduate in Pharmacy	13	3	16
Pharmaceutical Chemist	2	0	2
Bachelor of Engineering	20	0	20
Bachelor of Science and Chemistry	5	0	5
Bachelor of Science (Applied Science)	1	0	1
Total first degrees	263	103	366
Certificates—			
Nurses' Training School	0	26	26
Nurses' Training School (Homeopathic)	0	4	4
School of Education	14	77	91
Internes	3	0	3
Resident Physician's Certificate	1	0	1
House Physician's Certificate	3	1	4
House Surgeon	1	0	1
Clinical Assistants	2	0	2
Total certificates	24	108	132
Total number of degrees and certificates granted	338	221	559

RESIDENCE OF STUDENTS BY COUNTIES, 1914-1915.

IOWA COUNTIES	L. A.		Law		Med.		Hom.		Dent.		Pharm.		Grad.		Ap. Sc.	F. A.		N.	H.	Lib.	Total Ex.dup.	
	M.	W.	M.	W.	M.	W.	M.	W.	M.	W.	M.	W.	M.	W.	M.	M.	W.	W.	W.	W.	M.	W.
Adair	4	2	1		1				4	1					1						10	3
Adams	6				1								1	1	2			1			9	2
Allamakee	5	3	1						2		1			3	2						10	6
Appanoose	7	1			2						1		2								11	1
Audubon	2	2												1					3		2	6
Benton	6	7	1		2				3				2	1	3			1			17	7
Black Hawk	6	6	4		1	1			3				2	3	8		2	3			23	14
Boone	2	5	1						4				2		1		2	1		1	9	9
Bremer	10	4	4												3		1				17	5
Buchanan	6	5	2								1		2		3				1	1	12	7
Buena Vista	6	3			1				4									3			10	6
Butler	5	4	1		1				1												7	4
Calhoun	3	3			3		1		3				2		1						13	3
Carroll	3	9	1		2				1					2	1				1		8	11
Cass	16	8	2		1				1		1			1	1						21	9
Cedar	8	13	3		1		1		1						2		2	2			15	16
Cerro Gordo	3	8	7						1				2		3			3		1	15	12
Cherokee	2	2	1		1				3				1	2	3						11	4
Chickasaw	7	9	3		1				5						2		1				18	10
Clarke	8	2	1								1				1	2					13	2
Clay	3	7	1						1	1	1			1	4						10	9
Clayton	12	5	2						4		3		1	1	1			1			20	6
Clinton	13	9	4		4				5		1	2	1	3	4						31	13
Crawford	14	8			1				1				1	1							15	8
Dallas	2	8	3		2				3		1		1	1							12	8
Davis	4	1	1												1						6	1
Decatur	12	6	1						3				2	2	1					1	19	7
Delaware	1	1	2		2								2	2							6	3
Des Moines	17	7	3		1				2				5		7	2					36	7
Dickinson	2	1	1						1						2						5	1
Dubuque	12	5	3		3				3		1		2		4		1				27	6
Emmet	4	6			1												1	1			5	8
Fayette	7	5	3		1			1	3		1			1	4	1		1	2	1	20	11
Floyd	7	4							1		1				1						10	4
Franklin	1	2	2										1		1						5	2
Fremont	9	8							1						2		1				11	9
Greene	10	7	2								2				1						14	7
Grundy	1	2	2								1		1						2		5	4
Guthrie	5	5							1							1					5	5
Hamilton	5	2							6						1					1	12	3
Hancock	1	2					1				1		1					1			4	3
Hardin	12	9	2		1				9				2		1		3	1		1	26	13
Harrison	12	4							2		1		2		2	1					18	4
Henry	12	9	1		1				3				2	2	7		1				23	11
Howard	4	1		2					1				3		1			1			7	4
Humboldt	5	3	1		2				1					1	1	1					10	4
Ida	5	5	2		3				1				4		1		2				15	7
Iowa	9	14	1		5				3		2		1	2	7		3	4			28	22
Jackson	13	6	5		3				4		4	1		1	7		2	5			35	15
Jasper	3	4	4		2				2					4	1			1			11	7
Jefferson	3	2	1		1				1				6	2	3			2			13	6
Johnson	109	205	16		20		2		13	1	3	3	46	69	43	7	53	13	2	1	242	309
Jones	12	5	3						1		3		2		2			2			22	7
Keokuk	12	7			2				1		1		2	2	1		1	1			17	11
Kossuth	4	8	2		1									1	2		1	2			9	11
Lee	12	7	3						1				2		4	1	1				23	9
Linn	15	14	11		4				7		1		22	6	11			3			70	22
Louisa	4	7							2				1	1	5		2	1			12	11
Lucas	2	2	1						1		1				1						6	2
Lyon	6	3							2								1	1			8	5
Madison	7	1	1		1									2	1					1	10	4
Mahaska	8	3	2		1				1		1		2	2	2						14	5
Marion	3		1						3				1		1						9	
Marshall	5	1	2						8		1		2		1			1			19	2
Mills									2				1								3	
Mitchell	1	1														1	1				2	2
Monona	9	5	2		1				1		1		3		2	3	1				22	6
Monroe	3	2											5				1				6	3
Montgomery	6	4			2						2		3					1			13	5
Muscatine	12	10	4		2				3		1		2	1	9	1	3	1		1	33	15
O'Brien	7	7	4		3				3		1		3		1			2			21	9
Osceola	4	4			1				1				2		1		1				9	5
Page	7	4							2		1		2		1						12	4
Palo Alto	9	5	2		1				2				2		4						19	5
Plymouth	8	3	1		2				3		2		1	1			1				17	5
Pocahontas	7	8	1		4								1				1	1			13	10
Polk	28	23	5		3		3		6		1		11	5	6	3	1				63	29
Pottawattamie	10	9	1						4				2	2	1						16	10
Poweshiek	3	10	3		1				6		1		2	6			2	5	1		15	22
Ringgold	4	1	1						1				1		2						8	1
Sac	2	5	1						2												5	6
Scott	15	13	8		2				2				2	2	2			1			31	16
Shelby	6	1	1																		7	1

RESIDENCE OF STUDENTS BY COUNTIES—Continued

IOWA COUNTIES	L. A.		Law		Med.		Hom.		Dent.		Pharm.		Grad.		Ap. Sc.	F. A.		N.		H. N.	Lib	Total Ex.dup.	
	M.	W.	M.	W.	M.	W.	M.	W.	M.	W.	M.	W.	M.	W.	M.	M.	W.	W.	W.		W.	M.	W.
Sioux	12	5	4		5				6		1		2		2		2	1				31	8
Story	7	3	2		2				3				1		1							16	3
Tama	14	6	1		3				3				4	2			3					24	10
Taylor	1	2	1						1		2		1				1					6	3
Union	2	2	3		1				2						1							9	2
Van Buren	7	3							1				2		2							11	3
Wapello	8	4			2				1				1	1	1	1	3	1				11	9
Warren	1												2	3								3	2
Washington	10	10	1		1				2				2	2	5		2	2				21	15
Wayne	2	8	1		1				2		1		1		2			2				10	10
Webster	5	8	2		2				5			1										14	9
Winnebago	1	4			1						1											3	4
Winneshiek	2	4									1		5		1				2			8	6
Woodbury	19	11	4		1				3				6	1	6	1	1					36	13
Worth					1				1									1				2	1
Wright	6	4	5		1				3				1		2		1	1				18	6

OTHER STATES AND FOREIGN COUNTRIES.

California	1	1			1				4								1					6	2
Colorado	4	2							4								1					8	2
Connecticut					1																	1	
Florida					1																	1	
Idaho	4		1		1				1				1									8	
Illinois	16	6	2		3				7		4		12	4	8		1	5		1		48	16
Indiana	2												6		1		1					7	1
Kansas	4	3			1				5				3	1								12	3
Kentucky		1			1																	1	1
Louisiana					1																	1	
Massachusetts														1	1							1	1
Michigan	4								1				2		1			1				8	1
Minnesota	3	6	1		2		1		10				8	2	3		1	1				25	10
Missouri	4	2	1		2				1		1		4		1	1	1					15	3
Montana	1		1						2						3		1					7	1
Nebraska	4	3	2						7				3		2	1	1	2		2		18	8
New Hampshire	1																					1	
New Jersey	2																					2	
New York	1	1							2				2									5	1
North Dakota		2							1				1	2			1					2	4
Ohio		2											1									1	2
Oklahoma		3	1						1				1				1					3	4
Oregon													1									1	
Pennsylvania	2												1									3	
South Dakota	8	2							15						4		2	1	1			26	6
Tennessee																	1						1
Vermont													1									1	
Virginia	1								1													2	
Washington	2				1				1													3	
West Virginia	1								1													2	
Wisconsin	2	3							9				3					1				14	4
Wyoming	1		1																			2	
Foreign Countries	14	3	1		6		1		8		1		16		3							44	2
No Statistics	2	1							2				2	1			3		1			6	6
Totals	856	749	191	2	144	1	10	1	292	3	58	7	273	158	255	28	122	86	16	13		1989	1000

AGES OF STUDENTS, 1914-1915.

AGES OF STUDENTS 1914-1915	L. A.		Law		Med.		Homeo		Dent.		Pharm.		Grad.		A. S.	F. A.		N.	H.N.	Lib	Total Ex.dup.	
	M.	W.	M.	W.	M.	W.	M.	W.	M.	W.	M.	W.	M.	W.	M.	M.	W.	W.	W.	W.	M.	W.
Under 17	2	4	----	----	----	----	----	----	----	----	3	----	----	----	----	----	1	----	----	----	5	5
17	26	32	----	----	----	----	----	----	----	----	----	----	----	----	5	----	8	----	----	----	31	40
18	87	81	1	----	----	----	----	----	12	----	7	----	----	----	27	5	12	----	----	----	139	98
19	123	120	7	1	2	----	----	----	34	----	7	----	1	----	34	4	15	4	1	----	212	141
20	157	121	31	----	8	----	2	1	45	----	15	4	1	1	45	5	16	13	1	1	309	158
21	128	81	31	----	15	----	----	----	50	1	8	1	5	5	45	6	15	14	3	----	288	120
22	88	76	28	----	21	----	1	----	45	----	7	----	7	11	45	2	14	17	4	----	244	122
23	50	41	30	----	22	----	3	----	31	----	2	----	8	16	21	2	4	9	2	1	169	73
24	35	32	18	----	21	----	1	----	21	----	1	----	16	19	14	1	5	6	----	----	128	62
25	21	12	18	----	18	----	3	----	15	----	----	1	17	11	6	1	2	5	2	----	99	33
26	14	13	14	----	14	----	----	----	11	----	3	----	22	5	3	1	3	4	1	2	82	28
27	11	8	4	----	6	1	----	----	9	----	2	----	14	8	2	1	1	4	1	1	49	24
28	7	8	3	----	3	----	----	----	2	1	2	----	14	10	2	----	4	2	----	----	33	25
29	6	5	2	----	2	----	----	----	2	----	----	----	21	6	2	----	3	3	----	----	35	17
30	4	11	3	1	4	----	----	----	4	----	----	----	10	6	1	----	----	1	----	1	26	20
31	----	5	----	----	2	----	----	----	3	1	----	----	11	6	1	----	2	1	----	3	17	18
32	5	1	----	----	2	----	----	----	1	----	----	----	6	6	----	----	1	2	----	1	14	11
33	----	2	----	----	1	----	----	----	----	----	----	----	8	4	2	----	----	1	----	1	11	8
34	5	4	----	----	3	----	----	----	----	----	----	----	10	2	----	----	----	----	----	1	18	7
35	2	5	----	----	----	----	----	----	----	----	----	1	7	2	----	----	1	----	----	----	9	9
Over 35	16	40	1	----	----	----	----	----	4	----	----	----	40	19	----	----	5	----	----	1	61	63
No statistics	5	----	----	----	----	----	----	----	3	----	1	----	10	1	----	----	7	----	1	----	19	9
Totals	797	702	191	2	144	1	10	1	292	3	58	7	228	138	255	28	119	86	16	13	1998	1088

RELIGIOUS CENSUS, 1914-1915.

RELIGIOUS CENSUS 1914-1915	L. A.		Law		Med.		Hom.		Dent.		Pharm.		Grad.		A. S.	F. A.		N.	H.N.	Lib	Total Ex. dup.	
	M.	W.	M.	W.	M.	W.	M.	W.	M.	W.	M.	W.	M.	W.	M.	M.	W.	W.	W.	W.	M.	W.
Baptist—																						
Membership	30	32	3	----	7	----	----	----	12	----	3	----	13	13	3	1	10	5	----	1	72	61
Preference	10	4	2	----	----	----	----	----	7	----	2	----	2	----	2	----	----	----	----	----	25	4
Catholic—																						
Membership	60	88	43	----	15	----	1	----	17	----	6	2	7	23	29	4	13	12	----	2	182	146
Preference	6	2	1	----	----	----	----	----	1	----	----	----	----	----	----	----	----	----	----	----	8	2
Christian—																						
Membership	26	30	4	----	6	----	----	----	20	1	1	----	7	4	13	----	7	3	1	1	77	47
Preference	11	4	4	----	2	----	----	----	2	----	3	----	----	2	5	----	----	----	3	----	27	9
Congregational—																						
Membership	50	66	15	----	7	----	1	----	10	1	3	----	14	9	10	1	9	5	1	1	111	92
Preference	30	18	4	----	4	----	----	----	9	----	1	2	6	4	7	1	4	2	1	----	61	32
Episcopal—																						
Membership	21	24	6	----	2	----	----	----	7	----	2	----	4	3	10	3	6	3	----	1	55	37
Preference	6	12	----	----	----	----	----	----	2	----	----	----	----	1	2	----	3	----	----	----	10	16
Lutheran—																						
Membership	39	33	4	----	3	----	1	1	24	----	7	----	15	4	16	3	4	12	1	----	112	55
Preference	4	6	----	----	1	----	----	----	----	----	2	----	1	----	1	----	2	----	----	----	9	7
Methodist—																						
Membership	166	156	27	2	36	----	3	----	49	1	13	----	50	27	44	7	17	12	5	4	395	224
Preference	57	35	17	----	8	----	----	----	29	----	3	1	8	5	37	1	9	6	2	----	160	58
Presbyterian—																						
Membership	83	85	15	----	16	----	1	----	22	----	4	1	32	17	22	4	17	11	----	1	199	132
Preference	46	35	4	----	6	----	----	----	15	----	2	----	6	3	10	----	6	4	----	----	89	48
Unitarian—																						
Membership	2	6	2	----	2	----	----	----	2	----	----	----	2	----	1	----	----	----	----	----	11	6
Preference	7	5	3	----	1	----	----	----	----	----	----	----	3	6	1	----	----	----	----	----	15	11
Other denominations	61	35	12	----	14	1	1	----	25	----	1	----	28	8	15	1	3	10	1	1	158	59
Protestant	20	10	8	----	8	----	----	----	10	----	----	1	4	1	12	----	----	----	----	----	62	12
No statistics	43	16	12	----	5	----	2	----	19	----	5	----	26	8	7	----	8	1	1	1	119	35
No preference	14	1	4	----	1	----	----	----	10	----	----	----	1	----	8	2	1	----	----	----	40	2
Atheist	----	----	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	1	----
Totals	792	702	191	2	144	1	10	1	292	3	58	7	229	138	255	28	119	86	16	13	1998	1089

OCCUPATIONS OF PARENTS, 1914-1915.

OCCUPATIONS OF PARENTS 1914-1915	L. A.		Law		Med.		Hom.		Dent.		Pharm.		Grad.		A. S.		F. A.		N.		N'H		Lib		Total Ex. dup.	
	M.	W.	M.	W.	M.	W.	M.	W.	M.	W.	M.	W.	M.	W.	M.	W.	M.	W.	W.	W.	W.	W.	W.	W.	M.	W.
Accountants, salesmen, managers, etc.	87	58	30		17				40		7		14	26	23		5	11	5				1		213	101
Farmers	215	206	52	1	53		4		74	1	10		73	40	66	1	3	32	35		6		2		550	323
Bankers	20	13	4						3				1	4	1		1	5					1		30	23
Contractors, builders, architects, etc.	17	15	5		3				4		1		5	1	5		2		2		1				42	19
Government service	15	12	6						10		1	1	10	4	8		1	3	3		1				51	24
Manufacturers	13	12	4				1		16		2		3	2	12			1			1				56	16
Merchants	129	128	29	1	20		1	1	45		17	3	24	18	54		2	21	9				2		321	183
Professions— Law, medicine, dentistry, ministry, teaching, engineering, etc.	130	122	38		36	1	3		34	1	4	1	32	24	22		4	18	8		1		3		293	174
Other occupations—																										
Employers	25	12	1		1				1					1	1										29	13
Employees	80	58	18		11		1		30	1	9	2	16	11	45		7	8	15		3		1		226	99
No statistics	66	66	14		3				26		7		60	17	13		3	20	14		3		3		182	123
Totals	792	762	191	2	144	1	10	1	262	3	58	7	228	148	255		28	119	86		16		13		1968	1068

ATTENDANCE 1915-1916

	Men	Women	Total
The Graduate College—			
In residence, regular academic year	128	78	206
In residence, summer session	136	98	234
Iowa Lakeside Laboratory	8	5	13
Projected registration	21	8	29
	293	189	482
Counted more than once	54	22	76
Total	239	167	406
The College of Liberal Arts—			
Fourth year	112	122	234
Third year	143	142	285
Second year	189	180	369
First year	344	288	632
Unclassified	66	72	138
Projected	7	8	15
In residence, summer session	151	205	356
Iowa Lakeside Laboratory	14	13	27
	1,026	1,030	2,056
Counted more than once	76	80	156
Total	950	950	1,900
The College of Law—			
Third year	38	0	38
Second year	64	1	65
First year	53	0	53
Total	155	1	156
The College of Medicine—			
Fourth year	30	0	30
Third year	20	0	20
Second year	43	0	43
First year	59	2	61
Unclassified	4	0	4
Total	156	2	158
Nurses	----------	81	81
The College of Homeopathic Medicine—			
Third year	2	0	2
Second year	3	1	4
First year	4	0	4
Total	9	1	10
Nurses	----------	16	16
College of Dentistry—			
Third year	89	1	90
Second year	87	1	88
First year	119	2	121
Unclassified	2	0	2
Total	297	4	301
The College of Pharmacy—			
Third year	4	0	4
Second year	29	1	30
First year	37	3	40
Total	70	4	74
The College of Applied Science—			
Fourth year	38	----------	38
Third year	56	----------	56

ATTENDANCE 1915-16—Continued

	Men	Women	Total
Second year	55		55
First year	94		94
Unclassified	6		6
Summer session	3		3
	252		252
Counted more than once	2		2
Total	250		250
Music—			
Academic year	18	106	124
Summer session	5	26	31
	23	132	155
Counted more than once		3	3
Total	23	129	152
Summer Session, 1915—			
Graduate	136	98	234
Liberal Arts	150	205	355
Music	5	26	31
Applied Science	3	0	3
Library Training	0	20	20
Iowa Lakeside Laboratory—			
Graduate	8	6	14
Liberal Arts	14	13	27
	316	368	684
Counted more than once	3	8	11
Total	313	360	673

Totals.

The Graduate College	239	167	406
The College of Liberal Arts	950	950	1,900
The College of Law	155	1	156
The College of Medicine	156	2	158
Training School for Nurses	0	81	81
The College of Homeopathic Medicine	9	1	10
Training School for Nurses	0	16	16
The College of Dentistry	297	4	301
The College of Pharmacy	70	4	74
The College of Applied Science	250	0	250
School of Music	23	129	152
Library Training	0	20	20
	2,149	1,375	3,524
Counted more than once	148	90	238
Total	2,001	1,285	3,286

STATISTICS FOR ACADEMIC YEAR 1915-1916

DEGREES AND CERTIFICATES CONFERRED

Advanced Degrees—			
Doctor of Philosophy	8	0	8
Master of Arts	11	7	18
Master of Science	15	2	17
Civil Engineer	9	0	9
Total	43	9	52

ATTENDANCE 1915-16—Continued

	Men	Women	Total
First Degrees—			
Bachelor of Arts	82	115	197
Bachelor of Science	18	0	18
Bachelor of Laws	33	0	33
Doctor of Medicine	29	0	29
Doctor of Dental Surgery	80	1	81
Graduate in Pharmacy	17	1	18
Pharmaceutical Chemist	2	0	2
Bachelor of Engineering	28	0	28
Bachelor of Science in Chemistry	1	0	1
Bachelor of Science (Applied Science)	2	0	2
Bachelor of Music	1	0	1
Total	293	117	410
Certificates—			
Nurses Training School	0	22	22
Nurses Training School (Homeopathic)	0	7	7
School of Education	14	97	111
Public School Music	0	7	7
Internes	5	0	5
Senior Clinical Assistant	1	0	1
Clinical Assistant	3	0	3
Total	23	133	156
Total number of degrees and certificates granted	359	259	618

RESIDENCE OF STUDENTS BY COUNTIES, 1915-1916

COUNTIES	L. A.		Law		Med.		Hom.		Dent.		Pharm.		Grad.		Ap. Sci.	Music		N.	H.N.	L.	Total	
	M.	W.	M.	W.	M.	W.	M.	W.	M.	W.	M.	W.	M.	W.	M.	M.	W.	W.	W.	W.	M.	W.
Adair	7	7			1				3	1							1				11	9
Adams	7	3							1				1	2	6		1			1	15	7
Allamakee	5	6					1		1		2		1	1	4		2				14	9
Appanoose	5	1	1		4								1	1							11	2
Audubon	5	1							1										3		6	4
Benton	8	6	2		1				3				2				1	3			16	10
Black Hawk	12	10	2						3				4	2	5		2	3		1	26	18
Boone	2	6	1		1				1		1		3	1	2			2			11	9
Bremer	9	5	5		2								2	1							18	6
Buchanan	8	8	1		1				1		1		2	1	2				1		16	10
Buena Vista	9	5			1				4				1		1	1		3			17	8
Butler	7	4			1				2												10	4
Calhoun	6	4	1		3				9				1		1		2				21	6
Carroll	6	4			1				1				1	1			1				9	6
Cass	13	6			1				1		1		1	2	2						19	8
Cedar	7	17	3		1		1		2				1		2		3	1		1	17	22
Cerro Gordo	4	6	5						1					1	3			2		1	13	10
Cherokee	1	3	2		1				3					2	2			2			9	7
Chickasaw	12	6	1		1				5		1			1			1				20	8
Clarke	6	1							1		1		1		1						10	1
Clay	5	7	1						4	1	3				1						14	8
Clayton	8	5							5		1		4	2	2	1		1			21	8
Clinton	18	19	4		4				6		2		3	1	6		2			1	43	23
Crawford	16	6							3				1	1							20	7
Dallas	4	9	2		2				4				1	2	3		3				16	14
Davis	4	1	1										1		1						7	1
Decatur	11	9	1						1				2	2	1						16	11
Delaware	3	2	2		2								1				1				8	3
Des Moines	19	11	2		1				3				4		8	1					38	11
Dickinson	1	1							1						3						5	1
Dubuque	12	3	3		1				3		2		1		4	1					27	3
Emmet		5			1								1		1						3	5
Fayette	6	6	1		2			1	4		1		1	1	2	2		2	2		19	12
Floyd	6	7									1		2		1		1				10	8
Franklin	2	4	1		1								1		2						7	4
Fremont	10	5	1						1						1						13	5
Greene	6	3	2		1						2		2	1	1						14	4
Grundy	1	4	1						1				1		1				2		6	6
Guthrie	8	4	1						2						1		1	1			12	6
Hamilton	6	4							5												11	4
Hancock	2	2					1				1		1				1	1			5	4
Hardin	11	10	2		1				8		1		1	1	1		3			1	25	15
Harrison	8	9	2		1				3		2		5								21	9
Henry	9	3	1						2				2	2	8						22	5
Howard	4	1		1					4		1		2								11	2
Humboldt	9	4	1		1				3				2	1	2		1				18	6
Ida	5	6	1		4				1				2		1		1				14	7
Iowa	10	18	1		5				1	1	1		1	3	6			4	1	1	25	28
Jackson	12	5	4		6				2		4	1	4	1	6			6			38	13
Jasper	2	5	3		1				3					2	1						10	7
Jefferson	3	2	1		1								3		2			1			10	3
Johnson	123	235	13		22	1	2		12		7	2	37	71	42	2	35	7	2		260	353
Jones	14	4	2		1									1	1			2			18	7
Keokuk	16	10	1		1				1		1		1	2			2	2			21	16
Kossuth	7	7	3		1				1						1		3	3			13	13
Lee	10	15							1					1	5	1	1				17	17
Linn	20	19	6		4				10		1		10	5	11		1	6		1	62	33
Louisa	8	6	2			1			2				1	1	7			2			20	10
Lucas	3	4							4		1		2		1						11	4
Lyon	6	6							3									1			9	7
Madison	3	4	1		2				2		1		1	1	1						11	5
Mahaska	5	4			1				3				1	1	2						12	5
Marion	3	1	1		1				5				2								12	1
Marshall	10	9	1		2				6		1		1		1			1			22	10
Mills	2								2				2								6	
Mitchell	3	2			1								1		2	1					8	2
Monona	8	5	1		2												1			1	11	7
Monroe	4	9											2	1							6	10
Montgomery	14	8			2						1		1		1	1	1				20	9
Muscatine	14	17	2		1				4		1		2	1	9		2			1	33	21
O'Brien	8	11	5		1				4		1		3	1	2		2	1			24	15
Osceola	3	1	1										2		1		1				7	2
Page	4	3							2		1		2		1		1		1		10	5
Palo Alto	5	8	1		2				2					1	4						14	9
Plymouth	9	5	2		2				3					1							16	6
Pocahontas	10	16	1		3				1				1				5	2			16	23
Polk	29	23	4		6		2		8				5	6	3	1	1		1	2	58	33
Pottawattamie	13	22	1						3				1	1			2				18	25
Poweshiek	5	12	2		2				6		1		2	4			3	3	1		18	23
Ringgold	3	2	2										1		1						7	2
Sac	6	5	1		1				2					1	2						12	6
Scott	16	16	4		1				3				2	1	3		2	1		1	29	21

RESIDENCE OF STUDENTS BY COUNTIES—Continued

COUNTIES	L. A.		Law		Med.		Hom.		Dent.		Pharm.		Grad.		Ap. Sc.	Music		N.	H. N.	Lib	Totals	
	M.	W.	M.	W.	M.	W.	M.	W.	M.	W.	M.	W.	M.	W.	M.	M.	W.	W.	W.	W.	M.	W.
Shelby	5	2			1									1	1						7	3
Sioux	18	7	4		4				4		2		3				2	1			35	10
Story	9	3	3		2				3						3						20	3
Tama	12	7	2		3				3				7	2			3	2			27	14
Taylor	2	6	1						1		2		1				1				7	
Union	2	5	1		2				2						3						10	5
Van Buren	6	4											1		1						8	4
Wapello	12	22			2					1	1			1	1	1		1			17	25
Warren	1	2					1		1				4	1			1			1	7	5
Washington	7	17	1		3				2				4	4	4		4	2			21	27
Wayne	6	7	1		1				2		1		1	2	4			2			16	11
Webster	5	16	1		2				4		1				1			1			14	17
Winnebago	3	5			1		1							1		1		1			6	7
Winneshiek	5	5									1		3		1		1	2			10	8
Woodbury	14	7	5		2				4		1		4	3	2	1	1				33	11
Worth	1				1													1			2	1
Wright	6	5	5						2				2		1		1				16	6
Other States and Foreign Countries.																						
Arkansas														1								1
California					1				3												4	
Colorado					1				3						1	1					10	1
Florida	4	1			1																2	
Idaho	1		3		1				1		2				1						12	
Illinois	4		2		1				4		5	1	9	5	5		1	4		1	43	18
Indiana	17	6											3		1	1					10	1
Kansas	5	1											3	2						1	12	4
Kentucky	3	1			2				4				1								1	2
Louisiana		2																			2	
Maine	1				1																1	1
Massachusetts													1	1							1	1
Michigan													1	1							1	1
Minnesota	2																				2	
Missouri	5	5	1		2				10		1		7		2		1				28	6
Montana	5	3			2				2				3					1		2	12	6
	1	1							2						6		1				9	2
Nebraska	2	6	1						5				1		2		1				11	7
New Jersey	2										1										3	
New York	2	3							1				1								4	3
North Carolina		1																				1
North Dakota	2	2							1				1	1			2				4	5
Ohio	1	4											3	1							4	5
Oklahoma		2							1				1		2						4	2
Oregon													1								1	
Pennsylvania																					1	
Rhode Island	1												1								1	
South Dakota	11	3			1				16		3		2		7		1	1		1	40	6
Tennessee		1	1																		1	1
Utah	1													1							1	1
Virginia	1																				1	1
Washington	1										2										3	
West Virginia	1	2							1												2	2
Wisconsin	2	2							5				3					1			10	3
Wyoming	1		1																		2	
Foreign countries	14	3	2		5				7		1		7	1	2	3				1	42	4
No statistics	2	3											6	1	1	3	17				12	21
Totals	950	950	155	1	156	2	9	1	297	4	70	4	239	167	250	23	129	81	14	20	2,149	1,374

AGES OF STUDENTS—1915-1916

Under 17		2																				2
17	2																				2	
18	20	41			1				2						6		3				23	50
19	99	118			1				6		4	1			17	2	17				112	153
20	176	156			5				33		13	1			40	2	18	2	2	1	229	220
21	159	163	10	1	11				41	1	14			1	47	6	16	11	2	2	241	244
22	155	134	35		19	1	2	1	54		18	1	4	5	46	1	14	18	2	1	288	223
23	113	72	26		24				49	1	9	1	13	9	29	4	12	13	1	2	238	140
24	74	64	29		23				35		3		9	12	32	1	8	18	3		174	137
25	37	32	21		18	1	3		22		3		22	19	7		6	6	3		126	74
26	32	23	13		13		1		15		2		18	15	11	2	5	2		1	96	57
27	18	19	11		12		3		12				22	15	5	1	1	4	1	1	79	46
28	13	15	6		11				9		2		21	8	3			2	1	1	62	30
29	7	7	1		8				7				12	5	1			1	1	1	35	16
30	5	7	1		2				2	1	1		12	14	2		2	1			23	27
31	6	12	1		1				2				16	6			1	1		1	26	21

AGES OF STUDENTS—Continued

AGES OF STUDENTS 1915-1916	L. A.		Law		Med.		Hom.		Dent.		Pharm.		Grad.		Ap. Sci.	Music		N.	H. N.	L.	Totals	
	M.	W.	M.	W.	M.	W.	M.	W.	M.	W.	M.	W.	M.	W.	M.	M.	W.	W.	W.	W.	M.	W.
32	5	4	1	----	2	----	----	----	2	1	----	----	11	5	----	----	----	1	----	2	21	13
33	3	10	----	----	2	----	----	----	1	----	1	----	11	8	----	1	1	----	----	1	19	20
34	3	6	----	----	1	----	----	----	----	----	----	----	7	7	----	----	----	1	----	----	11	14
35	1	6	----	----	1	----	----	----	----	----	----	----	4	1	2	----	----	----	----	1	6	10
Over 35	13	51	----	----	1	----	----	----	5	----	----	----	49	34	----	----	4	----	----	4	68	93
No statistics	9	8	----	----	----	----	----	----	----	----	----	----	8	3	2	3	21	----	----	1	20	35
Total	950	950	155	1	156	2	9	1	297	4	70	4	239	167	250	23	129	81	16	20	1,899	1,635

RELIGIOUS CENSUS, 1915-1916

Baptist—																						
Membership	33	40	4	----	5	----	----	----	10	----	1	----	19	8	4	1	6	4	1	----	77	59
Preference	8	3	3	----	1	----	----	----	6	----	1	----	----	----	1	----	----	----	1	----	20	4
Catholic—																						
Membership	88	133	30	----	18	1	1	----	21	1	8	2	5	35	27	3	18	7	----	2	201	199
Preference	11	1	1	----	----	----	----	----	1	----	----	----	----	1	----	----	----	----	----	----	13	2
Christian—																						
Membership	35	38	5	----	6	----	----	----	21	1	2	----	5	8	8	----	1	2	1	----	82	51
Preference	15	6	2	----	2	----	----	----	2	----	2	----	1	2	4	----	1	1	3	1	28	14
Congregational—																						
Membership	55	96	7	----	6	----	----	----	14	----	5	----	13	15	9	----	10	4	1	2	109	128
Preference	35	19	4	----	6	----	----	----	8	----	1	----	3	2	4	2	3	3	1	1	63	29
Episcopal—																						
Membership	28	33	5	----	5	----	----	----	6	----	4	----	----	5	8	----	1	4	----	4	56	47
Preference	2	8	----	----	----	----	----	----	1	----	1	----	----	2	----	1	1	----	----	----	5	11
Lutheran—																						
Membership	55	48	5	----	4	----	2	1	19	----	5	----	16	2	16	1	8	10	1	1	123	71
Preference	4	4	----	----	2	----	----	----	----	----	2	----	2	1	1	----	----	----	----	----	11	5
Totals	369	429	66	----	55	1	3	1	119	2	32	2	63	85	82	8	49	35	9	11	788	620
Methodist—																						
Membership	210	233	31	1	39	----	3	----	50	1	8	----	63	31	43	5	26	14	3	6	452	315
Preference	66	42	11	----	11	----	----	----	28	----	4	----	12	3	34	----	7	5	2	----	166	59
Presbyterian—																						
Membership	90	119	17	----	15	----	----	----	31	----	5	----	25	26	35	4	16	13	1	1	222	176
Preference	53	34	5	----	6	----	----	----	15	----	4	1	6	----	10	----	4	5	----	----	99	44
Unitarian—																						
Membership	----	5	2	----	----	----	----	----	1	----	----	----	1	----	----	----	----	----	----	----	4	5
Preference	9	8	2	----	1	----	----	----	1	----	1	----	2	3	1	1	----	----	----	----	18	11
Other denominations	70	46	6	----	15	----	1	----	28	1	3	1	35	9	16	1	3	8	1	2	175	71
Protestants	14	7	6	----	7	----	----	----	4	----	1	----	8	2	8	----	----	----	----	----	48	9
No statistics	58	24	7	----	6	1	1	----	24	----	10	----	20	11	17	4	23	1	----	----	147	60
No preference	11	3	2	----	1	----	1	----	6	----	2	----	3	1	4	----	1	----	----	----	30	5

OCCUPATION OF PARENTS, 1915-1916

Accountants, salesmen, managers, etc.	94	95	13	----	12	----	1	----	36	----	3	----	8	19	21	1	12	5	----	4	189	135
Farmers	255	285	39	----	54	1	4	----	68	1	15	1	83	47	63	5	29	32	6	1	586	403
Bankers	24	16	1	----	1	----	----	----	2	----	2	----	2	3	2	1	3	----	----	----	35	22
Contractors, builders, architects, etc.	44	34	4	----	9	----	3	----	8	----	2	----	5	2	10	1	3	7	----	----	86	46
Government service	27	17	6	----	----	----	----	----	9	1	1	----	6	7	9	----	3	2	2	----	58	32
Merchants	143	132	28	1	16	----	----	1	47	----	24	----	22	17	51	4	20	7	----	1	335	179
Manufacturers	21	23	2	----	----	----	1	----	7	----	2	----	5	1	5	----	3	----	----	----	43	27
Professions— Law, medicine, dentistry, ministry, teaching, engineering, etc.	149	147	31	----	39	----	----	----	42	1	8	2	42	32	24	3	22	6	2	5	338	217
Other occupations—																						
Employers	4	7	----	----	1	----	----	----	----	----	----	----	----	----	1	----	----	----	----	----	6	7
Employees	101	67	12	----	18	----	----	----	42	1	8	1	16	13	40	----	4	8	3	5	237	102
No statistics	88	127	19	----	6	1	----	----	36	----	5	----	50	26	24	8	30	14	3	4	236	205
Total	950	950	155	1	156	2	9	1	297	4	70	4	239	167	250	23	129	81	16	20	2,149	1,375

FINANCES OF THE STATE UNIVERSITY OF IOWA

Report of the Secretary on Receipts and Disbursements of all Funds from July 1, 1914, to June 30, 1916.

W. H. BATES, SECRETARY.

FISCAL YEAR ENDING JUNE 30, 1915.

FUNDS	Balance July 1, 1914	Receipts	Warrants Issued	Storehouse charges and credits	Total expenditures	Balance June 30, 1915
Income	$49,321.49	$ 662,654.27	$ 685,761.66	$†4,215.15	$ 681,546.51	$30,429.25
Library	1,245.77	17,729.28	17,008.00	1.89	17,009.89	1,965.16
Repr. & Contg.	555.22	28,691.50	24,809.03	1,709.60	26,518.63	2,728.09
Building	10,831.25	175,029.40	181,415.50	2,048.04	183,463.54	2,397.11
Building Eq.	1,932.12	30,054.55	29,932.57	23.61	29,956.18	2,030.49
Equip. and Sup.	3,214.87	7,500.00	6,279.18	96.39	6,375.57	4,339.30
Engineer. Eq.	1,137.68	12,500.00	11,928.43	59.54	11,987.97	1,649.71
Domes. Sc. Eq.	1,151.26	8,500.00	5,813.37	69.39	5,883.76	3,767.50
Dental Eq.	*153.77	4,012.21	3,486.85	34.53	3,521.38	337.06
Pav. and S. Walks	9.09	5,199.18	5,119.85	72.66	5,192.51	15.76
Tunnel	1,372.12	----------	1,371.69	.43	1,372.12	----------
Univ. Exten.	6,728.09	15,127.48	17,423.04	7.46	17,430.50	4,425.07
Univ. Epidem.	1,306.32	5,000.00	5,904.03	----------	5,904.03	402.29
Spec. Land	8,445.47	5,517.50	13,095.65	26.83	13,122.48	840.49
Don. Land	1,092.37	1,336.52	925.90	64.28	990.18	1,438.71
Jesup Prize	50.00	----------	----------	----------	----------	50.00
Ranney Int.	2,203.70	4,545.99	4,804.47	----------	4,804.47	1,945.22
Carr Int.	3,821.96	2,520.18	2,485.00	----------	2,485.00	3,857.14
Gifford Int.	256.60	408.00	71.00	----------	71.00	593.60
Lowden Int.	368.75	175.00	150.00	----------	150.00	393.75
Bryan Int.	46.16	12.50	20.00	----------	20.00	38.66
Total	$94,936.52	$ 986,513.56	$ 1,017,805.72	----------	$ 1,017,805.72	$63,644.36

*Overdraft.

†Sum of all items in this column. Deduct from corresponding item under "Warrants Issued" for "Total Expenditures."

RECEIPTS AND EXPENDITURES, JULY 1, 1914, TO JUNE 30, 1915.

Cash on hand July 1, 1914	$ 94,936.52	
Total receipts for the year	986,513.56	
Total expenditures for the year		$ 1,017,805.72
Cash on hand June 30, 1915		63,644.36
	$1,081,450.08	$1,081,450.08

BALANCES.

Income Fund	$30,429.25
Library Fund	1,965.16
Repair and Contingent Fund	2,728.09
Building Tax Fund	2,397.11
Building Equipment Fund	2,030.49
Equipment and Supplies Fund	4,339.30
Engineering Equipment Fund	1,649.71
Domestic Science Equipment Fund	3,767.50
Dental Equipment Fund	337.06
Paving and Sidewalks Fund	15.76
University Extension Fund	4,425.07
University Epidemiologist Fund	402.29
Special Land Fund	840.49
Donated Land Fund	1,438.71
Charles M. Jesup Prize Fund	50.00
Mark Ranney Memorial Interest Fund	1,945.22
A. Whitney Carr Scholarship Interest Fund	3,857.14
Waite Lowry Gifford Memorial Interest Fund	593.60
F. O. Lowden Prize Interest Fund	393.75
W. J. Bryan Prize Interest Fund	38.66
	$63,644.36

RECEIPTS AND DISBURSEMENTS, FISCAL YEAR ENDING JUNE 30, 1915.

RECEIPTS, 1914-15.

From State Appropriations for Support:		
32d G. A., Chap. 212, Sec. 2	$205,500.00	
32d G. A., Chap. 214, Sec. 2	35,000.00	
33d G. A., Chap. 244, Sec. 1	22,000.00	
34th G. A., Chap. 200, Sec. 1	98,200.00	
34th G. A., Chap. 200, Sec. 1	25,000.00	
35th G. A., Chap. 328, Sec. 1	69,000.00	
Total		$454,700.00
From State appropriations for buildings:		
34th G. A., Chap. 201, Sec. 1, one-fifth mill tax		175,000.00
From State appropriations for Repair and Contingent:		
32d G. A., Chap. 212, Sec. 2	6,875.00	
33d G. A., Chap. 244, Sec. 1	6,875.00	
34th G. A., Chap. 200, Sec. 1	4,583.30	
35th G. A., Chap. 328, Sec. 1	9,166.65	
Total		27,499.95
From State appropriations for Library:		
34th G. A., Chap. 200, Sec. 1	15,000.00	
34th G. A., Chap. 200, Sec. 1	2,500.00	
Total		17,500.00
From State appropriations for University Extension:		
35th G. A., Chap. 328, Sec. 1		15,000.00
From State appropriations for University Epidemiologist:		
35th G. A., Chap. 328, Sec. 1		5,000.00
From State appropriations for special purposes:		
35th G. A., Chap. 328, Sec. 2:		
Equipment and Supplies Fund	7,500.00	
Equipment New Building Fund	30,000.00	
Engineering Equipment Fund	12,500.00	
Domestic Science Equipment Fund	8,500.00	
Dentistry Equipment Fund	4,000.00	
Paving and Sidewalks Fund	5,000.00	
Special Land Fund	5,000.00	
Total		72,500.00
Total State Appropriations		$767,199.95

From productive funds—Income from permanent land fund		12,572.19
From tuitions—All colleges		76,097.25
From miscellaneous sources—Income Fund		118,553.46
From books, etc., sold—Library Fund		229.28
From material sold—Repair and Contingent Fund		1,174.77
From material sold—Building Tax Fund		15.00
From material sold—Building Equipment Fund		12.50
From material sold—Paving and Sidewalks Fund		199.18
From material sold—University Extension Fund		69.17
From property sold—Special Land Fund		517.50
From rents—Donated Land Fund		1,336.52
*From Special Funds:		
A. Whitney Carr Scholarship Income Fund	$ 2,520.18	
Mark Ranney Memorial Income Fund	4,545.99	
Waite Lowry Gifford Memorial Income Fund	408.00	
F. O. Lowden—Prize Income Fund	175.00	
W. J. Bryan—Prize Income Fund	12.50	
Total from special funds		7,661.67
Warrants cancelled—Income Fund	$ 731.37	
Repair and Contingent Fund	16.78	
Building Tax Fund	14.40	
Equipment New Building Fund	42.05	
Dental Equipment Fund	12.21	
University Extension Fund	58.31	875.12
Total income from all sources for all purposes, 1914-15		$986,513.56
Total balance in all funds July 1, 1914		94,936.52
Grand total		$1,081,450.08

EXPENDITURES, 1914-15.

Income Fund	$681,546.51	
Library Fund	17,009.89	
Repair and Contingent Fund	26,518.63	
Building Tax Fund	183,463.54	
Building Equipment Fund	29,956.18	
Equipment and Supplies Fund	6,375.57	
Engineering Equipment Fund	11,987.97	
Domestic Science Equipment Fund	5,883.76	
Dentistry Equipment Fund	3,521.38	
Paving and Sidewalks Fund	5,192.51	
Tunnel—Heating Plant Fund	1,372.12	
University Extension Fund	17,430.50	
University Epidemiologist Fund	5,904.03	
Special Land Fund	13,122.48	
Donated Land Fund	990.18	
Mark Ranney Memorial Interest Fund	4,804.47	
A. Whitney Carr Scholarship Int. Fund	2,485.00	
F. O. Lowden Prize Int. Fund	150.00	
Waite Lowry Gifford Memorial Int. Fund	71.00	
W. J. Bryan Prize Int. Fund	20.00	
Total expenditures		$1,017,805.72
Total balance in hand June 30, 1915		63,644.36
Grand total		$1,081,450.08

INCOME FUND, 1914-1915.

RECEIPTS.

From State appropriations		$454,700.00
From tuitions:		
College of Liberal Arts	$ 24,706.00	
College of Applied Science	4,365.50	
College of Law	9,451.50	
College of Medicine	6,848.75	

*These funds are in the nature of University trusts—the proceeds being used for scholarships, prizes, etc.

College of Homeopathic Medicine	565.00	
College of Dentistry	16,060.75	
College of Pharmacy	3,390.00	
College of Fine Arts	8,136.75	
Graduate College	625.00	
Summer Session and Library School	1,948.00	76,097.25
From miscellaneous sources:		
Diploma fees	$ 4,401.00	
University Hospital receipts	50,114.43	
University Homeopathic Hospital receipts	9,022.45	
Ophthalmology and Otology receipts	1,954.02	
Dental Clinic receipts	12,131.05	
Law Loan Book Account receipts	281.00	
Engineering Testing Laboratory receipts	14.00	
Currier Hall receipts	33,367.97	
Rents	585.83	
Interest on daily bank balance	3,951.33	
Miscellaneous cash—material sold, laboratory breakage, locker rentals, etc.	2,714.95	
Storehouse receipts	15.43	118,553.46
From interest on permanent land fund		12,572.19
Warrants cancelled		731.37
Total receipts—Income Fund, 1914-15		$662,654.27
Balance cash on hand July 1, 1914		49,321.49
Grand total		$711,975.76

SUMMARY OF EXPENDITURES.

College of Liberal Arts:		
Salaries	$193,528.28	
Departmental expenses	14,522.87	$208,051.15
College of Applied Science:		
Salaries	$ 37,821.30	
Library assistance	188.26	38,009.56
College of Law:		
Salaries	$ 23,350.00	
Supplies and incidentals	1,162.08	24,512.08
College of Medicine:		
Salaries	$ 63,240.18	
Supplies, apparatus, etc.	12,593.85	75,834.03
College of Homeopathic Medicine:		
Salaries	$ 5,300.00	
Supplies, apparatus, etc.	125.49	5,425.49
College of Dentistry:		
Salaries	$ 27,059.99	
Supplies, apparatus, etc.	10,227.04	37,287.03
College of Pharmacy:		
Salaries	$ 6,615.00	
Supplies, apparatus, etc.	2,003.95	8,618.95
College of Fine Arts:		
Salaries	$ 1,045.00	1,045.00
Graduate College:		
Fellowships and Scholarships	$ 6,800.00	
Supplies, etc.	384.53	7,184.53
Summer Session:		
Salaries	$ 10,418.24	
Supplies	825.64	11,243.88

General Library:		
Salaries	$ 7,380.00	
Supplies and assistance by the hour	1,766.24	9,146.24
Administration:		
Salaries	$ 25,371.73	
Supplies and assistance by the hour	2,941.66	28,313.39
Alumni Bureau and Publicity:		
Salaries	$ 2,840.00	
Supplies and assistance	542.28	3,382.28
University Hospital expenditures		62,982.78
University Homeopathic Hospital expenditures		10,810.02
Currier Hall expenditures		31,698.25
Law Loan Book account expenditures		263.49
Store House expenditures		3,730.70
General expenditures from Income Fund		104,252.39
Tuitions refunded by order of Finance Committee		170.25
Music tuitions		9,555.75
Engineering Testing Laboratory expenditures		29.27
Total expenditures from Income Fund, 1914-15		$681,546.51
Balance cash on hand June 30, 1915		30,429.25
Grand total		$711,975.76

ITEMIZED EXPENDITURES—COLLEGE OF LIBERAL ARTS.

Botany:		
Bohumil Shimek, Professor	$ 2,500.00	
R. B. Wylie, Professor	2,400.00	
Guy West Wilson, Assistant Professor	1,600.00	
Lucy Cavanagh, Assistant	900.00	
David H. Boot, Assistant	800.00	
Walter E. Rogers, Assistant	900.00	
Supplies, etc.		$ 846.80
Assistance by the hour		27.50
Chemistry:		
E. W. Rockwood, Professor	3,000.00	
W. J. Karslake, Assistant Professor	1,900.00	
J. N. Pearce, Assistant Professor	1,800.00	
A. W. Hixson, Assistant Professor	1,800.00	
Edw. Wolesensky, Instructor	1,200.00	
R. B. Davis, Instructor	1,000.00	
Albert E. Jennings, Instructor	1,000.00	
Robert L. Novy, Instructor	1,000.00	
H. L. Dunlap, Instructor	1,000.00	
Harold E. Hands, Instructor (part time)	600.00	
O. R. Douthett, Assistant	900.00	
J. C. Andrews, Assistant	500.00	
Cyrus J. Droppers, Assistant	300.00	
F. Spencer Mortimore, Assistant	100.00	
Wm. J. Husa, Storekeeper (12 mo.)	700.00	
Supplies, etc.		5,063.03
Education:		
W. A. Jessup, Professor and Dean	3,500.00	
H. C. Dordas, Professor	2,500.00	
Irving King, Assistant Professor	1,800.00	
R. M. Stewart, Assistant Professor	1,600.00	
E. E. Lewis, Associate Professor	2,200.00	
C. R. Aurner, Lecturer	500.00	
Marcella Hotz, Stenographer (12 mo.)	900.00	
Model School:		
Ellen M. Geyer	700.00	
W. E. Beck	600.00	
R. C. Kelley	800.00	
Nell M. Buckner	80.00	
Ethel R. Golden	80.00	
Jessie P. Hastings	80.00	

Edith F. O'Brien	80.00	
Lucia C. Otto	80.00	
Mary L. Sporleder	80.00	
Antonia J. Stober	80.00	
Flora Waterbury	80.00	
Mildred Dyer	80.00	
Supplies, assistance, etc.		699.69
English:		
C. F. Ansley, Professor and Dean	3,500.00	
S. B. Sloan, Assistant Professor	1,900.00	
Percival Hunt, Assistant Professor	1,900.00	
E. F. Piper, Assistant Professor	1,900.00	
M. A. Shaw, Assistant Professor	1,900.00	
E. N. S. Thompson, Assistant Professor	1,900.00	
May G. Shuck, Instructor	1,300.00	
Ellen Geyer, Instructor	300.00	
Florence Joy, Instructor	1,200.00	
Beryl G. Hart, Instructor	1,000.00	
Mary G. Chawner, Instructor	1,200.00	
W. L. Myers, Instructor	1,200.00	
Mrs. Nellie Aurner, Instructor	1,200.00	
Edith Eastman, Office Assistant	300.00	
Supplies, etc.		53.55
Theme Readers		1,995.00
Public Speaking:		
Glenn N. Merry, Assistant Professor	1,650.00	
Alice Sullivan, Assistant	900.00	
Leonard Racker, Assistant	100.00	
Forensic League and supplies		218.05
Geology:		
G. F. Kay, Professor	2,600.00	
A. C. Trowbridge, Professor	2,100.00	
A. O. Thomas, Assistant Professor	1,500.00	
A. J. Williams, Assistant	500.00	
John W. Carville, Attendant	600.00	
Jesse V. Howell, Assistant	500.00	
Supplies, etc.		640.14
German:		
C. B. Wilson, Professor	3,000.00	
F. B. Sturm, Assistant Professor	1,650.00	
W. F. Luebke, Assistant Professor	1,500.00	
E. H. Lauer, Assistant Professor	1,650.00	
F. W. Kracher, Assistant Professor	1,500.00	
W. T. Runzler, Instructor	1,200.00	
Anna Heyberger, Assistant (4 mo.)	80.00	
Ernest A. Heilman, Instructor	1,200.00	
Supplies, etc.		38.40
Stenographic assistance		102.68
Greek:		
C. H. Weller, Professor and University Editor	3,000.00	
N. A. Kellogg, Instructor	400.00	
Gertrude G. Benson, Stenographer	433.33	
Supplies, etc.		59.43
History:		
W. C. Wilcox, Professor and Dean	3,500.00	
H. G. Plum, Professor	2,100.00	
Louis Pelzer, Assistant Professor	2,000.00	
Lorin Stuckey, Instructor	300.00	
Raymond H. Durboraw, Assistant	500.00	
Helen Coe Richardson, Assistant	200.00	
Clara M. Daley, Instructor	1,200.00	
Supplies, etc.		32.15
Latin:		
F. C. Eastman, Professor	3,000.00	
F. H. Potter, Professor	2,100.00	
F. M. Foster, Assistant Professor	1,500.00	
Supplies, etc.		82.49

Mathematics:

A. G. Smith, Professor	3,000.00	
R. P. Baker, Assistant Professor	1,750.00	
J. F. Reilley, Assistant Professor	1,750.00	
C. W. Wester, Instructor	1,200.00	
C. Gouwens, Instructor	1,200.00	
O. H. Truman, Instructor	1,000.00	
Hobert D. Frary, Instructor	1,200.00	
W. E. Beck, Instructor	300.00	
Supplies, etc.		52.28

Military Science:

Robert T. Phinney, Professor and Commandant	500.00	
Wm. De F. Rahming, Assistant	500.00	
O. E. Van Doren, Bandmaster	500.00	
Band Members	460.00	
Supplies and equipment, etc.		411.32

Philosophy and Psychology:

C. E. Seashore, Professor and Dean	3,500.00	
G. T. W. Patrick, Professor	2,500.00	
E. D. Starbuck, Professor	2,400.00	
R. H. Sylvester, Assistant Professor	1,600.00	
Mabel C. Williams, Assistant Professor	1,500.00	
Supplies and equipment, etc.		308.77

Physical Training and Athletics for Men:

N. A. Kellogg, Director in charge of Athletics	1,600.00	
M. A. Kent, Assistant	100.00	
J. P. Watson, Assistant	100.00	
E. G. Schroeder, Director in charge of Physical Training for Men	1,200.00	
Troy Swallum, Assistant	300.00	
Supplies		568.32

Physical Training for Women:

Alice W. Bates, Director in charge of Physical Training for Women	1,500.00	
Alice H. Wilmarth, Assistant	800.00	
Carrie A. Hupp, Assistant	600.00	
Mary Maher, Matron Women's Gymnasium	300.00	
Dr. Zella White Stewart, Medical Examiner	250.00	
Supplies, etc.	188.62	
Pianist Women's Gymnasium		142.55

Physics:

G. W. Stewart, Professor	3,000.00	
L. P. Sieg, Assistant Professor	1,850.00	
F. C. Brown, Assistant Professor	1,850.00	
H. L. Dodge, Instructor	1,200.00	
W. E. Tisdale, Assistant	600.00	
L. E. Dodd, Assistant	600.00	
Elmer Dershem, Assistant	500.00	
M. H. Teeuwen, Mechanician (12 mo.)	1,350.00	
H. Newcomb, Shop Assistant	152.00	
Ernest Hunter, Shop Assistant	33.40	
C. Van de Steeg, Shop Assistant	1.60	
R. C. Giese, Shop Assistant	8.20	
A. White, Shop Assistant	4.75	
Kathryn J. Dieterich, Undergraduate Assistant	75.00	
T. Ingvaldson, Undergraduate Assistant	75.00	
P. S. Helmick, Undergraduate Assistant	75.00	

Political Economy and Sociology:

I. A. Loos, Professor	3,000.00	
Paul S. Peirce, Professor	2,400.00	
Eliot Jones, Associate Professor	2,400.00	
Lorin Stuckey, Instructor	1,500.00	
C. W. Wassam, Assistant Professor	1,800.00	
H. H. Preston, Assistant	500.00	
Supplies, etc.		111.07
Stenographic Assistance		299.62

Political Science:

B. F. Shambaugh, Professor	2,600.00	
F. E. Horack, Assistant Professor	1,750.00	
Jacob Van der Zee, Instructor	500.00	
Odis K. Patton, Assistant	500.00	
Sudhindra Bose, Assistant	500.00	
Dan E. Clark, Lecturer	100.00	
Supplies and assistance		118.60

Romance Languages:

S. H. Bush, Professor	2,800.00	
Hertha L. Voss, Assistant Professor	1,500.00	
Jacob Wernli, Instructor	1,200.00	
John Van Horne, Instructor	1,000.00	
Supplies, etc.		47.78

Zoology:

C. C. Nutting, Professor and Director	3,000.00	
G. L. Houser, Professor	2,300.00	
H. F. Wickham, Professor	2,100.00	
H. R. Dill, Assistant Professor	2,000.00	
F. A. Stromsten, Assistant Professor	1,600.00	
D. M. Brumfiel, Instructor	1,100.00	
Dayton Stoner, Assistant	1,000.00	
Ruth Cotton, Assistant	400.00	
R. W. Henderson, Assistant	350.00	
E. J. Bashe, Assistant	200.00	
Ralph C. Kahle, Undergraduate Assistant	50.00	
Oliver J. Irish, Undergraduate Assistant	50.00	
Arnold Smyth, Storekeeper	50.00	
Verne C. Graber, Mimeographer	50.00	
Supplies, etc., Zoology		249.62
Supplies, etc., Animal Biology		485.68
Museum assistance		371.40

Home Economics:

Ruth A. Wardall, Professor	3,000.00	
Helen Donovan, Assistant Professor	2,500.00	
Ruth Guenther, Instructor	900.00	
Supplies, etc., and assistance		1,308.33
Helen C. Gilchrist, Clerk to the Dean	960.00	
Total salaries College of Liberal Arts	$193,528.28	
Total departmental expenditures College of Liberal Arts, 1914-15		$ 14,522.87
Total		$208,051.15

ITEMIZED EXPENDITURES—COLLEGE OF APPLIED SCIENCE.

Civil Engineering:

Wm. G. Raymond, Professor and Dean	$ 5,000.00
J. H. Dunlap, Assistant Professor	2,000.00
R. B. Kittredge, Assistant Professor	1,800.00
A. H. Holt, Instructor	800.00

Structural Engineering:

B. J. Lambert, Professor	2,900.00

Drawing and Descriptive Geometry:

F. G. Higbee, Professor	2,200.00
Stuart H. Sims, Instructor	900.00
Thomas G. Caywood, Instructor	800.00
Harry S. Rogers, Instructor	800.00

Electrical Engineering:

A. H. Ford, Professor	2,900.00
J. B. Hill, Assistant Professor	2,200.00

Mechanical Engineering:

B. P. Fleming, Professor	3,000.00	
Ralph S. Wilbur, Instructor	1,600.00	
G. J. Keller, Instructor and Supt. of Shops	1,300.00	
John M. Bray, Instructor	900.00	
Arthur V. O'Brien, Instructor	1,100.00	
Forrest A. Richards, Laboratory Work	21.30	

Mechanics:

S. M. Woodward, Professor	1,200.00	
D. P. Gilmore, Assistant Professor	1,600.00	
R. E. Hutchins, Instructor	1,600.00	
Maurice A. Repass, Instructor	800.00	
Sherman D. Chambers, Professor	1,500.00	
Bess Martin, Clerk to the Dean (12 mo.)	900.00	
Total salaries, College of Applied Science	$ 37,821.30	
Total expenses, lecturers and assistance		$ 188.26
Total, College of Applied Science		$ 38,009.56

ITEMIZED EXPENDITURES—COLLEGE OF LAW.

Emlin McClain, Professor and Dean	$ 5,000.00	
E. A. Wilcox, Professor	3,000.00	
H. C. Horack, Professor	3,500.00	
Robert L. Henry, Professor	3,000.00	
Percy Bordwell, Professor	3,500.00	
Ralph Otto, Professor	3,000.00	
H. F. Goodrich, Instructor	1,500.00	
O. H. Albee, Library Desk Assistant	250.00	
Eugene T. Burke, Library Desk Assistant	50.00	
Chas. M. Maurer, Library Desk Assistant	50.00	
Carroll B. Martin, Stenographer (summer)	50.00	
Carroll B. Martin, Stenographer	450.00	
Supplies, etc.		154.04
Assistant Quiz Masters, etc.		419.53
Law Bulletins		588.51
Total salaries, College of Law	$ 23,350.00	
Total supplies and assistants, College of Law		1,162.08
Total		$ 24,512.08

ITEMIZED EXPENDITURES—COLLEGE OF MEDICINE.

Anatomy, Histology and Embryology:

H. J. Prentiss, Professor and Director	$ 4,600.00	
J. J. Lambert, Assistant Professor	2,100.00	
D. H. Osborn, Demonstrator	1,750.00	
E. W. McEwen, Demonstrator	1,400.00	
R. H. Payne, Undergraduate Assistant	15.50	
H. L. Smith, Undergraduate Assistant	15.50	
John Mansfield, Undergraduate Assistant	3.65	
Alex. Story, Attendant (12 mo.)	895.00	

Summer Work:

J. J. Lambert	100.00	
D. H. Osborn	100.00	
E. W. McEwen	100.00	
Supplies and equipment		869.25
Dissecting material		3,275.89

Dermatology:

J. B. Kessler, Professor	300.00	

Gynecology and Obstetrics:

J. R. Guthrie, Professor and Dean Emeritus	1,200.00	
W. R. Whiteis, Professor	1,600.00	
Paul Reed, Assistant Professor	1,500.00	
Edith Lott, Assistant	500.00	
L. W. Harding, Assistant	500.00	
Supplies and equipment		115.10
Obstetrics Clinic		588.81

Materia Medica:

C. S. Chase, Professor	2,400.00	
B. H. Schlomovitz, Instructor	1,200.00	
William Moerschell, Undergraduate Assistant	4.20	
Supplies and equipment		413.79

Ophthalmology and Otology:

L. W. Dean, Professor and Dean	1,100.00	
W. F. Boller, Assistant Professor	1,000.00	
Mary K. Heard, Assistant Professor	1,200.00	
Fred W. Sallander, Instructor (12 mo.)	1,200.00	
S. D. Maiden, Clinical Assistant	500.00	
Supplies, etc.		3,097.75

Pathology and Bacteriology:

Henry Albert, Professor	4,000.00	
A. L. Grover, Assistant Professor	1,900.00	
C. E. Royce, Hospital Pathologist (12 mo.)	1,600.00	
C. L. Bartlett, Instructor	900.00	
Joseph Anderson, Technic (12 mo.)	900.00	
Minnie Hamilton, Stenographer (12 mo.)	180.00	
Leonard Kloos, Attendant (12 mo.)	540.00	
George Herring, Attendant (12 mo.)	400.00	
Supplies, etc.		843.07

Physiology:

J. T. McClintock, Professor and Junior Dean	3,100.00	
H. W. Coffin, Instructor	650.00	
Benjamin Kramer, Instructor	1,400.00	
J. I. Marker, Assistant Instructor	800.00	
Supplies, etc.		506.78
Stenographic assistance		87.50

Surgery:

Chas. J. Rowan, Professor	3,500.00	
A. Steindler, Assistant Professor (11 mo.)	880.00	
Howard L. Bye, Instructor	2,000.00	
N. G. Alcock, Instructor (5 mo.)	600.00	
L. W. Harding, Anaesthetist	200.00	
L. W. Bremerman, Instructor (5 mo.)	500.00	
Supplies, etc.		365.99

Theory and Practice:

C. P. Howard, Professor (6 mo.)	2,700.00	
C. Van Epps, Assistant Professor (6 mo.)	1,200.00	
C. Van Epps, Assistant Professor (4 mo.)	1,800.00	
L. Baumann, Assistant Professor	2,500.00	
C. S. Grant, Lecturer	500.00	
C. W. McClure, Lecturer (8 mo.)	1,000.00	
C. W. McClure, Lecturer (3 mo., 6 da.)	560.00	
F. J. Rohner, Assistant (4 mo.)	600.00	
M. F. Andrews, Radiographer (9 mo.)	675.00	
Arthur W. Erskine, Radiographer	143.00	
Jacob Krupp, Attendant (12 mo.)	600.00	
Supplies, etc.		1,246.07
X-Ray supplies and equipment		984.29

Lecturers:

Max E. Witte, Mental Diseases	200.00	
H. V. Scarborough, Tuberculosis	100.00	
Ralph M. Otto, Jurisprudence	50.00	

Hospital Internes:

R. D. Taylor	83.33	
A. R. Zuercher	125.00	
F. L. Wahrer	125.00	
Robert Lott	125.00	
Maude Elliott, Clerk to the Dean (10¼ mo.)	820.00	
Medical Alumni Clinic		199.56
Total salaries, College of Medicine	$ 63,240.18	
Total supplies and equipment, College of Medicine		12,593.85
Total		$ 75,834.03

ITEMIZED EXPENDITURES—COLLEGE OF HOMEOPATHIC MEDICINE.

Materia Medica and Therapeutics:		
George Royal, Professor and Dean	$ 1,200.00	
Gynecology and Obstetrics:		
J. W. Cogswell, Professor	1,000.00	
Supplies, etc.		27.41
Ophthalmology and Otology:		
W. L. Bywater, Professor and Vice Dean	850.00	
Surgery:		
F. C. Titzell, Professor	1,000.00	
William Rohrbacher, Anaesthetist	100.00	
Supplies		20.30
Theory and Practice:		
Erwin Schenck, Professor	950.00	
T. L. Hazard, Lecturer on Pediatrics	200.00	
Supplies		77.78
Total salaries, College of Homeopathic Med.	$ 5,300.00	
Total supplies, College of Homeopathic Med.		$ 125.49
Total		$ 5,425.49

ITEMIZED EXPENDITURES—COLLEGE OF DENTISTRY.

Operative Dentistry and Therapeutics:		
F. T. Breene, Professor and Dean	$ 4,500.00	
M. C. Frazier, Demonstrator (4 2-3 mo.)	700.00	
Dental Pathology and Operative Technic:		
R. H. Volland, Professor	2,000.00	
H. J. Altfillisch, Demonstrator	1,800.00	
Orthodontia:		
Richard Summa, Professor	1,200.00	
F. B. Whinery, Demonstrator	2,300.00	
Prosthetic Dentistry:		
W. S. Hosford, Professor	1,200.00	
B. A. Weber, Demonstrator (7 mo.)	875.00	
W. L. Schenck, Demonstrator	1,450.00	
J. E. Packard, Demonstrator	1,800.00	
H. E. Mitchell, Demonstrator (5 mo.)	825.00	
E. E. Pangborn, Demonstrator (4 mo.)	500.00	
Clinical Dentistry:		
E. A. Rogers, Professor and Supt. of Clinic	2,500.00	
A. W. Bryan, Demonstrator	1,800.00	
W. E. Gordon, Demonstrator	1,800.00	
Bess Sangster, Assistant Clerk (8 1-5 mo.)	409.99	
Helen Baschnagel, Clerk (12 mo.)	700.00	
Mary Otto, Assistant Clerk (12 mo.)	700.00	
Dental Laboratory supplies, etc.		$ 817.44
Dues Dental Associations		90.00
Dental Clinic supplies, etc.		8,931.42
Dental Alumni Clinic		388.18
Total salaries, College of Dentistry	$ 27,059.99	
Total supplies, etc., College of Dentistry		10,227.04
Total		$ 37,287.03

ITEMIZED EXPENDITURES—COLLEGE OF PHARMACY.

W. J. Teeters, Professor and Dean	$ 2,600.00	
R. A. Kuever, Assistant Professor (12 mo.)	1,800.00	
Zada M. Cooper, Assistant Professor	1,200.00	
H. M. Doden, Hospital Pharmacist (12½ mo.)	1,000.00	
Agnes L. O'Neil, Pharmacy Latin	15.00	
Supplies, etc.		1,886.19
Stenographic assistance		117.76
Total salaries, College of Pharmacy	$ 6,615.00	
Total supplies, etc., College of Pharmacy		2,003.95
Total		$ 8,618.95

ITEMIZED EXPENDITURES—COLLEGE OF FINE ARTS.

Department of Graphic and Plastic Arts:		
J. H. Knuebel, Jr., Instructor (1 mo.) (later cancelled)	$ 120.00	
Sophia Davis, Assistant (8¼ mo.)	661.38	
Claude Patterson, Assistant (5 mo.)	125.00	
Louise Holley, Assistant (1¾ mo.)	138.62	
Total salaries, College of Fine Arts	$ 1,045.00	
Total		$ 1,045.00

ITEMIZED EXPENDITURES—GRADUATE COLLEGE.

Senior Fellowship.		
F. E. Haynes, Political Science	$ 500.00	
Junior Fellowships.		
E. O. Dieterich, Physics	300.00	
J. W. Doolittle, Physics	300.00	
H. H. Gould, Psychology	300.00	
C. J. Knock, Psychology	300.00	
Anna E. Lindblom, English	300.00	
Y. Melekian, Philosophy	300.00	
J. W. Richardson, Education	300.00	
P. H. Sodergren, Psychology	300.00	
I. K. Pollock, Political Science	300.00	
A. B. Swanson, German	300.00	
Totaro Wada, Poltical Science	300.00	
Scholarships.		
Marie M. Agnew, English	150.00	
Ada M. Barker, History	150.00	
Eloise Brainerd, English	150.00	
Lida B. Coolidge, English	150.00	
Hertha J. Falk, Botany (first semester)	75.00	
L. V. Fees, Geology	150.00	
H. S. Foster, Sociology	150.00	
H. H. Gold, Education	150.00	
F. E. Harvey, Latin	150.00	
G. H. Hilliard, Education	150.00	
T. T. Job, Biology	150.00	
Helen Moon, Mathematics	150.00	
R. L. Masson, Economics	150.00	
H. H. Maynard, Economics	150.00	
J. W. Meyer, Economics	150.00	
E. F. Oviatt, Internal Medicine	150.00	
W. D. Shipton, Geology	150.00	
Carrie Stanley, English	150.00	
Leo J. Brueckner, Education	150.00	
S. E. Elliott, Mathematics	150.00	
Mary B. Rohret, Botany (second semester)	75.00	
Supplies, etc., Graduate College		83.80
Stenographic assistance, Graduate College		300.73
Total Fellowships and Scholarships, Graduate College	$ 6,800.00	
Total assistance and supplies, Graduate College		384.53
Total		$ 7,184.53

ITEMIZED EXPENDITURES—SUMMER SESSION.

R. B. Wylie, Professor in Botany	$ 250.00
J. S. Coffey, Lecturer in Botany	200.00
Florence B. Meadows, Assistant in Botany	50.00
Lucy M. Cavanagh, Assistant in Botany	50.00
L. A. Giddings, Assistant in Botany	25.00
E. W. Rockwood, Professor in Chemistry	300.00
James E. Booge, Instructor in Chemistry	100.00
W. A. Jessup, Director and Professor in Education	500.00
E. E. Lewis, Associate Professor in Education	200.00
Irving King, Assistant Professor in Education	150.00
R. M. Stewart, Assistant Professor in Education	150.00
J. C. Richardson, Lecturer	75.00
C. W. Stone, Lecturer	25.00
W. S. Deffenbaugh, Lecturer	25.00
L. D. Coffman, Lecturer	25.00
S. W. Brown, Lecturer	25.00
T. L. Ling, Librarian	35.00
Alice Cameron, Observation School	75.00
Emma Watkins, Observation School	75.00
Percival Hunt, Assistant Professor in English	150.00
M. A. Shaw, Assistant Professor in English	150.00
Nellie S. Aurner, Instructor in English	100.00
Aleeth Willard, Instructor in English	100.00
Buda C. Keller, Assistant in English	50.00
John T. Frederick, Assistant in English	50.00
A. C. Trowbridge, Professor in Geology	150.00
F. H. H. Calhoun, Lecturer in Geology	200.00
A. J. Williams, Assistant in Geology	50.00
C. B. Wilson, Professor in German	300.00
E. H. Lauer, Assistant in German	150.00
F. W. Kracher, Instructor in German	100.00
C. H. Weller, Professor in Greek	300.00
W. C. Wilcox, Professor in History	500.00
H. G. Plum, Professor in History	250.00
Lorin Stuckey, Instructor in History	100.00
Elizabeth Jefferson, Lecturer on Home Economics	150.00
Margaret Gleason, Lecturer on Home Economics	150.00
Mrs. W. H. Wagoner, Stenographer Home Economics	42.00
F. C. Eastman, Professor in Latin	300.00
F. M. Foster, Instructor in Latin	100.00
R. C. Woolman, Lecturer in Latin	250.00
A. G. Smith, Professor in Mathematics	300.00
J. F. Reilley, Assistant Professor in Mathematics	150.00
C. W. Wester, Instructor in Mathematics	100.00
Wm. E. Hays, Instructor in Music	100.00
C. E. Seashore, Prof. in Philosophy and Psychology	500.00
Ellsworth Faris, Assistant Professor in Philosophy and Psychology	150.00
R. H. Sylvester, Assistant Professor in Philosophy and Psychology	150.00
G. W. Stewart, Professor in Physics	300.00
Harold Stiles, Lecturer in Physics	100.00
P. H. Dike, Lecturer in Physics	100.00
L. E. Dodd, Assistant in Physics	50.00
E. O. Dieterich, Assistant in Physics	50.00
P. S. Peirce, Professor in Political Economy and Sociology	250.00
G. P. Wyckoff, Lecturer in Political Economy and Sociology	200.00
B. F. Shambaugh, Professor in Political Science	300.00
F. E. Horack, Assistant in Political Science	150.00
S. H. Bush, Professor in Romance Languages	300.00
G. L. Houser, Professor in Zoology	250.00
H. F. Wickham, Professor in Zoology	250.00
Carl Jordan Assistant in Zoology	50.00
Mary McGuire, Assistant in Zoology	50.00
Library School:	
Harriet E. Howe, Director	300.00
Alma Penrose, Catalogue Instructor	125.00
Grace Shellenberger, Children's Work	75.00
George B. Utley, Lecturer expenses	12.10
Grace D. Rose, Lecturer expenses	3.16
Mary E. Marks, Lecturer expenses	4.58
Harriet E. Howe, Lecturer expenses	2.60
Flora Barkley, Lecturer expenses	9.19

Julia A. Robinson, Lecturer expenses	7.19	
Reba Davis, Lecturer expenses	2.42	
Supplies, etc., Summer Session and Library School		825.64
Total salaries, Summer Session and Library School	$ 10,418.24	
Total supplies, Summer Session and Library School		$ 825.64
Total		$ 11,243.88

ITEMIZED EXPENDITURES—GENERAL LIBRARY.

Jennie E. Roberts, Librarian (Acting)	$ 1,500.00	
Nina Shaffer, Reference Assistant	1,000.00	
Jessie L. Arms, Assistant Cataloguer	1,000.00	
Bessie Stover, Assistant Cataloguer	780.00	
Grace Wormer, Assistant Cataloguer	720.00	
Cariola Barker, Bibliographer	720.00	
Cena L. Sprague, Assistant (11 mo.)	660.00	
Delvena Anderson, Stenographer	500.00	
Vera Anderson, Assistant	250.00	
Helen Fryauf, Assistant	250.00	
Supplies, etc., Library		$ 875.28
Assistance by the hour, Library		890.96
Total salaries, Library	$ 7,380.00	
Total assistance and supplies, Library		1,766.24
Total		$ 9,146.24

ITEMIZED EXPENDITURES—ADMINISTRATION.

President's Office:		
Thomas H. Macbride, President	$ 7,500.00	
E. E. Norris, Secretary	1,200.00	
Supplies, etc.		121.96
President's traveling expenses		733.49
Secretary's Office:		
W. H. Bates, Secretary	2,200.00	
Elizabeth Kerstetter, Stenographer (8½ mo.)	510.00	
S. Emma Stover, Assistant	900.00	
Harry Rowland, Assistant (11½ mo.)	873.15	
Kathryn H. Close, Stenographer (11 1-3 mo.)	100.00	
Mary R. Vanorney, Stenographer (½ mo.)	38.58	
Supplies, etc.		43.93
Registrar's Office:		
F. C. Ensign, Registrar and Dean of Men	$ 2,800.00	
Theodore Wanerus, Assistant Registrar	1,400.00	
Lucy Gunsolly, Chief Clerk	720.00	
May Hodgson, Recorder	720.00	
Rena Sporleder, Stenographer	660.00	
Ann Rock, Assistant	600.00	
Supplies, etc.		610.68
Assistance by the hour		1,170.32
Dean of Women:		
Anna M. Klingenhagen, Dean of Women	2,450.00	
Ruth Magowan, Office Assistant (10 mo.)	700.00	
Supplies and assistance		111.70
Dean of Men:		
Robert Rienow, Junior Dean	2,000.00	
University Editor, assistance		149.58
Total salaries, Administration	$ 25,371.73	
Total supplies and assistance, Administration		$ 2,941.66
Total		$ 28,313.39

ITEMIZED EXPENDITURES—ALUMNI BUREAU AND PUBLICITY.

H. M. Harwood	$ 2,000.00	
Cora Richards	840.00	
Stenographic service, supplies, etc.		$ 427.05
Stenographic service, publicity		115.23
Total salaries, Alumni Bureau	$ 2,840.00	
Total assistance and supplies, Alumni Bureau		$ 542.28
Total		$ 3,382.28

GENERAL EXPENDITURES FROM INCOME FUND.

Advertising:

Advertising the University in miscellaneous publications....$ 2,511.62

Commencement Expenses 1,397.87

Calendars and Announcements:

Cost of printing, paper, and cuts for calendars and announcements for all schools and colleges..... 3,681.28

Board of Publications 500.00

This sum was expended for reprints of articles in the Physical Review and other publications, and for the publishing of "Studies in Psychology," Natural History Bulletin, and Starfish Bulletin.

General Lectures 981.32

This sum was expended in paying the expenses of lecturers for University assemblies, Vesper services, etc., as follows: Bishop F. J. McConnell, Rev. Effie M. Jones, Dr. Shailer Mathews, Dr. Margaret V. Clark, Dr. Joseph F. Newton, Dr. J. Gardner, Dr. Stanton Coit, Judge Horace E. Deemer, Dr. Graham Taylor, Chancellor Frank Strong, Pres. Ozora S. Davis, E. G. Nourse, Guy Stanton Ford, W. W. Lauder, C. L. Barnhouse, Chas. J. Woodbury, Prof. E. A. Steiner, E. L. Schaub, E. E. Faris, David Friday, Dayton C. Miller, J. C. Bose, C. G. Derick, L. J. Henderson, Jas. G. K. McClure, Julia Ellen Rogers, Jesse Macey, Katherine Jewell Everts, Mrs. W. I. Thomas, Florence A. Stone.

General Unclassified Account..... 7,081.95

This sum was expended for items for which no special appropriations were made.

Mimeographic and Stenographic supplies for all Departments..... 531.17

Printing and Paper:

Printing, stationery and miscellaneous publications..... 2,918.84

Telegrams 134.56

Telephones 1,152.55

Postage:

On general and second class matter..... 3,735.00

Janitor service 22,896.12

Janitors are paid $55.00 to $60.00 per month, student help 15c per hour.

Janitor Supplies 2,721.96

Heating Plant Service..... 5,908.78

There are from six to twelve firemen varying according to the season of the year, who are paid from $55.00 to $65.00 a month each.

Heating Plant Supplies..... 1,103.94

Hydro Electric Plant Service..... 1,442.54

Two operators at the Hydro Electric Plant are paid $70.00 per month each.

Hydro Electric Plant Supplies..... 305.65

Fuel 25,841.42

During the year ending July 1, 1915, we purchased a total of 10,933 tons of coal. Of this amount approximately 7,284 tons was Illinois coal, and 3,649 tons Iowa coal. Most of this coal is what is called Screenings or Steam Coal. Some, however, was of special size and quality for domestic use; the average price per ton, including the freight, unloading and hauling to bunkers, being $2.90.

Water Service 1,513.55

Rate, 6½c a thousand gallons.

Gas and Electric..... 2,334.35

Gas $1.00 a thousand, electric 14c K. W.

Ice 487.03

$2.50 per ton, hauling extra.

Garbage Service 328.00

Laundry Wages 2,740.33

Y. M. C. A. Rent..... 800.00

The University rents three halls for the use of the literary societies, and the gymnasium for use as a woman's gymnasium, paying $800 per annum, besides heating the buildings from the University Heating Plant.

Y. M. C. A. Support..... 400.00

Money expended to mantain an employment bureau and to make a directory of rooming and boarding places.

Stenographic Service 24.08

For all departments and for the administrative offices, paid at the rate of 25c an hour.

Rents 647.00

The University rents one house for use as a nurses' home for Homeopathic Hospital nurses.

Repair and Contingent:

Expenditures from Income Fund for the repair and upkeep of buildings 3,738.82

J. M. Fisk, Supt. of Grounds and Buildings (part salary)..... 1,299.96

Mr. Fisk received a salary of $2,600 for the year, $1,300.00 being charged to Building Tax Fund.

Assistance for Supt. of Grounds and Buildings..... 792.60

Supplies, etc., for Supt. of Grounds and Buildings..... 124.10

S. E. Shaff, University Electrician (7 1-3 mo.)..... 876.00

Geo. Hedges, University Engineer..... 1,200.00

Frank Englert, University Carpenter..... 1,080.00

Ellsworth Bright, Head Janitor..... 1,020.00

Total general expenditures Income Fund.....$104,252.39

LAW LOAN BOOK ACCOUNT.

Balance in Income Fund to credit of the Law Loan Book account, July 1, 1914	$ 524.30	
RECEIPTS.		
From rent of Law Books	281.00	
EXPENDITURES.		
For new books and rebinding of old loan sets		$ 263.49
Balance in Income Fund to the credit of Law Loan Book Account, June 30, 1915		541.81
	$ 805.30	$ 805.30

STORE HOUSE ACCOUNT.

Charges to various Departments for the year 1914-15.

Income Fund:

Department of Anatomy	$ 27.46	
Department of Animal Biology	1.64	
Department of Chemistry	23.73	
Department of Botany	5.73	
Department of Home Economics	186.27	
Department of Materia Medica	3.99	
Department of Military Science	.26	
Department of Mathematics	.07	
Department of Pathology and Bacteriology	116.58	
Department of Physiology	3.87	
Department of Surgery	9.00	
Department of Theory and Practice of Medicine	8.79	
Department of Zoology	9.40	
College of Dentistry	1.20	
College of Pharmacy	28.45	
University Library	10.08	
University Laundry	929.95	
University Editor	1.80	
Registrar	.60	
Currier Hall House	815.40	
Currier Hall Provisions	9,889.27	
University Hospital House	641.69	
University Hospital Provisions	11,649.04	
Homeopathic Hospital House	116.57	
University Hospital Provisions	2,831.81	
Motor Truck	9.98	
Heating Plant Supplies	236.37	
Hydraulic Plant Supplies	172.98	
Incidentals	590.42	
Janitors' supplies	2,248.31	
Summer Session	2.37	
Ice	50.65	
	$ 30,623.73	
Library Fund	1.89	
Repair and Contingent Fund	1,709.60	
Building Tax Fund	2,048.04	
Building Equipment Fund	23.61	
Equipment and Supplies Fund	96.39	
Engineering Equipment Fund	59.54	
Domestic Science Equipment Fund	69.89	
Dental Equipment Fund	34.53	
Paving and Sidewalks Fund	72.66	
Heating Plant Tunnel Fund	.43	
University Extension Fund	7.46	
Special Land Fund	26.83	
Donated Land Fund	64.28	
	$ 34,838.88	

EXPENDITURES.

Expended for salaries, expense of auto truck and for purchases		$ 38,569.58
Expenditures less charges to Departments		34,838.88
Net expenditures, 1914-15		$ 3,730.70
Debit balance, July 1, 1914		1,880.93
Received Cash Sales, 1914-15	15.43	
Debit Balances, June 30, 1915	5,596.20	
	$ 5,611.63	$ 5,611.63

This balance is covered by stock on hand (see Inventory):

Groceries	$ 2,511.24
Building Supplies	4,798.70
Fixtures	206.17
Total	$ 7,516.11

UNIVERSITY HOMEOPATHIC HOSPITAL ACCOUNT.

RECEIPTS.

Hospital Earnings	$ 7,778.75	
Nurses' Earnings outside of Hospital	255.70	
Operating Room Fees	988.00	
Total receipts, 1914-15	$ 9,022.45	

EXPENDITURES.

Salaries		$ 2,287.50
The Superintendent received $75 a month. The assistant Superintendent received $60 a month. There were about 12 nurses who received $5 a month each.		
Help		1,380.24
A cook was employed at $40 a month, a housekeeper at $25 a month, and a maid at $35 a month.		
Provisions		4,787.82
Household		2,031.00
This account includes house furnishings, including furniture, carpets, linen, dishes, etc., for the hospital and nurses' home.		
Medicine		323.46
This account covers medical and surgical supplies for the hospital.		
Total expenditures, 1914-15		$ 10,810.02
Amount overdrawn on Homeopathic Hospital account June 30, 1915	1,787.57	
	$ 10,810.02	$ 10,810.02

ENGINEERING TESTING LABORATORY ACCOUNT.

Balance in Income Fund to credit of Engineering Testing Laboratory Account, July 1, 1914	$ 70.44	

RECEIPTS.

From fees and charges	14.00	
Expenditures		$ 29.27
Balance in Income Fund to the credit of Engineering Testing Laboratory Account, June 30, 1915		55.17
	$ 84.44	$ 84.44

UNIVERSITY HOSPITAL ACCOUNT.

RECEIPTS.

Hospital Earnings	$ 44,101.83	
Nurses' earnings outside of Hospital	2,263.60	
Operating Room Fees	3,749.00	
Total receipts, 1914-15	$ 50,114.43	

EXPENDITURES.

Salaries		$ 15,360.97
Annual Salaries:		
Josephine Creelman, Superintendent	$ 1,350.00	
Bertha Kampmeier, Head Nurse (5 mo.)	325.00	
Sabina Peterson, Night Superintendent	780.00	
Maud Knight, Head Nurse	900.00	
Sophia Potgietter, Head Nurse	900.00	

Ada Reitz, Head Nurse	900.00	
Florence Springer, Head Nurse	900.00	
Priscilla Hall, Head Nurse (5 mo.)	375.00	
Jean Harrison, Masseuse	720.00	
Fay Wilcox, Dietitian	600.00	
Anna Gordon, Matron	900.00	
Mary McInnerney, Housekeeper	660.00	
Margaret Kalaher, Assistant	420.00	
Juanita Huff, Stenographer	600.00	
Margaret Daley, Clerk (3 mo.)	90.00	
Anna Fay, Clerk (9 mo.)	270.00	
Ethel Rosenburger, Clerk (10 mo.)	350.00	
Mrs. Clara Jersey, Matron Nurses' Home (3 mo.)	120.00	
There are about 70 nurses who receive $5 a month each	4,200.97	
Help		8,013.13
There was a cook employed at $55 a month, a second cook at $35 a month, 5 women to do cleaning at $35 a month, a janitor at $60 per month, and about 12 house maids at from $16 to $20 a month, an elevator man at $55 per month.		
Provisions		23,079.60
Household		10,833.61
This account covers house furnishings for the Hospital and nurses' homes, including furniture, carpets, linen, dishes, etc.		
Medicine		5,695.47
This account covers medical and surgical supplies for the Hospital.		
Total expenditures, 1914-15		$ 62,982.78
Balance overdrawn on University Hospital account, June 30, 1915	12,868.35	
	$ 62,982.78	$ 62,982.78

CURRIER HALL ACCOUNT.

Balance from Income Fund in Currier Hall Account, July 1, 1914		7,640.83

RECEIPTS.

From Room rents	11,796.85	
From Board	21,571.12	
Total Receipts		33,367.97
Total		$ 41,008.80

EXPENDITURES.

Salaries and Help (Including Director at $1,200 and Assistant at $800 per year):		
House	$ 3,092.13	
Dining Room	3,610.46	
		$ 6,702.59
Provisions:		
Provisions	8,521.92	
Milk and Cream	4,199.29	
Meats	3,354.81	
		13,076.02
Household:		
Laundry	514.94	
Light	763.25	
Heat	2,050.00	
Water	100.00	
Gas and electric power	1,108.49	
Other household expenditures	1,980.38	
		6,517.06
		$26,295.67

Added Improvements:		
Tennis Courts	33.38	
Painting	1,320.01	
Grounds	528.87	
Plumbing	398.39	
Fan and Fire Alarm	47.71	
Coal Bins	232.15	
Cistern	156.20	
Linen	41.11	
Boiler	309.00	
Furniture and Equipment	1,453.46	
Building	838.01	
Lighting	13.29	
		5,402.55
Total expenditure—Currier Hall		$ 31,698.25
Total balance in Income Fund to credit of Currier Hall Account, June 30, 1915		$ 9,310.55
		$41,008.80

SCHOOL OF MUSIC.

EXPENDITURES.

	Salary	Tuition	Total
Music Tuition and Salaries			
W. E. Hays, Director	$2,200.00	$ 816.50	$3,016.50
Anna Close Albright, Voice	200.00	769.00	969.00
Mrs. Anna D. Starbuck, Piano		1,322.50	1,322.50
Agnes Flannagan, Piano (also $200 from Ranney Fund)		1,051.00	1,051.00
Myrtle Wood, Piano		710.05	710.05
Esther McDowell Swisher, Piano		832.00	832.00
Helen Katz, Violin		737.00	737.00
O. E. Van Doren, Band	300.00	80.75	380.75
Zella Lutz, Stenographer	500.00		500.00
			9,518.80
Music Tuition refunded Ruth Clayton			36.95
Total expenditures, School of Music			$ 9,555.75

LIBRARY FUND.

Balance Cash on hand July 1, 1914	$ 1,245.77	

RECEIPTS.

From State Warrants Under Chapter 200, Sec. 1, Laws of 34th G. A.	17,500.00	
From sale of books and supplies	229.28	

EXPENDITURES.

General Library books and periodicals		$ 13,806.57
General Library binding		406.38
Law Library books and binding		2,796.94
Total expenditures 1914-15		17,009.89
Balance cash on hand June 30, 1915		1,965.16
	$ 18,975.05	$ 18,975.05

REPAIR AND CONTINGENT FUND.

Balance Cash on hand July 1, 1914		$ 555.22

RECEIPTS.

From State Warrants:		
Chapter 212, Sec. 2, 32d G. A.	$ 6,875.00	
Chapter 244, Sec. 1, 33d G. A.	6,875.00	
Chapter 200, Sec. 1, 34th G. A.	4,583.30	
Chapter 328, Sec. 1, 35th G. A.	9,166.66	
	$ 27,499.95	
From material sold	1,174.77	
From cancelled warrants	16.78	
		28,691.50
Total Receipts 1914-15		$ 29,246.72

EXPENDITURES.

General Repairs	$ 5,773.88
Plumbing Repairs	531.36
Electrical Repairs	3,028.16
Painting Repairs	477.82
Boiler Repairs	665.22
Athletic Park Sewer	270.39
Gasoline Engine Repairs	4.05
Foot Ball Bleachers	1,969.32
Engineering Building Foundry	2,548.12
Medical Building Repairs	416.01
Armory Repairs	63.28
Chemistry Building Repairs	150.80
Dental Building, Repairs	1,378.10
Engineering Building Repairs	76.86
Engineering Shops Repairs	20.28
Green House Repairs	4.40
Heating Plant Repairs	494.35
Homeopathic Hospital Repairs	148.65
Hospital Tunnel Repairs	184.25
Heating Plant Well	23.48
Hospital Ice Plant	17.42
Hospital Boiler Repairs	884.02
Laundry Repairs	16.90
Law Building Repairs	16.08
L. A. Building Repairs	418.23
Ice House	11.50
Natural Science Building Repairs	276.44
Nurses' Home Tunnel	287.38
Old Capitol Building Repairs	319.91
Old Capitol Tunnel	19.96
Pharmacy Laboratory Repairs	224.53
Physics Building Repairs	171.81
President's House Repairs	1,059.84
Old Science Building Repairs	491.09
School of Music Building Repairs	5.63
Store House Building Repairs	293.59
Steam Heating Repairs	454.60
University Hospital Repairs	1,632.33
Care of Tennis Courts	464.57
Care of Athletic Park	448.68
Care of Campus	445.34
University plumber, salary	330.00
Total expenditures, 1914-15	$ 26,518.63
Balance cash on hand June 30, 1915	2,728.09
	$ 29,246.72

BUILDING TAX FUND.

Balance cash on hand July 1, 1914 ..... $10,831.25

RECEIPTS.

From State Warrants under Chapter 183, Sec. 1, Laws of the 34th G. A.	$175,000.00	
From sale of material	15.00	
From warrants cancelled	14.40	$175,029.40
		$185,860.65

EXPENDITURES.

Hospital Northwest Wing:

Contract, Chas. Franklin	$ 45,988.07	
Plans, Proudfoot, Bird & Rawson	400.00	
Plumbing	4,143.37	
Heating	4,879.73	
Lighting	1,367.32	
Painting	255.30	
Electric	563.00	
Elevator	2,986.86	
Signal System	816.23	
Refrigeration	718.61	
Sewer	160.12	
Kitchen	21.25	
Miscellaneous	560.93	
Total Hospital Northwest Wing		62,860.79

Nurses' Home:

Contract, W. F. Kucharo & Co.	36,284.07	
Plans, Proudfoot, Bird & Rawson	1,040.00	
Plumbing	3,134.09	
Heating	2,129.78	
Lighting	847.17	
Painting	1,022.31	
Electric	427.83	
Elevator	30.30	
Excavation	914.65	
Tunnel	2,114.78	
Floors	3.97	
Sewer	9.25	
Superintendence	200.00	
Miscellaneous	350.19	
Total Nurses' Home		48,508.39

Currier Hall:

Contract, Chas. Franklin	369.42	
Plans, Proudfoot, Bird & Rawson	66.86	
Heating	51.43	
Lighting	2.00	
Tunnel	47.65	
Superintendence	599.96	
Miscellaneous	12.80	
Total Currier Hall		1,150.12

Men's Gymnasium:

Contract, W. F. Kucharo & Co.	25,199.90	
Plans, Proudfoot, Bird & Rawson	840.00	
Plumbing	1,776.76	
Heating	408.25	
Lighting	337.08	
Painting	.20	
Excavation	79.15	
Sewer	293.60	
Grading	36.00	
Signal system	1.98	
Superintendence	200.00	
Miscellaneous	60.93	
Electric	20.00	
Lockers	20.00	
Total Men's Gymnasium		29,273.85

Women's Gymnasium:

Contract, Theo. Stark & Son	34,985.58	
Plans, Proudfoot, Bird & Rawson	1,277.50	
Plumbing	1,458.69	
Heating	519.59	
Lighting	629.90	
Electric	96.55	
Painting	895.85	
Bells and telephones	48.44	
Excavation	43.73	
Superintendence	300.00	
Miscellaneous	57.51	
Tunnel	4.25	
Grading	72.25	
Total Women's Gymnasium		40,389.84
Hospital heating plant		127.99
Chemistry building repairs		10.73
Dental building repairs		35.75
Armory sewer		.50
Armory remodeling		936.16
Hospital extension heating		169.51
Total expenditures from the building tax fund 1914-15		$183,463.54
Balance cash on hand June 30, 1915		2,397.11
		$185,860.65

EQUIPMENT NEW BUILDINGS FUND.

Balance cash on hand July 1, 1914		$ 1,932.12
RECEIPTS.		
From state warrants under Chap. 328, Sec. 2, Laws of 35th G. A.	$ 30,000.00	
From sale of material	12.50	
From warrants cancelled	42.05	
		30,054.55
Total receipts		31,986.67
EXPENDITURES.		
Physics building equipment		3,000.00
Hospital extension equipment		17,589.07
Currier Hall equipment		131.46
President's home equipment		1,169.85
Laundry equipment		23.56
Law building Equipment		114.40
Animal house equipment		32.66
Medical building equipment		302.17
School of music		3,825.00
University hospital kitchen		1,238.85
Carpenter shop		460.50
Engineering building		591.15
University hospital drug room		207.96
Nurses' home		1,269.55
Total expenditures equipment New Building Fund		29,956.18
Balance cash on hand June 30, 1915		2,030.49
		$ 31,986.67

EQUIPMENT AND SUPPLIES FUND.

Balance cash on hand July 1, 1914		$ 3,214.87
RECEIPTS.		
From state warrants under Chap. 328, Sec. 2, Laws of 35th G. A.		7,500.00
		10,714.87
EXPENDITURES.		
Applied Science equipment:		
Civil engineering	$ 142.08	
Electrical engineering	278.18	
Mechanical engineering	509.14	
Descriptive geometry and drawing	71.72	
Mechanics	74.03	
		1,075.15
Department of Physics—equipment		1,265.15
University hospital—X-Ray equipment		343.75
Electrical supplies		853.60
Plumbing supplies		145.65
General equipment and supplies		521.81
Steam heating supplies		115.09
Equipment hospital drug room		15.25
Homeopathic hospital equipment		481.81
Heating plant boiler equipment		1,558.31
Total expenditures Equipment and Supplies		6,375.57
Balance cash on hand June 30, 1915		4,339.30
		$ 10,714.87

ENGINEERING EQUIPMENT FUND.

Balance cash on hand July 1, 1914		$ 1,137.68
RECEIPTS.		
From State Warrants under Chap. 328, Sec. 2, Laws of 35th G. A.		12,500.00
		$ 13,637.68

EXPENDITURES.		
Mechanics and Hydraulics		160.50
Civil Engineering Equipment		1,038.35
Electrical Engineering Equipment		5,422.76
Mechanical Engineering Equipment		5,155.98
General Equipment		210.38
Total expenditures Engineering Equipment Fund		11,987.97
Balance cash on hand June 30, 1915		1,649.71
		$ 13,637.68

DOMESTIC SCIENCE EQUIPMENT FUND.

Balance cash on hand July 1, 1914	$ 1,151.26	
RECEIPTS.		
From State Warrants under Chap. 328, Sec. 2, Laws of 35th G. A.	8,500.00	
EXPENDITURES.		
Department of Home Economics, Equipment		5,883.76
Balance cash on hand June 30, 1915		3,767.50
	$ 9,651.26	$ 9,651.26

DENTISTRY EQUIPMENT FUND.

RECEIPTS.		
From State Wararnts under Chap. 328, Sec. 2, Laws of 35th G. A.	$ 4,000.00	
Warrants Cancelled	12.21	
DISBURSEMENTS.		
College of Dentistry, Equipment for clinic and laboratory		$ 3,521.38
Balance overdrawn on Dentistry, Equipment Fund July 1, 1914		153.77
Balance cash on hand June 30, 1915		337.06
	$ 4,012.21	$ 4,012.21

PAVING AND SIDEWALKS FUND.

Balance cash on hand July 1, 1914	$ 9.09	
RECEIPTS.		
From State Warrants under Chap. 328, Sec. 2, Laws of 35th G. A.	$ 5,000.00	
Material sold	199.18	
EXPENDITURES.		
City of Iowa City:		
Balance due on paving Dubuque Street between Iowa Avenue and Jefferson Street		$ 931.45
Expended for grading around Physics Building, Nurses' Home and on Front Street, cement walks, also expense of care of campus and grounds		4,261.06
Total expenditure 1914-15		5,192.51
Balance cash on hand June 30, 1915		15.76
	$ 5,208.27	$ 5,208.27

HEATING PLANT TUNNEL FUND.

Balance cash on hand July 1, 1914	$ 1,372.12	
EXPENDITURES.		
For material and labor used in construction of Heating Plant Tunnel		$ 1,372.12
	$ 1,372.12	$ 1,372.12

UNIVERSITY EXTENSION FUND.

Balance cash on hand July 1, 1914	$ 6,728.09	
RECEIPTS.		
From State Appropriations, Chap. 328, Sec. 1, Laws of 35th G. A.	15,000.00	
From sale of material and tests	69.17	
From Cancelled Warrants	58.31	
DISBURSEMENTS.		
Salaries:		
O. E. Klingaman, Acting Director		$ 2,750.00
C. F. Kurtz, Assistant		1,500.00
E. J. Ashbaugh, Assistant		1,500.00
Bessie McClenahan, Assistant		1,300.00
R. A. Stevenson, Assistant		1,500.00
Della Grizel, Stenographer		720.00
Summer Work:		
J. H. Dunlap, salary and expenses		544.50
R. B. Kittredge, salary and expenses		506.96
A. H. Ford, salary and expenses		396.86
Paul S. Peirce, salary and expenses		329.56
C. H. Weller, salary and expenses		415.59
Robert Rienow, salary and expenses		533.42
Traveling expenses		895.21
Office expenses		93.24
Office help not on pay roll		151.22
Child welfare		421.40
Lantern Slides and carrying cases		290.58
Freight and express		4.91
Printing other than bulletins		54.90
Library		205.92
Postage		452.50
Bulletins		529.37
Conference at University		241.00
Teachers' Employment Bureau		614.39
Lakeside Laboratory		817.61
Office Equipment		287.60
Courtis Tests (on hand)		316.10
Miscellaneous expenditures for expense		57.65
		17,430.50
Balance cash on hand June 30, 1915		4,425.07
	$ 21,855.57	$ 21,855.57

UNIVERSITY EPIDEMIOLOGIST FUND.

Balance cash on hand July 1, 1914	$ 1,306.32	
RECEIPTS.		
From State Warrants under Chap. 328, Sec. 1, Laws of 35th G. A.	5,000.00	
EXPENDITURES.		
Salaries:		
Dr. C. S. Woods		$ 3,500.00
J. J. Hinman, Jr.		1,200.00
Emma D. Taylor, Stenographer		300.00
C. G. Jacobson, Laboratory Assistant		9.00
Expenses:		
Dr. C. S. Woods, Traveling		68.18
Bausch & Lomb Optical Co., Laboratory Equipment		43.37
Eimer & Amend, Laboratory Equipment		558.55
Whitall Tatum Co., Laboratory Equipment		36.96
Miscellaneous Expenditures		187.97
Total Expenditures		5,904.03
Balance cash on hand June 30, 1915		402.29
	$ 6,306.32	$ 6,306.32

SPECIAL LAND FUND.

Balance cash on hand July 1, 1914	$ 8,445.47	
RECEIPTS.		
From State Warrants under Chap. 328, Sec. 2, Laws of 35th G. A.	5,000.00	
From property sold and rents	517.50	
EXPENDITURES.		
Treasurer State of Iowa:		
Condemnation proceedings:		
W. ½ Lot 6, Block 90 (M. Corso)		$ 4,000.00
E. ½ Lot 6, Block 90 (E. Naylor)		3,000.00
Bought from Mrs. Kate Abbott:		
E½ Lot 5, Block 90		5,000.00
Otto & Otto, legal services		126.95
Theo. Fautz, Sheriff, Jury costs		67.15
S. A. Swisher, Insurance Nurses' Home		48.00
S. A. Swisher, Insurance Nurses' Home		11.25
Miscellaneous repairs on buildings owned and rented by the University		869.13
		13,122.48
Balance cash on hand June 30, 1915		840.49
	$ 13,962.97	$ 13,962.97

DONATED LAND FUND.

Balance cash on hand July 1, 1914	$ 1,092.37	
RECEIPTS.		
From rent of lands, J. D. Carson	300.00	
From rent of land, C. L. Lauback	120.00	
From Board in Control of Athletics, payment of bleachers	916.52	
EXPENDITURES.		
Expended for labor and material, retaining wall at dam		$ 73.66
Labor and material for bleachers, paid by Board in Control of Athletics		916.52
Total expenditures 1914-15		990.18
Balance cash on hand June 30, 1915		1,438.71
	$ 2,428.89	$ 2,428.89

PERMANENT LAND FUND.

Balance cash on hand July 1, 1914	$259,733.86	
RECEIPTS.		
From sale of land	9,985.50	
Balance cash on hand June 30, 1915		$269,719.36
	$269,719.36	$269,719.36

WM. JENNINGS BRYAN PRIZE FUND.

Cash on hand July 1, 1914	$ 250.00	
Cash on hand June 30, 1915		$ 250.00

Note—This fund was established by Wm. Jennings Bryan, the interest to be used for an annual prize for the best essay on some phase of Political Science.

WM. JENNINGS BRYAN PRIZE INTEREST FUND.

Cash on hand July 1, 1914	$ 46.16
Received interest on principal of $250	12.50

DISBURSEMENTS.

W. Keith Hamill, best essay on Science of Gov., 1914		$ 10.00
James Hodgson, Best Essay on Legislative Reference Libraries as a Factor in the Re-organization of State Government, 1915		10.00
Balance cash on hand June 30, 1915		38.66
	$ 58.66	$ 58.66

CHAS. M. JESUP PRIZE FUND.

Cash on hand July 1, 1914	$ 50.00	
Cash on hand June 30, 1915		$ 50.00
	$ 50.00	$ 50.00

A. WHITNEY CARR FREE SCHOLARSHIP FUND.

Cash on hand July 1, 1914	$ 50,000.00	
Cash on hand June 30, 1915		$ 50,000.00
	$ 50,000.00	$ 50,000.00

A. WHITNEY CARR FREE SCHOLARSHIP INTEREST FUND.

Cash on hand July 1, 1914	$ 3,821.96
Received interest on principal of $50,000.00	2,518.43
Received from other sources	1.75

EXPENDITURES.

Scholarships as follows: Harry K. Leedham, $5.00; Orville Harris, $5.00; Robert M. Browning, $10.00; J. A. Swisher, $5.00; Otto Schlueter, $5.00; Dorothy Dondore, $5.00; Earle G. Allen, $20.00; Floyd Allen, $10.00; Agnes E. Anderson, $20.00; Virgil R. Anderson, $10.00; G. A. Atkinson, $20.00; Harold Barber, $20.00; Barbara R. Baum, $10.00; E. J. Bashe, $20.00; Geo. A. Belfon, $10.00; Paul Bender, $10.00; Gertrude G. Benson, $10.00; W. G. Bessmer, $20.00; Arthur Beyer, $10.00; C. A. Bowlesby, $10.00; Milton B. Brenneman, $10.00; Francis James Brown, $20.00; Frances I. Brown, $10.00; Marguerite Brueckner, $20.00; Lyman E. Case, $10.00; Henrietta Chalfont, $20.00; Ethel E. Cline, $20.00; H. J. Clingman, $10.00; Lelah M. Coleman, $20.00; Coleman H. Cook, $20.00; Margaret Cook, $10.00; Clarence McGrath, $10.00; Edith McGrew, $10.00; Andrew M. McMahon, $20.00; Merl H. Meighan, $10.00; Ruth Meizian, $20.00; Emmet More, $10.00; Frank Moravec, $10.00; Melvin J. Muckey, $20.00; George Murray, $20.00; Cobin H. Norgang, $20.00; Gail C. Oakes, $10.00; Louis F. Parker, $10.00; Harry E. Parsons, $20.00; Robert D. Perry, $10.00; Joseph A. Pollock, $20.00; W. H. Prottsman, $20.00; J. Wesley Ritz, $10.00; Lee V. Roberts, $10.00; Donald C. Rogers, $10.00; John A. Roth, $10.00; Robert E. Savage, $10.00; Harold P. Saxton, $10.00; Clifford W. Scott, $10.00; Ruth Seablom, $20.00; Robert Shaw, $10.00; Elmer Siegling, $20.00; L. N. Slocum, $10.00; Charlotte Stone, $10.00; J. A. Swisher, $10.00; Cecil W. Sward, $20.00; Atwell Talley, $20.00; Dale Thorn, $10.00; Lucy Gunsolley, $10.00; Mary Alice Gustafson, $20.00; Earl W. Hall, $10.00; Paul G. Hanna, $10.00; F. G. Heil, $20.00; George Heisterman, $20.00; Thome Henderson, $20.00; Philip A. Hilton, $10.00; John N. Hoegh, $10.00; George Holmes, $20.00; Lewis P. Holt, $10.00; Dein N. Huong, $20.00; T. Ingvaldsen, $20.00; Oliver Irish, $20.00; Rudolph H. Jordan, $20.00; R. C. Kahle, $20.00; A. A. Kenne, $20.00; Lottie L. Kinsinger, $10.00; Elizabeth Mickel Kevan, $20.00; Walter Walwin Kitson, $10.00; Myrtle Gleason Kohl, $20.00; A. C. Krakon, $10.00; Hans Kuhlmann, $20.00; William Kurth, $10.00; Verne B. Lane, $10.00; Jeannette Magowan, $20.00; Frank Marasco, $20.00; H. W. Matson, $10.00; Ada Maxson, $20.00; Forrest McBride, $10.00; Ruby McBride, $20.00; Joyce H. Crowell, $20.00; Kris Crowther, $20.00; Ruth A. Davis, $10.00; Charlotte M. Davis, $10.00; Paul R. DeFreece, $20.00; M. C. Del Manzo, $20.00; Raymond Deppe, $20.00; Dorothy Dondore, $20.00; Hanna L. Drexel, $20.00; W. L. Dutton, $10.00; Rose Edie, $20.00; E. William Edwardson, $10.00; Alice Lucile Farnham, $20.00; G. L. Farnham, $20.00; Harold Farr, $20.00; Raymond M. Faupel, $10.00; Lillian Filean, $10.00; John J. Foarde, $20.00; Robert E. Fosdick, $10.00; Harold D. Freyder, $20.00; George Fries, $20.00; Charles Gallaher, $20.00; David M. Gallaher, $10.00; Myre C. Gilchrist, $20.00; Harry G. Glick, $10.00; H. E. Godden, $10.00; Ethel Gould, $10.00; Vernon Gould, $20.00; Roy F. Graesser, $20.00; Ruth A. Gray, $10.00; Harold Gunsolley, $20.00; Louis Ticktin, $20.00; Carl A. Trexel, $20.00; Myrtle Tudor, $10.00; Mina E. Tuttle, $10.00; Samuel Tyler, $10.00; Vera Habenicht, $50.00; Winifred Voreck, $10.00; Anna Weissinger, $10.00; M. B. Willey, $20.00; Dora May Williams, $10.00; Ethyn Williams, $10.00; Gwyneth Williams, $10.00; Helen Carolyn Wilson, $10.00; Mildred Zimmerman, $20.00; Lester F. Austin, $10.00; Ralph L. Marriott, $10.00; Byrle Turner, $10.00; Mrs. E. Leigh Mudge, $10.00; Alice A. Hatcher, $10.00; Jennie Bedrick, $20.00; E. H. Conroy, $10.00; Arthur Beyer, $10.00; Lyman E. Case, $10.00; Thomas F. Cassutt, $10.00; Glen R. Hill, $10.00; U. B. Lane, $10.00; H. W. Matson, $10.00; G. P. McGroth, $10.00; Merl H. Meighan, $10.00; Nelson Casper, $10.00; Louis F. Parker, $10.00; Ethel Ferman Perry, $10.00; Robert D. Perry, $10.00; Michael S. Precker, $10.00; Harold P. Saxton, $10.00; Floyd S. Yetter, $10.00; Lester F. Austin, $10.00; Norval E. Baker, $10.00; Ida Kranshaar, $10.00; Adaline Mann, $10.00; Edith McGrew, $10.00; Catherine O'Connell, $10.00; Edna H. Porter, $10.00; Wayne Prudhon, $10.00; Wesley J. Ritz, $10.00; Lee Roberts, $10.00; Leona Rubelman, $10.00; J. Rubenstein, $10.00; Charlotte Stone, $10.00; Ralph C. Stribe, $10.00; Eva Whetstone, $10.00; Helen Wilson, $10.00; Clara Cook, $10.00; Alice Hatcher, $10.00; Don C. Rogers, $10.00; Robert Shaw, $10.00.

Total Scholarships		2,485.00
Balance cash on hand June 30, 1915		3,857.14
	$ 6,342.14	$ 6,342.14

F. O. LOWDEN PRIZE ORATORY FUND.

25 Shares of seven per cent preferred stock of the National Biscuit Co., on hand July 1, 1914, and June 30, 1915	$ 2,500	$ 2,500.00

F. O. LOWDEN ORATORY PRIZE INTEREST FUND.

Cash on hand July 1, 1914	$ 368.75	

RECEIPTS.

Received seven per cent dividend on 25 shares of preferred stock of National Biscuit Co.	175.00	

EXPENDITURES.

Northern Oratorical League Prizes:		
Carl W. Painter, First Prize		100.00
Frances Hickok, Second Prize		50.00
Total expenditures		$ 150.00
Balance cash on hand June 30, 1915		393.75
	$ 543.75	$ $543.75

MARK RANNEY MEMORIAL FUND.

Cash on hand July 1, 1914	$ 83,436.67	
Cash on hand June 30, 1915		$ 83,436.67

Note—This fund was established by Martha W. Ranney, the interest from the fund to be used in establishing and maintaining the Mark Ranney Memorial Institute for the Foundation of a College of Fine Arts in connection with the University.

MARK RANNEY MEMORIAL INTEREST FUND.

Cash on hand July 1, 1914	$ 2,203.70	

RECEIPTS.

From interest on principal of $83,436.67	4,545.99	

EXPENDITURES.

Fine Arts Salaries:		
Agnes Flannagan, Instructor in Music		$ 200.00
C. A. Cumming, Professor		1,800.00
Linn Culbertson, Instructor		1,200.00
Edith Eastman, Stenographer		300.00
Mrs. Francis Vasku, allowance		300.00
Books, etc. for Ranney Library		301.81
Equipment College of Fine Arts		293.03
Equipment Ranney Library		204.53
Care of Ranney Library		86.60
Posing College of Fine Arts		118.50
Total expenditures		4,804.47
Balance cash on hand June 30, 1915		1,945.22
	$ 6,749.69	$ 6,749.69

WAITE LOWRY GIFFORD MEMORIAL FUND.

Cash on hand July 1, 1914	$ 8,737.08	$ 8,737.08
Cash on hand June 30, 1915	$ 8,737.08	$ 8,737.08

WAITE LOWRY GIFFORD MEMORIAL INTEREST FUND.

Cash on hand July 1, 1914	$ 256.60	
Received interest on principal of $8,737.08	408.00	
		$ 664.60

EXPENDITURES.

University Hospital	$ 71.00	
Balance cash on hand June 30, 1915	593.60	
	$ 664.60	$ 664.60

JOHN F. DILLON SCHOLARSHIP FUND.

RECEIPTS.

Received of the Executors of the will of John F. Dillon, deceased	$ 10,000.00	
Less collateral inheritance tax	475.00	
	9,525.00	
Balance cash on hand June 30, 1915	$ 9,525.00	$ 9,525.00
		$ 9,525.00

REPORT OF SECRETARY, STATE UNIVERSITY

FISCAL YEAR ENDING JUNE 30, 1916.

	Balance July 1, 1915	Receipts	Transfers	Total receipts	Expenditures	Charge and credits	Total disbursements	Balance June 30, 1916
Educational Support fund	$30,429.25	$ 827,189.09	$ *535,290.16	$ 291,898.93	$ 247,775.95	$14,725.40	$ 252,501.35	$ 69,826.83
College of Applied Science, Law, etc., fund	----------	63,014.90	344,235.00	407,249.90	393,166.02	168.80	392,997.22	14,252.68
College of Education fund	----------	18,333.30	16,100.00	34,433.30	26,792.92	----------	26,792.92	7,640.38
College of Dentistry fund	----------	21,756.90	32,810.00	54,566.90	51,725.10	----------	51,725.10	2,841.80
College of Fine Arts fund	----------	2,750.00	4,500.00	7,250.00	3,000.00	----------	3,000.00	4,250.00
Graduate College fund	----------	8,281.97	7,250.00	15,531.97	11,665.95	----------	11,665.95	3,866.02
Summer Session fund	----------	16,000.00	10,000.00	26,000.00	22,070.55	----------	22,070.55	3,929.45
Administration fund	----------	5,706.25	30,500.00	36,296.25	28,456.71	----------	28,456.71	7,839.54
Building and Grounds fund	----------	11,795.61	89,805.16	101,600.77	106,157.37	4,556.60	101,600.77	----------
Repair and Contingent fund	2,728.09	35,575.65	----------	35,575.65	38,249.72	----------	38,249.72	54.02
Equipment and Supplies fund	4,339.30	11,472.80	----------	11,472.80	8,653.54	----------	8,653.54	7,158.56
Library fund	1,965.16	17,503.19	----------	17,503.19	17,902.71	----------	17,902.71	1,565.64
University Extension fund	4,425.07	17,471.57	----------	17,471.57	16,062.74	----------	16,062.74	5,833.90
University Epidemiological Laboratory	402.29	5,000.00	----------	5,000.00	5,252.53	----------	5,252.53	149.76
Building	2,397.11	137,570.62	----------	137,570.62	135,167.48	----------	135,167.48	4,800.25
Building Equipment fund	2,030.49	22,500.00	----------	22,500.00	21,053.65	----------	21,053.65	3,476.84
Electrical Equipment	----------	5,000.00	----------	5,000.00	4,698.34	----------	4,698.34	301.66
Enlarged Heating Plant fund	----------	18,000.00	----------	18,000.00	8,685.47	----------	8,685.47	9,314.53
Tunnel fund	----------	6,019.54	----------	6,019.54	5,858.91	----------	5,858.91	160.63
Paving and Sidewalks fund	15.76	3,085.32	----------	3,085.32	3,072.38	----------	3,072.38	28.70
Special Land fund	840.49	56,762.17	----------	56,762.17	57,066.82	----------	57,066.82	535.84
Donated Land fund	1,438.71	1,187.63	----------	1,187.63	2,201.33	----------	2,201.33	425.01
Engineering Equipment fund	1,649.71	----------	----------	----------	1,364.03	----------	1,364.03	285.68
Dental Equipment fund	337.06	----------	----------	----------	337.06	----------	337.06	----------
Domestic Science fund	3,767.50	----------	----------	----------	3,767.50	----------	3,767.50	----------
Ranney Interest fund	1,945.22	4,417.28	----------	4,417.28	4,452.50	----------	4,452.50	1,910.00
Carr Interest fund	3,857.14	2,550.49	----------	2,550.49	2,285.00	----------	2,285.00	4,122.63
Gifford Interest fund	593.60	482.50	----------	482.50	----------	----------	----------	1,076.10
Dillon Interest fund	----------	42.17	----------	42.17	----------	----------	----------	42.17
Bryan Interest fund	38.66	12.50	----------	12.50	10.00	----------	10.00	41.16
Lowden Interest fund	393.75	175.00	----------	175.00	150.00	----------	150.00	418.75
Jessup Interest fund	50.00	----------	----------	----------	----------	----------	----------	50.00
Total	$63,644.36	$ 1,319,656.45	----------	$ 1,319,656.45	$1,227,102.28	----------	$1,227,102.28	$156,198.53

*This is the sum of all "Transfers." Deducting this amount from the Educational Support Fund under "Receipts" gives the first item under "Total Receipts."

†This is the sum of the two items in this column. Adding this amount to the first item under "Expenditures" gives the corresponding item under "Total Expenditures."

RECEIPTS AND EXPENDITURES, JULY 1, 1915, TO JUNE 30, 1916.

Cash on hand July 1, 1915	$ 63,644.36	
Total receipts for the year	1,319,656.45	
Total expenditures for the year		$1,227,102.28
Cash on hand June 30, 1916		156,198.53
	$1,383,300.81	$1,383,300.81

BALANCES.

Educational support fund	69,826.83
College of Applied Science, Etc., fund	14,252.68
College of Education fund	7,640.28
College of Dentistry fund	2,841.80
College of Fine Arts fund	4,250.00
Graduate College fund	3,866.02
Summer Session fund	3,929.45
Administration fund	7,839.54
Repair and contingent fund	54.02
Equipment and supplies fund	7,158.56
Library fund	1,565.64
University Extension fund	5,833.90
University Epidemiologist fund	149.76
Building fund	4,800.25
Building equipment fund	3,476.84
Electrical equipment fund	301.66
Enlarged heating plant fund	9,314.53
Tunnel fund	160.63
Paving and sidewalks fund	28.70
Special land fund	535.84
Donated land fund	425.01
Engineering equipment fund	285.68
Mark Ranney Memorial Interest fund	1,910.00
A. Whitney Carr Scholarship Interest fund	4,122.63
Waite Lowry Gifford Memorial Interest fund	1,076.10
John F. Dillon Scholarship Interest fund	42.17
W. J. Bryan Prize Interest fund	42.16
F. O. Lowden Prize Interest fund	418.75
C. M. Jesup Prize Interest fund	50.00
	$ 156,198.53

STATEMENT OF RECEIPTS AND DISBURSEMENTS FOR THE FISCAL YEAR ENDING JUNE 30, 1916.

RECEIPTS—1915-1916.

From State Appropriations:

Educational Support Fund:

32nd G. A., Chap. 212, Sec. 2	$ 17,125.00	
32nd G. A., Chap. 214, Sec. 2	2,916.70	
33rd G. A., Chap. 244, Sec. 1	1,833.35	
34th G. A., Chap. 200, Sec. 1	2,083.35	
34th G. A., Chap. 200, Sec. 1	8,183.35	
35th G. A., Chap. 328, Sec. 1	5,750.00	
36th G. A., S. F. 288, Sec. 1	416,808.30	
		$ 454,700.05

36th G. A., S. F. 288, Sec. 1:

College of Applied Science fund	62,654.15	
College of Education fund	18,333.30	
College of Dentistry fund	21,747.90	
College of Fine Arts fund	2,750.00	
Graduate College fund	8,250.00	
Summer Session fund	16,000.00	
Administration fund	5,706.25	
Building and grounds fund	11,000.00	
Equipment and supplies fund	11,458.30	
		157,899.90

From State Appropriations for Repair and Contingent:

32nd G. A., Chap. 212, Sec. 2	625.00	
33rd G. A., Chap. 244, Sec. 1	625.00	
34th G. A., Chap. 200, Sec. 1	416.70	
35th G. A., Chap. 328, Sec. 1	833.35	
36th G. A., S. F. 288, Sec. 1	32,083.30	
		34,583.35

From State Appropriations for Library:

34th G. A., Chap. 200, Sec. 1	1,458.35	
36th G. A., S. F. 288, Sec. 1	16,041.65	
		17,500.00

From State Appropriations for University Extension:

35th G. A., Chap. 328, Sec. 1	1,250.00	
36th G. A., S. F. 288, Sec. 1	15,583.30	
		16,833.30

From State Appropriations for University Epidemiologist:

35th G. A., Chap. 328, Sec. 1	416.70	
36th G. A., S. F. 288, Sec. 1	4,583.30	
		5,000.00

From State Appropriations for Buildings:

34th G. A., Chap. 183, Sec. 1	34,470.78	
35th G. A., Sec. 1400-q, Sup. to Code, 1915	92,500.00	
36th G. A., H. F. 248, Sec. 1	10,000.00	
		136,970.78

From State Appropriations for Special Purposes:

36th G. A., S. F. 242, Sec. 1:

Equipment new building fund	22,500.00	
Electrical equipment fund	5,000.00	
Enlarged heating plant fund	18,000.00	
Tunnel to new buildings fund	6,000.00	
Paving and sidewalks fund	3,000.00	
Special land fund	48,000.00	
		102,500.00

Total state appropriations	$ 925,987.38

From productive funds:

Income from permanent land fund		14,795.37
From tuitions—all colleges		109,297.95
From miscellaneous sources—support fund		248,222.10
From material sold—College Ap. Sc., Etc., fund		176.67
From material sold—Graduate College fund		16.97
From material sold—Building and grounds fund		478.11
From material sold—Repair and contingent fund		947.56
From material sold—Equipment & supplies fund		14.50
From material sold—Library fund		3.19
From material sold—University Extension fund		634.40
From material sold—Building fund		10.79
From material sold—Tunnel to new bldgs. fund		19.54
From material sold—Paving and sidewalks fund		85.32
From property sold—Special land fund		8,762.17
From rents—Donated land fund		1,187.63
From special funds:		
Mark Ranney Memorial Income fund	4,417.28	
A. Whitney Carr Scholarship Income fund	2,550.49	
Waite Lowry Gifford Memorial Income fund	482.50	
John F. Dillon Scholarship Income fund	42.17	
Wm. J. Bryan Prize Income fund	12.50	
F. O. Lowden Prize Income fund	175.00	
Total from special funds		7,679.94

Warrants cancelled—Educ. Support fund	173.62	
College of Ap. Sc., Etc. fund	184.08	
College of Dentistry fund	9.00	
Graduate College fund	15.00	
Repair and contingent fund	44.74	
Building fund	589.05	
University extension fund	3.87	
Building and grounds fund	317.50	
		1,336.86
Total income from all sources for all purposes—1915-16		$1,319,656.45
Total balance in all funds July 1, 1915		63,644.36
Grand total		$1,383,300.81

These funds are in the nature of University trusts—the proceeds being used for scholarships, prizes, etc.

EXPENDITURES—1915-16.

Educational Support Fund	$ 252,501.35	
College of Applied Science, Etc., Fund	392,997.22	
College of Education Fund	26,792.92	
College of Dentistry Fund	51,725.10	
College of Fine Arts Fund	3,000.00	
Graduate College Fund	11,665.95	
Summer Session Fund	22,070.55	
Administration Fund	28,456.71	
Building & Grounds Fund	101,600.77	
Repair & Contingent Fund	38,249.72	
Equipment & Supplies Fund	8,653.54	
Library Fund	17,902.71	
University Extension Fund	16,062.74	
University Epidemiologist Fund	5,252.53	
Building Fund	135,167.48	
Building Equipment Fund	21,053.65	
Electrical Equipment Fund	4,698.34	
Enlarged Heating Plant Fund	8,685.47	
Tunnel to New Buildings Fund	5,858.91	
Paving & Sidewalks Fund	3,072.38	
Special Land Fund	57,066.82	
Donated Land Fund	2,201.33	
Engineering Equipment Fund	1,364.03	
Dental Equipment Fund	337.06	
Domestic Science Equipment Fund	3,767.50	
Mark Ranney Memorial Interest Fund	4,452.50	
A. Whitney Carr Scholarship Interest Fund	2,285.00	
Waite Lowry Gifford Memorial Interest Fund	10.00	
F. O. Lowden Prize Interest Fund	150.00	
Total expenditures—1915-16		$1,227,102.28
Total balance cash on hand June 30, 1916		156,198.53
Grand Total		$1,383,300.81

EDUCATIONAL SUPPLY FUND—1915-16.

RECEIPTS.

From State appropriations:		
32d G. A., Chap. 212, Sec. 2	$ 17,125.00	
32d G. A., Chap. 214, Sec. 2	2,916.70	
33d G. A., Chap. 244, Sec. 1	1,833.35	
34th G. A., Chap. 200, Sec. 1	2,083.35	
34th G. A., Chap. 200, Sec. 1	8,183.35	
35th G. A., Chap. 328, Sec. 1	5,750.00	
36th G. A., S. F. 288, Sec. 1	416,808.30	
		$ 454,700.05
From tuitions and laboratory fees:		
College of Liberal Arts	33,224.50	
College of Applied Science	5,357.75	
College of Law	7,650.00	
College of Medicine	13,199.25	

College of Homeopathic Medicine	827.75	
College of Dentistry	32,934.75	
College of Pharmacy	3,891.50	
Graduate College	1,001.25	
School of Music	8,307.70	
Summer Session and Library School	2,166.50	
Elementary School	737.00	
		109,297.95
From Miscellaneous sources:		
Diploma Fees	4,728.00	
University Homeopathic Hospital Receipts	10,743.41	
University Hospital Receipts	100,714.34	
Ophthalmology and Otology Receipts	2,101.38	
Vaccines, Etc., Receipts	654.00	
Dental Clinic Receipts	13,665.26	
Law Loan Book Account Receipts	316.25	
Engineering Testing Laboratory Receipts	84.17	
Currier Hall Receipts	41,249.00	
Storehouse Receipts	63,252.75	
Interest on daily bank balance	3,836.59	
Miscellaneous cash—material sold, laboratory breakage, locker rentals, etc	6,876.95	
		248,222.10
From interest on permanent land fund		14,795.37
Warrants cancelled		173.62
Total receipts—Educational Support Fund		$ 827,189.09
Less transfers to other funds:		
College of Applied Science, Etc., Fund	344,235.00	
College of Education Fund	16,100.00	
College of Dentistry Fund	32,810.00	
College of Fine Arts Fund	4,500.00	
Graduate College Fund	7,250.00	
Summer Session Fund	10,000.00	
Administration Fund	30,590.00	
Building and Grounds Fund	89,805.16	
		535,290.16
Total net receipts		291,898.93
Balance cash on hand July 1, 1915		30,429.25
Grand Total		$ 322,328.18

EDUCATIONAL SUPPORT FUND—1915-16.

EXPENDITURES.

Alumni Bureau Salaries	$1,840.00		
Alumni Bureau Supplies	432.66		
		$ 2,272.66	
General Library:			
Salaries	8,613.33		
Assistance	1,441.77		
Supplies	748.08		
		10,803.18	
General expenditures from Educational Support Fund		23,875.62	
University Hospital Expenditures		98,643.66	
University Homeopathic Hospital Expenditures		12,175.81	
Currier Hall Expenditures		34,740.20	
Store House Expenditures		61,700.27	
Law Loan Book Account Expenditures		163.80	
Engineering Testing Laboratory Expenditures		5.00	
Tuitions Refunded		289.20	
School of Music Tuitions		7,831.95	
Total expenditures from Educational Support Fund			$252,501.35
Balance cash on hand June 30, 1916			69,826.83
Grand Total			$322,328.18

ITEMIZED EXPENDITURES EDUCATIONAL SUPPORT FUND, 1915-16

ITEMIZED EXPENDITURES—ALUMNI BUREAU.

Theodore Wanerus, Secretary	$ 1,000.00	
Cora Richards, Stenographer	840.00	
Total salaries Alumni Bureau		1,840.00
Stenographic service, supplies, etc.		432.66
Total		$ 2,272.66

ITEMIZED EXPENDITURES—GENERAL LIBRARY.

Jane E. Roberts, Librarian	1,600.00	
Nina Shaffer, Reference Librarian	1,100.00	
Jessie L. Arms, Assistant Cataloguer	1,000.00	
Bessie E. Stover, Assistant Cataloguer	780.00	
Cena L. Sprague, Assistant Cataloguer	720.00	
Grace Wormer, General Assistant	720.00	
Edith Hyde, Reference Assistant (9 1-3 mo.)	653.33	
Cariola Barker, Bibliographical Assistant	720.00	
Delvena Anderson, Stenographer	600.00	
Vera Anderson, Reserve Assistant	360.00	
Helen Fryauf, Reserve Assistant	360.00	
Supplies, etc., Library		748.08
Library assistants by the hour		1,441.77
Total Salaries—Library	8,613.33	
Total assistance and supplies—Library		2,189.85
Total		$ 10,803.18

GENERAL EXPENDITURES FROM EDUCATIONAL SUPPORT FUND, 1915-16.

Advertising:	
Advertising the University in miscellaneous publications and calendars	$ 1,305.63
Commencement Expenses	952.80
Catalogues and Bulletins:	
Cost of printing, paper and cuts, for calendars and announcements for all schools and colleges	3,553.40
General Lectures	1,233.23
This sum was expended in paying the expenses of lecturers for University assemblies, Vesper Services, etc.	
General Unclassified Account	5,270.09
This sum was expended for items for which no special appropriations were made.	
Association Dues and Expenses	894.07
This sum was expended for membership fees in various associations, also for expenses of delegates representing the University at various meetings.	
Mimeographic Supplies for all departments	462.49
Multigraph Supplies for all departments	204.09
Printing and Paper	3,044.01
Printing, stationery, etc.	
Postage	2,672.72
On general and second class matter.	
Telegrams	105.76
Students' Employment Bureau	400.00
Money expended to maintain an employment bureau and to make a directory of rooming and boarding places.	
Rents	135.00
The University rented for a few months a house for use as a Nurses' Home for Homeopathic Hospital nurses.	

Publicity	217.05
Supplies and assistance for the Publicity Department.	
President's Traveling Expenses	801.84
Stenographic Service	12.41
Miscellaneous stenographic service.	
School of Music	502.01
This sum was expended for supplies, printing, tuning pianos, etc.	
Publication Fund	499.00
This sum was expended for publishing various scientific bulletins.	
Filters	1,610.02
Pittsburgh Filter Mfg. Co. For swimming pool filters.	
Total general expenditures from Educational Support Fund 1915-1916	$ 23,875.62

UNIVERSITY HOSPITAL ACCOUNT.

RECEIPTS.

Hospital Earnings	$94,300.37	
Nurses' earnings outside of hospital	710.97	
Operating Room Fees	5,703.00	
Total Receipts 1915-16		$100,714.34

EXPENDITURES.

Salaries:		
Dr. W. T. Graham, Superintendent, six months	$ 1,374.96	
Josephine Creelman, Superintendent of Nurses	1,500.00	
Maud Knight, Head Nurse	900.00	
Florence Springer, Head Nurse	900.00	
Ada Reitz, Head Nurse	900.00	
Bertha Kampmeier, Head Nurse	780.00	
Rowena Spencer, Head Nurse	390.00	
Mae Ferleman, Head Nurse	585.00	
Althea Althouse, Head Nurse, one month	65.00	
Sophia Potgieter, Head Nurse	900.00	
Maja Sabelstrom, Head Nurse, 10½ months	735.00	
Jean Harrison, Masseuse	720.00	
Fay Wilcox, Dietitian	600.00	
Anna Gordon, Matron	900.00	
Juanita Huff, Assistant Matron	600.00	
Miss Osborne, Stenographer	510.00	
Margaret Daley, Clerk	360.00	
Ethel Rosenberger, Clerk	420.00	
Mary Ingham, Housekeeper	557.34	
Constance Miller, Assistant Housekeeper	280.00	
Alma Nieman, Assistant Housekeeper	70.01	
Clara Jersey, Matron, Nurses' Home	480.00	
Reka Saas, Clerk, 4½ months	202.50	
Dr. Bundy Allen, Radiographer	2,000.00	
Dr. L. W. Harding, Anaesthetist	1,500.00	
Dr. C. G. Field, Interne	125.00	
Dr. Roy Gittins, Interne	125.00	
Dr. H. L. Van Meter, Interne	125.00	
Dr. H. L. Van Lockum, Interne	125.00	
Dr. F. A. Stevens, Interne,	125.00	
Dr. J. H. Henkin, Interne, 6 months	62.50	
P. G. Mott, Mechanician, 8½ months	850.00	
Gertrude Franzen, Assistant, 5 months	200.00	
There are about eighty nurses who receive $5.00 a month each	4,796.23	
		$24,763.54
Help		11,930.58

There was a cook employed at $55.00 a month; two second cooks at $35.00 a month each; a janitor at $60.00 a month, an elevator man at $55.00 a month; an elevator man at $45.00 a month; 10 women to do cleaning, at $35.00 a month, and about 22 house maids at from $16 to $18 a month each.

Provisions	37,379.96
Of the above amount $26,973.46 was furnished from the University store house.	
Household	16,089.40
This account covers house furnishings, house supplies, linen, dishes, bedding, etc. Of this amount $1,600.30 was house supplies furnished from the University store house.	
Medicine	6,465.63
This account covers medical and surgical supplies, drugs and medicines.	
X-Ray Supplies	1,602.15
This account covers supplies for the X-Ray Department.	
Orthopedic Supplies	412.40
This account covers supplies used in making casts and braces in the Department of Orthopedic Surgery.	
Total expenditures 1915-16	$ 98,643.66
Balance cash on hand to the credit of University Hospital account on June 30, 1916	2,070.68
Total	$100,714.34

UNIVERSITY HOMEOPATHIC HOSPITAL ACCOUNT.

RECEIPTS.

Hospital Earnings	$ 8,510.56	
Nurses' earnings, outside of hospital	907.10	
Operating Room Fees	1,325.75	
Total Receipts		$ 10,743.41
Balance overdrawn on University Homeopathic Hospital account, June 30, 1916		1,432.40
		$12,175.81

EXPENDITURES.

Salaries	$ 2,372.50
The Superintendent received $75.00 a month, the Assistant Superintendent received $60.00 a month. There were about 14 nurses who received $5.00 a month each.	
Help	1,562.95
A cook was employed at $35.00 a month, a housekeeper at $35.00 a month, and a matron at the nurses' home at $30.00 a month.	
Provisions	5,777.48
Of the above amount $4,594.08 was furnished from the University store house.	
Household	1,898.84
This account covers house furnishings, house supplies, linen, dishes, bedding, etc. Of this amount $404.61 was house supplies furnished from the University store house.	
Medicine	564.04
This account covers medical and surgical supplies, drugs and medicines.	
Total expenditures, 1915-16	$12,175.81

CURRIER HALL ACCOUNT.

Balance from Educational Support Fund in Currier Hall Account, July 1, 1915	$ 9,310.55

RECEIPTS.

From Room Rents	$ 14,662.37	
From Board	26,586.63	
Total Receipts		41,249.00
Total		$ 50,559.55

EXPENDITURES.

	House	Dining Room	Permanent Improvement
Salaries and Help	$ 4,292.77	$ 3,853.51	.....
Electric Light	611.53	304.92	.....
Electric Power	373.00	373.00	.....
Laundry	50.00	375.92	.....
Water	207.10	100.00	.....
Linen	224.60	155.95	.....
Telephone	109.88	.....	.....
Ice	40.00	35.00	.....
Janitor Supplies	578.96	.....	.....
Furniture	331.42	.....	$ 31.59
Drinking Water	50.00	50.00	.....
Gas	50.00	304.20	.....
Heating	1,800.00	200.00	.....
Provisions	.....	11,801.88	.....
Milk and cream	.....	1,699.03	.....
Meats	.....	4,209.92	.....
Fuel	.....	74.73	.....
Dishes	.....	236.02	.....
Silver	.....	51.88	.....
Kitchen Equipment	.....	112.94	.....
Auto Truck	.....	50.00	.....
Tennis Courts	.....	.....	18.00
Painting	.....	.....	34.38
Grounds	.....	.....	187.07
Plumbing	.....	.....	397.76
Elevator	.....	.....	47.70
Heating Plant	.....	.....	47.36
Building Equipment	.....	.....	27.25
Miscellaneous expense	63.45	6.53	.....
Building	.....	.....	1,170.95
Total Expenditure	$ 8,782.71	$23,995.43	$ 1,962.06
Total Expenditure—Currier Hall			$ 34,740.20
Total balance on hand in Educational Support Fund to the credit of Currier Hall Account			15,819.35
			$50,559.55

In the salary account above a Director was paid $1,200.00 a year and an assistant $900.00 a year.

Supplies to the amount of $16,460.14 were furnished Currier Hall from the University Storehouse. This amount is included in the charges above.

STORE HOUSE ACCOUNT, 1915-16.

CHARGES TO VARIOUS DEPARTMENTS FOR THE YEAR 1915-16.

College of Applied Science, Etc., Fund:		
Department of Anatomy	$ 78.42	
Department of Animal Biology	12.46	
Department of Botany	7.55	
Department of Chemistry	35.07	
Department of Geology	15.38	
Department of Home Economics	249.24	
Department of Military Science	3.00	
Department of Mathematics	.45	
Department of Pathology & Bacteriology	68.37	
Department of Physiology	10.64	
Department of Materia Medica	20.30	
Department of Psychology	3.60	
Department of Physical Education, Men	8.53	
Department of Physical Education, Women	69.00	
Department of Political Economy and Sociology	2.87	
Department of Theory & Practice of Medicine	25.41	
Department of Zoology	15.24	
Department of Law, Incidentals	1.50	
		$ 627.03

Educational Support Fund:

Currier Hall House		578.96	
Currier Hall Provisions		15,881.18	
			16,460.14
University Hospital House	$ 1,600.30		
University Hospital Provisions	26,973.46		
University Hospital X-Ray	8.94		
		28,582.70	
Homeopathic Hospital House	404.61		
Homeopathic Hospital Provisions	4,594.08		
		4,998.69	
University Library		2.28	
Calendars & Announcements		1.20	
Auto Truck		12.07	
Incidentals		5.18	
			33,602.12

Buildings and Grounds Fund:

Janitors' Supplies	2,499.90	
Laundry Supplies	1,813.14	
Hydro Electric Plant Supplies	301.00	
Heating Plant Supplies	367.15	
		4,981.19

Equipment and Supplies Fund:

Department of Civil Engineering	7.30	
Department of Electrical Engineering	14.99	
Department of Mechanical Engineering	53.39	
Department of Physics	34.12	
College of Pharmacy	148.19	
		257.99
Administration Fund, University Editor		1.25
College of Dentistry Fund		232.08
Summer Session Fund		9.15
Repair and Contingent Fund		4,413.62
Building Fund		1,781.52
Equipment New Building Fund		26.55
Paving and Sidewalks Fund		169.21
Tunnel to New Buildings Fund		275.56
Enlarged Heating Plant Fund		38.98
College of Education Fund		5.02
Domestic Science Equipment Fund		28.99
Special Land Fund		74.76
Donated Land Fund		182.10
Mark Ranney Memorial Interest Fund (Fine Arts)		10.89
Epidemiology Laboratory Fund		5.03
Library Fund		4.41
University Extension Fund		4.70
Total charges to Departments		$ 63,192.29
Received cash for sale of old material and scrap		60.46
		63,252.75
Balance overdrawn June 30, 1916		4,043.72
Expenditures		$ 67,296.47
Expended for salaries, expense of auto trucks and for purchases		$ 61,700.27
Balance overdrawn July 1, 1915		5,596.20
		$ 67,296.47

This balance is covered by stock on hand. (See Inventory):

Groceries	$ 3,790.48
Building Supplies	8,045.49
Fixtures	502.79
	$ 12,338.76

LAW LOAN BOOK ACCOUNT.

Balance in Educational Support Fund to the credit of Law Loan Book Account, July 1, 1915	$ 541.81	
RECEIPTS.		
From rent of law books	316.25	
EXPENDITURES.		
For new books and rebinding old loan sets		$ 163.80
Balance in Educational Support Fund to the credit of Law Loan Book Account, June 30, 1916		694.26
	$ 858.06	$ 858.06

ENGINEERING TESTING LABORATORY ACCOUNT.

Balance in Educational Support Fund to the credit of Engineering Testing Laboratory Account, July 1, 1915	$ 55.17	
RECEIPTS.		
From fees and charges	84.17	
EXPENDITURES.		
Expended for material		$ 5.00
Balance cash on hand in Educational Support Fund to the credit of Engineering Testing Laboratory Account on June 30, 1916		134.34
	$ 139.34	$ 139.34

SCHOOL OF MUSIC TUITIONS.

This amount was collected for tuitions in the School of Music and was paid to the instructors.

RECEIPTS.		
School of Music Tuitions	$ 7,831.95	
EXPENDITURES.		
W. E. Hayes, Director		$ 1,937.00
Esther M. Swisher		1,506.00
Anna D. Starbuck		1,091.00
Agnes Flannagan		1,230.62
Myrtle O. Wood		636.95
Bertha A. Cooper		703.38
Helen Katz		700.50
O. E. VanDoren		26.50
	$ 7,831.95	$ 7,831.95

COLLEGE OF APPLIED SCIENCE, ETC., FUND.

RECEIPTS.

From State appropriations: 36th G. A.—S. F. 288, Sec. 1.	$ 62,654.15	
From sale of material	176.67	
From cancelled warrants	184.08	
Total Receipts	$ 63,014.90	
Transfer from Educational Support Fund	344,235.00	
		$407,249.90

EXPENDITURES.

College of Liberal Arts:

Salaries	$214,212.90	
Departmental Expenses	15,198.39	
		$229,411.29

College of Applied Science:		
Salaries		40,733.33
College of Law:		
Salaries	$ 22,850.00	
Supplies and Incidentals	801.99	
		23,651.99
College of Medicine:		
Salaries	$ 74,492.43	
Supplies, apparatus, etc.	11,980.01	
		86,472.44
College of Homeopathic Medicine:		
Salaries	$ 5,300.00	
Supplies, apparatus, etc.	83.37	
		5,383.37
College of Pharmacy:		
Salaries	$ 7,160.00	
Supplies, etc.	184.80	
		7,344.80
Total expenditures, 1915-16		$392,997.22
Balance cash on hand, June 30, 1916		14,252.68
		$407,249.90

ITEMIZED EXPENDITURES—COLLEGE OF LIBERAL ARTS.

Botany:		
Bohumil Shimek, Professor	$ 3,000.00	
R. B. Wylie, Professor	2,500.00	
Guy W. Wilson, Assistant Professor	1,600.00	
Lucy Cavanagh, Instructor	900.00	
John E. Cameron, Instructor	300.00	
Davis H. Boot, Assistant	910.00	
Walter E. Rogers, Assistant	900.00	
Supplies, etc.		$ 869.20
Chemistry:		
E. W. Rockwood, Professor	3,000.00	
W. J. Karslake, Associate Professor	2,000.00	
J. N. Pearce, Assistant Professor	1,800.00	
A. W. Hixson, Assistant Professor	1,800.00	
E. Wolesensky, Instructor	1,200.00	
R. B. Davis, Instructor	1,000.00	
H. L. Dunlap, Instructor	1,000.00	
S. D. Marquis, Instructor	1,000.00	
A. E. Jennings, Instructor	1,000.00	
Karl Kullman, Assistant	900.00	
H. E. Hands, Assistant	600.00	
H. E. Fowler, Assistant	500.00	
F. S. Mortimore, Assistant	300.00	
Wm. J. Husa, Assistant	100.00	
P. K. Huston, Storekeeper, 12 mo.	700.00	
Supplies, etc.		5,421.35
Assistance by the hour		17.00
English:		
C. F. Ansley, Professor	3,500.00	
S. B. Sloan, Asst. Professor	1,900.00	
Percival Hunt, Asst. Professor	1,900.00	
E. F. Piper, Asst. Professor	1,900.00	
M. A. Shaw, Asst. Professor	1,900.00	
E. N. S. Thompson, Asst. Professor	1,900.00	
W. L. Myers, Asst. Professor	1,500.00	
J. H. Scott, Asst. Professor	1,900.00	
Henning Larsen, Asst. Professor	1,900.00	

Conger Reynolds, Asst. Professor	1,900.00	
May Shuck, Instructor	1,400.00	
Ellen Geyer, (part time) Instructor	300.00	
Florence Joy, Instructor	1,200.00	
Beryl Hart, Instructor	1,000.00	
Mary Chawner, Instructor	1,200.00	
Nellie Aurner, Instructor	1,200.00	
Gwendolyn McClain, Secretary	600.00	
Supplies, etc.		20.98
Theme Readers		2,200.00
Geology:		
George F. Kay, Professor	2,600.00	
A. C. Trowbridge, Professor	2,100.00	
J. H. Hance, Asst. Professor	1,500.00	
Clair W. Robinson, Instructor	1,000.00	
W. H. Schoewe, Assistant	500.00	
J. V. Howell, Assistant	500.00	
J. W. Carville, Attendant	600.00	
Supplies, etc.		512.85
German:		
C. B. Wilson, Professor	3,000.00	
F. B. Sturm, Asst. Professor	1,650.00	
W. F. Luebke, Asst. Professor	1,650.00	
G. C. Wise, Asst. Professor	1,650.00	
F. W. Kracher, Asst. Professor	1,500.00	
H. E. Zabel, Instructor	1,200.00	
E. A. Hellmann, Instructor	1,200.00	
August Krehbiel, Instructor	1,200.00	
C. H. Ibershoff, (part time) Instructor	300.00	
Supplies, etc.		67.45
Assistance by the hour		81.25
Greek and Archaeology:		
C. H. Weller, Professor and University Editor	3,000.00	
N. A. Kellogg, (part time) Instructor	400.00	
Gertrude Benson, Stenographer	400.00	
Supplies, etc.		57.07
History:		
W. C. Wilcox, Professor and Dean	4,000.00	
H. G. Plum, Professor	2,100.00	
Gilbert G. Benjamin, Professor	3,000.00	
Louis Pelzer, Asst. Professor	2,000.00	
Clara M. Daley, Instructor	1,400.00	
Clifford H. Moore, Instructor (part time)	300.00	
Bertha Reuter, Assistant	400.00	
Ada Barker, Assistant	500.00	
Majorie Pickering, Assistant	200.00	
Joanna Kyle, Assistant	300.00	
Supplies and equipment		96.70
Home Economics:		
Ruth A. Wardall, Professor	3,000.00	
Helen Donovan, Asst. Professor	2,500.00	
Margaret Wing, Instructor	1,200.00	
Ruth Guenther, Assistant	900.00	
Katharine Rutledge, Instructor	1,300.00	
Margaret Sawyer, Instructor	1,200.00	
Mrs. W. H. Wagner, Stenographer (part time)	200.00	
Mrs. Parrot, 1 mo. Attendant	30.00	
Supplies, etc.		1,122.75
Latin:		
F. C. Eastman, Professor	3,000.00	
F. H. Potter, Professor	2,100.00	
F. M. Foster, Asst. Professor	1,500.00	
Supplies, etc.		51.83
Mathematics:		
A. G. Smith, Professor	3,000.00	
R. P. Baker, Asst. Professor	1,800.00	

J. F. Reilly, Asst. Professor	1,800.00	
Sarah E. Cronin, Asst. Professor	1,500.00	
C. Gowens, Instructor	1,200.00	
O. H. Truman, Instructor	1,100.00	
C. W. Wester, Instructor	1,200.00	
W. E. Beck, Instructor (part time)	300.00	
Peter Luteyn, Assistant	250.00	
Supplies, etc.		72.49

Military Science and Tactics:

R. T. Phinney, Professor and Commandant	500.00	
W. De F. Rahming, Assistant	500.00	
O. E. Van Doren, Bandmaster	800.00	
Band Members	475.00	
Supplies, equipment, etc.		376.56

Philosophy and Psychology:

C. E. Seashore, Professor and Dean	3,500.00	
G. T. W. Patrick, Professor	2,600.00	
E. D. Starbuck, Professor	2,400.00	
E. E. Faris, Assoc. Professor	2,500.00	
Mabel C. Williams, Asst. Professor	1,500.00	
R. H. Sylvester, Asst. Professor	1,600.00	
M. H. Teeuwen, Mechanician	450.00	
Supplies, etc.		287.13

Physical Education and Athletics—Men:

N. A. Kellogg, Director	1,600.00	
E. G. Schroeder, Director Men's Gymnasium	1,500.00	
M. A. Kent, Assistant	100.00	
J. P. Watson, Assistant	100.00	
Frank L. Wheeler, Asst. Aquatics	750.00	
J. M. Stadt, Assistant	150.00	
Assistance by the hour		180.00
Supplies, etc.		585.47

Physical Education and Athletics—Women:

Alice W. Bates, Director	1,500.00	
Alice E. Wilmarth, Assistant	900.00	
Carrie A. Hupp, Assistant	700.00	
Bessie Engel, 6 mo. Assistant	360.00	
Marion Lyon, 6 mo. Assistant	360.00	
Margaret Reece, Matron (part time)	172.00	
Mrs. Ethel Krotz, 5 mo. Matron	200.00	
Anna Freyder, (part time) Asst. Matron	112.00	
Julia Weise, (part time) Asst. Matron	4.50	
Ralph Hill, 4½ mo. Life Guard	112.50	
Supplies, etc.		212.81
Pianist, Women's Gymnasium		235.79

Physics:

G. W. Stewart, Professor	3,000.00	
L. P. Sieg, Asst. Professor	1,900.00	
F. C. Brown, Asst. Professor	1,900.00	
H. L. Dodge, Asst. Professor	1,400.00	
L. E. Dodd, Assistant	600.00	
Elmer Dershem, Assistant	600.00	
W. E. Tisdale, Assistant	600.00	
John S. Ward, Assistant	600.00	
M. H. Teeuwen, Mechanician	900.00	
Andrew M. McMahon, Undergraduate Asst.	75.00	
W. G. Prottsman, Undergraduate Asst.	75.00	
Orville Stokes, Undergraduate Asst.	75.00	
Harold Newcomb, Shop Asst.	29.40	
Geo. J. Keller, Shop Asst.	2.50	
Stenographic Service		90.69
Shop Assistance		221.60

Political Economy and Sociology:

Norris A. Brisco, Professor	3,500.00	
I. A. Loos, (part time) Professor	1,500.00	
Paul S. Peirce, Professor	2,600.00	
Eliot Jones, Assoc. Professor	2,600.00	

C. W. Wassam, Asst. Professor	1,800.00	
Lorin Stuckey, Asst. Professor	1,800.00	
R. A. Stevenson, Instructor	1,300.00	
Bessie McClenahan (part time) Instructor	100.00	
C. F. Kurtz, (part time) Instructor	300.00	
F. E. Haynes, Instructor	1,000.00	
H. H. Preston, Instructor	1,000.00	
R. L. Masson, Assistant	500.00	
Supplies, etc.		228.34
Assistance by the hour		301.65

Political Science:

B. F. Shambaugh, Professor	2,600.00	
F. E. Horack, Professor	2,500.00	
Jacob Van der Zee, Asst. Professor	1,700.00	
Sudhindra Bose, Assistant	500.00	
O. K. Patton, Assistant	500.00	
Assistance by the hour		141.70

Public Speaking:

G. N. Merry, Asst. Professor	1,800.00	
Ray Short, Assistant	500.00	
Leonard Racker, Assistant	500.00	
Supplies and assistance		249.74
Forensic League		243.12

Romance Languages:

S. H. Bush, Professor	3,000.00	
Hertha L. Voss, Asst. Professor	1,500.00	
J. A. Wernli, Instructor	1,300.00	
John Van Horne, Instructor	1,300.00	
F. W. Snow, Instructor	1,200.00	
Martha Gurd (8 months), Instructor	800.00	
Supplies, etc.		43.10

Zoology:

C. C. Nutting, Professor	3,000.00	
G. L. Houser, Professor	2,300.00	
H. F. Wickham, Professor	2,100.00	
H. R. Dill, (12 mo.) Asst. Professor	2,000.00	
F. A. Stromsten, Asst. Professor	1,600.00	
D. M. Brumfiel, Instructor	1,100.00	
Dayton Stoner, Instructor	1,200.00	
R. W. Henderson, Assistant	500.00	
Ruth Cotton, Assistant	500.00	
L. L. Buchanan, Undergraduate Assistant	100.00	
Russell G. Weber, Undergraduate Assistant	100.00	
Ralph C. Kahle, Undergraduate Assistant	50.00	
Oliver J. Irish, Undergraduate Assistant	50.00	
Lloyd E. Lacey, Undergraduate Assistant	50.00	
Nevin B. Anderson, Undergraduate Assistant	50.00	
Verne C. Graber, Storekeeper	50.00	
Arnold Smythe, Mimeographer	50.00	
Muriel Eggenberg, Assistant	200.00	
Supplies, etc. for Zoology		296.41
Supplies, etc. for Animal Biology		501.55
Supplies for Museum and Assistants		411.81
O. E. Turpin, 1 mo. Stenographer to Dean	60.00	
Ruth Magowan, 10 mo. Stenographer to Dean	750.00	
Helen C. Gilchrist, 2 mo. Stenographer to Dean	160.00	
Total salaries—College of Liberal Arts	$214,212.90	
Total Supplies, etc.—College of Liberal Arts		15,198.39
Total—College of Liberal Arts		$229,411.29

ITEMIZED EXPENDITURES—COLLEGE OF APPLIED SCIENCE.

Civil Engineering:

Wm. G. Raymond, Professor and Dean	$ 5,000.00	
J. H. Dunlap, Asst. Professor	2,200.00	
R. B. Kittredge, Asst. Professor	2,000.00	
A. H. Holt, Instructor	1,000.00	

Drawing and Descriptive Geometry:		
F. G. Higbee, Professor	2,500.00	
T. G. Caywood, Instructor	1,000.00	
W. W. Furr, Instructor	800.00	
F. Paul Schoewe, Instructor	900.00	
Electrical Engineering:		
A. H. Ford, Professor	3,000.00	
J. B. Hill, Asst. Professor	2,400.00	
Arch L. Long, Assistant	133.33	
Mechanical Engineering:		
B. P. Fleming, Professor	3,000.00	
R. S. Wilbur, Asst. Professor	1,600.00	
Geo. J. Keller, Instructor and Superintendent	1,500.00	
A. V. O'Brien, Instructor	1,200.00	
J. W. Bray, Instructor	1,000.00	
P. Chenoweth, Mechanician	300.00	
Mechanics and Hydraulics:		
S. M. Woodward, Professor	1,200.00	
D. P. Gilmore, Asst. Professor	1,600.00	
R. E. Hutchins, Asst. Professor	1,700.00	
M. A. Repass, Instructor	1,000.00	
Stuart Sims, Asst. Professor	1,800.00	
Structural Engineering:		
B. J. Lambert, Professor	3,000.00	
Bess Martin, Clerk to the Dean	900.00	
Total salaries College of Applied Science		$ 40,733.33

ITEMIZED EXPENDITURES, COLLEGE OF LAW.

E. A. Wilcox, Professor and Acting Dean	$ 3,500.00	
H. C. Horack, Professor	3,500.00	
Percy Bordwell, Professor	3,500.00	
Ralph Otto, Professor	3,500.00	
R. L. Henry, Professor	3,000.00	
M. L. Ferson, Professor	3,000.00	
H. F. Goodrich, Asst. Professor	2,000.00	
Carroll B. Martin, 12 mo. Stenographer	500.00	
O. H. Albee, Asst. Librarian	250.00	
Eugene T. Burke, Desk Assistant	50.00	
Bruce S. Goss, Desk Assistant	50.00	
Supplies and Incidentals		167.14
Assistants, Quiz Masters etc.		295.50
Law Bulletins		339.35
Total salaries—College of Law	$ 22,850.00	
Total supplies and assistance, College of Law		801.99
Total		$ 23,651.99

ITEMIZED EXPENDITURES, COLLEGE OF MEDICINE.

Anatomy, Histology and Embryology:		
H. J. Prentiss, Professor and Director	$ 5,000.00	
J. J. Lambert, Asst. Professor	2,200.00	
E. M. McEwen, Asst. Professor	2,200.00	
E. E. Hobby, Assistant	600.00	
F. J. Rohner, Assistant	156.00	
I. N. Leighton, Instructor	1,152.00	
Alex Storey, Attendant	885.66	
Clarence Doolittle, Attendant	74.33	
Clarence Fitzgerald, Assistant	430.00	
Supplies and equipment		1,253.10
Dissecting Material		3,297.31
Dermatology:		
J. B. Kessler, Professor	400.00	
J. C. Kessler, Assistant	200.00	

Gynecology and Obstetrics:		
W. R. Whiteis, Professor	3,000.00	
J. R. Guthrie, Professor	500.00	
Paul A. Reed, Asst. Professor	1,500.00	
D. H. Osborn, Instructor	1,000.00	
Supplies, etc.		100.02
Obstetrics Clinic		598.90
Materia Medica:		
C. S. Chase, Professor	2,400.00	
B. H. Schlomovitz, Demonstrator	1,500.00	
Wm. A. Moerschel, Undergraduate Asst.	38.50	
Ralph E. Gray, Undergraduate Asst.	6.25	
Supplies		472.33
Ophthalmolgy, Otology, Etc.:		
L. W. Dean, Professor and Dean	3,500.00	
W. F. Boller, Asst. Professor	1,000.00	
Mary K. Heard, Asst. Professor	1,200.00	
Geo. C. Albright, Instructor	1,200.00	
Sumner B. Chase, Clinical Assistant	500.00	
Maud Elliott, Secretary to Dean	960.00	
Supplies, etc.		2,584.76
Pathology and Bacteriology:		
Henry Albert, Professor	4,000.00	
A. L. Grover, Asst. Professor	2,100.00	
C. E. Royce, (12 mo.) Hospital Pathologist	2,000.00	
Verplanck Bennett, Asst. Instructor	800.00	
George Herring, (12 mo.) Attendant	480.00	
C. L. Bartlett, Assistant	700.00	
Minnie Hamilton, (12 mo.) Stenographer	180.00	
Johannes Anderson, (12 mo.) Technic	900.00	
Leonard Kloos, Storekeeper	600.00	
Supplies and equipment		938.89
Pediatrics:		
A. H. Beifeld, Professor	2,500.00	
W. B. McClure, 10 mo. Assistant	750.00	
Supplies, etc.		191.70
Physiology:		
J. T. McClintock, Professor	3,500.00	
Benjamin Kramer, Asst. Professor	1,600.00	
H. W. Coffin, Instructor	1,500.00	
Roy J. Solnar, 10 mo. Laboratory Assistant	500.00	
Supplies, etc.		831.94
Assistance by the hour		82.67
Surgery:		
C. J. Rowan, Professor	3,500.00	
A. Steindler, Professor	2,500.00	
H. L. Beye, Instructor	2,000.00	
N. G. Alcock, Instructor	1,200.00	
Supplies and equipment		444.19
Theory and Practice:		
C. P. Howard, Professor	1,875.00	
C. Van Epps, Asst. Professor	3,458.38	
Louis Baumann, Asst. Professor	2,500.00	
F. J. Rohner, Lecturer	1,583.31	
Frieda Hirschberg, Clin. Micro.	1,125.00	
Jacob Krupp, 12 mo. Attendant	600.00	
Arthur W. Erskine, X-Ray Asst.	88.00	
Supplies and equipment		1,026.17
Lecturers:		
Max E. Witte, Mental Diseases	200.00	
H. V. Scarborough, Tuberculosis	100.00	
Ralph M. Otto, Jurisprudence	50.00	
Medical Alumni Clinic		158.03
Total Salaries, College of Medicine	$ 74,492.43	
Total supplies and equipment, College of Medicine		$ 11,980.01
Total		$ 86,472.44

ITEMIZED EXPENDITURES—COLLEGE OF HOMEOPATHIC MEDICINE.

Materia Medica and Therapeutics:		
George Royal, Professor and Dean	$ 1,200.00	
Gynecology and Obstetrics:		
J. W. Cogswell, Professor	1,000.00	
Supplies, etc.		30.00
Ophthalmology and Otology:		
W. L. Bywater, Professor and Dean	850.00	
Supplies, etc.		43.77
Surgery:		
F. C. Titzell, Professor	1,000.00	
W. M. Rohrbacher, Assistant	100.00	
Supplies, etc.		1.75
Theory and Practice:		
Erwin Schenck, Professor	950.00	
T. L. Hazard, Lecturer	200.00	
Supplies, etc.		7.85
Total Salaries, College of Homeopathic Medicine	$ 5,300.00	
Total Supplies, College of Homeopathic Medicine		$ 83.37
Total		$ 5,383.37

ITEMIZED EXPENDITURES—COLLEGE OF PHARMACY.

W. J. Teeters, Professor and Dean	$ 3,000.00	
R. A. Kuever, 12 mo. Asst. Professor	1,900.00	
Zada M. Cooper, Asst. Professor	1,300.00	
H. M. Doden, 12 mo. Hospital Pharmacist	960.00	
Stenographic Assistance by the hour		$ 184.80
Total Salaries, College of Pharmacy	$ 7,160.00	
Total assistance, College of Pharmacy		$ 184.80
Total		$ 7,344.80

COLLEGE OF EDUCATION FUND.

RECEIPTS.

From State Appropriations:		
36th G. A.—S. F. 288—Sec. 1	$ 18,333.30	
Transfer from Educational Support Fund	16,100.00	
		$ 34,433.30

EXPENDITURES.

Education:		
W. A. Jesup, Professor and Dean	$ 5,000.00	
E. E. Lewis, Assoc. Professor	2,400.00	
Ernest Horn, Assoc. Professor	2,500.00	
Irving King, Asst. Professor	1,800.00	
R. M. Stewart, Asst. Professor	1,600.00	
C. R. Aurner, Lecturer	500.00	
Olive DeWolf (11¼ mos.) Stenographer	675.00	
Marcella Hotz, 12 mo. Secretary	1,080.00	
Evalene Babcock, 10 mo. Librarian	600.00	
Helen Zara, 4 mo. Stenographer	160.00	
Total salaries, College of Education		$ 16,315.00
Model School:		
Ellen Geyer, English	$ 700.00	
W. E. Beck, Mathematics	600.00	
R. C. Kelley, Manual Training	800.00	

C. H. Ibershoff, German	700.00	
C. H. Moore, History	600.00	
John E. Cameron, Science	700.00	
Abigail McRaith, Mathematics	80.00	
Harold Foster, Mathematics	80.00	
Luthera Egbert, Latin	80.00	
Antonia Stober, Latin	80.00	
Nell M. Buckner, History	80.00	
Jessie P. Hastings, Science	80.00	
Flora Waterbury, Science	80.00	
Ethel Golden, English	80.00	
Mary Sporleder, English	80.00	
Lucia Otto, German	80.00	
Total salaries, Model School		4,900.00
Superintendents Experimental School:		
Alice Camerer	$ 1,000.00	
Libbie George	975.00	
Mabel Green	950.00	
Total salaries, Experimental School	$ 2,925.00	
Supplies for Experimental School	1,074.65	
Total for Experimental School		3,999.65
Superintendent's Meeting		250.00
Travelling Expenses and Supplies		694.43
Incidentals and supplies		633.84
Total expenditures—College of Education		$ 26,792.92
Balance cash on hand, June 30, 1916		7,640.38
Total		$ 34,433.30

COLLEGE OF DENTISTRY FUND.

RECEIPTS.

From State Appropriations:		
36th G. A.—S. F. 288—Sec. 1	$ 21,747.90	
From cancelled warrants	9.00	
Total Receipts	$ 21,756.90	
Transfer from Educational Support Fund	32,810.00	
		$ 54,566.90

EXPENDITURES.

Operative Dentistry and Therapeutics:	
F. T. Breene, Professor and Dean	$ 4,500.00
M. C. Frazier, Clinic Demonstrator	1,700.00
Dental Pathology:	
R. H. Volland, Professor	2,000.00
H. J. Altfillisch, Instructor	2,200.00
E. S. Smith, Demonstrator	1,700.00
Erling Thoen, Asst. Demonstrator	1,000.00
Prosthetic Dentistry and Orthodontia:	
Richard Summa, Professor	4,000.00
F. B. Whinery, Asst. Professor	2,400.00
W. L. Schenck, Demonstrator	1,600.00
B. A. Weber, Demonstrator	1,600.00
Harley S. Wright, Demonstrator	1,600.00
H. L. Kalen, 9 mo. Demonstrator	1,260.00
Lester J. Allison, Asst. Demonstrator	1,000.00
Clinical Dentistry and Radiography:	
E. A. Rogers, Professor and Superintendent of Clinic	2,800.00
A. W. Bryan, Demonstrator	2,000.00
R. A. Fenton, Lecturer, Exodontia	2,000.00
Edw. E. Pangborn, Demonstrator	1,600.00

Administration:

Ella Bashnagel, Clerk	800.00	
Bess Sangster, Asst. Clerk	500.00	
Mary Otto, Clerk and Stenographer	800.00	
Emma C. Docken 8 1-3 mo. Head Nurse	625.00	
Ina Wilvert, Asst. Clerk	102.50	
Dues Dental Associations		179.80
Dental Clinics Supplies, etc.		9,884.16
Lectures		1,375.00
Equipment		2,498.64
Total Salaries—College of Dentistry	$ 37,787.50	
Total Supplies, etc., College of Dentistry		13,937.60
Total expenditures, 1915-16		$ 51,725.10
Balance cash on hand, June 30, 1916		2,841.80
Total		$ 54,566.90

COLLEGE OF FINE ARTS FUND.

RECEIPTS.

From State Appropriations:

36th G. A., S. F. 288, Sec. 1	$ 2,750.00	
Transfer form Educational Support Fund	4,500.00	
		$ 7,250.00

EXPENDITURES.

Department of Fine Arts:

Linn Culbertson, Instructor	$ 1,200.00	
Claude Patterson, Instructor	900.00	
Edna M. Patzig, Instructor	900.00	
Total Salaries, Department of Fine Arts		$ 3,000.00
Balance cash on hand, June 30, 1916		4,250.00
		$ 7,250.00

For balance of expenditures for Department of Fine Arts see Ranney Fund.

GRADUATE COLLEGE FUND.

RECEIPTS.

From State Appropriations:

36th G. A., S. F. 288, Sec. 1	$ 8,250.00	
From materials sold	16.97	
From cancelled warrants	15.00	
Total receipts, Graduate College Fund	$ 8,281.97	
Transfer from Educational Support Fund	7,250.00	
		$ 15,531.97

EXPENDITURES.

Junior Fellowships:

Eloise K. Brainerd, English	$ 300.00
Leo J. Brueckner, Education	300.00
Jesse W. Doolittle, Physics	300.00
Leon V. Fees, (1st Sem.) Geology	150.00
U. V. Hughes, (2d Sem.) Geology	120.00
John L. Horsfall, Zoology	300.00
Thesle T. Job, Zoology	300.00
Peter Luteyn, Mathematics	300.00
Harold H. Maynard, Economics	300.00
Lewis H. Mounts, Sociology	300.00
E. Leigh Mudge, Philosophy	300.00
Washburne D. Shipton, Geology	300.00
Philip J. Sodergren, Psychology	300.00
Merle R. Thompson, Political Economy	300.00
H. W. Anderson, (1st Sem.) Education	150.00

Scholarships:

Marie M. Agnew, Psychology	150.00
Edwin J. Basche, German	150.00
Myrna Boyce, History	150.00

Brian C. Condit, Chemistry	150.00
Arthur R. Fortsch, Physics	150.00
Esther A. Gaw, Psychology	150.00
Paul S. Helmich, Physics	150.00
Victor R. Hoersch, Physics	150.00
Thorsten T. Ingvaldsen, Internal Medicine	150.00
Iver N. Madsen, Education	150.00
Elizabeth Maxwell, Botany	150.00
Jacob Meyer, Education	150.00
Florence McGovern, (1st Sem.) English	75.00
Margaret Burns, (2d Sem.) English	60.00
Floyd McGranahan, Latin	150.00
Christine Biller, English	150.00
Leroy Patten, Geology	150.00
George F. Robeson, Political Science	150.00
Marguerite Rohret, Botany	150.00
Clementina Spencer, Zoology	150.00
Cyril B. Upham, Political Science	150.00
Ellen Augusta Price, English	15.00
Total scholarships and fellowships	$ 7,020.00

Research Assistants:

Eugene T. Berry, Physics	$ 400.00	
Gertrude Van Wagenen, Zoology	300.00	
John T. Frederickson, (1st Sem.) English	250.00	
Ival McPeak, (2d Sem.) English	150.00	
Carl J. Knock, Psychology	500.00	
Florence McGovern, (2d Sem.) Public Speaking	200.00	
Total Research Assistants		1,800.00
Equipment and Supplies, Graduate College		182.10
Stenographic Assistance, Graduate College		662.75
Travelling Expenses and Lectures, Graduate College		351.58
Minor Emergencies, Graduate College		417.25
Field Work, Graduate College		652.19
Learned Publications		580.08
Total Expenditures, Graduate College, 1915-16		$ 11,665.95
Balance cash on hand, June 30, 1916		3,866.02
		$ 15,531.97

SUMMER SESSION FUND.

RECEIPTS.

From State Appropriations:

36th G. A., S. F. 288, Sec. 1	$ 16,000.00	
Transfer from Educational Support Fund	10,000.00	
		$ 26,000.00

EXPENDITURES.

FIRST SUMMER SESSION.

Joel S. Coffey, Lecturer in Agriculture	$ 200.00
O. E. Ackerson, Lecturer in Agriculture	150.00
Maurice Kent, Instructor in Athletics	150.00
C. L. Bartlett, Instructor in Bacteriology	150.00
B. Shimek, Professor of Botany	350.00
G. W. Wilson, Assistant in Botany	200.00
Lucy Cavanagh, Assistant in Botany	75.00
E. W. Rockwood, Professor of Chemistry	350.00
R. B. Davis, Instructor in Chemistry	150.00
Frank Sangster, Instructor in Drawing	150.00
W. A. Jessup, Professor of Education	500.00
E. E. Lewis, Associate Professor in Education	250.00
Irving King, Assistant Professor in Education	200.00
R. M. Stewart, Assistant Professor in Education	200.00
E. J. Ashbaugh, Instructor in Education	150.00
M. V. O'Shea, Lecturer in Education	50.00
M. E. Haggerty, Lecturer in Education	120.00
C. H. Judd, Lecturer in Education	50.00
H. S. Curtis, Lecturer in Education	30.00
L. D. Coffman, Lecturer in Education	50.00

Belvia Cuzzort, Lecturer in Education	60.00	
Josephine Thomas, Assistant in Education	120.00	
J. W. Richardson, Assistant in Education	75.00	
H. W. Anderson, Assistant in Education	75.00	
C. F. Ansley, Professor in English	350.00	
P. Hunt, Assistant Professor in English	200.00	
Henning Larson, Assistant Professor in English	200.00	
May Shuck, Instructor in English	150.00	
Nellie S. Aurner, Instructor in English	150.00	
Edith Eastman, Assistant in English	75.00	
Carrie Stanley, Assistant in English	50.00	
Don Harrison, Assistant in English	50.00	
F. H. Calhoun, Lecturer in Geology	300.00	
A. C. Trowbridge, Professor in Geology	150.00	
W. D. Shipton, Assistant in Geology	75.00	
C. B. Wilson, Professor in German	350.00	
E. H. Lauer, Assistant Professor in German	200.00	
F. W. Kracher, Assistant Professor in German	200.00	
C. H. Weller, Professor of Greek	350.00	
W. C. Wilcox, Professor of History	500.00	
H. G. Plum, Professor of History	300.00	
Clara M. Daley, Instructor in History	150.00	
Ruth Guenther, Lecturer in Home Economics	100.00	
Mary Gleason, Lecturer in Home Economics	150.00	
Eleanor Holloway, Lecturer in Home Economics	150.00	
F. C. Eastman, Professor of Latin	350.00	
F. M. Foster, Assistant Professor of Latin	200.00	
R. C. Kelley, Instructor in Manual Training	150.00	
R. P. Baker, Assistant Professor of Mathematics	200.00	
J. F. Reilly, Assistant Professor of Mathematics	200.00	
E. W. Beck, Instructor of Mathematics	150.00	
D. H. Osborn, Instructor of Anatomy	150.00	
W. E. Hays, Professor of Music	350.00	
C. E. Seashore, Professor of Philosophy and Psychology	500.00	
S. G. Hefelbower, Lecturer in Philosophy and Psychology	300.00	
R. H. Sylvester, Assistant Professor of Philosophy and Psychology	200.00	
H. G. Campbell, Lecturer in Philosophy and Psychology	100.00	
C. J. Knock, Assistant in Philosophy and Psychology	75.00	
G. W. Stewart, Professor of Physics	300.00	
F. C. Brown, Assistant Professor of Physics	100.00	
O. H. Smith, Lecturer in Physics	120.00	
L. D. Weld, Lecturer in Physics	120.00	
L. E. Dodd, Assistant in Physics	75.00	
E. O. Dieterich, Assistant in Physics	75.00	
P. S. Pierce, Professor in Political Economy	300.00	
G. P. Wyckoff, Lecturer in Political Economy	200.00	
B. F. Shambaugh, Professor of Political Science	350.00	
F. E. Horack, Assistant Professor of Political Science	200.00	
Aleeth Willard, Instructor of Public Speaking	150.00	
S. H. Bush, Professor Romance Languages	350.00	
J. A. Wernli, Instructor of Romance Languages	150.00	
G. L. Houser, Professor of Zoology	300.00	
H. F. Wickham, Professor of Zoology	300.00	
R. C. Kahle, Assistant in Zoology	75.00	
Mary McGuire, Assistant in Zoology	75.00	
R. B. Kittredge, Assistant Professor of Engineering	200.00	
A. V. O'Brien, Instructor of Engineering	150.00	
S. H. Sims, Instructor of Engineering	150.00	
Library School:		
Harriet E. Howe, Director	300.00	
Alma Penrose, Instructor	200.00	
Grace Shellenberger, Instructor	75.00	
Alice Williams, Secretary	100.00	
Grace D. Rose, Lecturer	5.16	
Lillian B. Arnold, Lecturer	5.58	
Geo. B. Utley, Lecturer	13.55	
M. E. Ahern, Lecturer	27.71	
Harriet E. Howe, Lecturer	14.60	
M. G. Wyer, Lecturer	22.00	
Reba Davis, Lecturer	4.30	
Mary E. Marks, Lecturer	3.50	
Total Salaries, First Session, Summer School		$ 15,601.40

SECOND SESSION

O. E. Ackerson, Lecturer in Agriculture	100.00	
B. Shimek, Professor in Botany	234.00	
D. H. Boot, Assistant in Botany	50.00	
W. J. Karslake, Assistant Professor in Chemistry	134.00	
E. E. Lewis, Associate Professor of Education	167.00	
Irving King, Assistant Professor of Education	134.00	
R. M. Stewart, Assistant Professor of Education	134.00	
E. J. Ashbaugh, Instructor of Education	100.00	
H. W. Anderson, Librarian	50.00	
J. H. Scott, Assistant Professor of English	134.00	
W. L. Meyers, Instructor of English	100.00	
A. C. Trowbridge, Professor of Geology	125.00	
A. O. Thomas, Assistant Professor of Geology	134.00	
W. F. Luebke, Assistant Professor of Geology	134.00	
W. C. Wilcox, Professor of History	334.00	
Clara M. Daley, Instructor of History	125.00	
Bessie Edmundson, Lecturer of History	100.00	
F. H. Potter, Professor of Latin	200.00	
C. W. Wester, Instructor in Mathematics	100.00	
Frank Sangster, Instructor in Manual Training	100.00	
Mabel C. Williams, Assistant Professor of Philosophy and Psychology	134.00	
L. P. Sieg, Assistant Professor of Physics	134.00	
W. E. Tisdale, Assistant in Physics	50.00	
F. E. Haynes, Lecturer in Political Economy	150.00	
Jacob Van der Zee, Instructor in Political Science	100.00	
Aleeth Willard, Instructor in Public Speaking	100.00	
Bertha Sunier, Instructor in Romance Languages	100.00	
D. M. Brumfiel, Instructor in Zoology	100.00	
R. B. Kittredge, Assistant Professor of Engineering	134.00	
A. V. O'Brien, Instructor of Engineering	100.00	
S. H. Sims, Instructor of Engineering	100.00	
Total Salaries, Second Session, Summer School		3,891.00
Library Training School, Supplies, etc.		48.14
Printing, Advertising & Bulletins, Summer Session		1,812.56
Supplies, incidentals, etc., summer session		717.45
Total Expenditures, Summer Session		$ 22,070.55
Balance cash on hand, June 30, 1916		3,929.45
		$ 26,000.00

ADMINISTRATION FUND.

RECEIPTS.

From State Appropriations: 36th G. A., S. F. 288, Sec. 1	$ 5,706.25	
Transfer from Educational Support Fund	30,590.00	
		$ 36,296.25

EXPENDITURES.

President's Office:		
Thomas H. Macbride, President	7,500.00	
E. E. Norris, Secretary	1,400.00	
President's Office Supplies		123.35
Secretary's Office:		
W. H. Bates, Secretary	2,500.00	
S. E. Stover, Assistant	1,000.00	
H. J. Rowland, Assistant	1,000.00	
Elizabeth Kerstetter, Stenographer	900.00	
Secretary's Office Supplies, etc.		8.61
Secretary's Office Assistance		3.50
Registrar's Office:		
F. C. Ensign, 2 mo. Registrar	466.66	
H. C. Dorcas, 10 mo. Registrar	2,500.00	
Helen C. Gilchrist, 10 mo. Assistant Registrar	833.34	
May Hodgson, Recorder	720.00	
Lucy Gunsolley, Clerk	720.00	
Ann Rock, Assistant Clerk	600.00	
Rena Sporleder, Stenographer	660.00	
Assistance by the hour		614.05
Supplies and Equipment		247.90

Adviser of Men:		
R. E. Rienow, Adviser of Men	2,500.00	
Allen Sims, Stenographer	75.00	
Stenographic Assistance and Equipment		517.13
Dean of Women:		
Anna M. Klingenhagen, Dean of Women	2,500.00	
Edith Eastman, 10 mo. Secretary	600.00	
Supplies and Assistance		96.07
Medical Examiner for Women:		
Zella White Stewart	250.00	
University Editor:		
Assistance by the hour		121.10
Total salaries, Administration	$ 26,725.00	
Total supplies, etc., Administration		$ 1,731.71
Total expenditures, Administration		$ 28,456.71
Balance cash on hand, June 30, 1916		7,839.54
Total Administration		$ 36,296.25

BUILDING AND GROUNDS FUND.

RECEIPTS.

From State Appropriations: 36th G. A., S. F. 288, Sec. 1	$ 11,000.00	
From materials sold	478.11	
From cancelled Warrants	317.50	
	11,795.61	
Transfer from Educational Support Fund	89,805.16	
		$101,600.77

EXPENDITURES.

Salaries:		
J. M. Fisk, Superintendent Buildings and Grounds	3,000.00	
Ellsworth Bright, Head Janitor	1,020.00	
Frank P. Englert, University Carpenter	1,080.00	
George Hedges, University Engineer	1,260.00	
Charles Klingaman, University Plumber	1,265.00	
Helen Merritt, 1 mo. Stenographer	65.00	
Esther Villhauer, 11 mo. Stenographer	665.00	
Chas. Gallaher, Assistant to Superintendent	963.00	
		$ 9,318.00
Janitor Service		24,505.05
Janitors are paid from $55.00 to $65.00 per month. Student help, 15c per hour.		
Janitor Supplies		2,582.18
$2,499.90 of the above was furnished by the University Storehouse.		
Heating Plant Service		10,223.75
There are from eight to fifteen firemen varying according to the season of the year, who are paid from $55.00 to $65.00 a month.		
Heating Plant Supplies		1,071.99
Electric Plant Service		2,987.44
Two operators at the Hydro Plant are paid $70.00 per month each. Includes dynamo tenders and sub-station help.		
Electric Plant Supplies		414.59
Fuel		39,453.73
Consumption, 16,418 Tons.		

Gas & Electricity	698.38
Gas $1.00 a thousand, electricity 14c a K. W.	
Ice	288.46
Garbage Service	368.00
Water	1,967.75
Rate 6½c a thousand gallons.	
Drinking Water	39.25
Laundry Service	5,996.47
Telephones	1,306.91
Y. M. C. A. Rent	300.00
The University rents three halls for the use of the literary societies, paying $300 a year besides heating the building from the University Heating Plant.	
Superintendent's Equipment	76.66
Miscellaneous Expenses	2.16
Total expenditures, Buildings & Grounds Fund	$101,600.77

REPAIR & CONTINGENT FUND.

RECEIPTS.

Balance cash on hand, July 1, 1915		$ 2,728.09
From State Appropriations:		
32d G. A. Chap. 212, Sec. 2	$ 625.00	
33d G. A., Chap. 244, Sec. 1	625.00	
34th G. A., Chap. 200, Sec. 1	416.70	
35th G. A., Chap. 328, Sec. 1	833.35	
36th G. A., S. F. 288, Sec. 1	32,083.30	
Total from State Appropriations	$ 34,583.35	
From materials sold	947.56	
From warrants cancelled	44.74	
Total receipts Repair and Contingent Fund		35,575.65
Total		$ 38,303.74

EXPENDITURES.

General Repairs	4,992.54	
Plumbing Repairs	1,326.61	
Electric Repairs	2,391.33	
Heating Repairs	2,386.57	
Lighting Repairs	1,990.47	
Painting Repairs	2,772.87	
Boiler Repairs	2,297.61	
Building Repairs	5,246.98	
Roof Repairs	635.67	
Sewer Repairs	425.60	
Tunnel Repairs	825.48	
Screen Repairs	141.48	
Elevator Repairs	399.49	
Engine Repairs	478.91	
University Hospital Repairs	6,467.68	
University Hospital Repairs, X-Ray Department	89.49	
Wing Wall at University Dam	1,566.00	
Drayage	3.00	
Superintendence	27.69	
University Extension (Partition)	131.68	
Care of Athletic Field	544.02	
Care of Campus	344.41	
Care of Tennis Courts	358.70	
Homeopathic Hospital Repairs	1,848.25	
Engineering Cases	27.30	
Foot Ball Bleachers	529.89	
Total expenditures, Repair and Contingent Fund		38,249.72
Balance cash on hand, June 30, 1916		54.02
		$ 38,303.74

EQUIPMENT AND SUPPLIES FUND.

Balance cash on hand, July 1, 1915		$ 4,339.30
RECEIPTS.		
From State Appropriations:		
36th G. A., S. F. 288, Sec. 1	$ 11,458.30	
From materials sold	14.50	
Total receipts		11,472.80
		$ 15,812.10
EXPENDITURES.		
Applied Science Equipment:		
Civil Engineering	261.52	
Electrical Engineering	327.32	
Mechanical Engineering	1,198.53	
Mechanics	153.03	
Descriptive Geometry and Drawing	84.98	
	2,025.38	
Department of Physics	1,754.85	
College of Pharmacy	2,815.81	
University Hospital Equipment	2.04	
University Homeopathic Hospital Equipment	639.64	
Auto Truck Equipment	400.00	
Multigraph Equipment	519.36	
General Equipment	496.46	
Total expenditures, Equipment and Supplies Fund		$ 8,653.54
Balance cash on hand, June 30, 1916		7,158.56
		$ 15,812.10

LIBRARY FUND.

Balance cash on hand, July 1, 1915		$ 1,965.16
RECEIPTS.		
From State Appropriations:		
34th G. A. Chap. 200, Sec. 1	$ 1,458.35	
36th G. A., S. F. 288, Sec. 1	16,041.65	
Total from State Appropriations	17,500.00	
From sale of materials	3.19	
Total receipts, Library Fund		17,503.19
		$ 19,468.35
EXPENDITURES.		
General Library books and periodicals	14,821.59	
Law Library, books and binding	3,081.12	
Total expenditures, Library Fund		$ 17,902.71
Balance cash on hand, June 30, 1916		1,565.64
		$ 19,468.35

UNIVERSITY EXTENSION FUND.

Balance cash on hand, July 1, 1915		$ 4,425.07
RECEIPTS.		
From State Appropriations:		
35th G. A., Chap. 328, Sec. 1	1,250.00	
36th G. A., S. F. 288, Sec. 1	15,583.30	
Total State Appropriations	16,833.30	
From sale of materials	634.40	
From warrants cancelled	3.87	
Total receipts		17,471.57
		$ 21,896.64

EXPENDITURES.

Conferences	316.60	
Bulletins	1,036.62	
Printing	180.97	
Traveling Expenses	852.86	
Office Expense	91.98	
Office Help	213.26	
Office Equipment	490.87	
Freight and Express	85.52	
Salaries	9,159.08	
Library	210.78	
Lantern Slides	1,181.31	
Child Welfare	291.37	
Postage	318.00	
Material for tests (Courtis, Kelley, etc.)	516.47	
Lakeside Laboratory	800.00	
Summer Camp for Camp Fire Girls	274.05	
National University Extension Association Dues	25.00	
Correspondence Study	18.00	
Total Expenditures		16,062.74
Balance cash on hand, June 30, 1916		5,833.90
		$ 21,896.64

UNIVERSITY EPIDEMIOLOGY LABORATORY FUND.

Balance cash on hand, July 1, 1915		$ 402.29
RECEIPTS.		
From State Appropriations:		
35th G. A., Chap. 328, Sec. 1	$ 416.70	
36th G. A., S. F. 288, Sec. 1	4,583.30	5,000.00
		5,402.29
EXPENDITURES.		
Salaries:		
M. F. Boyd, 10 mo. Epidemiologist	2,083.34	
J. J. Hinman, Instructor	1,300.00	
Edna Stewart, 8 mo. Stenographer	280.00	
Isabelle Berg, 4 mo. Stenographer	140.00	
A. L. Grover, Assistant	129.15	
C. R. Eastland, Assistant	22.00	
Cecil Ewen, Assistant	67.90	
	4,022.39	
Printing	171.75	
Equipment	1,012.17	
Supplies	46.22	
Total expenditures, 1915-16		5,252.53
Balance cash on hand, June 30, 1916		149.76
		$ 5,402.29

BUILDING TAX FUND.

Balance cash on hand, July 1, 1915		$ 2,397.11
RECEIPTS.		
From State Appropriations:		
34th G. A., Chap. 183, Sec. 1	$ 34,470.78	
35th G. A., Sec. 1400 Q. Supplement to Code (1915)	92,500.00	
36th G. A., H. F. 248, Sec. 1	10,000.00	
Total from State appropriations	136,970.78	
From materials sold	10.79	
From warrants cancelled	589.05	
Total receipts 1915-16		137,570.62
		$139,967.73

EXPENDITURES.

Chemistry Building:		
Miscellaneous	$ 183.64	
Heating	175.25	
Plumbing	345.51	
Lighting	239.95	
Painting	527.83	
Elevator	876.39	
Building	7,567.19	
Total, Chemistry Building		$ 9,915.76
Nurses' Home:		
Contract, W. F. Kucharo & Co.	1,504.64	
Elevator	121.13	
Miscellaneous	6.73	
Total, Nurses' Home		1,632.50
Women's Gymnasium:		
Contract, Theo. Stark and Son	24,658.84	
Plumbing	2,541.25	
Heating	4,389.56	
Lighting	1,149.57	
Painting	766.10	
Elevator	22.85	
Tunnel	11.77	
Superintendence	9.62	
Miscellaneous	292.23	
Total, Women's Gymnasium		33,841.79
Men's Gymnasium:		
Contract, W. F. Kucharo & Co.	12,046.25	
Plumbing	1,534.04	
Heating	3,466.93	
Lighting	243.50	
Painting	254.30	
Tunnel	14.68	
Superintendence	99.21	
Miscellaneous	125.22	
Total, Men's Gymnasium		17,784.13
Dental Building:		
Contract, Chas. Franklin & Co.	45,804.05	
Plans, Proudfoot, Bird & Rawson	2,312.08	
Plumbing	3,988.07	
Heating	330.13	
Lighting	650.84	
Electric	18.96	
Superintendence	281.92	
Miscellaneous	208.66	
Total, Dental Building		53,594.71
Isolation Hospital		5,515.84
Armory, Miscellaneous		12,882.75
Total Expenditures, Building Tax Fund		$135,167.48
Balance cash on hand, June 30, 1916		4,800.25
		$139,967.73

BUILDING EQUIPMENT FUND.

Balance cash on hand, July 1, 1915		$ 2,030.49

RECEIPTS.

From State Appropriations:		
36th G. A., S. F. 242, Sec. 1		22,500.00
		$ 24,530.49

EXPENDITURES.

University Hospital, X-Ray Equipment	$ 2,183.24	
University Hospital, Orthopedic Surgery	1,311.22	
University Hospital, Extension	102.58	
University Hospital, Pediatrics	1,497.71	
University Hospital, Nurses' Home	104.90	
	5,199.65	
Law Library Equipment	80.00	
Department of Chemistry Equipment	62.02	
Department of Pathology & Bacteriology Equipment	3.66	
Department of Philosophy & Psychology	100.00	
Department of Mathematics	320.97	
Department of Zoology	59.15	
Law Building Equipment	203.15	
Medical Building Equipment	19.18	
College of Dentistry Equipment	1,171.29	
Women's Gymnasium Equipment	7,471.20	
Men's Gymnasium Equipment	6,363.48	
Total Equipment 1915-16		$ 21,053.65
Balance cash on hand, June 30, 1916		3,476.84
		$ 24,530.49

ELECTRICAL EQUIPMENT FUND.

RECEIPTS.

From State Appropriations:		
36th G. A., S. F. 242, Sec. 1		$ 5,000.00

EXPENDITURES.

Electric Plant Equipment:		
S. Morgan Smith Co.	$ 4,150.00	
Electric Machinery Co.	60.00	
Iowa City Iron Works	262.94	
C., R. I. & P. Ry. Co., Freight	81.95	
W. C Mott, Labor	123.25	
Miscellaneous Expenditures	20.20	
Total expenditures 1915-16		$ 4,698.34
Balance cash on hand, June 30, 1916		301.66
		$ 5,000.00

ENLARGED HEATING PLANT FUND.

RECEIPTS.

From State Appropriations:		
36th G. A., S. F. 242, Sec. 1		$ 18,000.00

EXPENDITURES.

Expended for labor and material for enlarging University heating plant		$ 8,685.47
Balance cash on hand, June 30, 1916		9,314.53
		$ 18,000.00

TUNNEL TO NEW BUILDINGS FUND.

RECEIPTS.

From State Appropriations:		
36th G. A., S. F. 242, Sec. 1	$ 6,000.00	
From sale of materials	19.54	
Total receipts		$ 6,019.54

EXPENDITURES.

Expended for labor and material in construction of tunnels to new buildings		$ 5,858.91
Balance cash on hand, June 30, 1916		160.63
		$ 6,019.54

PAVING AND SIDEWALKS FUND.

Balance cash on hand, July 1, 1915		$ 15.76
RECEIPTS.		
From State Appropriations:		
36th G. A., S. F. 242, Sec. 1	$ 3,000.00	
From materials sold	85.32	
Total receipts		$ 3,085.32
		$ 3,101.08
EXPENDITURES.		
Expended for labor and material used in construction of new walks and grading		$ 3,072.38
Balance cash on hand, June 30, 1916		28.70
		$ 3,101.08

SPECIAL LAND FUND.

Balance cash on hand, July 1, 1915		$ 840.49
RECEIPTS.		
From State Appropriations:		
36th G. A., S. F. 242, Sec. 1	$ 48,000.00	
From sale of old houses on property purchased	6,825.00	
From rents	1,925.37	
From insurance refunds	11.80	
Total receipts 1915-16		56,762.17
		$ 57,602.66
EXPENDITURES.		
Martha A. Marshall Estate. Lot 7, Block 85 and E½ Lot 6 Block 85	$ 18,000.00	
Sophia Critz. E. 50 ft. Lot 1, Block 60, Iowa City	5,750.00	
Sheriff of Johnson County, Iowa.		
Condemnation Proceedings:		
Estella Ball, Commencing at the N. E. corner of Lot 1 in Block 90, Iowa City, Iowa, thence west 120 feet, thence south 50 feet, thence east 130 feet, thence north 50 feet, thence west 10 feet to place of beginning	5,500.00	
Winifred Dutton, commencing at the N. W. corner of Lot 2, Block 90, in Iowa City, thence south 60 feet, thence east 30 feet, thence north 60 feet, thence west 30 feet to beginning	3,300.00	
Winifred Dutton in full settlement	500.00	
Mary L. and Alice Carr, all of Lot 3, Block 90, except the west 45 feet thereof, in Iowa City, Ia.	4,800.00	
Myrtle Bailey, the west half of the following tract: Beginning 50 ft. west of the N. W. corner of Lot 1, Block 60, Iowa City, Iowa, thence south 80 ft., thence west to a point 36 ft. east of the S. W. corner of said lot, thence north to the north line of said lot, thence east to the beginning	4,300.00	
Myrtle Bailey, in full settlement	400.00	
D. T. Davis, beginning 50 ft. south of the N. E. corner of Lot 1, Block 90, Iowa City, Ia., thence west 120 ft., thence south 47 ft., thence east 120 ft., thence north 47 ft., also beginning at a point on the east line of said Lot 1, 50 ft. south of the N. E. corner, thence east 10 ft., thence south 47 ft., thence west 10 ft., thence north 47 ft.; also the west ½ of Lot 2 in Block 90 in Iowa City, Iowa, except a strip of land 30 ft. east and west by 60 ft. north and south off the N. W. corner thereof, and except also the following: Beginning at a point 53 ft. north of the S. E. corner of the west ½ of Lot 2, thence south 53 ft., thence west 20 ft., thence north 35 feet, thence northeasterly to place of beginning	8,750.00	

D. T. Davis, District Court jury award	3,250.00	
Plaintiff's costs	660.00	
Sheriff of Johnson County, Expense Appraisers' Jury	151.39	
Ralph Otto, Witness Expenses	50.00	
Ralph Otto, Attorney Fees and Expenses	268.55	
S. A. Swisher, Insurance	223.20	
J. H. Brooke, Insurance	18.00	
N. W. Scales, Insurance	22.00	
Stevens Morrison Co., Insurance	28.50	
C. C. Huff, Recording Deeds	2.10	
Expenditure for labor and material in repairing property rented	1,093.08	
Total expenditures 1915-16		$ 57,066.82
Balance cash on hand, June 30, 1916		535.84
		$ 57,602.66

DONATED LAND FUND.

Balance cash on hand, July 1, 1915		$ 1,438.71
RECEIPTS.		
From rent of lands	$ 440.00	
From Board in Control of Athletics, Bleachers	747.63	
Total receipts 1915-16		$ 1,187.63
		$ 2,626.34
EXPENDITURES.		
Expended for labor and material for construction of bleachers on Athletic Field		$ 2,201.33
Balance cash on hand, June 30, 1916		425.01
		$ 2,626.34

ENGINEERING EQUIPMENT FUND.

Balance cash on hand, July 1, 1915		$ 1,649.71
EXPENDITURES.		
Civil Engineering Equipment	$ 436.56	
Electrical Engineering Equipment	67.84	
Mechanical Engineering Equipment	712.63	
General Engineering Equipment	147.00	
Total expenditures 1915-16		$ 1,364.03
Balance cash on hand June 30, 1916		285.68
		$ 1,649.71

DENTISTRY EQUIPMENT FUND.

Balance cash on hand, July 1, 1915		$ 337.06
EXPENDITURES.		
College of Dentistry Equipment		$ 337.06

DOMESTIC SCIENCE EQUIPMENT FUND.

Balance cash on hand, July 1, 1915		$ 3,767.50
EXPENDITURES.		
Department of Home Economics Equipment		$ 3,767.50

MARK RANNEY MEMORIAL FUND.

Balance cash on hand, July 1, 1915	$ 83,436.67	
Balance cash on hand, June 30, 1916		$ 83,436.67

MARK RANNEY MEMORIAL INTEREST FUND.

Balance cash on hand, July 1, 1915	$ 1,945.22	

RECEIPTS.

From interest on principal of $83,436.67 ..... $ 4,417.28

EXPENDITURES.

Department of Fine Arts:

Chas. A. Cumming, Professor		$ 1,800.04
Sophia B. Davis, Instructor		800.00
Mrs. Frances Vasku, Allowance		300.00
Hermoine Ellyson, Assistant		300.00
Ethel Gould, Care Ranney Library		95.20
Evalene Babcock, Care Ranney Library		12.00
Equipment, Department of Fine Arts		660.71
Supplies, Department of Fine Arts		48.12
Books, etc., Ranney Library		359.22
Books, etc., Ranney Library—Greek		57.25
Posing, Department of Fine Arts		20.00
Total expenditures 1915-16		$ 4,452.50
Balance cash on hand June 30, 1916		1,910.00
	$ 6,362.50	$ 6,362.50

A. WHITNEY CARR FREE SCHOLARSHIP FUND.

Balance cash on hand July 1, 1915	$ 50,000.00	
Balance cash on hand June 30, 1916		$ 50,000.00

A. WHITNEY CARR FREE SCHOLARSHIP INTEREST FUND.

Balance cash on hand, July 1, 1915 ..... $ 3,857.14

RECEIPTS.

Received interest on principal of $50,000.00	$ 2,496.99
From F. Wodrich, Jr., Loan $50.00 and interest	53.50

EXPENDITURES.

Scholarships as follows: Louis Waldeman, $15.00; O. E. Turpin, $5.00; Theresa Flaherty, $5.00; Harry K. Leedham, $5.00; Rudolph Jordan, $25.00; Jacob A. Swisher, $20.00; Gertrude G. Benson, $5.00; Michael S. Precker, $20.00; Dorothy Dondore, $25.00; Robt. M. Browning, $15.00; Amber E. Harris, $10.00; Alma F. Harris, $10.00; Sophia A. A. Cochran, $10.00 Mollie A. Meyers, $10.00; Robert Perry, $10.00 Clyde C. Carr, $10.00; Michall Cornwall, $10.00; George G. Holmes, $10.00; Ethel T. Perry, $10.00; Elvidge Taylor, $20.00; Melvin J. Muckey, $20.00; Harold Chamberlain, $20.00; C. A. Bowlsby, $10.00; Millard G. Homan, $20.00; A. A. Keene, $10.00; Donald S Magowan, $10.00; Paul N. Chenowith, $10.00; Leslie V. Mosher, $20.00; Harry Stinson, $10.00; Walter Kitson, $10.00; Victor Johnson, $20.00; I. Ruberstein, $10.00; Lottie Kensinger, $20.00; O. J. Irish, $20.00; Cecil W. Sward, $20.00; Grace M. Hain, $10.00; Irving Osmundson, $10.00; D. Richard Young, $20.00; Julia Bryand, $20.00; Oral A. Smith, $10.00; Mildred McGhee, $20.00; Arthur G. Gowin, $20.00; William R. Blohm, $10.00; Florence Linder, $10.00; Louis Porker, $20.00; Hanna Drexel, $20.00; Leah Parrott, $10.00; Anna R. Leeders, $20.00; Ada Maxson, $20.00; K. P. Crowthers, $20.00; Lloyd Daughty, $20.00; Rose Eddie, $10.00; Ida May Koontz, $10.00; James E. Hacke, $10.00; Fred H. Lohman, $10.00; Harold K. Farr, $10.00; Myrl C. Gilchrist, $20.00; Eva Whetstone, $10.00; Glen W. Scales, $10.00; Fred Bendixen, $20.00; Elsie Hayek, $20.00; Everett H. Colbert, $20.00; Geo. Heisterman, $20.00; Harold Barber, $20.00; John A. Roth, $10.00; Earl Culver, $20.00; Joseph A. Pollock, $20.00; Lyle S. Suter, $10.00; Wm. A. Wencel, $20.00; W. M. Prudhon, $10.00; Nellie Ogle, $20.00; Barbara Baum, $10.00; Eula McKinley, $20.00; Frank E. Siebern, $10.00; Ruth Jones, $20.00; G. G. Sward, $20.00; Geo. A. Atkinson, $20.00; M. B. Willey, $20.00; M. H. Meighhan, $20.00; F. H. Jennings, $10.00; E. P. Kehm, $10.00; Joyce H. Crowell, $10.00; Agnes E. Anderson, $25.00; Paul F. Bender, $10.00; Ella Ruth Thomson, $10.00; Ralph E. Browne, $10.00; Ida Kraushaar, $20.00; Leah Heiden, $20.00; Harold Merry, $20.00; John N. Hoegh, $10.00; E. P. McGrath, $20.00; Raymond Deppe, $20.00; Elma Marie Olson, $20.00; Hans Kuhlman, $20.00; Casper Nelson, $20.00; Coleman H. Cook, $10.00; Louis Ticktin, $20.00; Lee Tyler, $10.00; Lester F. Austin, $10.00; Ruby McBride, $20.00; Wm. Guy Prottsman, $20.00; Charles A. Bence, $20.00; Floyd S. Yetter, $20.00; George Fries, $20.00; Leyman E. Chase, $20.00; Thera C. Brown, $10.00; Eugenia Stribe, $10.00; Reuben O. Moen, $10.00; Francis J. Brown, $20.00; Earl G. Allen, $10.00; Harry M. Drummond, $10.00; Leora Belle Shephard, $20.00; F. G. Heil, $20.00; Holgar N. Hoegh, $10.00; Merle A. Hall, $10.00; Vernon Gould, $20.00; R. C. Kahle, $20.00; Atwell Talley, $10.00; H. W. Matson, $20.00; David M. Edgar, $10.00; Thos. A. Gardner, $20.00; Charlotte Stone, $10.00; Ina Belle Cook, $10.00; Carl H. Jones, non-resident, $30.00; Cecil E. Ewen, $20.00; Jay H. Dreibelbis, $10.00; Flavis Donaldson, $10.00; Harold P. Saxton, $20.00; Maurice C. Melrose, $10.00; Albert F. D. Schmidt, $10.00; F. H. Loftus, $10.00; E. C. Christoferson, $20.00; Mihoye Nobishara, $10.00; Norval E. Baker, $10.00; Edw. F. Benhart, $10.00; Otto H. Beyer, $10.00; Charlotte M. Davis, $10.00; George L. Dixon, $10.00; Clara Everson, $10.00; Otto Walter, $10.00; J. L. Benson, $10.00; W. Earl Hall, $10.00; R. L. Hammond, $10.00; Herman F. Johnson, non-resident, $20.00; F. M. Kolar, $10.00; Marco Lugo, $10.00; Vincent McNurlen, non-resident, $20.00; P. Royce McDonald, $20.00; Marguerite Brueckner, $10.00; Lee Roberts, $10.00; LuVerne Smith, $10.00; Harold V. Swanson, non-resident, $20.00; Murble G. Kline, $10.00; Clarence Updegraff, $5.00; Esther Christianson (loan) $25.00.

Total expenditures		$ 2,285.00
Balance cash on hand June 30, 1916		4,122.63
	$ 6,407.63	$ 6,407.63

WAITE LOWRY GIFFORD MEMORIAL FUND.

Balance cash on hand, July 1, 1915	$ 8,737.08	
Balance cash on hand, June 30, 1916		$ 8,737.08

WAITE LOWRY GIFFORD MEMORIAL INTEREST FUND.

Balance cash on hand, July 1, 1915	$ 593.60	
Received interest on principal $8,737.08	482.50	
Balance cash on hand, June 30, 1916		$ 1,076.10
	$ 1,076.10	$ 1,076.10

JOHN F. DILLON SCHOLARSHIP FUND.

Balance cash on hand, July 1, 1915	$ 9,525.00	
Balance cash on hand, June 30, 1916		$ 9,525.00

JOHN F. DILLON SCHOLARSHIP INTEREST FUND.

RECEIPTS.

Received interest on amount loaned	$ 42.17	
Balance cash on hand, June 30, 1916		$ 42.17

WM. J. BRYAN PRIZE FUND.

Balance cash on hand, July 1, 1915	$ 250.00	
Balance cash on hand, June 30, 1916		$ 250.00

WM. J. BRYAN PRIZE INTEREST FUND.

Balance cash on hand, July 1, 1915 ..... $ 38.66

RECEIPTS.

Received interest on principal $250.00	$ 12.50	

EXPENDITURES.

John M. Pfiffner, Best Essay on The Americas and War Prevention		$ 10.00
Balance cash on hand, June 30, 1916		41.16
	$ 51.16	$ 51.16

FRANK O. LOWDEN PRIZE ORATORY FUND.

25 shares of seven per cent preferred stock of the National Biscuit Co., on hand July 1, 1915 and June 30, 1916	$ 2,500.00	$ 2,500.00

FRANK O. LOWDEN PRIZE ORATORY INTEREST FUND.

Cash on hand, July 1, 1915	$ 393.75	

RECEIPTS.

Received seven per cent dividend on 25 shares of preferred stock, National Biscuit Co.	$ 175.00	

EXPENDITURES.

Northern Oratorical League prizes:		
Mabel Mason, Northwestern, First Prize		$ 100.00
R. H. Autoszewski, Illinois, Second Prize		50.00
Balance cash on hand, June 30, 1916		418.75
	$ 568.75	$ 568.75

CHAS. M. JESUP PRIZE FUND.

Cash on hand, July 1, 1915	$ 50.00	
Cash on hand, June 30, 1916		$ 50.00

FINANCES OF THE STATE UNIVERSITY OF IOWA

Report of the Treasuer as to Transactions in All Funds During the Biennium.

W. J. McCHESNEY, TREASURER.

FISCAL YEAR ENDING JUNE 30, 1915.

FUNDS	Balance July 1, 1914	Receipts	Warrants paid	Storehouse charges and credits	Total expenditures	Balance June 30, 1915
Income	$ 56,597.79	$ 661,922.90	$ 686,401.13	$ *4,215.15	$ 682,185.98	$ 36,334.70
Library	1,248.83	17,729.28	16,997.51	1.89	16,999.40	1,978.71
Repairs and Contingent	565.32	28,674.72	24,802.55	1,709.60	26,512.15	2,728.09
Building	10,956.60	175,015.00	181,488.69	2,045.04	183,534.73	2,436.87
Building Equipment	1,934.00	30,012.50	29,822.40	23.61	29,916.01	2,030.49
Equipment and Supplies	3,220.43	7,500.00	6,274.94	96.39	6,371.33	4,349.10
Engineering Equipment	1,140.02	12,500.00	11,930.77	59.54	11,990.31	1,649.71
Domestic Science Equipment	1,183.26	8,500.00	5,845.87	69.89	5,915.76	3,767.50
Dental Equipment	*453.77	4,000.00	3,474.64	34.53	3,509.17	337.06
Paving and Sidewalks	9.09	6,199.19	5,119.85	72.66	5,192.51	15.76
Tunnel	1,372.12		1,371.69	1.43	1,372.12	
University Extension	6,732.73	15,069.17	17,071.46	7.46	17,078.92	4,722.98
University Epidemiological Laboratory	1,306.32	5,000.00	5,904.03		5,904.03	402.29
Special Land	8,445.47	5,517.50	13,095.65	26.83	13,122.48	840.49
Donated Land	1,002.37	1,336.52	925.90	64.28	990.18	1,438.71
Jesup Prize	50.00					50.00
Ranney Interest	2,207.20	4,545.99	4,648.85		4,648.85	2,104.34
Carr Interest	3,821.96	2,520.18	2,485.00		2,485.00	3,857.14
Gifford Interest	256.60	408.00	71.00		71.00	593.60
Lowden Interest	368.75	175.00	50.00		50.00	493.75
Bryan Interest	46.16	12.50	20.00		20.00	38.66
Total	$ 102,401.44	$ 985,638.44	$ 1,017,869.93		$ 1,017,869.93	$ 70,169.95
Permanent Loan Funds:						
Permanent	9,433.86	66,435.50	75,700.00			169.36
Ranney	3,136.67	22,800.00	21,600.00			4,336.67
Carr	2,750.00	14,100.00	15,650.00			1,200.00
Gifford	237.08	2,000.00	2,000.00			237.08
Bryan		250.00	250.00			
Dillon		9,525.00				9,525.00
Total	$ 15,567.61	$ 115,110.50	$ 115,200.00			$ 15,468.11

PERMANENT FUND.

Balance cash on hand, July 1, 1914	$ 9,433.86	
RECEIPTS.		
Loans paid	$ 56,450.00	
Received from sale of lands—A. L. Goetz, Johnson Co.	9,985.50	
DISBURSEMENTS.		
New Loans		$ 75,700.00
	$ 75,869.36	$ 75,700.00
Balance cash on hand, June 30, 1915		169.36
	$ 75,869.36	$ 75,869.36

JOHN F. DILLON SCHOLARSHIP FUND.

RECEIPTS.		
Bequest of John F. Dillon	$ 9,525.00	
Balance cash on hand, June 30, 1915		9,525.00
	$ 9,525.00	$ 9,525.00

A. WHITNEY CARR FREE SCHOLARSHIP FUND.

Balance cash on hand, July 1, 1914	$ 2,750.00	
RECEIPTS.		
Loans paid	$ 14,100.00	
DISBURSEMENTS.		
New Loans		$ 15,650.00
	$ 16,850.00	$ 15,650.00
Balance cash on hand, June 30, 1915		1,200.00
	$ 16,850.00	$ 16,850.00

MARK RANNEY MEMORIAL FUND.

Balance cash on hand, July 1, 1914	$ 3,136.67	
RECEIPTS.		
Loans Paid	22,800.00	
DISBURSEMENTS.		
New Loans		$ 21,600.00
	$ 25,936.67	$ 21,600.00
Balance cash on hand, June 30, 1915		4,336.67
	$ 25,936.67	$ 25,936.67

WAITE LOWRY GIFFORD MEMORIAL FUND.

Balance cash on hand, July 1, 1914	$ 237.08	
RECEIPTS.		
Loan Paid	$ 2,000.00	
DISBURSEMENTS.		
New Loan		$ 2,000.00
Balance cash on hand, June 30, 1915		237.08
	$ 2,237.08	$ 2,237.08

W. J. BRYAN PRIZE FUND.

RECEIPTS.		
Loan Paid	$ 250.00	
DISBURSEMENTS.		
New Loans		$ 250.00
	$ 250.00	$ 250.00

INCOME FUND.

Balance cash on hand, July 1, 1914		$ 56,597.78
RECEIPTS.		
From State Appropriations	$454,700.00	
Tuitions	76,097.25	
From Other Sources	131,125.65	
Total Receipts		$661,922.90
		$718,520.68
DISBURSEMENTS.		
Warrants paid July 1, 1914, to June 30, 1915		$682,185.98
Balance cash on hand June 30, 1915		36,334.70
		$718,520.68

LIBRARY FUND.

Balance cash on hand, July 1, 1914	$ 1,248.83	
RECEIPTS.		
From State Appropriations	$ 17,500.00	
From Secretary	229.28	
DISBURSEMENTS.		
Warrants paid, July 1, 1914, to June 30, 1915		$ 16,999.40
Balance cash on hand, June 30, 1915		1,978.71
	$ 18,978.11	$ 18,978.11

REPAIR AND CONTINGENT FUND.

Balance cash on hand, July 1, 1914	$ 565.52	
RECEIPTS.		
From State Appropriations	27,499.95	
From Secretary	1,174.77	
DISBURSEMENTS.		
Warrants paid July 1, 1914, to June 30, 1915		$ 26,512.15
Balance cash on hand, June 30, 1915		2,728.09
	$ 29,240.24	$ 29,240.24

BUILDING TAX FUND.

Balance cash on hand, July 1, 1914	$ 10,956.60	
RECEIPTS.		
From State Appropriations	$175,000.00	
From Secretary	15.00	
DISBURSEMENTS.		
Warrants paid July 1, 1914, to June 30, 1915		$183,534.73
Balance cash on hand, June 30, 1915		2,436.87
	$185,971.60	$185,971.60

EQUIPMENT NEW BUILDINGS FUND.

Balance cash on hand, July 1, 1914	$ 1,934.00	
RECEIPTS.		
From State Appropriations	$ 30,000.00	
From Secretary	12.50	
DISBURSEMENTS.		
Warrants paid July 1, 1914, to June 30, 1915		$ 29,916.01
Balance cash on hand, June 30, 1915		2,030.49
	$ 31,946.50	$ 31,946.50

EQUIPMENT AND SUPPLIES FUND.

Balance cash on hand July 1, 1914	$ 3,220.43	
RECEIPTS.		
From State Appropriations	$ 7,500.00	
DISBURSEMENTS.		
Warrants paid July 1, 1914, to June 30, 1915		$ 6,371.33
Balance cash on hand, June 30, 1915		4,349.10
	$ 10,720.43	$ 10,720.43

ENGINEERING EQUIPMENT FUND.

Balance cash on hand July 1, 1914	$ 1,140.02	
RECEIPTS.		
From State Appropriations	$ 12,500.00	
DISBURSEMENTS.		
Warrants paid July 1, 1914, to June 30, 1915		$ 11,990.31
Balance cash on hand, June 30, 1915		1,649.71
	$ 13,640.02	$ 13,640.02

DOMESTIC SCIENCE EQUIPMENT FUND.

Balance cash on hand, July 1, 1914	$ 1,183.26	
RECEIPTS.		
From State Appropriations	$ 8,500.00	
DISBURSEMENTS.		
Warrants paid July 1, 1914 to June 30, 1915		$ 5,915.76
Balance cash on hand, June 30, 1915		3,767.50
	$ 9,683.26	$ 9,683.26

DENTISTRY EQUIPMENT FUND.

RECEIPTS.		
From State Appropriations	$ 4,000.00	
DISBURSEMENTS.		
Warrants paid July 1, 1914, to June 30, 1915		$ 3,509.17
Balance overdrawn July 1, 1914		153.77
Balance cash on hand, June 30, 1915		337.06
	$ 4,000.00	$ 4,000.00

PAVING AND SIDEWALKS FUND.

Balance cash on hand, July 1, 1914	$ 9.09	

RECEIPTS.		
From State Appropriations	$ 5,000.00	
From Secretary	199.18	
DISBURSEMENTS.		
Warrants paid July 1, 1914, to June 30, 1915		$ 5,192.51
Balance cash on hand, June 30, 1915		15.76
	$ 5,208.27	$ 5,208.27

SPECIAL LAND FUND.

Balance cash on hand, July 1, 1914	$ 8,445.47	
RECEIPTS.		
From State Appropriations	$ 5,000.00	
From Secretary	517.50	
DISBURSEMENTS.		
Warrants paid July 1, 1914, to June 30, 1915		$ 13,122.48
Balance cash on hand, June 30, 1915		840.49
	$ 13,962.97	$ 13,962.97

DONATED LAND FUND.

Balance cash on hand, July 1, 1914	$ 1,092.37	
RECEIPTS.		
From Secretary	$ 1,336.52	
DISBURSEMENTS.		
Warrants paid July 1, 1914, to June 30, 1915		$ 990.18
Balance cash on hand, June 30, 1915		1,438.71
	$ 2,428.89	$ 2,428.89

HEATING PLANT TUNNEL FUND.

Balance cash on hand, July 1, 1914	$ 1,372.12	
DISBURSEMENTS.		
Warrants paid July 1, 1914, to June 30, 1915		$ 1,372.12
	$ 1,372.12	$ 1,372.12

UNIVERSITY EXTENSION FUND.

Balance cash on hand, July 1, 1914	$ 6,732.73	
RECEIPTS.		
From State Appropriations	$ 15,000.00	
From Secretary	69.17	
DISBURSEMENTS.		
Warrants paid July 1, 1914, to June 30, 1915		$ 17,078.92
Balance cash on hand, June 30, 1915		4,722.98
	$ 21,801.90	$ 21,801.90

UNIVERSITY EPIDEMIOLOGIST FUND.

Balance cash on hand, July 1, 1914	$ 1,306.32	
RECEIPTS.		
From State Appropriations	$ 5,000.00	

DISBURSEMENTS.

Warrants paid July 1, 1914, to June 30, 1915		$ 5,904.09
Balance cash on hand, June 30, 1915		402.23
	$ 6,306.32	$ 6,306.32

CHARLES M. JESUP PRIZE FUND.

Balance cash on hand July 1, 1914	$ 50.00	
Balance cash on hand, June 30, 1915		$ 50.00

MARK RANNEY MEMORIAL INTEREST FUND.

Balance cash on hand, July 1, 1914	$ 2,207.20	

RECEIPTS.

From interest on Ranney Memorial Fund	$ 4,545.99	

DISBURSEMENTS.

Warrants paid July 1, 1914, to June 30, 1915		$ 4,648.85
Balance cash on hand, June 30, 1915		2,104.34
	$ 6,753.19	$ 6,753.19

A. WHITNEY CARR FREE SCHOLARSHIP INTEREST FUND.

Balance cash on hand, July 1, 1914	$ 3,821.96	

RECEIPTS.

From interest on A. Whitney Carr Scholarship Fund	$ 2,518.43	
From Secretary	1.75	

DISBURSEMENTS.

Warrants paid July 1, 1914, to June 30, 1915		$ 2,485.00
Balance cash on hand, June 30, 1915		3,857.14
	$ 6,342.14	$ 6,342.14

WAITE LOWRY GIFFORD MEMORIAL INTEREST FUND.

Balance cash on hand, July 1, 1914	$ 256.60	

RECEIPTS.

From interest on Waite Lowry Gifford Memorial Fund	$ 408.00	

DISBURSEMENTS.

Warrants paid July 1, 1914, to June 30, 1915		$ 71.00
Balance cash on hand, June 30, 1915		593.60
	$ 664.60	$ 664.60

F. O. LOWDEN PRIZE INTEREST FUND.

Balance cash on hand, July 1, 1914	$ 368.75	

RECEIPTS.

From Secretary	$ 175.00	

DISBURSEMENTS.

Warrants paid July 1, 1914, to June 30, 1915		$ 50.00
Balance cash on hand, June 30, 1915		493.75
	$ 543.75	$ 543.75

WILLIAM JENNINGS BRYAN PRIZE INTEREST FUND.

Balance cash on hand, July 1, 1914	$ 46.16	

RECEIPTS.

From interest on Wm. Jennings Bryan Prize Fund	$ 12.50	

DISBURSEMENTS.

Warrants paid July 1, 1914, to June 30, 1915		$ 20.00
Balance cash on hand June 30, 1915		$ 38.66
	$ 58.66	$ 58.66

CAPITAL—PERMANENT FUND.

By mortgage notes July 1, 1914		$250,300.00
By cash balance July 1, 1914		9,433.86
By cash received—sale of lands and rents		9,985.50
To mortgage notes on hand June 30, 1915	$269,550.00	
To cash balance June 30, 1915	169.36	
	$269,719.36	$269,719.36

MARK RANNEY MEMORIAL FUND.

By mortgage notes July 1, 1914		$ 80,300.00
By cash balance July 1 1914		3,136.67
To mortgage notes on hand June 30, 1915	$ 79,100.00	
To cash balance June 30, 1915	4,336.67	
	$ 83,436.67	$ 83,436.67

A. WHITNEY CARR FREE SCHOLARSHIP FUND.

By mortgage notes July 1, 1914		$ 47,250.00
By cash balance July 1, 1914		2,750.00
To mortgage notes on hand June 30, 1915	$ 48,800.00	
To cash calance June 30, 1915	1,200.00	
	$ 50,000.00	$ 50,000.00

WAITE LOWRY GIFFORD MEMORIAL FUND.

By mortgage notes July 1, 1914		$ 8,500.00
By cash balance July 1, 1914		237.08
To mortgage notes on hand June 30, 1915	$ 8,500.00	
To cash balance June 30, 1915	237.08	
	$ 8,737.08	$ 8,737.08

WM. JENNINGS BRYAN PRIZE FUND.

By mortgage notes July 1, 1914		$ 250.00
To mortgage notes on hand June 30, 1915	$ 250.00	
	$ 250.00	$ 250.00

FRANK O. LOWDEN PRIZE FUND.

By 25 shares preferred stock in the National Biscuit Co. July 1, 1914		$ 2,500.00
To 25 shares preferred stock in the National Biscuit Co. June 30, 1915	$ 2,500.00	
	$ 2,500.00	$ 2,500.00

JOHN F. DILLON SCHOLARSHIP FUND.

By cash received from John F. Dillon bequest		$ 9,525.00
To cash balance June 30, 1915—	$ 9,525.00	
	$ 9,525.00	$ 9,525.00

RECAPITULATION OF BALANCES, JUNE 30, 1915.

Income Fund	$ 36,334.70
Library Fund	1,978.71
Repair and Contingent Fund	2,728.09
Building Tax Fund	2,436.87
Equipment New Buildings Fund	2,030.49
Equipment and Supplies Fund	4,349.10

Engineering Equipment Fund	1,649.71	
Domestic Science Equipment Fund	3,767.50	
Dental Equipment Fund	337.06	
Paving and Sidewalks Fund	15.76	
Special Land Fund	840.49	
Donated Land Fund	1,438.71	
University Extension Fund	4,722.98	
University Epidemiologist Fund	402.29	
Charles M. Jesup Prize Fund	50.00	
Mark Ranney Memorial Interest Fund	2,104.34	
A. Whitney Carr Free Scholarship Interest Fund	3,857.14	
Waite Lowry Gifford Memorial Interest Fund	593.60	
F. O. Lowden Prize Interest Fund	493.75	
W. J. Bryan Prize Interest Fund	38.66	70,169.95

LOAN FUNDS.

Permanent Land Fund	$ 169.36	
Mark Ranney Memorial Fund	4,336.67	
A. Whitney Carr Scholarship Fund	1,200.00	
Waite Lowry Gifford Memorial Fund	237.08	
John F. Dillon Scholarship Fund	9,525.00	15,468.11
		$ 85,638.06

MORTGAGE LOANS.

Permanent Land Fund	$269,550.00	
Mark Ranney Memorial Fund	79,100.00	
A. Whitney Carr Scholarship Fund	48,800.00	
Waite Lowry Gifford Memorial Fund	8,500.00	
W. J. Bryan Prize Fund	250.00	406,200.00
F. O. Lowden Prize Fund (25 shares preferred stock National Biscuit Co.)		2,500.00
		$494,338.06

June 30, 1915.

First National Bank, W. J. McChesney, Treas. S. U. I.	$ 70,169.95
First National Bank, W. J. McChesney, Treas. S. U. I. Loan Fund	15,468.11
Mortgage notes on hand	406,200.00
25 shares preferred stock in National Biscuit Co.	2,500.00
	$494,338.06

REPORT OF TREASURER, STATE UNIVERSITY.
FISCAL YEAR ENDING JUNE 30, 1916.

FUNDS	Balance July 1, 1915	Receipts	Transfers	Total receipts	Warrants paid	Charge credits	Total expenditures	Balance June 30, 1916
Educational Support Fund	$ 36,334.70	$ 827,015.47	$ 535,290.76	$ 291,725.31	$ 250,310.25	$ 4,725.40	$ 255,035.65	$ 73,024.36
College of Applied Science, Law, etc.		62,830.82	344,235.00	407,065.82	391,028.61	168.80	390,859.81	16,206.01
College of Education		18,333.30	16,100.00	34,433.30	26,792.92		26,792.92	7,640.38
College of Dentistry		21,747.90	32,810.00	54,557.90	51,609.60		51,609.60	2,948.30
College of Fine Arts		2,750.00	4,500.00	7,250.00	3,000.00		3,000.00	4,250.00
Graduate College		8,266.97	7,250.00	15,516.97	11,511.20		11,511.20	4,005.77
Summer Session		16,000.00	10,000.00	26,000.00	21,967.70		21,967.70	4,032.30
Administration		5,706.25	30,590.00	36,296.25	27,961.94		27,961.94	8,334.31
Buildings and Grounds		11,478.11	89,805.16	101,283.27	105,839.87	4,556.60	101,283.27	
Repair and Contingent	2,728.09	35,530.91		35,530.91	38,204.98		38,204.98	54.02
Equipment and Supplies	4,349.10	11,472.80		11,472.80	8,683.34		8,683.34	7,138.56
Library	1,978.71	17,503.19		17,503.19	17,884.55		17,884.55	1,597.35
University Extension	4,722.98	17,467.70		17,467.70	16,171.53		16,171.53	6,019.15
University Epidemiological Laboratory		5,000.00		5,000.00	5,252.53		5,252.53	149.76
Building	2,436.87	136,981.57		136,981.57	134,478.68		134,478.68	4,939.76
Building Equipment	2,030.49	22,500.00		22,500.00	21,053.65		21,053.65	3,476.84
Electrical Equipment		5,000.00		5,000.00	4,698.34		4,698.34	301.66
Enlarged Heating Plant		18,000.00		18,000.00	8,685.47		8,685.47	9,314.53
Tunnel		6,019.54		6,019.54	5,858.91		5,858.91	160.63
Paving and Sidewalks	15.76	3,085.32		3,085.32	3,072.38		3,072.38	28.70
Special Land	840.49	56,762.17		56,762.17	57,006.82		57,006.82	595.84
Donated Land	1,438.71	1,187.63		1,187.63	2,201.33		2,201.33	425.01
Engineering Equipment Fund	1,649.71				1,364.03		1,364.03	285.68
Dental Equipment Fund	337.06				337.06		337.06	
Domestic Science Fund	3,767.50				3,767.50		3,767.50	
Ranney Interest	2,104.34	4,417.28		4,417.28	4,611.62		4,611.62	1,910.00
Carr Interest	3,857.14	2,550.49		2,550.49	2,285.00		2,285.00	4,122.63
Gifford Interest	593.60	482.50		482.50				1,076.10
Dillon Interest		42.17		42.17				42.17
Bryan Interest	38.66	12.50		12.50	10.00		10.00	41.16
Lowden Interest	493.75	175.00		175.00	250.00		250.00	418.75
Jesup Prize	50.00							50.00
Total	$ 70,169.95	$ 1,318,319.59		$ 1,318,319.59	$ 1,225,969.81		$ 1,225,969.81	$ 162,549.73
Loan Funds:								
Permanent Land	169.36			$ 68,800.00			$ 67,500.00	$ 1,569.36
Ranney	4,336.67			7,500.00			11,500.00	336.67
Carr	1,200.00			14,650.00			11,900.00	3,950.00
Gifford	237.08			3,000.00			3,000.00	237.08
Dillon	9,525.00						9,000.00	625.00
Bryan								
Total	$ 15,468.11			$ 94,040.00			$ 102,900.00	$ 6,908.11

PERMANENT FUND.

Balance cash on hand, July 1, 1915	$ 169.36	
RECEIPTS.		
Loans Paid	$ 63,800.00	
Received from sale of lands—A. E. Childs, Appanoose County	5,040.00	
Received from rents—Z. H. Sayers	50.00	
DISBURSEMENTS.		
New Loans		$ 67,500
	$ 69,059.36	$ 67,500.00
Balance cash on hand, June 30, 1916		1,559.36
	$ 69,059.36	$ 69,059.36

MARK RANNEY MEMORIAL FUND.

Balance cash on hand, July 1, 1915	$ 4,336.67	
RECEIPTS.		
Loan Paid	$ 7,500.00	
DISBURSEMENTS.		
New Loan		$ 11,500.00
Balance cash on hand, June 30, 1916		336.67
	$ 11,836.67	$ 11,836.67

A. WHITNEY CARR FREE SCHOLARSHIP FUND.

Balance cash on hand, July 1, 1915	$ 1,200.00	
RECEIPTS.		
Loans Paid	$ 14,650.00	
DISBURSEMENTS.		
New Loans		$ 11,900.00
	$ 15,850.00	$ 11,900.00
Balance cash on hand, June 30, 1916		3,950.00
	$ 15,850.00	$ 15,850.00

WAITE LOWRY GIFFORD MEMORIAL FUND.

Balance cash on hand, July 1, 1915	$ 237.08	
RECEIPTS.		
Loan Paid	$ 3,000.00	
DISBURSEMENTS.		
New Loan		$ 3,000.00
	$ 3,237.08	$ 3,000.00
Balance cash on hand, June 30, 1916		237.08
	$ 3,237.08	$ 3,237.08

JOHN F. DILLON SCHOLARSHIP FUND.

Balance cash on hand, July 1, 1915	$ 9,525.00	
DISBURSEMENTS.		
Loan Paid		$ 9,000.00
	$ 9,525.00	$ 9,000.00
Balance cash on hand, June 30, 1916		525.00
	$ 9,525.00	$ 9,525.00

EDUCATIONAL SUPPORT FUND.

Balance cash on hand from Income Fund, July 1, 1915			$ 36,334.70
RECEIPTS.			
From State Appropriations		$454,700.05	
Tuitions and Laboratory Fees		109,297.95	
From Other Sources		263,017.47	
		827,015.47	
Less Transfers:			
College of Ap. Sc., Etc., Fund	$344,235.00		
College of Education Fund	16,100.00		
College of Fine Arts Fund	4,500.00		
College of Dentistry Fund	32,810.00		
Graduate College Fund	7,250.00		
Summer Session Fund	10,000.00		
Administration Fund	30,590.00		
Buildings and Grounds Fund	89,805.16	535,290.16	
Net Receipts			291,725.31
			$328,060.01
DISBURSEMENTS.			
Warrants paid July 1, 1915, to June 30, 1916			$255,035.65
Balance cash on hand, June 30, 1916			73,024.36
			$328,060.01

COLLEGE OF APPLIED SCIENCE, ETC., FUND.

RECEIPTS.		
From State Appropriations	$ 62,654.15	
Transfer from Educational Support Fund	344,235.00	
From Secretary	176.67	
DISBURSEMENTS.		
Warrants paid		$390,859.81
Balance cash on hand, June 30, 1916		16,206.01
	$407,065.82	$407,065.82

COLLEGE OF EDUCATION FUND.

RECEIPTS.		
From State Appropriations	$ 18,333.30	
Transfer from Educational Support Fund	16,100.00	
DISBURSEMENTS.		
Warrants paid		$ 26,792.92
Balance cash on hand, June 30, 1916		7,640.38
	$ 34,433.30	$ 34,433.30

COLLEGE OF DENTISTRY FUND.

RECEIPTS.		
From State Appropriations	$ 21,747.90	
Transfer from Educational Support Fund	32,810.00	
DISBURSEMENTS.		
Warrants paid		$ 51,609.60
Balance cash on hand, June 30, 1916		2,948.30
	$ 54,557.90	$ 54,557.90

COLLEGE OF FINE ARTS FUND.

RECEIPTS.		
From State Appropriations	$ 2,750.00	
Transfer from Educational Support Fund	4,500.00	

DISBURSEMENTS.

Warrants paid		$ 3,000.00
Balance cash on hand, June 30, 1916		4,250.00
	$ 7,250.00	$ 7,250.00

GRADUATE COLLEGE FUND.

RECEIPTS.

From State Appropriations	$ 8,250.00
Transfer from Educational Support Fund	7,250.00
From Secretary	16.97

DISBURSEMENTS.

Warrants paid		$ 11,511.20
Balance cash on hand, June 30, 1916		4,005.77
	$ 15,516.97	$ 15,516.97

SUMMER SESSION FUND.

RECEIPTS.

From State Appropriations	$ 16,000.00
Transfer from Educational Support Fund	10,000.00

DISBURSEMENTS.

Warrants paid		$ 21,967.70
Balance cash on hand, June 30, 1916		4,032.30
	$ 26,000.00	$ 26,000.00

ADMINISTRATION FUND.

RECEIPTS.

From State Appropriations	$ 5,706.25
Transfer from Educational Support Fund	30,590.00

DISBURSEMENTS.

Warrants paid		$ 27,961.94
Balance cash on hand, June 30, 1916		8,334.31
	$ 36,296.25	$ 36,296.25

BUILDINGS AND GROUNDS FUND.

RECEIPTS.

From State Appropriations	$ 11,000.00
From Secretary	478.11
Transfer from Educational Support Fund	89,805.16

DISBURSEMENTS.

Warrants paid		$101,283.27
	$101,283,27	$101,283.27

REPAIR AND CONTINGENT FUND.

Balance cash on hand, July 1, 1915 ..... $ 2,728.09

RECEIPTS.

From State Appropriations	34,583.35
From Secretary	947.56

DISBURSEMENTS.

Warrants paid		$ 38,204.98
Balance cash on hand, June 30, 1916		54.02
	$ 38,259.00	$ 38,259.00

EQUIPMENT AND SUPPLIES FUND.

Balance cash on hand July 1, 1915 ..... $ 4,349.10

RECEIPTS.

From State Appropriations	11,458.30
From Secretary	14.50

DISBURSEMENTS.

Warrants paid		$ 8,663.34
Balance cash on hand, June 30, 1916		7,158.56
	$ 15,821.90	$ 15,821.90

LIBRARY FUND.

Balance cash on hand, July 1, 1915 ..... $ 1,978.71

RECEIPTS.

From State Appropriations	$ 17,500.00
From Secretary	3.19

DISBURSEMENTS.

Warrants paid		$ 17,884.55
Balance cash on hand June 30, 1916		1,597.35
	$ 19,481.90	$ 19,481.90

UNIVERSITY EXTENSION FUND.

Balance cash on hand, July 1, 1915 ..... $ 4,722.98

RECEIPTS.

From State Appropriations	16,833.30
From Secretary	634.40

DISBURSEMENTS.

Warrants paid		$ 16,171.53
Balance cash on hand, June 30, 1916		6,019.15
	$ 22,190.68	$ 22,190.68

UNIVERSITY EPIDEMIOLOGIST FUND.

Balance cash on hand July 1, 1915 ..... $ 402.29

RECEIPTS.

From State Appropriations ..... $ 5,000.00

DISBURSEMENTS.

Warrants paid		$ 5,252.53
Balance cash on hand, June 30, 1916		149.76
	$ 5,402.29	$ 5,402.29

BUILDING FUND.

Balance cash on hand July 1, 1915 ..... $ 2,436.87

RECEIPTS.

From State Appropriations	136,970.78
From Secretary	10.79

DISBURSEMENTS.

Warrants paid		$134,478.68
Balance cash on hand, June 30, 1916		4,939.76
	$139,418.44	$139,418.44

EQUIPMENT NEW BUILDING FUND.

Balance cash on hand July 1, 1915	$ 2,030.49	
RECEIPTS.		
From State Appropriations	$ 22,500.00	
DISBURSEMENTS.		
Warrants paid		$ 21,053.65
Balance cash on hand, June 30, 1916		3,476.84
	$ 24,530.49	$ 24,530.49

ELECTRICAL EQUIPMENT FUND.

RECEIPTS.		
From State Appropriations	$ 5,000.00	
DISBURSEMENTS.		
Warrants paid		$ 4,698.34
Balance cash on hand, June 30, 1916		301.66
	$ 5,000.00	$ 5,000.00

ENLARGED HEATING PLANT FUND.

RECEIPTS.		
From State Appropriations	$ 18,000.00	
DISBURSEMENTS.		
Warrants paid		$ 8,685.47
Balance cash on hand, June 30, 1916		9,314.53
	$ 18,000.00	$ 18,000.00

TUNNEL TO NEW BUILDINGS FUND.

RECEIPTS.		
From State Appropriations	$ 6,000.00	
From Secretary	19.54	
DISBURSEMENTS.		
Warrants paid		$ 5,858.91
Balance cash on hand, June 30, 1916		160.63
	$ 6,019.54	$ 6,019.54

PAVING AND SIDEWALKS FUND.

Balance cash on hand, July 1, 1915	$ 15.76	
RECEIPTS.		
From State Appropriations	$ 3,000.00	
From Secretary	85.32	
DISBURSEMENTS.		
Warrants paid		$ 3,072.38
Balance cash on hand, June 30, 1916		28.70
	$ 3,101.08	$ 3,101.08

SPECIAL LAND FUND.

Balance cash on hand, July 1, 1915	$ 840.49	
RECEIPTS.		
From State Appropriations	48,000.00	
From Secretary	8,762.17	

DISBURSEMENTS.		
Warrants paid		$ 57,066.82
Balance cash on hand, June 30, 1916		535.84
	$ 57,602.66	$ 57,602.66

DONATED LAND FUND.

Balance cash on hand, July 1, 1915	$ 1,438.71	
RECEIPTS.		
From Secretary	1,187.63	
DISBURSEMENTS.		
Warrants paid		$ 2,201.33
Balance cash on hand, June 30, 1916		425.01
	$ 2,626.34	$ 2,626.34

EQUIPMENT ENGINEERING FUND.

Balance cash on hand, July 1, 1915	$ 1,649.71	
DISBURSEMENTS.		
Warrants paid		$ 1,364.03
Balance cash on hand, June 30, 1916		285.68
	$ 1,649.71	$ 1,649.71

DENTAL EQUIPMENT FUND.

Balance cash on hand, July 1, 1915	$ 337.06	
DISBURSEMENTS.		
Warrants paid		$ 337.06
	$ 337.06	$ 337.06

DOMESTIC SCIENCE EQUIPMENT FUND.

Balance cash on hand, July 1, 1915	$ 3,767.50	
DISBURSEMENTS.		
Warrants paid		$ 3,767.50
	$ 3,767.50	$ 3,767.50

MARK RANNEY MEMORIAL INTEREST FUND.

Balance cash on hand, July 1, 1915	$ 2,104.34	
RECEIPTS.		
From interest on Ranney Memorial Fund	4,417.28	
DISBURSEMENTS.		
Warrants paid		$ 4,611.62
Balance cash on hand, June 30, 1916		1,910.00
	$ 6,521.62	$ 6,521.62

A. WHITNEY CARR FREE SCHOLARSHIP INTEREST FUND.

Balance cash on hand, July 1, 1915	$ 3,857.14	
RECEIPTS.		
From interest on A. Whitney Carr Scholarship Fund	$ 2,496.99	
From Secretary	53.50	
DISBURSEMENTS.		
Warrants paid		$ 2,285.00
Balance cash on hand, June 30, 1916		4,122.63
	$ 6,407.63	$ 6,407.63

WAITE LOWRY GIFFORD MEMORIAL INTEREST FUND.

Balance cash on hand, July 1, 1915	$ 593.60	
RECEIPTS.		
From interest on Waite Lowry Gifford Memorial Fund	482.50	
Balance cash on hand, June 30, 1916		$ 1,076.10
	$ 1,076.10	$ 1,076.10

JOHN F. DILLON SCHOLARSHIP INTEREST FUND.

RECEIPTS.		
From interest on John F. Dillon Scholarship Fund	$ 42.17	
Balance cash on hand, June 30, 1916		$ 42.17

WILLIAM JENNINGS BRYAN PRIZE INTEREST FUND.

Balance cash on hand, July 1, 1915	$ 38.66	
RECEIPTS.		
From interest on William Jennings Bryan Prize Fund	$ 12.50	
DISBURSEMENTS.		
Warrants paid		$ 10.00
Balance cash on hand June 30, 1916		41.16
	$ 51.16	$ 51.16

F. O. LOWDEN PRIZE INTEREST FUND.

Balance cash on hand, July 1, 1915	$ 493.75	
RECEIPTS.		
From Secretary	175.00	
DISBURSEMENTS.		
Warrants paid		$ 250.00
Balance cash on hand, June 30, 1916		418.75
	$ 668.75	$ 668.75

CHARLES M. JESUP PRIZE FUND.

Balance cash on hand, July 1, 1915	$ 50.00	
Balance cash on hand, June 30, 1916		$ 50.00
	$ 50.00	$ 50.00

CAPITAL—PERMANENT FUND.

By mortgage notes July 1, 1915		$269,550.00
By cash		169.36
By sale of lands and rents		5,090.00
To mortgage notes on hand June 30, 1916	$273,250.00	
To Cash balance	1,559.36	
	$274,809.36	$274,809.36

MARK RANNEY MEMORIAL FUND.

By mortgage notes July 1, 1915		$79,100.00
By cash balance July 1, 1915		4,336.67
To mortgage notes on hand June 30, 1916	$ 83,100.00	
To cash balance	336.67	
	$ 83,436.67	$ 83,436.67

A WHITNEY CARR FREE SCHOLARSHIP FUND.

By mortgage notes July 1, 1915		$ 48,800.00
By cash balance July 1, 1915		1,200.00
To mortgage notes on hand June 30, 1916	$ 46,050.00	
To cash balance	3,950.00	
	$ 50,000.00	$ 50,000.00

WAITE LOWRY GIFFORD MEMORIAL FUND.

By mortgage notes July 1, 1915		$ 8,500.00
By cash balance July 1, 1915		237.08
To mortgage notes on hand June 30, 1916	$ 8,500.00	
To cash balance	237.08	
	$ 8,737.08	$ 8,737.08

WILLIAM JENNINGS BRYAN PRIZE FUND.

By mortgage notes July 1, 1915	$ 250.00	
To mortgage notes on hand June 30, 1916		$ 250.00
	$ 250.00	$ 250.00

JOHN F. DILLON SCHOLARSHIP FUND.

By cash balance July 1, 1915		$ 9,525.00
To mortgage notes on hand June 30, 1916	$ 9,000.00	
To cash balance	525.00	
	$ 9,525.00	$ 9,525.00

FRANK O. LOWDEN PRIZE FUND.

By 25 shares preferred stock in the National Biscuit Co., July 1, 1915		$ 2,500.00
To 25 shares preferred stock in the National Biscuit Co., June 30, 1916	$ 2,500.00	
	$ 2,500.00	$ 2,500.00

RECAPITULATION OF BALANCES JUNE 30, 1916.

Educational Support Fund	$ 73,024.36	
College of Applied Science, Etc., Fund	16,206.01	
College of Education Fund	7,640.38	
College of Dentistry Fund	2,948.30	
College of Fine Arts Fund	4,250.00	
Graduate College Fund	4,005.77	
Summer Session Fund	4,032.30	
Administration Fund	8,334.31	
Repair and Contingent Fund	54.02	
Equipment and Supplies Fund	7,158.56	
Library Fund	1,597.35	
University Extension Fund	6,019.15	
University Epidemiologist Fund	149.76	
Building Fund	4,939.76	
Building Equipment Fund	3,476.84	
Electrical Equipment Fund	301.66	
Enlarged Heating Plant Fund	9,314.53	
Tunnel to New Buildings Fund	160.63	
Paving and Sidewalks Fund	28.70	
Special Land Fund	535.84	
Donated Land Fund	425.01	
Engineering Equipment Fund	285.68	
Mark Ranney Memorial Interest Fund	1,910.00	
A. Whitney Carr Free Scholarship Interest Fund	4,122.63	
Waite Lowry Gifford Memorial Interest Fund	1,076.10	
John F. Dillon Scholarship Interest Fund	42.17	
William Jennings Bryan Prize Interest Fund	41.16	
Frank O. Lowden Prize Interest Fund	418.75	
Charles M. Jessup Prize Fund	50.00	$162,549.73
LOAN FUNDS.		
Permanent Land Fund	$ 1,559.36	
Mark Ranney Memorial Fund	336.67	
A. Whitney Carr Scholarship Fund	3,950.00	
Waite Lowry Gifford Memorial Fund	237.08	
John F. Dillon Scholarship Fund	525.00	6,608.11
		$169,157.84

MORTGAGE LOANS.

Permanent Land Fund	$273,250.00	
Mark Ranney Memorial Fund	83,100.00	
A. Whitney Carr Scholarship Fund	46,050.00	
Waite Lowry Gifford Memorial Fund	8,500.00	
W. J. Bryan Prize Fund	250.00	
John F. Dillon Scholarship Fund	9,000.00	420,150.00
F. O. Lowden Prize Fund (25 shares preferred stock National Biscuit Co.)		2,500.00
		$591,807.84

June 30, 1916:

First National Bank, W. J. McChesney, Treas. S. U. I.	$162,549.73
First National Bank, W. J. McChesney, Treas. S. U. I.	6,608.11
Mortgage notes on hand	420,150.00
25 shares preferred stock in National Biscuit Co.	2,500.00
	$591,807.84

Iowa State College of Agriculture and Mechanic Arts

Ames

Biennial Report

Period Ending June 30, 1916

REPORT OF THE PRESIDENT, IOWA STATE COLLEGE OF AGRICULTURE AND MECHANIC ARTS

R. A. PEARSON, PRESIDENT.

REPORT ON EDUCATIONAL WORK.

THE STUDENT BODY.

ENROLLMENT.

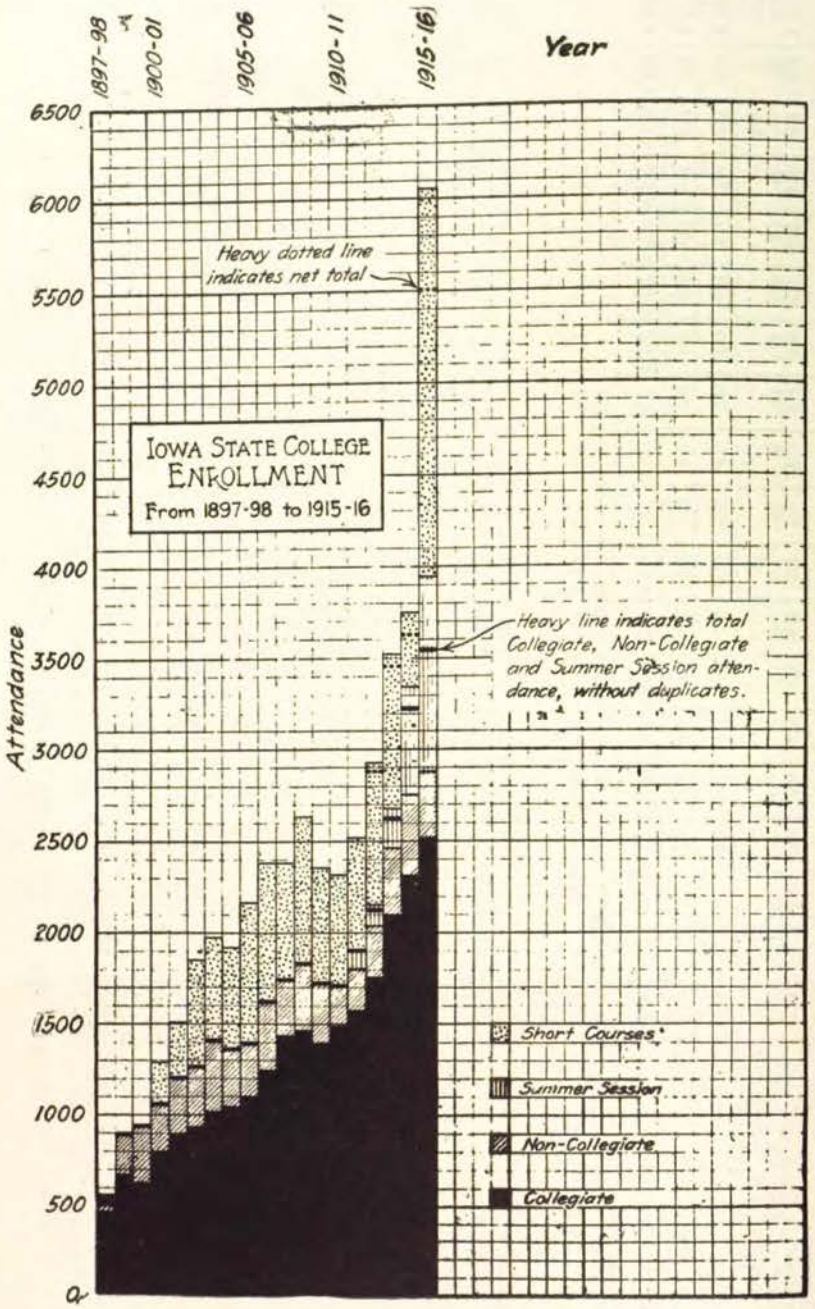
At the close of the biennium, the enrollment of collegiate, including graduate, students was 2,511. This was an increase of 421 during the biennium, and this is in addition to an increase of 520 during the preceding biennium. In five years, the collegiate enrollment has increased 1,027. In nine years, it has more than doubled. When non-collegiate and summer session enrollments are included, as is commonly done when college attendance is announced, the enrollment at the close of last year was 3,537 This is an increase of 926 in two years, and it is more than double the enrollment of five years earlier. This number of students has taxed the facilities of the college and has kept the faculty and administrative officers alert and anxious in their efforts to provide for all proper demands from both students and departments.

The following table and the accompanying chart show the enrollment of the college, by years and principal groups, annually, from 1897-98 to the present time:

ENROLLMENT AT IOWA STATE COLLEGE, 1897-1898 TO 1915-1916.

Character of Courses	97-98	98-99	99-00	00-01	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11	11-12	12-13	13-14	14-15*	15-16
Collegiate:																			
Graduate	17	15	24	20	-----	6	22	13	23	15	14	14	20	16	22	15	26	69	103
Agriculture	91	205	205	237	226	276	253	267	268	343	398	426	448	513	578	681	807	823	900
Agricultural Engineering	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	10	34	57	89	135	136	104
Engineering	137	195	220	315	415	443	505	530	570	592	704	681	586	587	528	495	515	602	642
Home Economics	52	73	58	68	92	82	95	95	40	45	64	97	121	149	206	321	446	521	546
Science	148	142	70	102	106	76	86	66	135	165	146	113	84	76	81	70	78	84	107
Veterinary	9	37	43	47	59	48	52	66	56	82	108	126	115	100	85	70	76	81	109
Music	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	9	14	9	13	9	7	3	-----
Net total	454	667	620	789	898	931	1,013	1,037	1,092	1,242	1,434	1,466	1,398	1,484	1,570	1,750	2,090	2,319	2,511
Non-collegiate:																			
Preparatory	-----	24	24	42	33	66	34	29	37	37	20	26	21	-----	-----	-----	-----	-----	-----
Two and one-year Agriculture	71	124	154	101	94	100	104	64	81	105	82	132	119	148	188	218	275	249	230
Two-year Engineering	-----	61	116	115	128	135	174	176	145	211	139	114	93	1	-----	-----	22	65	39
Two-year Home Economics	-----	20	26	17	22	15	9	15	-----	-----	8	28	19	-----	-----	-----	24	61	58
Music	-----	-----	-----	-----	27	21	78	42	31	21	56	69	73	79	42	66	48	62	40
Net total	71	229	320	275	304	337	399	326	294	374	305	369	325	228	230	284	369	427	367
Net total of Collegiate and Non-collegiate	525	896	940	1,064	1,202	1,268	1,412	1,363	1,386	1,616	1,739	1,835	1,723	1,712	1,800	2,034	2,459	2,746	2,878
Summer Session:																			
Total	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	128	215	601	1,055
Duplicates	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	44	63	116	396
Net total	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	96	84	152	485	659
Net total of Collegiate, Non-collegiate and Summer Session	525	896	940	1,064	1,202	1,268	1,412	1,363	1,386	1,616	1,739	1,835	1,723	1,712	1,896	2,118	2,611	3,231	3,537
Short Courses:																			
Agriculture	22	-----	-----	229	300	578	558	552	737	733	605	747	576	555	567	703	604	292	1,764
Home Economics	-----	-----	-----	-----	-----	-----	-----	-----	-----	32	37	49	51	40	47	61	54	22	229
Engineering	-----	-----	-----	-----	-----	-----	-----	-----	39	-----	-----	-----	-----	-----	-----	-----	189	84	134
Total	22	-----	-----	229	300	578	558	552	776	765	642	796	627	595	614	764	847	398	2,127
Duplicates	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	162
Net total	22	-----	-----	229	300	578	558	552	776	765	642	796	627	595	614	764	847	398	1,965
Grand total (net)	547	896	940	1,293	1,502	1,846	1,970	1,915	2,162	2,381	2,381	2,631	2,350	2,307	2,510	2,882	3,458	3,629	5,502

*The regular Winter Short Course was not held in 1914-1915 on account of the foot and mouth disease.



SUMMARY OF ENROLLMENT FOR BIENNIUM.

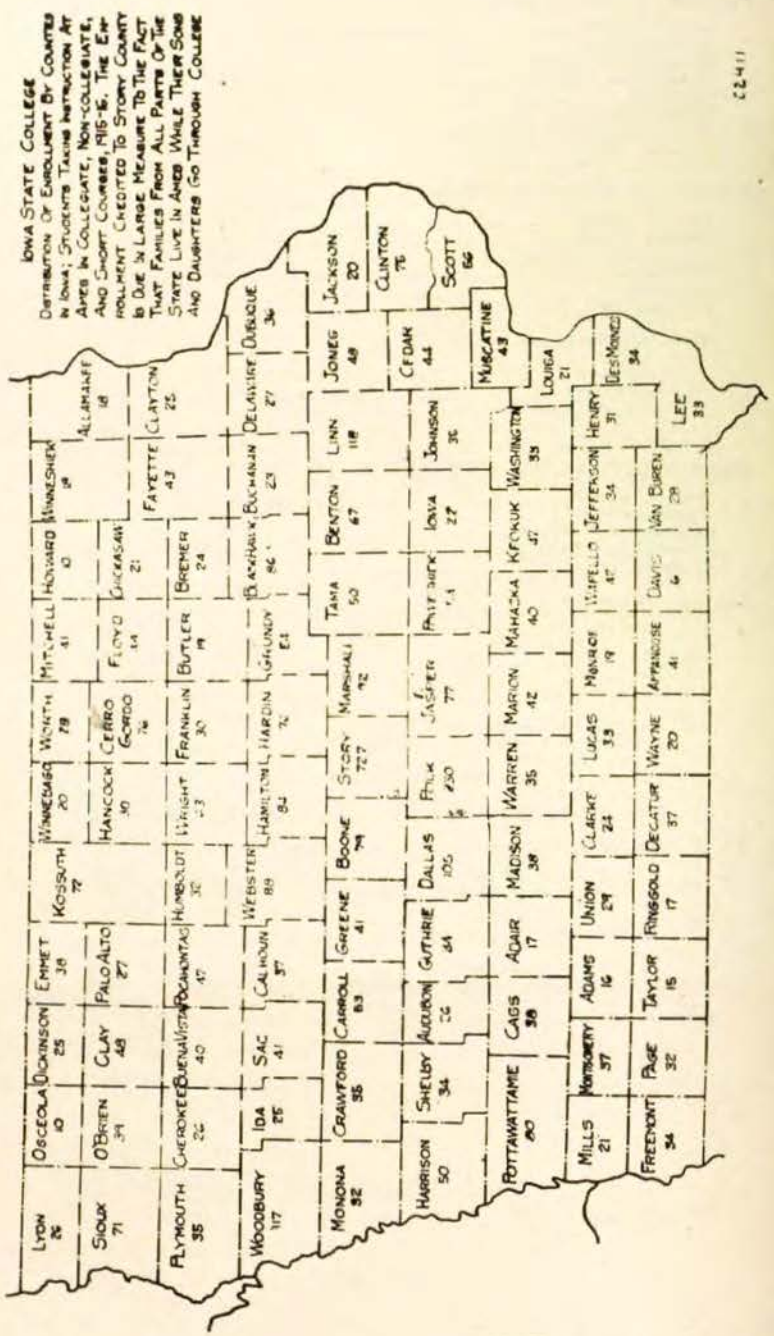
The following table shows the number of students in each class and course during the years 1914-15 and 1915-16:

	Year 1914-15.		Year 1915-16.	
1. Graduate Division:				
Agriculture—				
Agronomy	22		13	
Animal Husbandry	8		14	
Dairying	2		4	
Farm Management	1		2	
Horticulture	..		5	
		33		38
Engineering—				
Ceramics	1		1	
Engineering	..		...	
Highway Engineering	2			
		3		1
Home Economics		3		...
Industrial Science		30		64
		69		103
2. Division of Agriculture:				
Senior Class—				
Agricultural Education	11		11	
Agricultural Engineering	12		20	
Agronomy	20		38	
Animal Husbandry	71		60	
Dairying	14		10	
Forestry	6		7	
Horticulture	6		6	
		140		152
Junior Class—				
Agricultural Education	8		11	
Agricultural Engineering	22		32	
Agronomy	41		33	
Animal Husbandry	62		94	
Dairying	11		9	
Farm Management	..		3	
Forestry	15		9	
Horticulture	6		14	
		165		205
Sophomore Class—				
Agricultural Education	10		3	
Agricultural Engineering	40		23	
Agronomy	37		31	
Animal Husbandry	116		123	
Dairying	10		17	
Farm Management	..		9	
Forestry	8		16	
Horticulture	10		11	
Two-Year Collegiate Agriculture	7		5	
		238		238
Freshman Class—				
Agricultural Education	12		...	
Agricultural Engineering	56		29	
Agriculture	331		330	
Forestry	..		25	
		399		384
Specials—				
Agricultural Engineering	2		...	
Agriculture	12		23	
		14		23
Irregular—				
Agricultural Engineering	1		...	
Agriculture	1		3	
Forestry	1		...	
		3		3
Non-Collegiate—				
Two-Year Agriculture	224		194	
One-Year Dairy	25		36	
	249		230	

*Winter Short Courses—						
Agronomy and Animal Husbandry	119		1,654			
Creamery Men	60		110			
Country Newspaper Men	113		...			
		292		1,764		
			1,500			2,999
3. Division of Engineering:						
Senior Class—						
Agricultural Engineering	12		20			
Ceramics	..		1			
Chemical Engineering	1		2			
Civil Engineering	19		20			
Electrical Engineering	22		23			
Mechanical Engineering	10		23			
Mining Engineering	3		2			
Structure Design	..		2			
		67		93		
Junior Class—						
Agricultural Engineering	22		32			
Ceramics	1		3			
Chemical Engineering	..		1			
Civil Engineering	32		38			
Electrical Engineering	35		45			
Mechanical Engineering	30		36			
Mining Engineering	4		...			
Structure Design	..		5			
		124		160		
Sophomore Class—						
Agricultural Engineering	40		23			
Ceramics	2		1			
Chemical Engineering	1		14			
Civil Engineering	47		50			
Electrical Engineering	58		64			
Mechanical Engineering	44		46			
Mining Engineering	..		3			
Structure Design	2		10			
		194		211		
Freshman Class—						
Agricultural Engineering	56		29			
Ceramics	1		4			
Chemical Engineering	17		17			
Civil Engineering	76		52			
Electrical Engineering	101		91			
Mechanical Engineering	77		60			
Mining Engineering	3		4			
Structure Design	15		23			
		346		280		
Specials—						
Agricultural Engineering	2		...			
Civil Engineering	1		...			
Structure Design	3		1			
		6		1		
Irregulars—						
Agricultural Engineering	1		...			
Civil Engineering	..		1			
		1		1		
Non-Collegiate—						
Agricultural Engineering	3		...			
Vocational Work in Engineering	62		39			
		65		39		
Winter Short Courses—						
Engineering	27		134			
Painters	57		...			
		84		134		
			887			919

*The regular Winter Short Course was not held on account of the foot and mouth disease.

4. Division of Home Economics:						
Senior Class		67		75		
Junior Class		68		96		
Sophomore Class		139		156		
Freshman Class		249		211		
Specials		4		4		
Irregulars		3		4		
Non-Collegiate Two-Year		51		58		
Winter Short Course		22		229		
			594			833
5. Division of Industrial Science:						
Senior Class		14		13		
Junior Class		6		15		
Sophomore Class		12		25		
Freshman Class		39		45		
Specials		9		8		
Irregulars		4		4		
Music Students—						
Juniors	1					
Freshman	2					
Non-Collegiate	154		121			
		157		121		
			241			231
6 Division of Veterinary Medicine:						
Senior Class		16		11		
Junior Class		11		20		
Sophomore Class		20		30		
Freshman Class		34		47		
Irregular				1		
			81			109
7. Summer School:			601			1,055
Total			3,973			6,249
Less Duplicates:						
Agricultural Engineering		136		104		
Animal Husbandry and Veterinary Medicine				1		
Industrial Science and Veterinary Medicine				3		
Non-Collegiate Music		92		81		
Summer Session—						
In both sessions			163			
Regular college students		116	233			
				396		
Winter Short Courses—						
In two sessions			33			
Regular college students			129			
				162		
			344			747
			3,629			5,502



The graphic on the adjoining page shows the student enrollment by counties for the year 1915-16, all classes of students, including those in attendance at the Winter Short Course, being considered. The number from Story County, in which county Ames is located, is large because a large number of parents come to Ames to live while their children are attending college.

The table of attendance shows that the enrollment of students in four-year agricultural courses in 1915-16 was more than double that of six years ago. This is the natural result of the increasing interest in agriculture and agricultural education. The enrollment in home economics in 1915-16 was more than four times that of six years ago. This remarkable increase is due to the increasing interest in a subject whose application to home life is becoming more and more direct and useful; and it is also due largely to the new requirements as to training of teachers for high school work. The enrollment in engineering in 1915-16 was greater than in the preceding year and, including agricultural engineering, it exceeded that of any previous year. This is a favorable showing in comparison with the records of other institutions having large numbers of engineering students.

The work of this college, as of all land grant colleges, is related particularly to the natural resources of the country. We are coming to appreciate that the life of our country depends on these natural resources and that they must be properly used and conserved if our record is to endure. We boast that we are the richest nation in the world, but we have only recently come to realize that our wealth is merely transformed natural resources, and that our bases of supply of some of these are becoming depleted. In 1850 seven million tons of coal were mined in the United States—about the same quantity as is now mined annually in Iowa. This represented an average of .28 ton per capita. In 1902 the annual output was about three hundred million tons, and it was thought by many that we had reached the maximum, but it has risen to over five hundred million tons a year, an annual average of more than five tons per capita of population. We have been informed by the highest authorities that the end of our coal supply is within sight. We must learn to stop the enormous unnecessary waste of coal and to substitute other sources of heat, light and power. We must learn to use the water power which is now wasted.

The supply of iron, also, is decreasing rapidly. The rate of use of iron has increased tremendously during the last few decades; and,

at the present rate of use and increase, the last of our best iron ore will be reached within a few decades. Here, again, there is enormous unnecessary waste which must be corrected through the aid of science, and substitutes for iron must be found and introduced.

It may be said that Iowa is not directly interested in these matters, but she is very deeply interested. Iowa uses enormous quantities of coal and iron and is as much concerned in the proper conservation of these natural resources as is Pennsylvania or Ohio.

The waste of forests is almost incredible. Because of necessity, ignorance, selfishness and wastefulness, our great supply of lumber has been reduced about one-half. The woods of Iowa are vitally concerned. The farmers of this state use annually 25,000,000 fence posts, enough to build a fence line as long as three times around the earth at the equator. Men of science must determine and teach how to lessen the waste of lumber, how to secure more lumber without increasing the forest or woods area, how to find substitutes for lumber, how to protect it from pests and destroying processes and how to utilize its by-products. Our country must experience a profound change in its attitude toward the woods and forests, for they have to do with climate, temperature, water storage, floods, and soil fertility, as well as furnishing an invaluable commercial product.

The greatest natural resource of all is soil fertility. After a short period of a century and a half, we must now look with shame on large areas where the soil fertility has been depleted to the point where it is difficult to grow good crops. Our record-breaking yields of agricultural products are carrying away plant food which long has been in Iowa soils. We point to other states where continued cropping has seriously depleted the soil fertility, but the same process is taking place in Iowa. It is for men scientifically trained to teach systems of farm management which will avoid such losses. President Van Hise states that the problem of restoring our infertile soils is the most fundamental, the most far-reaching, and the most important of the problems of conservation which confront the nation; and he emphasizes the fact that this problem must be worked out and that this can be done only through investigation and education. We suffer heavily, also, on account of pests which attack the crops and animals in process of growth and after maturity. These pests come in ever increasing numbers. Animal diseases take a toll of nearly one million dollars daily in the United States. The average losses on this account in Iowa amount to about two and one-half million dollars a month. The greater the population, the more we must contend against such losses, and the only weapon known is the application of science to practice.

Another resource which deserves to be classed with the natural resources is our home life. Its problems are not less intricate than the problems of soil fertility and coal and iron. Our national welfare and spirit depend largely upon the character of the homes. To make the homes healthy and attractive, to provide food that is wholesome and economical, to instruct young women in the fundamentals of home life and to teach them so that they may give this instruction to others,—these things are included with the responsibilities toward the natural resources as the great function of the land grant college. That the people are coming to realize these facts more and more is shown by the increasing attendance at land grant colleges.

EFFICIENCY LECTURES.

The innovation of efficiency lectures for all freshman students has proved to be valuable, and these lectures are being continued. Many new students do not know how to study. They cannot concentrate their attention upon their lessons. Frequently the students themselves are most keenly aware of this fact and most anxious to overcome it. To assist them a course of efficiency lectures is given in the first semester of each year. In the fall of 1914 and the fall of 1915 these lectures and the speakers were:

Fall 1914.

September 22—Student Economics. By President Pearson.
September 29—College Spirit. By Mrs. S. A. Stevenson, of Iowa City.
October 26—Student Habits. By Rev. Howland Hanson, of Des Moines.
October 27—Student Hygiene. By Dr. C. G. Lang.
November 10—Disease Carriers. By Dean R. E. Buchanan.

Fall 1915.

September 21—Student Economics. By President Pearson.
October 5—I. S. C. Efficiency Ideals. By Dean E. W. Stanton.
October 19—College Spirit. By Mrs. Anna Burdick, of Des Moines.
November 2—Disease Carriers. By Dean R. E. Buchanan.
November 16—Sex Hygiene. By Dr. F. N. Seerley, of Springfield, Mass.

LECTURES OF GENERAL INTEREST.

The Board of Education believes that students taking technical courses should have opportunity to hear lectures on topics of general and timely interest, and for this purpose appropriated $600

annually during the biennium. The following lectures were given under this arrangement:

Year 1914-1915.

October 23—William Bruce Leffingwell. Illustrated Lecture, "The Pacific Northwest."

November 3—Zona Gale, Portage, Wisconsin. Reading, "Exit Charity," a "Friendship Village" story.

November 21—Dr. Woods Hutchinson, New York City, "Foods and Foolishness."

December 14—Katherine Jewell Everts. Lecture-Reading.

March 9—Prof. Edward B. T. Spencer, Grinnell College. Illustrated Lecture, "Cliff Dwellings of the Mesa Verde of Southwest Colorado."

April 6—Fred J. Lazell, Cedar Rapids. "The Pageant of the Year."

April 20—Dr. Graham Taylor of Chicago Commons. "Mobilization for Peace Suggested by War."

April 27—President George E. Vincent, University of Minnesota. Convocation Address, "An Ancient Dream."

May 4—Professor G. W. Stewart, State University of Iowa. "Some Recent Conquests in Physics."

Year 1915-1916.

October 12—Dr. Henry S. Curtis, Olivet, Michigan. "The Play Movement and Its Significance."

October 26—Gilbert McClurg, Colorado Springs, Colorado. Illustrated Lecture, "Empire of Peak, Park, Pass, and Plain."

November 4—Dr. Jenkin Lloyd Jones, Lincoln Center, Chicago. "Who Are the Cultured?"

November 19—Dr. Harry W. Laidler, New York City. "War and Socialism."

February 14—Mary Antin, New York. "The Meaning of Americanism."

March 23, 24, 25—Ex-President William Howard Taft, Kent Professor of Law in Yale University. "Our World Relations," "The Military and Naval Defenses of the United States," "The Duties of Citizenship."

March 29—G. Lowes Dickinson, Lecturer and Fellow of King's College, Cambridge University, England. "International Reconstruction After the War."

April 8—Prof. S. H. Clark. "King Lear."

April 11—Prof. W. S. Franklin, Professor of Physics, Lehigh University, South Bethlehem, Pa. "Bill's School and Mine."

April 28—Prof. E. B. T. Spencer, Grinnell College. "A Month in and Around Rome."

April 28—Dr. Max Witte, State Hospital for the Insane, Clarinda, Iowa.

ORGANIZATIONS.

The students have many organizations of their own, including technical societies, literary societies, fraternities, sororities, the Y. M. C. A. and Y. W. C. A., and general organizations.

The college long has had a rule covering eligibility to fraternities and sororities. It is as follows:

All students who join fraternities must be at least entitled to sophomore classification with neither a condition nor a not pass in any freshman work, and have an average of 82.50 or above.

Any student having a low average grade during his freshman year due distinctly to illness may be initiated at the end of his Sophomore year provided his average grade for his sophomore work is 82.50.

Any student before being initiated must obtain from the Registrar a written permit showing that he has met the above conditions.

Some objection has been raised to this rule on the ground that it discriminates against the fraternities, but the faculty has felt that it is fair and in the interest of the organizations as well as the college as a whole and has not been disposed to modify the requirements. This view is held, also, by prominent fraternity members, including alumni.

RELIGIOUS LIFE.

The great majority of students in this college have been reared in Christian homes and very many of them are church members. When students first register they are requested to state the church of their membership or preference. The following data have been collected for the last year of the biennium:

Armenian	1
Baptist	162
Catholic	142
Christian	193
Christian Science	20
Congregational	360
Dunkard	2
Episcopalian	73
Evangelical	6
Jewish	4
Lutheran	132
Methodist	892
Mormon	10
Presbyterian	467
Quaker	18
Reformed	4
United Brethren	27
Unitarian	13
Universalist	6
Christadelphian	1
No preference given	345
Total	2,878

The whole college community has been fortunate in the opportunity to hear the strong speakers, representing different religious denominations, who have appeared at the Sunday morning chapel services. These services have been well attended. Often the hall, with a seating capacity of nearly 900, has been overcrowded and those coming late have been kept out. The names of speakers at the chapel are given under College Functions.

The Y. M. C. A. and Y. W. C. A. continue to do excellent work. They are both newly officered and they are responding to the many demands made upon them. These helpful organizations should have larger and better quarters than can be afforded in the limited space at Alumni Hall.

A large number of students attend the Ames churches, and some take out membership during their residence here. The student pastors deserve special mention because of their helpful work.

ROOMING FACILITIES.

Although many new houses have been built in Ames and in the vicinity of the college, an overcrowded condition obtains in reference to rooms for students. Rooms are in such demand that the college has not found it possible to exercise supervision sufficient to exclude rooms which are not suitable for student quarters. The construction of another new dormitory for young women students has proved a great relief. The young ladies and their parents particularly appreciate the well lighted and well located rooms, together with wholesome meals, all of which are under the supervision of the college. Additional dormitories are greatly needed.

RELATIONS BETWEEN LOWER CLASSES.

The action of the Class of 1916, in its Sophomore year, which reversed the traditional attitude between sophomore and freshman classes, changing it from antagonism to friendliness, has borne good fruit. Efforts are being made to develop friendly relations between the lower classes so that this may become a fixed tradition of the college.

The following resolutions passed by the Class of 1918 in the Fall of 1914, when Freshmen, expressing appreciation of the cordial treatment extended to them by the Class of 1917, and the resolutions passed by this same class in the spring of 1915, agreeing to extend similar courtesies to the incoming class in the Fall of 1915, indicate the progress that has been made in this direction:

RESOLUTIONS PASSED BY THE FRESHMEN CLASS, FALL 1914.

Whereas, The Class of 1917 has expressed itself in favor of friendly relations with our class, by having a committee of their class meet and extend a cordial welcome to members of our class who arrived in Ames as strangers, and assist us in finding rooms, and otherwise;

And Whereas, The whole college has made it as easy and as pleasant as possible for us, thus continuing toward the entering class a policy that was started at Iowa State College one year ago;

Therefore, Be It Resolved, That this Class of 1918 hereby expresses its special appreciation to the Class of 1917 and its thanks to all who have assisted us, and also expresses its desire to continue friendly relations with the upper classes and our purpose to continue and emphasize this new policy toward those who enter in next year's class.

Sept., 1914. C. R. FARMER, *President*.

RESOLUTIONS PASSED BY THE FRESHMEN CLASS, SPRING 1915.

Whereas, The Classes of 1916 and 1917 having adopted resolutions of friendliness and helpfulness toward the members of the Class of 1918; and,

Whereas, These resolutions having been faithfully adhered to; and,

Whereas, We, the Class of 1918, having enjoyed the most cordial treatment can do no more than further this noble policy toward the classes to follow,

Therefore, Be It Resolved, That this Class of 1918 express its appreciation and thanks to the Class of 1917. Also, that we, the Class of 1918, shall do all in our power to establish this custom of friendliness between sophomores and freshmen in Iowa State College; furthermore, a committee of thirty-five (35) shall be appointed to act as a Reception Committee to the members of the Class of 1919, and to extend to them all aid possible.

NATE BOVEE, *President*.
MADGE NEWCOMER, *Secretary*.

May, 1915. Class of 1918.

STUDENT REPAIR FUND.

The board has continued to set aside $2,000 a year from the amount paid by the students as incidental fees, this fund to be drawn upon to pay for any loss of property or damage to property due to petty thefts or unnecessary breakage, and whether these losses are due to students or not. The fund of $2,000 is drawn upon to make good these losses, and at the close of the year the students are given the opportunity to determine in what way the balance should be expended in connection with improvements upon the campus or for college welfare. By thus taking the students into partnership, their interest has been increased, with the result that the kinds of losses mentioned have been reduced to a mini-

mum; and nearly all of the fund has been available for the kind of improvements noted.

The faculty advisers and the co-operation between faculty and students through various joint committees, as described in my previous report, are being continued with good results.

SELF-SUPPORT.

A large number of our students are earning their own way, wholly or partly. They wait on table for their board and take care of furnaces and clean sidewalks, etc., for room. They do miscellaneous labor jobs by the hour. Some are trained stenographers and they find irregular work in offices. Some are agents, and others are carrying on commercial work. Occasionally the question is raised as to whether college people should be permitted to engage in commercial work in competition with persons who are giving their entire time to such work. It hardly seems that such a question could be seriously considered. If a young man is willing to do double work in order to secure an education, he ought to be encouraged in every possible way. Looking at the matter broadly, it is easy to see that society would gain nothing by preventing students from earning money in this way. If they were prevented, their alternative would be to stay out of college and go into business anyway, either here or elsewhere. Instead of saying that the students are engaged in business to the detriment of business men, might it not be better to say that some business men by doubling their efforts are securing a college education at the same time they are conducting a business? It is very noticeable that the character of young men who are willing to do double work in this way is the kind that the state of Iowa wishes to develop. The average citizens are learning more and more to co-operate, and it may be expected that in the future in this college, as in other colleges and universities, groups of students will more and more engage in commercial activities for the accommodation of their fellow students and for their own benefit in securing their education.

OCCUPATION OF GRADUATES.

In my last report, statistics were given to prove that our graduates follow the lines of work for which they are trained. Frequently the claim is made that graduates from agricultural courses do not go into farming, but the facts show the contrary.

More and more, graduates of this college are being called for to fill teaching positions, and the records often show these positions are only temporary. In a little while the young men are likely to get into their technical work, and after a few years most of the young women have become homemakers.

The faculty Appointment Committee reports that in the year 1914-15, 113 were placed in positions, 97 of this number being in Iowa. 59 entered upon positions including some phase of home economics work, and 44 entered upon positions including agriculture. In 1915-16, 120 were placed in positions, 103 of this number being in Iowa. 60 took positions including home economics work, and 49, positions including agriculture.

NAMES OF GRADUATES

The names of those receiving degrees and certificates during the biennium are as follows:

GRADUATES JANUARY 29, 1915.

Degree—Bachelor of Science in Agricultural Education.

Wilbur H. Bender
Horace B. Hawthorn
Harry Mervyn Lackie
James H. Seymour
Gilmore D. Swaney
Shirley N. McKinsey

Degree—Bachelor of Science in Agronomy.

Knute Espe
Gladys Gifford
Ernest G. Rudolph

Degree—Bachelor of Science in Animal Husbandry.

John Arthur Burgess
Austin Allyn Dowell
Arthur A. Frevert
Roger L. Hanscom
Edwin E. Hawkins
John Christian Jenson
Charles Ross King
Bert Cecil Bougher

Degree—Bachelor of Science in Forestry.

Irwin T. Bode
Harry E. Hansel
William Pollock Harley
Lowell Eben Hicks

Degree—Bachelor of Science in Agricultural Engineering.

William E. Weston

Degree—Bachelor of Science in Civil Engineering.

Ira Purdy Griffen
William A. Abram

Degree—Bachelor of Science in Electrical Engineering.

Joseph Ernest Richmond
Roscoe Schaeffer

Degree—Bachelor of Science in Home Economics.

Ina Ethel Platts

Certificate—Two Year Non-Collegiate Course in Agriculture.

Lloyd Edwin Hudson
Herbert Lane

GRADUATES, JUNE 3, 1915.

Degree—Bachelor of Science in Agricultural Education.

Ezra Colquhoun
Anthony Roy Combs
Ernest F. Cramer
William John Cromer
Enos S. Fyler
James W. Haynes
Charles Capwell Lake
Clifton C. Scott
Harvey Marshall Swift
Elmer J. Taintor
J. Verne Ellis

Degree—Bachelor of Science in Agronomy.

Clifford C. Brimmer
Charles G. Johnson
Raul D. Gonzalez
John Milford Raeder
Richard Wesley Reep
Roy Olin Westley
Charles Williams Clarke
Paul Macy Wolf
George Edward Corson
John C. Eldredge
Adlai Goldschmidt
Fred A. Koenig
George Harlan Lewis
Robert John Miller
Allan McCosh Smith
Cecil Smith
Lloyd Bertram Snyder
Stephen Creasey Thompson

Degree—Bachelor of Science in Animal Husbandry.

George W. Avery
Horace Molyneaux Clark
Rollin B. Berry
Ralph Wilson Berry
Frank Horace Bliss
John Harrison Swan
George J. Blythe
Henry Oliver Schloeman
Chester A. Bonnewell
Allen G. Thurman
Lew Parks Reeve
William J. Breakenridge
Henry Alexander Dobbin
Henry C. Burnstedt
O. M. Camburn
Neal Dow Campbell
Jesse Murray Dowell
Earle Edwards
Allen Thurston Flint
Frank Elmer Fox
Gale M. Faint
Owen Alvin Garretson
Homer Harrison Mattison
Charles Edward Wiley
Marvin H. Hargrove
Roscoe F. Harrison
Glenn Summers
George Lewis Thompson
Joseph R. Hawkins
James D. Helmick
Roger M. Hopkins
Reuben E. E. Hubbard
Thomas Lingle
Fred Samuel Hultz
Percy E. Wood
J. Marshall Hunter
Arthur Harold Pickford
Earl Beach Krantz
Ray Seely McWhorter
Paul C. Tomlinson
Clarence R. McBride
Jean O. McClary
Sylvester George Vickerstaff
Charles B. MacDonald
Richard S. Stephenson
Kenneth McGregor
Wellington Scott McMahon
Rex Earl Yockey
Charles O. Meltzer
Worth William Merritt
Howa Cheney Woodbury
Harold Franklin Miller
Robert Hart True
Van David Peterson
Paul Birch Paxson
Elbridge Gerry Potter
John Lyman Van Anda
Robert Paul Warden
Burton Fonda Stacy
Hugh B. Woodroffe
Harold Franklin Wise

Degree—Bachelor of Science in Dairying.

Edward S. Bittman
Glenn H. Campbell
Harrison Betts Wilson
Emery Fox Goss
Norman Everett Olson
Joseph Clarence Wenger
E. A. Seiler
Theodore Thorson

Degree—Bachelor of Science in Dairying—Continued

Chester Allen Goss
Arthur D. Henss
J. F. Thomas
Elgin Stanley Warren
Ardo Wayne Joy

Degree—Bachelor of Science in Horticulture.

John Hampden Allison
Frank Hainer Beach
Robert Myron Clark
Albert James Diserens
Roland Stewart Hoyt
S. G. Lake

Degree—Bachelor of Science in Forestry.

Harley H. Sage
Robert Porter Smith

Degree—Bachelor of Science in Agricultural Engineering.

Charles Ralph Armour
Deane G. Carter
Arthur W. Clyde
Leonard J. Fletcher
O. Dean Davidson
Floyd G. Hodsdon
Delbert Valentine Gordon
H. Harold Sunderlin
Henry Eugene Josselyn
Ralph E. McConnell
George Dalton McMahon
Bertice Raymond Mullen
Silas Drew Snyder
Glen W. Johnson

Degree—Bachelor of Science in Chemical Engineering.

Edwin F. Barnum

Degree—Bachelor of Science in Civil Engineering.

Fredric Horace Anthony
Charles Alton Baughman
Paul Marshall Black
Frederick Cooper Schneider
Charlie B. Grover
William Irvine Cool
Charles Lloyd Minnis
Chester W. Cunningham
Sidney W. Gaylord
Harry A. Walker
Raymond L. Dickinson
John Nash Mac Vicar
Vaughn Worthington Enslow
Merle Everette Johnson
Elmer Lawrence Kaser
David H. Gilchrist
Homer A. Sears
Stough A. McGavern
Howard Orr Graham
William MacGregor MacGibbon
Thomas R. Perry
Carl Y. Sernstrom
Vincent M. Reese
Van Stuart Walker

Degree—Bachelor of Science in Electrical Engineering.

Earl Granville Anderson
Elmer Godown
Peter C. Jansen
Bayard C. Bangham
Thearl D. Essig
Edward Clarence Seeds
Clarence Albert Butcher
Gates Harpel
John Dockendorf
Oliver Morgan Peaslee
Albert E. Dudley
Hugh A. Scarborough
Theodore V. Houser
Marion Martin Kenneally
Willis Fenton Hudson
Clarence Franklin Nagle
Milton W. Shupe
A. E. Lee
G. T. Pearce

Degree—Bachelor of Science in Mechanical Engineering.

Theodore Aulmann
C. W. Beese
Robert Jackson Horne
O. Dean Davidson
Paul Woodard Eells
Alfred Claire Gunsaulus
Frank Henry Hunefeld
H. C. Stuckenbruck

Degree—Bachelor of Science in Mining Engineering.

Guy Horton
Charles Orville Simpson
Charles C. Stevens

Degree—Bachelor of Science in Home Economics.

Grace Hill Allen
Ruth Avery
Etta Barnhart
Constance Beardshear
Edith Clara Bliss
Edith Daisy Brownell
Mary Louise Buchanan
Beula Buffington
E. Gladys Cessna
Hazel Cessna
Lucy Sheldon Clark
Edith F. Cole
Jessie V. Coles
Ruth Conrad
Elsie Mae Cretsinger
Anna M. Deacon
Margaret Noble Deischer
Martha Dew
Isabel Dyer
Sarah M. Field
Edna Belle Frye
Genevieve Eunice Furry
Mariel Hopkins
Mabel Jeannette Helmick
Valona Florida Helmick
Florence Mae Holm
Mae Irvine
Flossie Mae Lewis
Vivian Adele Linse
Luella E. Madson
Amy L. Middleton
Mary E. Montgomery
Mabel Vesta Murphy
Ruth McClintock
Leone McGhee
Mabel McGowan
Winifred McHose
Doris Marie Pammel
Laura Eliza Parks
Louise Peck
Margaret Anne Penick
Eunice R. Peters
Wilma Atherton Phillips
Jessie Laurine Pierce
Jeanette M. Prusia
Myra Riggs Reeve
Irene Ringheim
Mary E. Roberts
Marie A. J. Rudnick
Ada Claire Ryan
Abigail E. Shumway
Clara Belle Steen
Lottie E. Ward
Marion Wentworth
Jennie L. Iverson
Marie Johnson
Mary Clara Kelly
Majorie Ketchum
Leone Clarice King
Gratia C. Kinney
Bertha E. Lamson
Mary E. Lemley
Mary White
Annie Faye Wilson
Hortense Elizabeth Wind
Ethel H. York
Bess Watson
Emma Lou Wilson
Clarice Vincent Horton

Degree—Bachelor of Science.

Winifred Perry
George P. Pritchett
Orville Carl Schultz
Ira W. Bouck
Elizabeth Barbara Canaday
Harold E. Carlson
Mabel Berde Field
Muriel Kathryn Griggs
Earl Albon Hewitt
George A. Minges
Laura Niles
Nellie L. Noble
Mildred Margaret O'Connor
Julius H. Peters
Olive Mae Stewart
Florence Sarah Willey
Floyd Wambeam

Degree—Doctor of Veterinary Medicine.

Norman W. Ackerman
Newton Rutherford Allen
Raymond Hurlbut Aull
Edmund Burke
Chauncey Collins
Oness Harry Dixon, Jr.
Alva Lybarger Howard
Edwin Emmett Hites
Charles William Likely
John Meredith Lloyd
Harold L. McMillan
Mac Leo McLaughlin
Homer Samuel Perdue
Laurens Day Potter
Loron Ray Potter
Earl Raymond Truax

Degree—Master of Science in Agronomy.

Franklin Elmer Allison
Louis Joseph Henrich
Herwegh Joseph Lechner
Francis Edward Longmire
William Westley Stanfield
Franklin Scott Wilkins
Ross Leon Bancroft
Thomas Harold Benton
Eric Eyre Eastman
Harlan Woodbridge Johnson
Lyle Jay Pletcher
Elbert Bruner Reynolds

Degree—Master of Science in Animal Husbandry.

J. C. Cort
G. Ward Goodrich
A. C. McCandlish
Aubrey J. Swift

Degree—Master of Science in Dairying.

Mogens R. Tolstrup

Degree—Master of Science in Home Economics.

Zelma Zentmire

Degree—Master of Science.

Helen Alice Burling
Frederick Eberson
H. S. Coe
William Diehl
Hiram Smoots Doty
John Hall Buchanan
Horace B. Hawthorn
John Howden Fraser
George A. Williams
Robt. Harkness Hix

HONORARY DEGREES.

Degree—Doctor of Veterinary Medicine.

Marion Dorset, B. S., University of Tennessee, 1893, and M. D., Columbian University, D. C., 1896.

Degree—Doctor of Engineering.

La Verne W. Noyes

CERTIFICATES OF EMINENT SERVICE.

Honorable W. D. Hoard, Fort Atkinson, Wisconsin.
Mr. Charles G. Patten, Charles City, Iowa.

PROFESSIONAL DEGREES.

Degree—Master of Agriculture.

Merritt Greene
Evan L. Morris
Martin Luther Mosher

Degree—Agricultural Engineer.

Daniels Scoates

Degree—Ceramic Engineer.

Milton F. Beecher

Degree—Civil Engineer.

Eugene H. Bruntlett
Harry Kimball Davis
Arthur Garfield Hall
Roland Schannel Wallis

Degree—Electrical Engineer.

Lyle H. Corlette
Arthur Henry Hoffman

Degree—Mechanical Engineer.

Arthur Charles Bullen
Herbert W. Wagner

MUSIC DIPLOMA.

Gladys Garton
Florence Luceil Key

Certificates—Two Year Collegiate Agriculture.

George Dennison Artley
John Thomas Ashford
George Edward Fahey
Hilman Otto Gaarder
Delmar Davis Latham
Maurice Harry Manning
Lewis Francis Rogers
Robert Gayle White

Certificates—Two Year Non-Collegiate Agriculture.

Walter Edward Anderson
P. Edgar Applegate
Sylvester Austin
Henry Bakke
James M. Bolon
Joseph H. Bradford
Harold James Calvin
Ralph H. Crawford
Joshua Otto Gidel
C. R. Gochnour
Roscoe Stewart Gordon
Arthur C. Hanson
Harold M. Harter
Loring Thomas Hardy
Ralph S. Henry
Henry Oliver Hill
Milo C. Holck
Karl L. Kading
Lloyd E. Hudson
Ben W. Kelleher
Ralph W. Klopping
Herbert C. Lane
Harry Moorehead Laurance
Francis Gale McClean
Clair A. McCorkell
J. Howard McCurry
Albert Everett Newquist
Edwin M. Osborn
Carl George Phelps
Cecil A. Plato
George Gould Platt
Bruce M. Reed
Glen H. Sorden
Edward L. Steele
Russell James Teachout
Charles Thompson
Guy Edwin Toyne
Glenn O. Turner
Fred R. Walker
Lloyd P. Way
Frank E. Wilson

Certificates—Two Year Non-Collegiate Home Economics.

Edith Christy
Geraldine Maude Gillespie
Clara Beryl Kenyon
Grace Viola Trailer
Carrie Walter

Certificates—Two Year Non-Collegiate Vocational Engineering.

Edward E. Hogeland
Stephen W. O'Brien
Hugh Shellabarger

GRADUATES, JANUARY 28, 1916.

Degree—Bachelor of Science in Agricultural Education.

Carl B. Wilson

Degree—Bachelor of Science in Agronomy.

Charl Louis Roux de Wet
Sigurd Hansen
Paul Charles Pownall
Harold Worthington Turpin

Degree—Bachelor of Science in Animal Husbandry.

Lawrence E. Dool
Lorne T. Earl
Lee A. Kellogg
Lysle Wayne Renne
Milton Harrison Scott
Elmer V. Walter

Degree—Bachelor of Science in Horticulture.

Young Bing Li

Degree—Bachelor of Science in Agricultural Engineering.

Ralph L. Patty

Degree—Bachelor of Science in Civil Engineering.

Ray Elbert McCurdy

Degree—Bachelor of Science in Home Economics.

Mary Ruth Little

Certificate—Two Year Non-Collegiate Course in Agriculture.

Carl C. Bonnicksen
Adelbert H. Hanna
Harold Green McGee
Jay Russell Melick
Clarence John Hugo Nus

GRADUATES, JUNE 8, 1916.

Degree—Bachelor of Science in Agricultural Education.

William Ferris Cramer
Vernon Clay Gibson
Herbert M. Hamlin
Tura Alice Hawk
Raymond Charles Kelly
John E. Merrill
Claude C. Minteer
E. Norman Norland
Charlie H. Obye
Merlin L. Seder
Andrew N. Smith
William Wesley Stanfield
Herbert B. Swanson
Alfred Churchill Wilcox

Degree—Bachelor of Science in Agronomy.

Guy H. Atwood
O. Russell Bentley
Robert H. Birlingmair
George Franklin Booker
Robert Gauvain Cambre
William Ferris Cramer
Russell C. Gibbs
Will S. Gregg
E. G. Hayward
John Albert Hendriks
Leslie M. Hurt
J. Carl Johnston
Clarke Johnston
Harry Arthur Karr
Francis R. Kerrigan
Nile Clark Kinnick
John Horace Kraft
Charles S. Lamson
Alexander James Levi
Harral A. Longworth
Reid Blaine Lyford
Floyd E. McCray
Cecil Eugene McDonald
William T. Maakestad
Emil J. Mildenstein
LuVerne Merton Mathewson
Marshall P. Miller
Alexander Robert Moffat
Arthur R. Pearson
Henry R. Richardson
Lester Sheparagain
Edward D. Shivers
Hans Edward Skott
John B. Smith
John Daniel Swiney
A. O. Syverud
Hector Velez Otero
Scott Alan Walker
Jay Whitson

Degree—Bachelor of Science in Animal Husbandry.

Ira W. Arthur
Henry Page Aydlette
Franklin Fisk Barker
Walker Crookham Beach
Raymond B. Becker
Charles Millard Bilderback
Dea Jonathan Brasted
Andrew James Brown
Fred V. Brownell
Nathaniel Charles Burhans
Fred F. Clark
Jay William Clayton
Lloyd Garrison Crouch
Howard P. Dunlap
Ralph Marshall Edwards
Clair Gladstone Mason
Ralph Hart Moyer
David A. Noble, Jr.
Robert M. Okey
Leslie L. Parsons
John Sigwalt Porterfield
H. Earl Rath
Thomas Humphrey Roberts
Vincent Bradley Rodgers
Edward Ruesink
John L. Shugart
Day E. Slingerland
Andrew N. Smith
Edgar S. Smith
F. Lee Stewart

Degree—Bachelor of Science in Animal Husbandry—Continued

J. Parvin Eves
John Carleton Galloway
Harry C. Handy
Mark Gordon Hazard
James Oscar Hodgson
Russell Merton Holbrook
Millard Fillmore Jackson
W. Deweese Johnson
Robert James McCausland
Harold Lyman McKinley
Hugh G. McTavish
Erich F. Stuewe
J. Clen Tallman
William Murdock Temple
Merton George Thomas
Elling Martin Torblaa
Fred Raymond Tucker
Otis Harrison Tuttle
Carmi Huston Van Anda
James Jackson Wallace
Charles Leffingwell Walp
Harold Julian Williams
Harry Burdett Winchester

Degree—Bachelor of Science in Dairying.

John Dent Arnold
Fred G. Bliss
Joe M. Eldridge
William A. Gordon
Arthur James Gude, Jr.
Robert C. Hibben
Robert Wallace Leffler
Albert Walter Reynolds
Edward G. Squire
Omar M. Strickler
Carl Arthur Vorhes

Degree—Bachelor of Science in Horticulture.

Arthur Hawthorne Carhart
Bernard B. Jones
Ellwood Jackson Meeteer
George Grigsby Moore
Glenn Marsh Smith
Irvin H. Vogel

Degree—Bachelor of Science in Forestry.

Hugh O. Cassidy
Harvey H. Cornell
Max Geisler
Glenn Charles Jones
Carrell C. McCarthy
Homer H. Plagge
Newton O. Plagge
William Raymond Rumbaugh

Degree—Bachelor of Science in Agricultural Engineering.

Howard Bertrand Bliss
Wilbur Drake
Carl Victor Englund
W. H. Farmer
Bennie Evelyn Gaylord
Martin H. Goede
Harry Hall
Frederick William Hawthorn
Verne William McClung
Elmer Leroy Merten
Howard E. Middleton
Richard C. J. Miller
Ralph E. Patterson
Ward Peterson
Merle Kenneth Reed
Earl W. Smith
Theodore Addis Toenjes
Edwin James Uhl
Justino Valdes y Jimenez
Melvin R. Watson
Alfred Reynold Williams
John Conrad Zimmerman

Degree—Bachelor of Science in Ceramics.

Osgood J. Whittemore

Degree—Bachelor of Science in Chemical Engineering.

Raymond S. McMullin
Harold Peregoy Roberts

Degree—Bachelor of Science in Civil Engineering.

Ralph J. Boomer
James Neal Cook
Robert Park Cordiner
William S. Cordiner
Harlan Belden Crane
Ralph James Freshour
Wm. Mortensen
Mont C. Noble
Harry Wood Phelps
Waldo Justin B. Porter
Paul Wayne Riedesel
Fred D. Smith

Degree—Bachelor of Science in Civil Engineering—Continued

Peter Francis Hopkins
George Stanley Huxtable
Wayne Allen Kivell
Tauge Frederick Matson
Alexis Erling Stoddard
Robert Thornburg Summers
Homer D. Susong
John M. Tipple
Ellsworth Young

Degree—Bachelor of Science in Electrical Engineering.

Harold Bruce Alden
George Eduard Beck
James Donald Benson
James E. Blake
Ralph A. Brady
Donald Lloyd Bruner
Percival John Burrill
Abner Ignatius Butler
Horace Wayne Cash
Harold Louis De Bar
Paul F. Gregg
Frank H. Hollister
Clarence Knapp Hood
Harold Austin Hoyt
Ivan Matthew Kirk
John J. Lamberty
Sebastian Joseph Landman
Edward K. Lewison
Homer Claude Meeker
John Bernard O'Rourke
Harry Vincent Parle
Joseph Byron Rawlings
Bruce Allison Rogers
Leon Arthur Winter

Degree—Bachelor of Science in Mechanical Engineering.

Robert Adam Althaus
John Paul Anderson
Edward Ernest Axthelm
Arthur Harl Boileau
Jerimiah Joseph Boltz
Harold N. Conrad
Ellis E. Covey
Willis Edmund Dexter
Russell Theodore Edwards
Harry Lewis Hilleary
Burt Eldon Hoover
Edward Thayer John
Earl Harry Kimball
Ralph Hull Kirk
Richard Cavanaugh McElroy
Paul Willard Pittman
I. L. Rush
Willard E. Russell
William August Thiel
Robert Merrill Woodworth
James Arthur Yungclas

Degree—Bachelor of Science in Mining Engineering.

John Brainard Fidlar
Fred W. Strandberg

Degree—Bachelor of Science in Structure Design.

Grant C. Caywood
Lewis E. Richardson

Degree—Bachelor of Science in Home Economics.

Ida V. Ahrens
Ida Adelaide Anders
Emma A. Baie
Adela Frances Bakewell
Sadie E. Barnhart
Helen Bass
Julia Ella Brekke
Estella Buffington
Eleanor Elizabeth Burnquist
Ella Laura Bussey
Ada Anne Cameron
Gladys S. Carson
Eva Lila Cox
Cecile Crittenden
Ruth Curtiss
Georgia Bernice Davis
Mary Helen Divine
Grace Howland Dewey
Eleanora Grace Herner
Ethel M. Hutton
Ava Louisa Johnson
Cora B. Johnson
Zoa Mary Keating
Rachel Knupp
Caroline C. Kriege
Lydia Eva Lacey
Beth Lemen
Maude Elizabeth Lewis
J. Myrl Lillard
Marjorie McCoy
Clara Gertrude Manhardt
Mina Mae Mulky
Alice Marion Peek
Lois Myrtle Rath
Alma Riemenschneider
Helen Rodgers

Degree—Bachelor of Science in Home Economics—Continued

Lenore Dunnigan
Lilian R. Eddy
Ruth English
Mary M. Forman
Lorraine Graham
Lula Gray
Ora M. Griffith
Hazel A. Grimes
Gladys Neville Hardy
Mary Elizabeth Harrington
Margaret Bertha Harris
Anna E. Hartmann
Nelle Harvey
Tura Alice Hawk
Linda Marie Heise
Diveda Henderson
Merle Ross
Madge Claire Ryan
Marjorie Sims
Ruth Agnes Somers
Margaret Barrette Stewart
Fern Stover
Margaret Taake
Ferne Taylor
Dessie Amber Walker
Florence Watkins
Eleanor Wilson
Eva Rose Wilson
Vera Wingerson
Clara Bell Woodroffe
Nora Workman
Marjorie Wyckoff
Marie Dorothy Young

Degree—Bachelor of Science.

Ward C. Bean
Beryl Berenice Benge
Ruby Leatha Donohue
Pauline A. Flint
Laura Drucilla Frick
Harriet May Kintzley
Rush Blodget Lincoln
Ralph Albert Moye
Esther Helen Rebok
Howard L. Sunderlin
Vivian Vertrees

Degree—Bachelor of Science in Bacteriology.

John C. Weldin

Degree—Bachelor of Science in Chemistry.

Joseph Wm. Hawks
Ava Louisa Johnson
Norville Clarence Pervier

Degree—Doctor of Veterinary Medicine.

Ernest L. Fitch
Lloyd William Fox
Albert B. Haskins
Harry J. Juzek
Tedmar M. Rossing
Ernest W. Smillie
Richard Elmer Surring
Robert Stanton Tillie
Orville Robert Whitney

Degree—Doctor of Philosophy.

Leslie Alva Kenoyer

Degree—Master of Science in Agronomy.

William Edgar Bowers
Washington Irving Brockson
George Edward Corson
Ernest Bernard Hitchcock
Ove Frederick Jensen
John Anthony Krall
Marion Elias Olson
Frederick Stanley Reynolds

Degree—Master of Science in Animal Husbandry.

Marvin Treadwell Aldrich
Dick Roy Forrester
James Edward Harper
Maurice D. Helser
Evan Liston Jenkins
James Richard Quesenberry
Louis Sawyer
Richard S. Stephenson

Degree—Master of Science in Dairying.

Wilbert A. J. Baril
Vincent D. Chappell
Nick Fennema
Emery Fox Goss

Degree—Master of Science in Farm Management.

Robert Jens Leth

Degree—Master of Science in Horticulture.

Leonard Ramsden Hartill
Withrow Reynolds Legge
Frederick L. Overley
Robert Lewis Post

Degree—Master of Science in Ceramics.

Martin Grover Babcock

Degree—Master of Science in Bacteriology.

George Gorham DeBord
Beryle Raymond Johnson

Degree—Master of Science in Botany.

Jacob Peter Anderson
J. L. Seal

Degree—Master of Science in Chemistry.

Myron Sallee Anderson
Sue Elizabeth Bailey More

Degree—Master of Science in Economic Science.

Charlotte Dryden
Gladys Porter
Olive Stewart
True G. Watson

Degree—Master of Science in Geology.

Frank Bonar Howe

Degree—Master of Science in Mathematics.

Grace Campbell
Mary B. Miller

Degree—Master of Science in Zoology.

Cecil Coyne Knoblock

PROFESSIONAL DEGREES.

Degree—Master of Agriculture.

Wayne Dinsmore
Charles Gray

Degree—Civil Engineer.

Charles Alton Baughman
Paul C. Campbell
Charles Dwight Curtiss
Rex E. Edgecomb
Claude Irving Grimm
Conde Balcom McCullough
William John Thomas
David Leroy Yarnell
Harley J. Gould

Degree—Electrical Engineer.

Dirk Schregardus
Calvin Johnson Adams

Degree—Mechanical Engineer.

Nis Leerberg
Sern Madsen
Arthur L. Sanford

HONORARY DEGREES.

Degree—Doctor of Science.

Herbert Osborn
Clarence Henry Eckles

Degree—Doctor of Engineering.

Willis Whited

CERTIFICATES.

Certificate—Two Year Non-Collegiate Course in Agriculture.

Fred H. Bailey	Glenn W. McNay
John L. Campbell	Arthur B. McQuern
Ernest A. Chappell	Alfred W. Meilike
Edwin P. Davis	Ezra W. Meredith
John J. DeValois	Arthur H. Meyer
A. J. Dickey	E. R. Moen
Bruce Doggett	Allen L. Mosier
Charles E. Eiler	Albert G. Nelson
Clarence H. Elliott	Howard V. Overley
Frank H. Enoch	Clinton P. Parker
James M. Flynn	Oscar E. Rein
Frank J. Eversman	Charles William Rogers
E. D. Fraser	George E. Schumacher
Gerald C. Gay	J. C. Serup
Harland J. Hillman	Ora A. Seydel
Laurens Jeffers	Paul T. Spies
Herman Koch	Leslie Steen
Roy M. Koster	Lowell F. Teachout
Ralph H. Lamoree	W. G. Van Auken
Roy S. Littlefield	Loyd H. Van Patten
Paul W. McCurdy	Harry M. Webster

Russell R. Whiton

Certificate—Two Year Non-Collegiate Course in Home Economics.

Gwenifred Andrew	Carrie Hill
Blanch E. Doggett	Mabel Edith Karr
Clare Estle	Marion Lieberknecht
Mary E. Flanagan	Dorothy Renaud
Edith May Garnes	Winnie H. Walsh

Certificate—Two Year Non-Collegiate Vocational Engineering Course.

William F. Graff	L. E. Konichek

Certificate—One Year Dairying.

M. E. McMurray

The following table shows the number of degrees granted in the different courses during each year of the biennium, and total number of degrees granted up to June 30, 1916.

SUMMARY OF GRADUATES.

	1914-15	1915-16	Grand Total to June 30, 1916
Number of first degrees granted	309	334	4,044
Present Courses.			
Agricultural Education	17	15	37
Agricultural Engineering	15	23	69
Agronomy	21	43	191
Animal Husbandry	69	59	462
Ceramics	0	1	6
Chemical Engineering	1	2	5
Civil Engineering	26	22	603
Dairying	13	11	90
Electrical Engineering	21	24	425
Forestry	6	8	22
Horticulture and Forestry	0	0	51

Horticulture	6	7	18
Home Economics	70	70	268
Industrial Science	17	15	540
Mechanical Engineering	8	21	351
Mining Engineering	3	2	58
Science and Agriculture	0	0	3
Veterinary Medicine	16	9	316
Structure Design	0	2	2

Courses discontinued.

Agricultural Course, leading to Degree B. S., 1872-1880	102
Agricultural Course, leading to Degree B. S. A., 1883-1888 and 1894-1904	86
Science and Agriculture Course, leading to Degree B. S., 1889-1890 and 1909-1911	47
General Science Course for Ladies, 1872-1880 and 1904	48
General and Domestic Science Course leading to Degree of B. S., 1887-99	93
General and Domestic Science Course, leading to Degree of B. Ph., 1899-1900	21
General and Domestic Science Course, leading to Degree of B. S., 1901-1908	78
Agronomy Course, leading to Degree B. Ag., 1891-1898	50

Higher Degrees	1914-15	1915-16	Grand Total to June 30, 1916
Master of Scientific Agriculture	20	27	103
Master of Science	10	14	66
Other Master Degrees	1	0	17
Doctor of Philosophy	0	1	1
Engineers	10	15	106
Honorary Degrees	2	3	19
Vet. Med. Advanced Degrees	0	0	4

THE TEACHING STAFF.

RESIGNATIONS.

It is necessary to report an unusually large number of resignations. While some faculty members have declined propositions made to them by other institutions which offered larger salaries than were being paid at this college, a large number of professors and teachers of lower rank have been induced to leave here to accept more remunerative positions elsewhere. The resignations have been so numerous and so frequent as to seriously handicap some branches of the work. It is expected that a reasonable number of the teachers of lower rank who are qualified to fill more responsible positions will accept appointments at other institutions, but an excessive number of these changes have occurred and, still more unfortunate, teachers occupying the leading positions in their departments have been attracted elsewhere. Corresponding positions in other institutions are paying from five hundred to a thousand dollars a year more than at this college. On account of better salaries, some of our faculty members have accepted positions in high schools but most of them have gone to other colleges and universities. Frequently the increase of salary was from 25 per cent to 50 per cent over what was being paid here, and often at these larger salaries they were given charge over a smaller number of students than they had been teaching at this college. This situation indicates the great need of better salaries which will enable the institution to attract and hold the best teaching talent. Authorities agree that an average salary of $2,000 is reasonable for many departments. At Iowa State College the average of most departments is far below this sum. One of the largest departments has an average of about $1,200.

The following resignations from the faculty occurred after the beginning of the biennium and before instruction began in the fall of 1914:

George A. Gabriel, Associate Professor of Chemical Engineering.
William E. Anderson, Associate Professor of Physics.
A. R. Hackett, Associate Professor of Physical Training.
Amos P. Potts Associate Professor of Ceramics.
George Ernest Hesse, Assistant Professor of English.

Elizabeth Moore, Assistant Professor of English.
Julia Ramsey Vaulx, Assistant Professor of English.
Arthur Taber Jones, Assistant Professor of Physics.
C. J. O'Neil, Instructor of Dairying.
Wallace Ashby, Instructor of Agricultural Engineering.
Hugo Beckmann, Instructor of Agricultural Engineering.
Jessie Mabel Hall, Instructor of Public Speaking.

The following named persons who gave instruction in either or both years of the biennium have resigned:

J. B. Davidson, Professor of Agricultural Engineering and head of department.
C. N. Arnett, Professor of Animal Husbandry.
H. H. Kildee, Professor of Dairy Husbandry.
Vina E. Clark, Librarian and Associate Professor.
Helen Monsch, Associate Professor of Home Economics.
R. H. Porter, Associate Professor of Mechanical Engineering.
Grace E. Russell, Associate Professor of Home Economics.
Ruth Michaels, Associate Professor of Home Economics.
John Ise, Associate Professor of Agricultural Economics.
S. E. Conybeare, Assistant Professor of Agricultural Journalism.
S. H. Dadisman, Assistant Professor of Agricultural Education.
O. T. Hokassen, Assistant Professor of History.
H. B. Kinney, Assistant Professor of Soils.
Grace Schermerhorn, Assistant Professor of Agricultural Education.
C. B. Williams, Assistant Professor of Agricultural Economics.
H. C. Hetzel, Assistant Professor of Horticulture.
E. W. Lehmann, Assistant Professor of Agricultural Engineering.
Jean MacKinnon, Assistant Professor of Chemistry.
Gail J. Fink, Assistant Professor of Chemistry.
Ross M. Sherwood, Assistant Professor of Poultry Husbandry.
Mabel Adams, Instructor of Home Economics.
Robert Bartholomew, Instructor of Music.
Lewis E. Bredvold, Instructor of English.
Harry James Eurtis, Instructor of Public Speaking.
Grace Campbell, Instructor of Mathematics.
A. F. Carlson, Instructor of Dairying.
Jesse R. Derby, Instructor of English.
Anna M. Earhart, Instructor of English.
Elsie A. Franck, Instructor of Home Economics.
Mark Havenhill, Instructor of Agricultural Engineering.
H .C. Hubbard, Instructor of Physical Training.
A. D. Latimer, Instructor of Mathematics.
H. J. Lechner, Instructor of Farm Crops.
John Luithley, Instructor of Dairying.
Kjaerstine Mathiesen, Instructor of English.
Agnes Mosher, Instructor of Mathematics.
Mary J. Pettit, Instructor of Home Economics.
A. E. Potts, Instructor of Dairying.

Bertha M. Riley, Instructor of Home Economics.
J. L. Seal, Instructor of Botany.
Lola Stephens, Instructor of Chemistry.
Lora Thompson, Instructor of Home Economics.
E. C. Volz, Instructor of Horticulture.
Edna E. Walls, Instructor of Home Economics.
R. B. Weirick, Instructor of English.
C. W. Beese, Instructor of Mechanical Engineering.
Fay Farnum, Instructor of Mathematics.
Walter Greene, Instructor of Music.
George W. Iverson, Instructor of Agricultural Engineering.
Frank J. McGrath, Instructor of Physics.
Kenneth McGregor, Instructor of Animal Husbandry.
Mary Miller, Instructor of Mathematics.
George F. Paul, Instructor of English.
John J. Reighard, Instructor of Economics.
Clara M. Williams, Instructor of Home Economics.
Elsie Mae Wilsey, Instructor of Home Economics.
H. W. Richey, Instructor of Horticulture.
J. T. Rosa, Instructor of Horticulture.
Avis Talcott, Instructor of Chemistry.
Nellie Fitzgerald, Instructor of Home Economics.
George J. Miller, Instructor of Dairying.
N. S. Golding, Instructor of Dairying.
D. E. Bailey, Assistant in Chemistry.
J. W. Bowen, Assistant in Chemistry.
R. M. Cole, Assistant in Chemistry.
John H. Fraser, Assistant in Zoology.
C. C. Kiplinger, Assistant in Chemistry.
Louis M. Larson, Assistant in Chemistry.
Lyle J. Pletcher, Assistant in Chemistry.
Gladys Rush, Assistant in the Library.
Elizabeth Sherwood, Assistant in the Library.
Irene Smith, Assistant in the Library.

DEATHS.

During the biennium there were three deaths in the instructing staff:

Charles G. Lang, Assistant Professor in the Physical Training Department.

Ernest Clay Coad, Assistant in the Agricultural Education Department.

Harriette Kellogg, Instructor in the Botany Department.

LEAVES OF ABSENCE.

Professor Henry Elijah Summers, head of the Zoology Department, has been granted leave of absence on account of illness.

Assistant Professor Chester B. Williams of the Economics Department was granted leave of absence for the year 1915-16 on account of illness. At the close of the year he resigned.

APPOINTMENTS.

Professors, Associate Professors, and Assistant Professors.

H. E. Munger, Professor of Farm Management.
R. K. Bliss, Director of Agricultural Extension and Professor.
Helen Monsch, Associate Professor of Home Economics.
Homer F. Staley, Associate Professor of Ceramics.
Allen H. Kimball, Associate Professor of Structure Design.
K. C. Ikeler, Associate Professor of Animal Husbandry.
R. A. Leavell, Associate Professor of Mechanical Engineering.
C. W. Mayser, Associate Professor of Physical Training.
W. E. Sealock, Associate Professor of Agricultural Education.
Harold Stiles, Associate Professor of Physics.
J. H. Atkinson, Assistant Professor of English.
R. R. Bolton, Assistant Professor of Veterinary Medicine.
F. H. Culley, Assistant Professor of Landscape Gardening.
S. H. Dadisman, Assistant Professor of Agricultural Education.
H. E. Ewing, Assistant Professor of Zoology.
L. B. Greenfield, Assistant Professor of English.
John Ise, Assistant Professor of Agricultural Economics.
G. E. Thompson, Assistant Professor of Physics.
Thomas F. Vance, Assistant Professor of Psychology.
Ross L. Bancroft, Assistant Professor of Soils.
Ollison Craig, Assistant Professor of Mechanical Engineering.
Gail J. Fink, Assistant Professor of Chemistry.
H. H. Gibson, Assistant Professor of Agricultural Education.
Jane A. Humphrey, Assistant Professor of Home Economics.
H. R. O'Brien, Assistant Professor of Agricultural Journalism.
R. W. Rogers, Assistant Professor of Physical Training.
Harter Walter, Assistant Professor of Physical Training.
N. L. Nelson, Assistant Professor of Veterinary Medicine.

PROMOTIONS.

Professors, Associate Professors, and Assistant Professors in Collegiate Work:

Catherine J. MacKay from Acting Dean to Dean of the Division of Home Economics.

Robert Earle Buchanan from Acting Dean to Dean of the Division of Industrial Science (In addition to other duties).

Harold Edward Bemis, appointed as Vice-Dean of the Division of Veterinary Medicine. This appointment was formerly held by Professor W. W. Dimock, but under a plan of rotating this position among the heads of departments in the division, Professor Bemis was appointed to succeed Professor Dimock.

Clare Newton Arnett, from Associate Professor to Professor of Animal Husbandry.

Percy Edgar Brown from Associate Professor to Professor of Soil Bacteriology.

Henry Herbert Kildee from Associate Professor to Professor of Animal Husbandry.

T. Radford Agg. from Associate Professor to Professor of Highway Engineering.

Allen Holmes Kimball, from Associate Professor to Professor of Structure Design.

M. F. P. Costelloe, from Associate Professor to Associate Professor and Acting Chairman of Agricultural Engineering.

C. E. Bartholomew from Assistant Professor to Associate Professor of Entomology.

James Cloyd Bowman from Assistant Professor to Associate Professor of English.

Iva. L. Brandt from Instructor to Associate Professor of Domestic Art.

George Arthur Chaney from Assistant Professor to Associate Professor of Mathematics.

Roy Winchester Crum from Assistant Professor to Associate Professor of Experimental Engineering.

Winifred Sarah Gettemy from Assistant Professor to Associate Professor of Domestic Art.

William Roy Hechler from Assistant Professor to Associate Professor of Farm Crops.

Orren Lloyd-Jones from Assistant Professor to Associate Professor of Animal Husbandry.

George Chester Morbeck from Assistant Professor to Associate Professor of Forestry.

Ernest Alanson Pattengill from Assistant Professor to Associate Professor of Mathematics.

Raemer R. Renshaw from Assistant Professor to Associate Professor of Organic Chemistry.

Fredrica Von Trice Shattuck from Assistant Professor to Associate Professor of Public Speaking and Chairman of Department.

Phineas Stevans Shearer from Assistant Professor to Associate Professor of Animal Husbandry.

Roy Eugene Smith from Assistant Professor to Associate Professor of Soils.

George Waddel Snedecor from Assistant Professor to Associate Professor of Mathematics.

Louis Agassiz Test from Assistant Professor to Associate Professor of Chemistry.

Henry William Vaughn from Assistant Professor to Associate Professor of Animal Husbandry.

George Henry Von Tungeln from Assistant Professor to Associate Professor of Rural Sociology.

John Anderson Wilkinson from Assistant Professor to Associate Professor of Physical Chemistry.

Frederick E. Colburn from Instructor to Associate Professor of Photography.

Frank H. Culley from Assistant Professor to Associate Professor of Landscape Gardening.

Genevieve Fisher from Instructor to Associate Professor of Home Economics.

Ernest M. Mervine from Assistant Professor to Associate Professor of Agricultural Engineering.

Harold Stiles from Assistant Professor to Associate Professor of Physics.

George E. Thompson from Assistant Professor to Associate Professor of Physics.

Max Levine from Instructor to Assistant Professor of Bacteriology.

John Hall Buchanan from Instructor to Assistant Professor of Chemistry.

Annie Wilson Fleming from Instructor to Assistant Professor of Mathematics.

Lester S. Gillette from Instructor to Assistant Professor of Dairy Husbandry.

Frank M. Harrington from Instructor to Assistant Professor of Horticulture.

Harry Clayton Hetzel from Instructor to Assistant Professor of Horticulture.

Emil W. Lehmann from Instructor to Assistant Professor of Agricultural Engineering.

Jean G. MacKinnon from Instructor to Assistant Professor of Chemistry.

Oscar Anton Olson from Instructor to Assistant Professor of Mechanical Engineering.

Thomas Ray Truax from Instructor to Assistant Professor of Forestry.

The number and rank of teachers of all grades in collegiate work are shown by departments for the years 1914-15 and 1915-16 in the folowing tables:

SUMMARY OF INSTRUCTION STAFF (COLLEGIATE) 1914-15 AND 1915-16.

DEPARTMENTS	Deans		Professors		Associate Professors		Assistant Professors		Instructors		Assistants		Fellows and Scholars		Total	
	14-15	15-16	14-15	15-16	14-15	15-16	14-15	15-16	14-15	15-16	14-15	15-16	14-15	15-16	14-15	15-16
Agricultural Dean	1	1													1	1
Agricultural Education			1	1		1	2	2			1				4	4
Agricultural Engineering			1	1	1	2	1	1	4	4	2	1		1	9	10
Agricultural Journalism			1	1			1	1		1					2	3
Animal Husbandry			4	3	4	5		1	3	3			2	6	13	18
Bacteriology and Hygiene							1	1	1	1	1			2	3	4
Botany			1	1	1	1	1	1	4	4			1	2	8	9
Ceramics					1	1									1	1
Chemical Engineering					1			1							1	1
Chemistry			2	2	4	4		3	7	5	10	13		2	23	29
Civil Engineering			2	3	4	3	1	1	2	3	1	1			10	11
Dairying			1	1	1	1	1	1	4	4				2	7	9
Economic Science			1	1	1	2	2			1				1	4	5
Electrical Engineering			1	1	1	2	2	2							4	5
Engineering Dean	1	1													1	1
English			1	1	2	2	4	3	8	12					15	18
Farm Crops			1	1	1	1	1	1	2	3			1	2	6	8
Farm Management			1	1									1	1	2	2
Forestry			1	1	1	1		1	1						3	3
History and Psychology			1	1	1	1	2	1		1					4	4
Home Economics	1	1			4	5		1	11	12					16	19
Horticulture			1	1		1	1	2	4	3	1	1		2	7	10
Industrial Science Dean	1	1													1	1
Library					1	1			1	1	7	10			9	12
Mathematics			1	1	4	3		1	8	8					13	13
Mechanical Engineering			1	1	4	5	3	5	7	7					15	18
Military Science and Tactics			1	1	1	1									2	2
Mining Engineering and Geology			1	1	1	1	1	1							3	3
Modern Language			1	1					6	6					7	7
Music					1	1			3	2					4	3
Photography						1			1						1	1
Physical Culture							1	1	1	2					2	3
Physical Training			1	1		1	3	3	2	1					6	6
Physics			1	1		2	4	2	5	6					10	11
Public Speaking					1	1			2	2		1			3	4
Soils			2	2	1	1	1	1	1	2			1	2	6	8
Structure Design				1	1				1	1					2	2
Veterinary Medicine	1	1	3	3	2	1	1	2	1	2	2	2		3	10	14
Zoology			1	1	2	3	3	3	2	2	2	1		2	9	12
Totals	5	5	34	35	47	55	37	43	91	90	27	30	6	28	247	295

The average amount of teaching required of each member of the staff has been reduced by the addition of new teachers. It is still high as compared with leading institutions of the country, and further additions to the staff are needed to bring about a proper adjustment of the amount of work required of the average teacher in several departments.

PEDAGOGY FOR THE STAFF.

It is well known that many teachers in colleges have not themselves taken work in pedagogy or methods of teaching. This is due to the fact that institutions are obliged to appoint such teachers if their faculty positions are to be filled. To assist members of the staff, a special course of lectures was arranged for them in the fall of 1915, and these lectures proved to be both helpful and popular. Attendance was limited to members of the instructing staff. The head of our department of Agricultural Education arranged with experts to treat different phases of the subject. The speakers and their subjects in this special course included the following:

Dr. Ernest Horn of the University of Iowa. "The Problem as a Factor in Effective Teaching."

Professor W. H. Bender of the University of Minnesota. "The Problem of Reaching the Varied Motives in the Large College Class."

Dean Frank E. Thompson of the University of Colorado. "Teaching How to Study."

Dean Charles E. Fordyce of the University of Nebraska. "Factors in the Teaching Process, with Emphasis on the Presentation of Material."

Professor E. E. Lewis of the University of Iowa. "Economy in Teaching and Acquiring Motor Skills."

Professor G. M. Wilson of Iowa State College. "Are There Certain More or Less Definite Steps Which Should Appear in Every Recitation and Is It Possible to Check Up or Score Teaching According to a Definite Recitation Schedule?"

Dr. Thomas F. Vance of Iowa State College. "The Laws of Memory and Association That Are Particularly Helpful to Teachers."

Professor B. F. Pittenger of the University of Chicago. "Grading of College Students and Grading Systems."

Professor John E. Stout of Cornell College. "Good Questioning and Teaching Efficiency."

This course was provided with the aid of a special appropriation of $200 granted by the State Board of Education. Such work should be continued.

SALARIES.

It should be the aim to establish minimum salaries for the different grades of teaching service as follows:

Department heads	$3,000
Full professors	2,750
Associate professors	2,250
Assistant professors	1,600
Instructors	1,000
Assistants	800

Some of these minimum limits must be raised in the near future in order to make the positions sufficiently attractive to retain the best teachers. This is shown by the long list of resignations given above. Twelve members of the teaching staff resigned after the beginning of this biennium and before instruction began in the Fall of 1914, and seventy-two who gave instruction in either or both years of the biennium resigned, making a total of eighty-four. These resignations do not include those of fellows and scholars, who are employed only for a year. During the biennium the average number on the teaching staff, not including fellows and scholars, was 271. The resignation of 84 persons, or over 30 per cent of the staff, is excessive. It is not possible to do the best work when instructors in a department are changing so often.

The Board of Education has adopted a ruling which tends to assist in connection with the salaries. Under this rule one representative of each college teaching department is allowed to attend the one technical meeting of the most interest to the department and with railroad expenses paid by the college. These trips are authorized on recommendation of the department and approval of the president, who satisfies himself that attendance at the meeting will be directly beneficial to the department represented.

During the year 1915-16 the total expenses of such trips amounted to $1,050.51. This represents a very small average expenditure per year for the staff of teachers, being only about $3.55 per teacher.

Traveling expenses for other purposes, aside from extension work and experiment station work and hog cholera serum work, were as follows during the two years of the biennium:

To accompany classes	$ 521.08
For interviews with candidates	402.85
To buy live stock and supplies	292.64
To represent the college or station at an executive meeting	1,630.11
To study methods at other colleges and schools	47.59

Compensation for services	1,781.17
Building inspections and to consult architect	229.16
Live stock expositions and fairs	321.32
Miscellaneous	916.04
	$6,141.90

RETIRING ALLOWANCES.

This state has gone on record as desiring retiring allowances for teachers in this college. Such allowances have contributed to the efficiency of the teaching staff. As private funds do not appear to be available for retiring allowances, it is recommended that provision be made whereby a portion of the funds available for salaries may be set aside by the Board of Education for use as retiring allowances as the Board may determine. These benefits should be limited to teachers who have served long and faithfully and, to a limited extent, to their dependents.

COLLEGIATE WORK.

Instruction in this college is given along only five lines,—agriculture, engineering, home economics, industrial science, and veterinary medicine. Under the provisions of the Morrill Act, all these lines of work are clearly intended to be given. Additional lines of work are permitted, but at this college they are not included in the curriculum except to a minor extent where necessary to round out a proper education in one of the five lines mentioned. Military practice is required of all able bodied men in the lower classes.

Instruction of collegiate grade constitutes the chief duty of this college. The greater part of the students desire instruction of this grade and are classified in regular collegiate courses.

Occasionally a recommendation is heard that the standard of the instruction in this and other land-grant colleges should be lowered so as to be within the reach of a larger number of young people who wish to go into agriculture or some other industry. No step could be taken that would more quickly discredit technical education. Many an ambitious and self-respecting young man and young woman would turn away from a course of instruction which is branded as inferior in scholarship requirements and attainments, and they would accept the challenge of college courses along other lines that are rated as more difficult and of higher standard. Just such young

people as these are needed in the industries for positions of leadership, and they should not be allowed to be misled, especially when it is well known that the sciences of agriculture, or the sciences of engineering, or the sciences of home making, are as difficult as any group of collegiate or university subjects. The entrance requirements and educational standards of our collegiate courses we believe to be on a par with those of leading institutions of the country.

The new plan of co-operation with the other higher educational institutions of the state put into operation by the Board of Education is bringing some good results and promises well for the future. Under this plan our college accepts students who have taken prescribed work for three years at another institution and in two more years such a student may graduate from one of our technical courses. Thus in five years' time he earns degrees from both institutions. This plan of co-operation has many advantages, especially to the smaller college and to the people of the state who wish their sons and daughters to remain as near home as possible during at least the first part of their period of college instruction.

Further steps have been taken to bring the different divisions of the college into closer relationship. Each division faculty now has regularly appointed representatives of other divisions meeting with it and enjoying full privileges in discussions and voting. The visitors are not numerous enough by themselves to control a vote. Their presence brings about a better understanding between divisions and departments, less likelihood of duplication within our own college, and more readiness on the part of one branch of the work to assist in meeting the needs of another branch.

The State Educational Board of Examiners is an important body which has to do with the certification of public school teachers, and the interests of this college are vitally and in a large way dependent upon it. It is recommended that the state law be amended so as to provide that a representative of this college may act as a member of the Board together with the presidents of the State University and the State Teachers College.

AGRICULTURE.

Instruction in agriculture is adapted to those who would go onto farms and into experiment station work and for teachers. The first mentioned purpose attracts by far the largest number of students.

The greatest need of our agricultural work is the strengthening of the different departments so that they may keep abreast of corresponding departments in other states which are making rapid progress, and the establishment of new lines of practical instruction in agriculture which have become possible and indeed are necessary on account of the developments in recent years. Certain phases of farm management, plant and animal nutrition, plant and animal breeding, marketing and rural sociology, should be extensively developed in Iowa State College. In order to strengthen the present work and to provide for broadening it, larger sums should be available for salaries. The agricultural work has suffered seriously during the last biennium on account of the loss of professors who went to other institutions for much better salaries than this college could pay. The head of one agricultural department receiving our full salary for such a position was appointed to a corresponding position in another state agricultural college at 50 per cent increase in salary, making his salary almost the same as is received by the agricultural dean in Iowa. Another department head went to a corresponding position in a much smaller institution in another state with $1,000 added to his salary. Another professor accepted a position in an adjoining state at an increase of nearly 50 per cent in salary. Other such losses might be mentioned. The outstanding fact is that Iowa State College cannot secure and retain the best men in her faculty unless better salaries are paid. The agricultural departments are dealing directly with the largest interests of the state. Through the efforts of these departments, these large interests will be affected, at least to a small degree. The benefits resulting from the college instruction make the cost of this instruction seem trivial in comparison. In his report for the biennium, Acting Dean S. A. Beach emphasizes the need of strengthening the teaching staffs in the departments in the Division of Agriculture by increasing salaries. The following is taken from the Acting Dean's report:

The reports of departments in the Division of Agriculture indicate distinct progress in perfecting the organization of the instructional staff and in the development of courses of study, together with a steady increase in student enrollment. It may be affirmed that the educational standards have been advanced.

The increase in enrollment indicates what the report cannot well show, namely, that the training which has been received by the students in agriculture in this institution in the past has been of such a character as to command the respect and confidence of the people to such an extent that,

notwithstanding the raising of requirements, students are being attracted to this institution in annually increasing numbers.

The prospects are that during the ensuing biennium the laboratories and class rooms, more frequently than ever before, will be taxed to their capacity. Doubtless they will be insufficient to meet imperative needs, so that in some cases it will be necessary to provide more room to accommodate the growing demands of the work.

Careful study of the situation forces the conviction that more determined and persistent efforts ought to be made towards the development, in each department, of a more earnest spirit of research and of devotion to the permanent progress of the special lines of technical work represented. How can this be done unless certain specialists shall be given sufficient relief from administrative details or other forms of department service and from other distracting demands to give them liberty to devote persistent and concentrated effort to research? Such men should not be entirely divorced from the instructional staff.

The institution is fortunate in having connected with it experiment stations for carrying forward investigative work. It is not the purpose here to question the wisdom of the present policy of separating the experiment station workers from the instructional staff, so that they may uninterruptedly devote their time to their investigations. But this arrangement alone and of itself cannot fully meet the requirements in the field of instruction. Suitable provision needs to be made so that in each department at least one instructor will be at liberty to give a considerable portion of his time to research and at the same time keep sufficiently in touch with the instructional activities so that he can give inspiration and enthusiasm to his students and staff associates in the search for truth. Such enthusiasm, such inspiration, is vitalized and best maintained where opportunity is given to devote one's self to research work and to become identified with the progress of scientific achievement.

Agricultural Education Department.

The faculty of the Agricultural Education Department consists of Professor G. M. Wilson, two associate professors and one assistant professor. The work of this department is coming more and more into favor with the growing demands for teachers of agriculture in secondary schools and colleges. Among the students in this department are men who have had years of successful experience in public school work and are preparing themselves to teach agriculture. There were 424 enrollments in the classes in this department in the college year 1914-15 and 461 in 1915-16.

Agricultural Journalism.

The faculty of the Agricultural Journalism Department consists of Professor F. W. Beckman, one assistant professor and one instructor. This department does not offer work leading to a degree but gives instruction to students in agriculture, engineering and home economics so that they may be able to express their technical knowledge in language which will appeal to readers of newspapers and periodicals. The demand for

technically trained young men and women to serve in the field of technical journalism is rapidly increasing and numbers of the graduates of the college have entered this kind of work. In the college year 1914-15 there were 266 enrollments in the different subjects offered in the department and in 1915-16 the enrollment was 315.

The department conducts a news service which is of special value to country newspapers giving them facts in regard to advancements in agricultural methods which have been worked out at experiment staions, and, through the newspapers, these facts come to the attention of the farmers for whose benefit they are intended. During the biennium more than 1600 different items of information and news were sent out. These items were carefully fitted to the needs of Iowa daily and weekly newspapers and farm journals, and the clipping service has indicated that all found more or less use.

Agricultural Engineering Department.

The faculty of this department consists of Acting Chairman M. F. P. Costelloe, one associate professor, one assistant professor, four instructors, one fellow and one scholar. This work is administered jointly by the Deans of Agriculture and Engineering. A four-year course leading to the degree of Bachelor of Science in Agricultural Engineering is offered, in which more than 100 students were enrolled in each year of the biennium. But by far the larger part of the energies of the department is given to teaching agricultural students who are required to take a number of subjects given in this department.

The work assigned to the Agricultural Engineering Department is for the most part in fields of comparatively recent development. Practically all the subjects given can be traced to fundamental activities in pioneer conditions. On many subjects the available literature is not very extensive. Not all of that which is available is in the very best form to be of much assistance in an educational way. For this reason, and also because of the wide variety of subjects included in the Agricultural Engineering classification, it has been found highly desirable to develop specialties within the department.

The different studies offered in the department are grouped under the following seven subjects: Farm Machinery, Farm Power, Rural Sanitation, Farm Structures, Rural Highways, Drainage and Irrigation. In arranging these subjects to meet the demands of the different students taking work in the department, thirty-three distinct studies are offered. During the college year 1914-15 there were 1,715 enrollments in the different classes and 1,712 in 1915-16.

On many of our farms today, the valuation of buildings per acre exceeds the valuation of both land and buildings twenty years ago. Few farms in the state are completely equipped with the buildings which are needed to properly operate the farm. In addition to this, replacements are continually required. There are 224,771 farms in the state, and the amounts expended upon complete groups of farm buildings on farms of average size range from $4,000 to $12,000 and even higher. There are

few successful farms in Iowa where the cost of farm buildings per acre does not exceed $50.00. On such farms the interest and depreciation charges will frequently show that the farm must pay $2.00 a day for the use of buildings alone. Proper designing, arrangement and selection of materials will reduce the upkeep cost. The student of agriculture realizes that one of the big problems which he must face in farm operation is that of properly investing the money which he must spend on the erection and maintenance of the structures required to follow the types of farming which are best for his own interest and for the state as a whole.

In response to the demand for machinery to meet the requirements of modern methods of tillage, manufacturers have placed upon the market a large variety of machines. There is a noticeable increase in the extent to which power is used on farms. A very large percentage of the grain harvesters in the state are now equipped with gas engine motors for operating the machines, and horses are used only for drawing the machines across the fields. The corn picker-husker which handles the corn crop with practically no manual operation is also operated by a power unit. In some cases tractors have been successfully used to propel them.

There is a demand for brief courses on rural sanitation, modern lighting systems, sanitary water supplies, and sewage disposal. The farmer is interested in the installation and operation of the necessary equipment to give the farm home at least some of the advantages now so generally enjoyed by those living in cities. The department is attempting to meet this demand by class and laboratory instruction which is given in a brief, practical way.

Animal Husbandry Department.

The work of the department is divided along the lines of special interest,—animal husbandry, dairy husbandry, and poultry husbandry. A farm department is operated in connection with the Animal Husbandry Department, in which the live stock used in the classroom demonstration work is cared for. A farm of two hundred acres is maintained, and is divided into land for crops and pastures. The poultry used in classroom work is maintained on a separate farm of twenty acres devoted entirely to this work. The dairy husbandry stock is taken care of on a separate farm of two hundred acres.

The faculty in charge of the animal husbandry work proper consists of Professor W. H. Pew, head; five associate professors; one instructor, and four scholars. The work in dairy husbandry is cared for by one professor and one assistant professor, and the work in poultry husbandry by one professor and two instructors. The enrollments in the different classes during the college year 1914-15 were 2,817, and in 1915-16 2,904.

The changes in courses in the various lines of animal husbandry work have been few and are of minor importance. It has been planned, however, to strengthen the work by the addition of studies in meats. Opportunity to carry on this work will be afforded when the new animal husbandry laboratory is completed. The work in dairy husbandry will be strengthened by the addition of the dairy barn which will be completed early in the next biennium. Facilities for the poultry husbandry work

will be increased by the addition of a poultry house for young laying stock.

The student judging teams have taken part in different live stock judging contests and have made very good showings. In 1914 the usual judging contests held in connection with the American Royal Live Stock Show in Kansas City and the International Live Stock Exposition at Chicago were not held on account of the prevalence of foot and mouth disease. The dairy judging team, however, had opportunity to compete in a contest held in connection with the National Dairy Show in Chicago. Sixteen teams competed; and a team from this college ranked second in the judging of Jerseys, and fourth in the entire contest. In 1915, at the American Royal Live Stock Show, the judging team ranked third. At the National Western Live Stock Show at Denver, Colorado, in January, 1916, the judging team from this college ranked first. The young men on the team made a remarkable record in this contest. They did the most efficient work in the judging of horses and beef cattle.

In June, 1915, the graduating class in Animal Husbandry was the largest that had ever completed the course. Sixty-nine men received their degrees. In June, 1916, sixty-two men received their degrees in Animal Husbandry. A large percentage of these men have gone back to the farm, either as owners, part owners or renters, or in charge of herds of live stock. Some have gone into county agent work and some into college and experiment station work.

The graduate work in the department has developed as rapidly as could be expected and some excellent work has been done by the men pursuing the graduate studies. In 1915, four men received their Master's degrees in animal husbandry. In 1916, eight received the same degree. There has been a strong demand for instructors and experiment station workers in animal husbandry this year. In fact, the demand exceeds the number of available men capable of carrying on such work. Seven men have gone into college and experiment station work from the 1916 graduating class.

A new farm for this department is greatly needed.

Agronomy Department.

The Agronomy Department includes the work in soils and farm crops. The factulty consists of Professor W. H. Stevenson, head of the department and professor of Soils; Professor Hughes, head of the Farm Crops work; one professor, two associate professors, one instructor, one half time instructor, two fellows and one student assistant in Soils; and one associate professor, one assistant professor, three instructors, one fellow and one student assistant in Farm Crops. The enrollment of students in the different studies in soils has continued to increase. In the college year 1914-15 there were 590 enrollments and in 1915-16, 780 enrollments. This indicates a large increase of enrollment from the first to the second year of the biennium. The enrollment of graduate students in the department has increased from 13 to 17 in the biennium.

Additional room in the Agricultural Building was recently assigned to the Soils Department. This space has relieved the pressure on the de-

partment for the present and immediate future. However, every indication points to the fact that within one or two years the soils laboratories will be as crowded as they were up to the time the new laboratories were occupied.

During the biennium some important changes were made in the undergraduate courses in soils. For instance, soil bacteriology, heretofore offered in the senior year is now given in the junior year. This change will enable many students to take advanced soil bacteriology in the senior year. There is a growing demand for this work. Provision has also been made for one or more studies in geology, this work being of great value to students taking major work in soils. A grouping of the studies in soils has been perfected in order to strengthen and unify the work of the student. The groups are as follows: Soil Physics; Soil Bacteriology; Soil Fertility; Soil Management; Soil Surveying; and Thesis and Seminar.

The class room and laboratory methods that have been used by the instructors in soils during the past two years are based upon many trials and long experience. These methods, without exception, are giving satisfaction, but an earnest effort is made at all times to work out such changes as new conditions may suggest or make necessary.

The college has been most fortunate in maintaining its staff of instructors in the farm crops work with comparatively few changes. This has had much to do with the increased effectiveness with which the work in farm crops is now being taught. All of the studies are becoming more definitely organized each year and the work has been so arranged that the various instructors can make much more thorough preparation than has been possible in the past. Through the transfer of a portion of the farm crops experiment station work to the temporary building on the agronomy farm, it has been possible to make additional rooms available for instructional work and so relieve crowded conditions. This has resulted in greatly increasing the value and efficiency of the work. The enrollment in the different classes in farm crops continues large. In the college year, 1914-15, there were 1,121 enrollments and in 1915-16, 1,138 enrollments. The members of the staff work long hours in order to take care of their classes. For instance, one professor in the fall term taught three sections of Farm Crops 3, each section meeting twice a week. He also had charge of one laboratory section in Farm Crops 1, as well as assisting in a second division. During the second semester he had a section in Farm Crops 2 which met twice a week. He gave ten lectures and four hours laboratory work per week in Farm Crops 33 "Forage Crop Production." He directed the work in the farm crops seminars 19 and 20 during both semesters. This work requires considerable time in conference with students and in revising and correcting manuscripts. He also had charge of the practical farm work looking after the placing of students on farms for the summer months.

Dairy Department.

The faculty of the Dairy Department consists of Professor Mortensen, head of the department; one associate professor, one assistant professor, four instructors and two fellows. During the college year, 1914-15, there were 560 enrollments in the different classes and 605 in the year 1915-16.

This department has for years been recognized by the dairy schools of the United States for its strong and efficient work, particularly along the lines of butter-making and creamery management. Work in market milk was started two years ago. This has become popular among the students. The investigations and the scientific as well as practical instruction carried on along the lines of market milk have, so far, received recognition from a large number of the Iowa producers as well as from many consumers.

During the past two years, much attention has been given to the subject of cheese making. In 1914 Iowa cheese factories manufactured 704,463 pounds of cheese which is only about ten per cent of the amount consumed in the state. It has been the opinion of the department that Iowa can well afford to manufacture enough to take care of its needs. For that reason, special emphasis has been placed on the cheese industry by the members of the dairy faculty.

The Dairy Department has also realized the importance of the ice cream industry, which during recent years has become an important branch of dairy manufactures. An ice cream laboratory has been equipped and ice cream making was taught at this college before any other school in this or in any foreign country took up such work.

Additional room is greatly needed for the ice cream and market milk work. The present market milk laboratory is too small for economic and convenient arrangement of machinery. It is necessary to have some of the machinery in another room which will not allow of efficiently handling the instruction work. The ice cream laboratory is, at present, in a small basement room which is inadequate for the work required. From the standpoint of sanitation, it is objectionable to have such a laboratory in a basement room. Some states, in fact, object to an ice cream factory being so located.

A laundry could be operated profitably in connection with the Dairy Department. Such a laundry would be of instructional value to the students in dairying in view of the fact that farmers have begun to operate co-operative laundries in connection with co-operative creameries.

Farm Management.

The faculty of the Farm Management Department consists of one professor and one fellow. The department gives instruction to students registered in agricultural courses, the special purpose of its instruction being to co-ordinate the technical work given in different departments and to show how business methods may be introduced into farm operations.

Horticulture and Forestry.

Professor S. A. Beach is head of the department and Professor of Horticulture. Professor G. B. MacDonald is in charge of the work in Forestry. One associate professor, two assistant professors, two instructors, one fellow, two scholars and one student assistant are on the horti-

cultural staff and one associate professor, one assistant professor and one student assistant are on the forestry staff.

The major lines of work in horticulture have been separated into the following groups: Landscape Gardening, Floriculture, including Greenhouse Management; Truck Crops and Market Gardening; and Pomology, including Plant Breeding. The development of the work in Plant Breeding into a major line of Plant Genetics or of General Genetics seems now to be demanded by the growth of the college. During the biennium the equipment of the department was enlarged by the construction and equipping of a plant laboratory building with attached modern greenhouses having about 30,000 square feet under glass. This equipment makes possible more efficient work in various lines of plant industry, particularly in soil cultures, plant genetics, floriculture and the forcing of vegetables.

Provision is being made for adequate instruction in the lines of forestry work which are of leading importance in Iowa. General forestry has its application on practically every farm in the state, as well as on the two and one-half million acres of natural forest land and waste area in this state which are unsuited for agricultural crops. Instruction in farm forestry includes the subjects of wind breaks, shelter belts and wood lots for the farm; also the utilization of native timber for fence posts and for other farm purposes. The special courses give more technical training. Graduates of the four year and five year courses are able to go into government or state positions or into private work with municipalities, railways, lumber companies, and large estates.

A notable feature in the development of the forestry work during the past biennium has been the twelve weeks' summer camp in some forest region where instruction is given by the forestry staff in field operations, consisting of estimating timber, mapping forest types, making volume tables and studying logging and milling operations. The 1914 camp was held in the Minnesota National Forest; the 1916 camp in the forests in Washington and Oregon.

The enrollment in the different studies offered in the Department of Horticulture and Forestry was 3075 for the biennium, or an average of 1,537 for each year. This was an increase of twenty-three per cent over the college year 1913-14.

Photography.

A limited amount of work in Photography is given to students who desire enough training to enable them to take ordinary pictures of special features in connection with their technical work. For instance, agricultural students wishing to go on with advanced work, need to know how to take pictures of the special subjects they are investigating. Engineering students, at times, need to take pictures of structures upon which they are working after they have gone into professional work.

ENGINEERING.

With the increase of engineering activities and interests in the state, it is important that engineering education in the Iowa State

College should be kept up to standard and ample for the needs of the State. Notable progress has been made during the biennium. The following is taken from the report of Dean Anson Marston:

The attendance of collegiate engineering students at the Iowa State College has shown a steady and fair rate of growth during the biennial period, reaching 738 for the year 1914-15 and 746 for the year 1915-16. In each of these years the attendance of collegiate engineering students was the largest we have ever had. This period of growth follows a period during which engineering attendance decreased all over the United States. The demand for our graduates is now much larger than we can supply, and it seems reasonable to forecast a fair rate of growth for the immediate future.

During the biennium the transportation engineering plant has been completed, and, as a consequence, our instruction in railway engineering has been materially improved. In addition, we have introduced instruction in automobile engineering and the courses have proved quite popular with the students. We plan to improve this work in the near future and to introduce advanced courses for the senior engineering students.

Important work has been done with the locomotive testing plant on an investigation of the values of Iowa coals as compared with Illinois coal under actual locomotive conditions. The results are now being calculated.

On earnest recommendation of the telephone interests of the State of Iowa, we have introduced special work in telephone engineering with a specialist in charge. This work began in the fall of 1915. We have equipped a telephone and telegraph laboratory, and plan considerable future extension of this work.

The department of Structure Design was opened at the beginning of the biennial period and it is doing excellent work, especially in teaching our technical students something about the proper application of elementary artistic principles of design to the design of industrial structures, agricultural structures and home structures. In addition, the department is successfully training an unexpectedly large number of men in a standard four-year course for work with the building contractors and to practice in the actual making of designs for agricultural, industrial and home structures. The work given is essentially engineering, and the students taking it receive a more thorough training in structural engineering than those in any other course in the college. In addition, proper attention is given to the principles of structure design in general.

We have also been giving special attention during the past year to the development of instruction in business engineering. In the last catalog a considerable group of studies has been outlined and called to the attention of our technical students, who now find it possible to take systematic work in this important line which is receiving more and more attention in the engineering colleges of the country.

The last legislature passed a law calling upon the state educational institutions to do special work for the State in the survey of Iowa's

meandered lakes. I am pleased to report that when this matter was called to the attention of our engineering faculty and students they responded cordially. Several of the professors have assisted in connection with this work at some personal sacrifice. Quite a large number of students have also engaged in this work. Neither faculty members nor students received any pay. Their bare expenses were paid by the State. In this manner, some nine of the lakes of the State have been surveyed by Iowa State College professors and students.

On June 22-25, 1915, the annual convention of the Society for the Promotion of Engineering Education was held at the Iowa State College. The selection of this institution for that purpose may be considered as a high compliment to the standing of the college as an engineering school, and as a recognition of the good quality of engineering instruction now being given in the Middle West. It was necessary for the faculty of the college to make special arrangement for the entertainment of the delegates at the convention. The members of the society have been kind enough to express high appreciation of the courtesy shown them.

Agricultural Engineering.

This department is administered jointly by the Divisions of Agriculture and Engineering and is referred to in connection with the Division of Agriculture.

Chemical Engineering.

This work is administered jointly by the Divisions of Engineering and Industrial Science and is associated quite closely with the departments of Mining Engineering and Chemistry. The position of Associate Professor in Chemical Engineering became vacant in 1915 and was not filled until the spring of 1916, when Doctor C. A. Mann, of the University of Wisconsin, was appointed. Mr. John S. Coye, Chief Chemist of the Engineering experiment station, served as acting associate professor of chemical engineering during the year 1915-16 and rendered very useful service. The number of students taking the chemical engineering course is increasing materially, and it is believed that the department has a good future ahead of it. There is an awakening of interest on the part of manufacturers to the possibilities in the manufacture of chemicals, dyestuffs, etc., due to the continued duration of the war; and this has created a large demand for specialists trained in chemical engineering. In the college year 1914-15 there were 16 enrollments in the department and in 1915-16 there were 87.

Civil Engineering.

The work of the Civil Engineering Department continues as in former years. The faculty consists of eleven men, so that a specialist is in charge of each important line of work. The advanced work in structural engineering, railway engineering, and highway engineering has been especially developed in recent years. The demand for civil engineering graduates is especially heavy at the present time, and we are unable to recommend enough men to fill the positions open. In the college year

1914-15 there were 1,522 enrollments in the different subjects offered in the department and in 1915-16, 1,632.

Electrical Engineering.

This department is in charge of Professor F. A. Fish, assisted by two associate professors and two assistant professors. During the past biennium, an associate professor of telephone engineering was added to the staff. The class rooms and laboratories of the department have been concentrated in one building during the biennium, and this has promoted efficiency in the work. A new sub-station has been provided for the power plant and a new laboratory for work in telephony and telegraphy. During the college year 1914-15 there were 524 enrollments in the different subjects offered in the department and in 1915-16, there were 672.

Mechanical Engineering.

The department is in charge of Professor W. H. Meeker, assisted by three associate professors, five assistant professors, seven instructors and part time of an associate professor who gives half of his time to the Engineering Extension Department. This department gives instruction in mechanical drawing, descriptive geometry and mechanics, as well as in the regular mechanical engineering work. The staff has been increased during the past year by the addition of an associate professor of automobile engineering on part time, and a drawing room instructor. The new steam and gas laboratory has been put in full use during the biennium. Some special work in shop economics and in power engineering has been developed. There has been an increased demand for instruction in manual training which has led to the introduction of advanced work in this line. This work has been elected by both men and women students. The work of the department has grown so much that a new foundry building is needed. This would leave the old foundry building available for use to house work in manual training which has been developed extensively during the biennium and space for which is now overcrowded.

The number of enrollments in the different subjects offered in the department during the college year 1914-15 was 2,448 and in 1915-16 the number was 2,826.

Mining Engineering and Geology (Including Ceramics).

Professor S. W. Beyer is in charge of this department and is assisted by two associate professors and one assistant professor. Professor Beyer also acts as Vice-Dean of the Engineering Division.

The Department of Mining Engineering and Geology has been developing technical work in geology, especially for the agricultural students. There seems to be an important field for future work in this direction, which we should cultivate fully. An assistant professor of geology has been added on this account.

Associate Professor H. F. Staley has immediate charge of the ceramics work. The work of this course is progressing and has been recognized

by the clay interests of the state, through the election of Professor Staley to the office of Secretary of the Iowa Clay Products Manufacturing Association. The number of students in ceramics continues to be low, though increasing; and it should be larger, for there is quite a demand for graduates to fill remunerative and responsible positions.

The number of enrollments in the different subjects offered in the department during the college year 1914-15 was 183 and in 1915-16 it was 206.

Physics.

The work in Physics is in charge of Professor L. B. Spinney, assisted by two associate professors, two assistant professors, six instructors, one half-time instructor and one fellow. The work in physics has been growing so rapidly during the biennium, especially as regards the teaching of physics to agricultural and home economics students, which comprises a large part of the work of the department, that it has been found necessary to equip two new laboratories in the third story of the engineering annex. This was formerly attic space used for storage. The department is greatly in need of a separate building at an early date. It has also been found necessary to increase the teaching staff and to provide additional class and office rooms.

The number of student enrollments in the different subjects offered in the department was 1,082 in the college year 1914-15 and 944 in 1915-16.

Structure Design.

The work in Structure Design is in charge of Professor A. H. Kimball assisted by one instructor. The development of this work has been mentioned above. The department has been provided with rooms in the fourth story of engineering hall which have proved fairly satisfactory, although the department is already in need of additional space. The number of student enrollments in the different subjects offered in the department was 159 in 1914-15 and 288 in 1915-16.

Transportation Engineering.

The administration of the transportation engineering plant has been organized in such a manner as not to cripple existing departments by dividing their work, while, at the same time, securing efficient administration of the plant as a whole. Professor E. E. King, of the civil engineering department, has been made superintendent of the plant. The instruction work in locomotive engineering and in automobile engineering, as well as much of that in highway engineering is given in this building.

HOME ECONOMICS.

During the biennium, this division has retained the large enrollment which developed during the preceding biennium and it has continued to increase in number of students. Most of the young women enrolled in the Home Economics Division are looking forward to teaching positions. We are coming to realize that justice

has not been done in the way of furnishing educational facilities adapted to the needs of women, and gradually the error or unfairness of the past is being corrected. No longer is it necessary to argue that women, as well as men, are entitled to higher education to fit their special requirements.

Home Economics instruction has been given at this college since its establishment, and this institution has come to be looked upon as one of the leaders in this field of education. The college has been honored by the election, in June, 1916, of Dean Catharine J. MacKay as President of the American Home Economics Association, the leading organization of home economics workers.

Home Economics work is quartered now in six different buildings, one of which is located off the campus in a residence part of the city. The present home economics building was planned for about 250 students. With an enrollment nearly three times as large, the need of outside space is obvious. The separation of class rooms and laboratories makes for loss of time in passing between them and for loss of efficiency in administration. Besides, it is a fact that some of the space loaned to the Home Economics Division is needed by other departments. All these points are arguments for a new building suited to home economics instruction as given at this college. Such a building would cost $275,000. It should include facilities for all work given in domestic science, domestic art, household decoration and certain other activities of the department and of women's work.

Some experimental work in Home Economics has been undertaken and it is proposed to investigate additional problems as conditions and facilities permit.

During the biennium, ten teachers resigned from the home economics staff. This is too heavy a loss. It is expected that some teachers will resign, but when so large a number or so large a proportion of the total staff withdraws, the efficiency of the work is injured. The following is taken from the report of Dean Catharine J. MacKay:

In the year ending June 30, 1915, 521 students were enrolled in the regular collegiate home economics course. In the following year the enrollment was 546. This indicates an increase of 100 or about 20 per cent over the enrollment of the preceding biennium. In addition there were students in other courses who elected some work in the Home Economics Division.

The home economics classes generally are large, as is shown by the following statement of enrollment in the different classes:

ENROLLMENT.

Domestic Science	Fall 1914	Spring 1915	Fall 1915	Spring 1916
Personal Hygiene (H. Ec. 41)	194	...	218	...
Foods—Selection & Preparation (H. Ec. 43)	141	...	146	16
Foods—Selection & Preparation (H. Ec. 44)	...	130	...	132
Nutrition & Dietetics (H. Ec. 45)	75	...	70	...
Nutrition & Dietetics (H. Ec. 46)	...	72	...	65
Home Nursing (H. Ec. 47)	...	72	...	79
Foods—Advanced Cookery (H. Ec. 48)	79	...	99	...
Foods—Advanced Cookery (H. Ec. 49)	...	78	...	94
House Sanitation (H. Ec. 37)	17	Discontinued		
Practice Teaching in H. Ec. (H. Ec. 9)	71	73	72	70
Graduate Dietetics	1	...	...	...
Domestic Art:				
Textiles & Clothing (H. Ec. 1)	204	...	193	13
Textiles & Clothing (H. Ec. 4)	...	184	...	176
Advanced Textiles & Clothing (H. Ec. 6)	85	...	109	...
Advanced Textiles & Clothing (H. Ec. 7)	...	148	...	104
History of Art-Painting (H. Ec. 11)	64	Discontinued		
History of Art-Painting (H. Ec. 12)	...	61	...	68
History of Art-Sculpture (H. Ec. 14)	...	...	66	...
Handicraft (H. Ec. 15)	...	...	7	...
History of Costume (H. Ec. 16)	...	...	11	...
Applied Dress Design (H. Ec. 33)	13	...	...	9
Millinery (H. Ec. 35)	11	..	34	...
Advanced Millinery (H. Ec. 36)	1	25	...	20
Drawing (H. Ec. 50)	141	...	156	...
Applied Design (H. Ec. 51)	...	128	...	151
Costume Design (H. Ec. 52)	...	4	16	...
Textile Design (H. Ec. 54)	...	13	...	15
The House (H. Ec. 60)	68	...	109	...
The House (H. Ec. 61)	...	82	...	101
Household Management (H. Ec. 63)	...	...	72	...
Household Accounts (H. Ec. 62)	65	...	...	...
Total	1,230	1,070	1,378	1,114

During the biennium, the changes in the required course of study for the collegiate work have been few. The credit hours required per semester have been reduced. The maximum does not exceed 18 hours and the minimum requirement is 16 2-3 hours. Arrangements have been made for students who have received considerable instruction in home economics subjects (such as sewing and cooking) in the high school, so that they are not required to repeat the work.

If, however, the students are not able to meet the requirements they are demoted to the beginning work. If the advanced work can be carried successfully, more time for elective studies is allowed. Other studies added are camp cookery for men, experimental problems in foods, household management, handicraft, sketching and advanced studies in foods. Work in textiles and design has been added, at the urgent request of students seeking electives in these subjects. An expert instructor in household accounting has been added to the staff, to give instruction in household accounts and co-operate closely with the division in the study of household budgets.

Progress has been made during the biennium in the equipping of laboratories. The laundry has been re-arranged and new equipment added, and an ironing room has been equipped. This adds greatly to the facilities for instruction in the household management classes.

Owing to the development of the college work offered in the division, it has been necessary to open two domestic art and design laboratories in the chemistry building. Two new applied art laboratories have been opened in the emergency building, a frame structure originally erected to accommodate chemistry work after the chemistry building was destroyed by fire. The demonstration laboratory is located in a back room of Margaret Hall. There are serious objections to placing any of the home economics classes outside of the building. It interferes with the unity of the work, and it is more difficult for instructors to co-operate with one another; also, the students do not secure the close association of all the work given.

At the end of each school year an exhibit of the students' work in every department is given. In May, 1916, a representative exhibit of the students' work in applied art was sent to the Western Drawing and Manual Training Association meeting at Grand Rapids, Michigan. A great deal of favorable comment on this exhibit has been received.

The practice teaching in home economics is carried on in co-operation with the Agricultural Education department and the Superintendent of Schools in the city of Ames. Two cooking and two sewing laboratories are provided in the Central school building and one in the Welch school building.

Many of the graduates of the Home Economics Division are called upon to give demonstrations before women's clubs, county fairs, extension classes in school work and other groups; and to meet this need, all home economics students are given practice in demonstration work. This work is given in the demonstration laboratory in Margaret Hall, the equipment of which has been kept very simple and plain, and corresponds closely to such equipment as could be found in any outside community.

It is planned to have a practice house next year to enable the division to give practice work in the management of a household. The senior students will be required to spend a short time in the house and to take the responsibility of management for the family group. They will be required to perform each one of the duties of the house at some time during the period. Perhaps the chief objection to our graduates' undertaking instruction in home economics is that they are not familiar with the actual division of time and labor required to perform household tasks, and that, because of lack of experience, they are not able to evaluate the essentials and non-essentials of the household problem. True, all the problems of the family cannot be included in a "practice house," but many details of household management may be practiced and some part of the problem realized.

There is a demand for a course of study which will include agriculture and home economics. Many young women return to farm life and many manage farms in the State of Iowa. This year, one of our graduates has been selected as the first county adviser in home economics in the State of Iowa. No doubt the demand for trained women for such work will steadily increase.

Many of the young women in the home economics division desire to follow some employment other than teaching in which trained service is required. Several graduates have taken positions as dietitians in hospitals and as managers of institutional work such as dormitories and dining rooms, etc. The college dormitories afford a splendid opportunity to give such instruction, if one of them could be turned over for laboratory work. This should, of course, be under the supervision of the division and an instructor who is fully capable of giving the best instruction. The plan should involve very little expense to the college except for equipment of the dining room, and should be a self-supporting proposition. The demand for trained institutional managers is constantly increasing and a course of study should be worked out to train the students in this work. Each year we have students who are residents of the state drop out of our classes and go to Chicago University, Teachers College Columbia University, and other schools giving instruction in institutional management.

Some problems relating to home economics have been studied. The field offers many opportunities for research, and difficult problems are awaiting solution. This is especially true of problems relating to the farm home. A research worker should be employed and a laboratory fully equipped to undertake this important work. Other departments of the college interested in such research work are willing and anxious to co-operate with us.

The Physical Culture Department was placed under the Home Economics Division for the purpose of administration during the year 1914. Physical training work is required of all freshmen and sophomore women students in the college. Each student is examined by the physical director and her assistants, and a record is made of the physical condition upon entrance to the classes and then again at the close of the college year. Comparison is then made and the student showing the greatest progress in physical development is rewarded by an "Honor" and an "A" presented by the Athletic Association.

Many of the women graduates of the college are required to teach gymnasium work in the high schools and colleges where they accept positions in connection with their other teaching work. For this reason the demand has arisen for a Normal Class in teaching physical culture. To meet this demand, the department has added one study in practice teaching, and a certificate will be granted upon the successful completion of the work prescribed.

Corrective gymnasium work is provided for students who are not physically able to take the regular class work in the gymnasium. A marked improvement in the physical condition of these students has been noted and by the end of one semester many are able to enter the regular classes.

The Women's Gymnasium is located in Margaret Hall, a women's dormitory. In the basement of the building are located lockers and showers, and provision has been made for the construction of a swimming pool in another part of the basement. The space available is not sufficient, however, and a modern up-to-date gymnasium for the young women of

the college is needed. Such a building would include exercise floors, locker and shower rooms, swimming pool, consultation and examination rooms and a room for the accommodation of those interested in athletics. The present exercise room does not provide sufficient space for basket ball contests and other physical tests to which the public is admitted. The new gymnasium should also provide space for running track.

The outdoor exercise taken by the young women includes, hockey, tennis, golf and baseball. At the close of the college year, usually in the month of May, it has been customary for the young women in the department to give a May Day Pageant. The pageants have been given on the college campus when the weather has been favorable, and have been unusually successful, interesting and profitable.

INDUSTRIAL SCIENCE.

In my last report, the function of the Industrial Science Division in this college was discussed in some detail. By far the largest part of the work of the division is in the teaching of fundamental sciences to students in the Divisions of Agriculture, Engineering, Home Economics, and Veterinary Medicine. A very small portion of the energies of the division is expended in the teaching of students enrolled in the four-year course in industrial science,—in fact less than five per cent. In the fundamental work given by the departments in this division for the benefit of students in the other technical divisions, special emphasis is placed on the practical applications, and only so much of this kind of work is given as is necessary for the all around training of such students. The charge which is sometimes made, that the college is trying to establish a liberal arts course, is not founded on any basis of fact. The work given in the Industrial Science Division is essential or important to the work in agriculture, engineering, home economics, and veterinary medicine, and courses in these subjects could not be well carried on without it.

The following is taken from the report of Dean R. E. Buchanan:

Material progress has been made during the past biennium by the Division of Industrial Science in the task of fulfilling, in Iowa State College, the threefold function which has been allotted to it. The functions of the division are:

First: To serve as an administrative unit which has charge of instruction in those sciences which are basic to technical and industrial education. The departments which serve this purpose are: Bacteriology and Hygiene, Botany, Chemistry, Applied Economics and Social Science, Mathematics, and Zoology and Entomology.

Second: To serve as an administrative unit for those departments which have charge of instruction in subjects not sciences which are requisite to the proper education of technical students. These so-called

service departments are English, History and Psychology, Library, Military Science and Tactics, Modern Language, Music, Physical Training, and Public Speaking.

Third: To encourage the development of education in those industries not wholly included under the headings Agriculture, Engineering, Home Economics, or Veterinary Medicine, which need the technical application of the sciences taught in this institution (such as economic entomology and diseases of plants).

In conformity with the purpose first noted, the science departments of the division have been materially strengthened during the past biennium. A thorough revision of the studies offered by these departments has been made, with the object of eliminating any subjects which could be justly urged as unsuited or unnecessary for the adequate training of technical students and to add such new subjects as have been necessitated by the recent rapid advances in the applications of theory to practice in technology and the industries. While it is true that pure science cannot be sharply differentiated from applied science, the effort is being made consistently to lay particular emphasis upon those phases of science which have their applications in the industries and in technical fields. In addition, these departments in most cases include the teaching of certain advanced studies which are in themselves the technical application of elementary or pure science. For example, advanced courses in chemistry are given in the manufacture of certain important chemical products; advanced courses in bacteriology have for their purpose the testing of the efficiency of engineering structures such as sewage disposal plants and studying the fermentation processes used in the manufacture of bread; and advanced courses in mycology in the Department of Botany have to do primarily with the diseases of crops and their cure and prevention. In short, our science departments are endeavoring to do what is within their power to advance the interests of technical and industrial education in so far as this constitutes the province of an agricultural and technical institution.

The service departments of the division of Industrial Science have, likewise, been studied carefully during the past biennium, and much reorganization has been effected. Departments such as these, which have to do primarily with the more strictly cultural work, seem to offer a particularly difficult problem in a technical institution. No one could contend successfully that subjects such as history, English and the languages should not be taught to the extent that is necessary for the training of technical students. In many departments, the subject matter taught has been revised and some studies have been dropped either because they might be regarded as not necessary to the work of the institution or in order to replace them by studies which would be of greater value. Frequent conferences between the teaching staffs of these departments and the men and women of the technical departments have been of material assistance in the reorganization of the work. The complaint has been voiced by some that undue restriction upon the development of advanced work in the departments such as English, languages, and history, would interfere seriously with securing teachers

of recognized ability. It has been urged that we cannot hope to retain good men when they are held to the teaching largely of elementary courses. Our experience of the past two years has shown that such is not necessarily the case. Our teachers have come to realize that they are confronted with problems just as interesting and attractive as those offered by the stereotyped line of advanced subjects often taught in such departments. For example, our Department of History has been developing the field of agricultural, industrial and economic history, feeling that such subjects are of great value to our students. In consequence, the work in political history has been reduced to the minimum. In the Department of English, the customary advanced courses in old English, period literature, etc., have been dropped, and the creative and research work of the staff has been along the lines of working up elementary courses for particular groups of students. The teachers in charge of the work in English for our students in Home Economics have published a book on English composition, written with the needs of these particular students in mind. Two groups of essays relating to farm life and rural problems have also been edited by the staff which teaches students in agriculture. These books have proved very helpful in interesting such students in English and have been successfully used in other universities which have to deal with similar problems. The teachers who give instruction primarily to engineering students have been making a careful survey of various books and articles on engineering in order to discover those which show good English style. It is expected that the publication of their results will be of considerable importance to teachers of English in institutes of technology.

In pursuance of the third function of the Division of Industrial Science, considerable attention has been paid to the training of students in certain specialized and technical applications of the sciences. It has occasionally been urged that our course in Industrial Science does not differ in its opportunities from courses sometimes termed "liberal arts". We believe that this is wholly untrue. The records will show that during the past biennium, many requests have been received from prospective students who desire to specialize in languages, English, literature, or in other of the so-called liberal arts subjects; but these have been uniformly refused. It cannot be too often emphasized that this course is to train men and women for efficient service in certain limited fields of professional and industrial sciences, especially those requiring as support, strong technical courses such as are offered in Iowa State College. Among the graduates from the course in Industrial Science this year was one who majored in Geology, the better to fit himself for work in soil survey with the Department of Agriculture. Another majored in chemistry and bacteriology to fit himself for work on the problems related to the baking industry. Another who majored in veterinary anatomy expects to complete the course in veterinary medicine. Several of the women who completed the combined course in home economics and industrial science, majored in chemistry that they might be better equipped for work in the fields of nutrition and dietetics. One of the men who majored in bacteriology expects eventually to engage in experiment station work.

Bacteriology and Hygiene.

The faculty of this department consists of Professor R. E. Buchanan, head (also dean of the division), one assistant professor, one instructor, and two fellows. The work in soil bacteriology in the Agronomy Department, the work in dairy bacteriology in the Department of Dairying, and the work in veterinary bacteriology in the Division of Veterinary Medicine are carried on in co-operation with this department.

The major portion of the work of the Department of Bacteriology and Hygiene has been housed for about ten years in Central Hall. During the past biennium the laboratories have become overcrowded. Accordingly, a building was planned and is now in process of erection. This building will give adequate room for the department for several years to come.

During the biennium, the work of the department has been materially strengthened by the increased attention given to studies in sanitary bacteriology intended primarily for students in sanitary engineering. Additional attention has also been paid to the development of elementary and advanced bacteriology for students interested, primarily, in household and fermentation problems. The department has been called upon, also, to give an increasing amount of graduate instruction. The relationship of bacteriology and hygiene to technology and to the industries is becoming more and more evident.

Research and investigational work has been carried on in several different lines. A study is being made on the micro-organisms responsible for the fermentation of silage and for its preservation, also of the organisms which cause deterioration of silage. Similar work has been done during the biennium on sauerkraut. Studies have been made, also, of the organisms which aid in the detection of water pollution, and work has been done on the efficiency of sewage disposal plants, with particularly gratifying results. Likewise a study has been made of the organisms in the soil which might lead to erroneous conclusions concerning the potability of water. A classification of bacteria, particularly those forms of economic importance, has received considerable study from members of the departmental staff.

During the college year 1914-15, there were 300 enrollments in the different studies offered in the department, and in 1915-16 there were 346.

Botany.

The faculty of this department consists of Professor L. H. Pammel, head, two associate professors, one assistant professor, three instructors, one one-half-time instructor, two fellows, and four student assistants. During the winter of 1915-16, Harriette S. Kellogg, Botanical Curator, died. She was an exceptionally faithful and efficient worker and left a position which it will be very difficult to fill satisfactorily. In January, 1916, Dr. I. E. Melhus was added to the staff as associate professor of plant pathology. It is expected that much emphasis will be laid upon the problems relating to plant diseases.

The Department of Botany has been housed during the past biennium in two separate buildings. All of the work, except that in plant physiology, has been given in Central Hall. Plant physiology has been taught in Emergency Building, which was erected three years ago for the use of the Department of Chemistry. The laboratories and offices have been greatly overcrowded, particularly during the past year. The removal of the Department of Bacteriology and Hygiene from Central Hall will permit a much needed expansion on the part of the Department of Botany in Central Hall, and the removal of the Department of Zoology from Morrill Hall will give a much more adequate housing of the work in plant physiology. However, it should be emphasized that the department is working under a handicap in being housed in two separate buildings. The eventual housing of the Department of Botany in a Plant Industry Building, or in an addition to the new Science Building, should be kept in mind. The construction of the new plant propagation laboratories and greenhouses has made it possible for the Department of Botany to occupy some much-needed space in the old greenhouses. This room will be especially useful for the teaching and investigational work in plant physiology and plant pathology.

The number of enrollments in the various studies offered in the department was 1,212 in the year 1914-15, and 1,367 in 1915-16.

Chemistry.

The faculty of this department consists of Professor W. F. Coover, chairman, four associate professors, three assistant professors, five instructors, thirteen assistants, two fellows, and several student assistants paid at the rate of twenty-five cents an hour. Professor A. A. Bennett, former head of the department, is on leave of absence without pay. There have been a great many changes in the staff of the department during the biennium, because of low salaries paid. In a number of cases, the salaries are so low as not to provide a living wage. It is urgently recommended that provision be made for more adequate salaries, especially for assistants and instructors. An earnest effort is being made to build up and maintain a well-trained staff by encouraging and making possible the pursuit of research work. The results have been gratifying but it is still not possible for the members of the staff to engage in as much research work as they should, because they teach a much larger number of students per individual than the chemistry faculties of our best institutions.

The studies offered to undergraduate students have undergone careful revision during the past biennium. The facilities of the new building have enabled the department to meet the demands that have come upon it as a result of the rapid increase of student enrollment. The following is the number of students enrolled in chemistry classes in the fall semesters of the past few years: 1910, 585; 1911, 942; 1912, 1,220; 1913, 1,502; 1914, 1,757; 1915, 1,621. (Decrease in 1915 was due to the fact that two large classes of 250 students were shifted from the fall to the spring semester.) The total enrollment in the different classes was 3,040 for the college year 1914-15, and 2,825 for the year 1915-16.

At the close of the college year in June, 1914, the Department was occupying recitation rooms and laboratories in eight different buildings on the campus. This was due to the fact that the old chemistry building had burned the year before and the new chemistry building was not yet completed. The department moved into the new building during registration week at the opening of the school year in September, 1914. It was found necessary to use temporary equipment in all laboratories except one. One laboratory was partly equipped, permanently, with the eight laboratory tables used in the emergency building constructed for chemistry work. During the biennium about $27,000 worth of permanent laboratory equipment of a very substantial grade was installed. This was sufficient to accommodate only a comparatively small percentage of the students needing laboratory tables, but it greatly increased the efficiency of those using them. On account of the fact that the department has a very large student enrollment which has been increasing rapidly, and of the additional fact that in March, 1913, almost the entire equipment of the department was lost by fire, it will be necessary to increase the equipment fund very materially for the coming biennium.

Applied Economics and Social Science.

The faculty of this department consists of Professor J. E. Brindley, Associate Professor G. H. Von Tungeln, one additional associate professor, one instructor, and one fellow.

This department has been housed during the biennium in Central Hall. There is urgent need for additional office room. Four men in the department are now occupying the same small office. It has been necessary, also, to find recitation rooms for some of the larger sections in rural sociology in other buildings. It is to be hoped that additional room may be secured before the opening of next year.

The work of the department has been materially modified and strengthened during the past biennium. Several general studies have been dropped and their places taken by studies in agricultural economics, highway economics, rural sociology, etc. A high degree of co-ordination with the work of the technical departments of the institution has been reached in the work of this department.

There has been some demand for graduate work in this department, particularly in the lines of rural sociology and agricultural economics.

The number of student enrollments in the different classes of the department was 680 in the college year 1914-15, and 846 in 1915-16.

English.

The faculty of this department consists of Professor A. B. Noble, head; two associate professors, four assistant professors, and ten instructors.

The work of the Department of English is mainly in composition. This predominance of composition work is in harmony with the spirit of the college. It includes the training of students not only to know things along technical lines, but also to express that technical knowledge. With the growing emphasis on all kinds of club work and social movements, it becomes increasingly important that the man who knows what his fellows do not know, should be able to communicate that knowledge. Hence the necessity of having thorough courses in composition in a college like this.

In order to give as much emphasis as possible to practice in writing on technical topics, one group of teachers meets the agricultural students; a second group meets the engineering students; and a third group, the students in home economics. This division enables the teachers to make a special study of technical topics in these respective fields and to direct and assist the students to write on such topics. This adjustment involves certain new problems in composition, the final solution of which will require some time. The number of enrollments in the classes in the department was 1,966 in the college year of 1914-15 and 1,960 in 1915-16.

History and Psychology.

The faculty of this department consists of Professor O. H. Cessna, head; one associate professor, one assistant professor, and one instructor. Professor Cessna also acts as chaplain.

In both history and psychology the studies given are adapted to the type of education for which the institution stands. The studies in history are mainly those of applied history, such as economic history of agriculture, industrial history of the United States and England, The Western Movement, and the history of tariff and transportation.

The studies in psychology are those which are closely associated with the work of the college, being required in the courses in agricultural education and home economics, and being also given as contributing studies for economics, sociology, etc.

The number of enrollments in the classes in the department was 672 in the college year of 1914-15 and 896 in 1915-16.

Library.

The Library staff consists of a librarian, one reference librarian, one cataloguer, and eight assistants. Miss Vina E. Clark, librarian, has resigned, effective September 1, 1916, and in the coming biennium the staff will be reorganized.

In the last two years, 9,880 books have been added to the library. The seeming smallness of the above figures may be explained by the fact that a considerable part of the available income was put into sets of periodicals and transactions. This policy was adopted about eight years ago, and it has been most satisfactory, as it is bringing within the reach of our research workers material they have needed badly.

Two departmental libraries, the Chemistry and the Veterinary, have been opened in the last biennium. A messenger service between the libraries and the college departments was inaugurated this year, with most satisfactory results.

The most urgent need of the library at the present time is a new adequate library building, even though the departmental libraries are still maintained. The main library should be removed from its unsatisfactory quarters in Central Hall to a modern, well equipped structure.

Mathematics.

The faculty of this department consists of Professor E. W. Stanton, head (does not do actual teaching), Professor Maria M. Roberts, four associate professors, one assistant professor, five instructors, two one-half time instructors and one assistant.

A number of the instructing force give considerable time to college work outside of department duties. Much time, too, is given to helping students outside of the classroom. The hours per week of actual instruction in the classroom average about sixteen per instructor; the student hours taught by each instructor approximate two hundred and eighty. The character of the work taught covers a wide range advancing gradually from elementary algebra to Theory of Functions and the more difficult applied mathematical subjects. The enrollment in classes is naturally large in the lower work and decreases to a small number in graduate courses.

The most urgent need of the department is additional room. The recitation rooms are all in use and in the fall term the department is obliged to get accommodations outside. A room should be provided which can be used by teachers in meeting students for personal work. Not taking into account any increases in the present enrollment, two additional recitation rooms will be sufficient. Two new offices are also needed. The department has at present one large and three small offices to accommodate sixteen instructors.

The enrollments in classes in this department during the college year 1914-15 were 1,441, and in 1915-16, 1,419.

Military Science and Tactics.

The military work is in charge of General James Rush Lincoln and an officer detailed by the United States Government. They are assisted by student officers.

During the past biennial period the Department of Military Science and Tactics has been as successful in its work as could be expected under existing conditions, being handicapped by lack of proper quarters.

The cadet camps of the two years just passed have given opportunity for the application of the principles taught on the drill grounds and in the classroom, and have added to the general interest of the cadets in the military work.

During the coming year, the sophomore class will be added to the cadet corps. This will nearly double the number of cadets. It will open greater opportunities for more extended instruction and will necessitate larger quarters for the accommodation of the corps. In the matter of target practice, a still greater need has to be met. The present gallery permits only two men at the "firing point" at one time; so, in spite of the fact that the gallery has been in use four or five hours each day, it has been impossible to instruct all in the principle of rifle practice.

The department is greatly in need of suitable quarters for drill purposes. As soon as bad weather sets in, little instruction in drilling can be given. Therefore, it is not possible to do the most efficient work.

The number of class enrollments in this department was 1,189 during the college year 1914-15, and 1,478 in 1915-16.

Modern Languages.

The faculty of this department consists of Professor Fletcher Briggs, head; and six instructors.

The department is housed in Central Hall. There is much need for additional room, both for classes and for offices. The present crowded condition cannot well be relieved in this building until the removal of the Library from its present quarters.

There has been careful review of the courses offered by this department during the past biennium, in an effort to restrict subjects to those which should be given in an institution of this type. The work of the department has been materially increased by the requirement that all graduate students prove to the satisfaction of the head of the Department of Modern Languages that they possess a reading knowledge of either French or German, or both, before being admitted to candidacy for an advanced degree.

An examination of the subjects taught in this department will show that an unusual proportion are intended, primarily, for the use of students who wish to secure a reading knowledge of scientific or technical literature in some particular field of work.

The student enrollment in the classes of the department was 674 in the college year 1914-15, and 664 in 1915-16.

Music.

The faculty of this department consists of Associate Professor J. C. Harris, head; and two instructors. Only $1,300 is paid out from college funds for the salaries of the staff, the remainder being paid from receipts by the Music Council.

As at present organized, the department has for its primary purpose the development of a liking for music and an appreciation of good music in the student body. With this in mind, glee clubs, bands, orchestras, choruses, etc., have been organized in an effort to give as large a proportion of the students as practicable some training in music. The Music Department works in active co-operation with the Music Council, which has charge of all musical entertainments and under whose auspices excellent concert series have been given each year.

The number of enrollments in the classes of the department was 303 in the college year 1914-15, and 204 in 1915-16.

Physical Training.

The faculty of this department consists of Professor Clyde Williams, chairman; one associate professor, three assistant professors, and two instructors. Only about one-half of the salaries of the staff is paid from college funds, the remainder being paid from receipts of the Athletic Council.

A physical examination is made of all freshmen, and special corrective work prescribed for those found deficient in any part or organ of the

body. Serious conditions are referred to the College Physician; and in cases of more serious heart conditions, specialists are consulted. Permanent excuses are granted only by the College Physician, and these are exceedingly rare.

The facilities for taking care of outdoor work are inadequate. The play field is in no condition for use and there have been no tennis courts controlled by the department. In addition to the Intercollegiate Field, the department should have five football fields, seven baseball fields, and twenty tennis courts, the football fields to serve both football and soccer.

In February, 1915, Dr. C. G. Lang, who had been in charge of gymnasium work, died. Mr. Bode, a senior in the college, acting as an instructor, helped carry the work through the remainder of the year.

In the fall of 1915 an additional study in coaching was provided. This includes football, track and basketball; and is intended to fit the student for handling grade or high school athletics.

Beginning with 1915-16, swimming was required; that is, each freshman had to pass a certain test before grade for Physical Training 1 and 2 was given. Instruction in advanced strokes, life saving and rescue work was given to sophomores.

It might be well to note that each year adds to the popularity of the building and conveniences. More and more of the students are using the building for exercise not required by the different subjects offered.

The number of enrollments in the classes of this department during the college year 1914-15 was 3,025, and in 1915-16 the number was 4,158.

Public Speaking.

The faculty of this department consists of Associate Professor Fredrica V. Shattuck, chairman; two instructors, and one part-time assistant. The department is housed in Central Hall.

During the past biennium, this department has made material progress in its work of giving technical students criticism and practice in public speaking. The members of the department have also given much personal training in debates, speeches, readings, plays and other public performances. During the past year, particular emphasis has been placed upon the training of students for extemporaneous speaking and for the making of demonstrations and the giving of club talks. Considerable attention has also been paid to the selection of and the coaching for plays useful in rural social center work.

The number of enrollments in the classes of the department was 429 in 1914-15, and 537 in 1915-16.

Zoology.

The faculty of this department consists of Professor H. E. Summers, head (on leave of absence on account of illness); Associate Professor J. E. Guthrie, acting chairman; one associate professor, three assistant professors, two instructors, one one-half time assistant, and three fellows.

During the biennium just closed, the Department of Zoology has greatly missed the services and counsel of Professor H. E. Summers, whose

health has been such as to occasion his absence from the department since October, 1914.

The difficulty of carrying on the work in several different buildings has been considerable and has interfered to some extent with efficiency in the use of illustrative materials for laboratory and lecture use in the different classes. However, the laboratories in the Chemistry Building and the Emergency Building have been a great improvement on the basement rooms formerly used in Morrill Hall.

Work in Apiculture (Zoology 37) has been offered since the fall of 1914. The work in Entomology has been strengthened.

The growth in attendance and interest in the weekly Zoological Seminar, a purely voluntary organization of the members of the Department, has been very encouraging.

The department is looking forward to the beginning of the new year, when part of its work will be moved into the new Science Building now being erected. It is hoped that the time is near when still more adequate quarters may be provided; so that the entomological work, which must remain in the Chemistry Building, may again be housed with the rest of the department; so that the entomological collections may be moved to rooms in the new Science Building; and so that provision may be made for the general museum which must be left for the present on the top floor of Morrill Hall. It has been a matter of regret that the lack of room and of funds has prevented the expanding of the museum in keeping with the growth and development of the college and of the department.

The number of enrollments in the classes of the department was 916 in the college year 1914-15, and 832 in 1915-16.

VETERINARY MEDICINE.

The Division of Veterinary Medicine showed a decrease in attendance during a few years after the entrance requirements were placed on the same level as those of the other divisions of the college. The enrollment now is increasing. The numbers of freshmen entering during the last four years were 31, 33, 36, and 46 respectively. A large amount of work falls on the faculty of this division, in connection with the diagnosis of diseases of specimens received from all parts of the state. This is referred to especially in connection with the report of veterinary investigations, but it is a task that is shared by most of the members of the Veterinary staff.

As a country becomes older in its settlement, and as population increases, diseases of animals also increase unless more and more care is taken to prevent them. Instruction in the Veterinary Division is given with a view to practice in Iowa, but occasionally a graduate finds employment in a veterinary commercial enterprise, in special research work or in the United States Bureau of

Animal Industry. This is to be expected and should be encouraged within reason.

Dean Chas. H. Stange is temporarily absent from the college on account of illness, and his duties are being performed by Vice-Dean H. E. Bemis with the aid of other members of the staff.

Acting Dean Bemis reports as follows:

Special attention is called to the fact that members of the Veterinary staff are receiving less compensation than is received for corresponding service in other states. These men could do better, in a financial way, by engaging in veterinary practice; but they have preferred to remain in college work. Also, several members of the staff have incurred heavy expenses during the last three years by traveling and observing conditions and veterinary practice elsewhere, and by spending vacation time in study at other institutions or by working on special problems in their own laboratories. This was done in order to further perfect their training along special lines.

The work of the Veterinary Division is divided between five departments, namely: The Department of Practice and Diagnosis which is in charge of the Dean; The Department of Anatomy and Histology in charge of Professor H. S. Murphey; The Department of Pathology and Bacteriology in charge of Professor W. W. Dimock; the Department of Physiology and Pharmacology in charge of Associate Professor H. D. Bergman; and the Department of Surgery and Obstetrics in charge of Vice-Dean H. E. Bemis.

In connection with the department of Practice and Diagnosis, an Ambulatory Clinic is maintained, which, during the college year 1915-16, handled 4,887 cases, 254 of this number being surgical cases. The above cases were found among the various species of animals as follows: Horses 390, mules 5, cattle 614, swine 3,799, sheep 4, fowls 75. The Ambulatory Clinic is under the direction of Dr. N. L. Nelson, and has been a great success. No other one thing could be added which would be of more direct benefit to the students than the Ambulatory Clinic, as all senior students are given opportunity to go out on calls under conditions similar to those in regular practice.

The Department of Anatomy and Histology gives considerable work to agricultural students, in addition to the work in the regular veterinary course. The agricultural students are getting instruction in the anatomy of domestic animals and are thus acquiring knowledge which will be of considerable benefit in connection with farm practice. The department is doing a great deal of work in the collection of specimens for use in classwork. A large number of specimens have been added to those already available, and by rearrangement and classification, all have been made accessible to the students.

The Pathology and Bacteriology Department is perfecting the study in Food Hygiene in an attempt to make it suitable to the use of graduates in whatever line of work they may take up. The chief purpose of meat inspection is to protect the people against the dangers which threaten

from eating infected meat. Although great progress has been made in the inspection of meat, much still remains to be done, as is shown by the fact that many cases of sickness, and even death, from eating diseased meat continue to occur. The question of animal parasites is given special attention, because of the economic importance of the question. Stockmen and veterinarians have pointed out the necessity of devoting all the time possible to the study of methods of control of animal parasites.

Serum Therapy is one of the newer subjects of Pathology and Bacteriology, and is being given considerable attention. In many cases, treatment with serum is the only satisfactory method of treating and preventing diseases. So far, the results of serum treatment have been wonderful, and the possibilities are untold. This department also gives considerable work to agricultural students in addition to the regular work required in the veterinary course.

A number of changes have been made in the undergraduate work of the department of Physiology and Pharmacology. The manner of the presentation of the work has been improved by the allowance of additional time for laboratory work, and the scope of the work has been materially broadened. The department offers both major and minor graduate work, which has been taken up by industrial science and agricultural students. The department has at all times kept in touch with the newer developments along pharmacological lines and therapeutics, and by field and laboratory experiments has tested out the value of a number of the newer theapeutic agents. A large amount of co-operative work has been carried on with livestock owners and veterinarians throughout the state. Through such co-operative work, considerable valuable data have been obtained on certain practical methods of control and treatment of diseases by therapeutic measures.

The work of the Department of Surgery and Obstetrics is given largely by clinical instruction. The amount and the variety of work are indicated by the following data showing the kinds and number of diseases treated. Infectious diseases, 72; respiratory diseases, 17; digestive diseases, 122; nervous diseases, 24; skin diseases, 16; circulatory diseases, 9; Genito-urinary diseases, 54; diseases of the eye, 20; miscellaneous, 15; diagnostic tests, 267; mouth diseases, 149; nose, nostrils and sinuses, 6; face and mandible, 14; ear and guttural region, 25; eye and lids, 9; poll, 17; neck, 5; larynx and trachea, 3; thorax, 6; abdomen, 64; genito-urinary organs, 165; fore limb, 117; hind limb, 76; foot, 61; autopsies, 113. These cases were distributed among horses, mules, cattle, swine, sheep, dogs, cats and fowls.

Aside from the clinical material which was used in making plain the principles taught in the classroom, the department is continuing to collect and preserve specimens. The history of these specimens is carefully kept, and the material is numbered and indexed and placed in the museum of the department where it can be readily secured for classroom use.

The Veterinary Division is in need of additional space. The completion of the southwest wing of the veterinary group is earnestly recommended. Buildings for the disposal of refuse and for the housing of

small animals are also greatly needed. An additional story is needed for the Pathology and Anatomy buildings to relieve the pressure in these departments. A laboratory building for the production of biological products should also be provided.

A farm of about 160 acres is needed for caring for clinical material and research work and serum production. Future work of such character and quantity as is now carried on at the college could be handled with distinct economy by a plant of this kind.

GRADUATE WORK.

The graduate work has continued to develop rapidly. This is largely due to the fact that in selecting teachers, high standard institutions give preference to persons who have completed graduate courses of study. Another explanation lies in the fact that graduate students are attracted here because some of our departments are well provided with equipment and teachers. There is an advantage to the student in selecting for his graduate work an institution different from the institution where his under-graduate work was taken; thus, while some of our graduates go to other states for their special advanced studies, a number of graduates from other states come here. Their presence is a distinct help to the college. It brings into our midst a group of very high class young men and women. Their presence and example have a good influence upon the entire student body and are a help also to the faculty.

The Board of Education has now granted permission here, which long has been enjoyed in other institutions, whereby instructors and assistants are permitted to take a limited amount of graduate work. The rule of the Board adopted April 23, 1914, is as follows:

Whereas: It is frequently possible to secure a teacher or investigator of unusually high qualifications for less salary than his services are really worth, if opportunity is given him to pursue studies along his chosen line leading to an advanced degree:

Therefore, Be It Resolved: That the members of instructional and investigational force of rank of instructor and assistant be permitted to do graduate work; those on half-time employment may receive not to exceed two-thirds time credit, and those on full time may receive not to exceed one-fourth time credit; all adjustments as to the amount of credit to be allowed, to be made between the Head of the Department in which the work is taken, and the Dean of the Graduate Division.

This rule does not have the effect of decreasing the efficiency of the teacher. On the contrary, it stimulates his interest and it enables the college to secure instructors and assistants at lower salaries than would otherwise be possible. In addition, it helps these

young teachers to continue their studies for advanced degrees. The rule of the Board results in the college's securing better teaching service without increased cost.

The staff should be strengthened by the appointment of a dean and the addition of at least three scientists who would devote a considerable portion of their time to the instruction of graduate students.

Further references to graduate work are made in the statements on collegiate work.

NON-COLLEGIATE WORK.

Non-collegiate courses are offered in agriculture, home economics and trade school work. The enrollment in these courses in recent years has increased steadily. It was 149 in 1910-11, 188 in 1911-12, 218 in 1912-13, 321 in 1913-14, 365 in 1914-15, and 327 in 1915-16. This shows an increase of more than 100 per cent in five years.

The enrollment responds quickly to general economic conditions throughout the state. It is influenced also by the development of extension work and the introduction of agriculture, trade school work, and home economics into the public schools. Some special vocational schools during the winter season are another factor affecting attendance in the non-collegiate work. It is not to be expected, however, that these other agencies can replace the non-collegiate courses continued for two years as offered at this college. These courses fill a distinct need and they should be continued and strengthened and given wider publicity. Very many people who would be benefited by them do not know of their existence. They are adapted to young men of seventeen years of age and young women of eighteen years of age who have finished the eighth grade in the public schools but have not finished an accredited high school. Two and four year courses are open to the latter.

The work given in these courses is intensely practical. The best college equipment is available, and the instructors are on a par with instructors in collegiate courses. The young people who finish these courses, or even take one year of the work, put their instruction into direct use. For example, practically every student in the agricultural work returns immediately to the farm. Some, however, prefer to engage in teaching. To the list of studies offered, there should be added non-collegiate work in education, which would

be of high value to students wishing to prepare to teach vocational subjects, especially in the rural schools.

CHANGES IN TEACHING STAFF.

The following appointments, resignations, leaves of absence, and promotions have occurred in the staff of the non-collegiate departments during the biennium:

Appointments.

R. Burdette Dale, Assistant Professor in charge of Vocational Courses in Engineering and Correspondence Instruction.
Myrtle Ferguson, Supervisor of Home Economics.
Vincent Chappel, Instructor in Dairying.
A. B. Campbell, Instructor in Electrical Engineering.
Austin A. Dowell, Instructor in Animal Husbandry.
Edna Bell Fry, Instructor in Chemistry.
Herbert E. Freund, Instructor in Vocational Courses.
Peter Hanson, Instructor in Agronomy.
Joan Hamilton, Instructor in Home Economics.
Annie Hawkes, Instructor in Home Economics.
W. H. Lancelot, Instructor in Chemistry.
Mary Miller, Instructor in Mathematics.
Mrs. Edwin S. Youtz, Instructor in English.
W. R. Little, Instructor in Mechanical Engineering.
Walter Lott, Assistant in Botany.
Amy Middleton, Assistant in English.

Resignations.

Mogens R. Tolstrup, Assistant Professor in Dairying.
R. Burdette Dale, Assistant Professor in Vocational Courses.
Harry C. Cameron, Instructor in Agricultural Engineering.
Herbert E. Freund, Instructor in Vocational Courses.
Joan Hamilton, Instructor in Home Economics.
Mary Miller, Instructor in Mathematics.
Anna Mary Wolfe, Instructor in Bacteriology and Botany.
Earl B. Bisbee, Instructor in Dairying.
Helen H. Halm, Instructor in Home Economics.
Beatrice Hunter, Instructor in Home Economics.
Robert C. McChord, Instructor in Animal Husbandry.

Leave of Absence.

Elizabeth Maclean, Professor of English.

Promotions.

Professors, Associate Professors and Assistant Professors in Sub-Collegiate Work.

Elizabeth Maclean from Associate Professor to Professor of English.
Mark G. Thornburg from Associate Professor to Professor of Animal Husbandry.
Henry Louis Eichling from Assistant Professor to Associate Professor of Agronomy.

Paul Revere Lisher from Assistant Professor to Associate Professor of Animal Husbandry.
Claude Kedzie Shedd from Assistant Professor to Associate Professor of Agricultural Engineering.

Instruction is given in certain fundamental subjects for all of the technical non-collegiate courses. These subjects include English and chemistry. The work is of lower grade than collegiate work and is given in classes separate from collegiate classes. The classes, however, meet in the regular college buildings, occupying regular college class rooms when not occupied by four-year classes.

AGRICULTURE.

There is a two-year non-collegiate course in agriculture and a one-year course in dairying. These are designed to give scientific training and practice. Instruction is given in animal husbandry, agricultural engineering, soils, farm crops, farm management, horticulture and dairying. The general plan of instruction is similar to the plan followed in four-year courses, but the work is not so difficult and it is not presented so rapidly. It is adapted to the immediate needs of Iowa. Instruction is given that will assist in dealing with farm problems which arise daily. Young men who have finished this course are now giving a good account of themselves on many Iowa farms.

HOME ECONOMICS.

This course aims to dignify all occupations of the home by showing their relation to science and good taste. The training is such as is needed by young women who would obtain positions as managers of tearooms and cafeterias or who would secure employment as dressmakers, milliners, and demonstrators. The enrollment in this work has doubled in one year, showing that it fills a real need. It is proposed, as soon as possible, to give instruction in institutional management and to offer a one-year course for women who would be given opportunity to take it one semester or one-half of a semester at a time.

ENGINEERING AND TRADE SCHOOL WORK.

In this field the work is referred to as two-year vocational courses in engineering. These courses are planned to prepare young men to be electrical workers and stationary engineers, mechanical engineers and mechanicians, structural draftsmen and building superintendents, and surveyors and road makers. Arrangements now have been made to add a one-year course for telephone plant men

and a six-months course for automobile mechanics. These courses are enabling young men to qualify themselves for technical work of an important character, such as they could not easily learn in other ways. In a small way, they are doing for young men of Iowa what the educational system of Germany has long been doing for the young men of that country. These courses are being correlated and identified more and more specifically with the industries of the state.

SUMMER SESSION.

Successful summer sessions were held in 1915 and 1916. The chief reason for starting these sessions was to accommodate teachers who wanted to have more instruction. Gradually, college credit studies have been introduced and increased in number until now this has become a very important part of the work. The regular Summer Session continues six weeks, and a second session has been introduced. This makes practically a full year of service for the college buildings and equipment. In assigning teachers to the Summer Session, effort is made to allow reasonable vacation periods so that they will not lose the rest and change that is desirable for the best work in the classroom.

Special emphasis is given to the industrial subjects,—agriculture, home economics, and trade school work, for the benefit of teachers; and in addition to these, instruction has been offered in the common branches to a limited extent for the benefit of teachers who needed to give a small part of their time to such work on account of coming examinations.

The following is taken from the reports of Director G. M. Wilson:

SUMMER SESSION OF 1915.

In the first session 791 students, representing 94 counties, were enrolled, and in the second session 264, representing 68 counties, were enrolled. In the first session there were 68 superintendents, 27 principals, 71 high school teachers, 349 rural and grade teachers, 223 college students, 11 college instructors, 16 farmers and housekeepers, and 26 others. 14 additional college credit subjects were included in the first session, and new work was added in the rural and grade teachers' course to more fully meet the demand for certificate subjects. In the industrial subjects, work was extended so as to permit twelve weeks' work in each of the three lines. Special care was taken to see that Summer Session students did not overload themselves with work, as they are often tempted to do. It is considered that the Summer Session student should not carry, on an average, more than a regular college student in a four-year course. Some exceptions were granted, however, to persons of special training

and physical fitness. Public lectures were provided, including one by Dr. W. A. Jessup of the State University of Iowa and one by Dr. W. F. Jones of the University of South Dakota. Facilities were provided for recreation. The average cost for each student during the first session was $25.08.

A rural life conference was held during this session, and was attended by nearly 200 persons, many of them rural ministers who were present for a few days.

A county superintendents' conference was held at the call of the State Department of Public Instruction. This was to enable the superintendents to come into closer touch with the new industrial subjects which the law requires to be taught in public schools. Regular work was arranged for the superintendents, and it was much appreciated.

The model school was again operated, and it proved a valuable supplement to the work given in methods of education.

In the work for rural and grade teachers, special attention was given to adapting the studies to rural conditions. For example, the home economics work was organized around a rural school home economics cabinet, a blue flame oil stove, and a homemade fireless cooker, the idea being to put the work in such form that the teachers can imitate it without change. In the manual training work, the teachers first made their work benches as they would do in their own schools. In agriculture, methods were employed which can be duplicated at home; but the superior agricultural equipment of the college was used to supplement and strengthen the instruction given to teachers.

SECOND SUMMER SESSION OF 1915.

In the second session the work given was similar to that in the first session. The attendance was small in comparison with that of the first session; but, considering that this is a new departure, the attendance was creditable. It indicated the desirability of continuing this session.

SUMMER SESSION OF 1916.

For a period, there was some uncertainty as to whether common branches should be included in the schedule of subjects for this summer session; and while the matter was in doubt, some persons who would have attended made other arrangements. The enrollment, however, for the first session was 737 from 94 counties and for the second session 261 from 69 counties. Eighteen new subjects were introduced in the curriculum of the first session, all of them being of collegiate grade. The interest in collegiate courses in the summer period showed further increase. 380 students were enrolled in collegiate agricultural studies, 324 in fundamental subjects, including botany, chemistry and bacteriology; 56 in home economics studies, and 106 in engineering studies. In some cases, students were enrolled in two or more of these main groups. The average cost of instruction during the first part of the summer session per student was $30.59. There is a wide variation between different studies. For example, the student cost per hour in agricultural education was $2.87, while in agricultural engineering it was $8.69. Too much

weight should not be given to these figures, however, as they vary considerably with the changes of enrollment.

The model school was again conducted, being used regularly by students in didactics and visited by large numbers of other summer session students. A garden was conducted in connection with the model school, and superintendents and rural school teachers were given instruction and suggestions as to what can be done in this way throughout the state.

A rural life conference was conducted for two weeks with an interested group of rural ministers and others interested in rural welfare in attendance.

SECOND SUMMER SESSION OF 1916.

In the second part of the 1916 Summer Session, there were 135 men enrolled and 126 women. 185 students continued their work from the first session. Rural and grade teachers' work was taken by 114. 132 carried regular college work.

COLLEGE FUNCTIONS.

Some of the most prominent men and women of the United States have addressed the entire student body or groups of students interested in certain subjects.

At the commencement in June, 1915, the baccalaureate sermon was delivered by former President A. B. Storms and the commencement address by President F. W. Gunsaulus of Armour Institute; in 1916 the baccalaureate sermon was delivered by Rev. Burris A. Jenkins of Kansas City, Mo., and the commencement address by President W. O. Thompson of Ohio State University.

A notable series of lectures was given in March, 1916, by Ex-President William H. Taft, who spent three days on our campus and delivered one lecture each day on the general subject of citizenship. Ex-President Taft inspired and fascinated large audiences which crowded the Gymnasium, and he instructed them in some of the fundamental principles of good citizenship which are too poorly understood by citizens generally.

Following is a list of some of the prominent speakers at convocations and meetings, with the dates of their appearance.

1914-15.

Sept. 24, 1914—President of the College.

Nov. 20, 1914—Greater Iowa Day—Governor George W. Clarke and Mrs. Benjamin B. Clark, President of Iowa Federation of Women's Clubs.

Nov. 30, 1914—William A. Sunday, Evangelist.

Jan. 16, 1915—Hon. David F. Houston, Secretary of Agriculture.

Feb. 18, 1915—Hon. Raymond Robins, Chicago, Illinois.

Feb. 21, 1915—Hon. Raymond Robins, Chicago, Ill.

Mar. 10, 1915—Sherwood Eddy, New York City.

April 27, 1915—George E. Vincent, President of University of Minnesota.

May 14, 1915—B. H. Hibbard, Professor of Agricultural Economics, University of Wisconsin.

1915-16.

Oct. 29, 1915—Founders' Day—Governor George W. Clarke and the President of the College.

Dec. 4, 1915—Closing Panama-Pacific Exposition—Dean C. F. Curtiss.

Mar. 2, 1916—A. J. Elliott, New York City.

Mar. 23, 1916—Hon. William Howard Taft.

Mar. 24, 1916—Hon. William Howard Taft.

Mar. 25, 1916—Hon. William Howard Taft.

Apr. 3, 1916—W. A. Tener, Manila, P. I., and New York City.

Apr. 26, 1916—Mrs. Carrie Chapman Catt, New York City.

May 15, 1916—Hon. William Jennings Bryan, Lincoln, Nebr.

RELIGIOUS SERVICES.

The Sunday morning chapel services, with non-resident speakers, have continued to grow in interest; and the Agricultural Assembly Hall, which is the largest seated room on the campus, has become quite inadequate for these religious meetings. The speakers represent all of the leading religious denominations but the services are non-sectarian. Occasionally the platform is occupied by a layman who speaks on a religious subject. The speakers have included the following.

Year 1914-1915.

President C. M. Stewart, Garrett Biblical Institute, Evanston, Illinois.

Rev. Howland Hanson, First Baptist Church, Des Moines, Iowa.

Mr. A. J. Elliot, New York City, International Secretary, Y. M. C. A.

Dr. E. A. Steiner, Grinnell College, Grinnell, Iowa.

Professor C. E. Seashore, State University, Iowa City, Iowa.

Dr. Harry D. Ward, Boston Theological Seminary, Boston, Mass.

Rev. Everett Dean Martin, Unitarian Church, Des Moines, Iowa.

Dr. Shailer Mathews, Dean of Divinity School, University of Chicago.

Rev. E. E. Higley, Des Moines, Iowa.

Miss Mary McDowell, University of Chicago Settlement.

Miss Maud Kelsey, International Secretary, Y. W. C. A., New York City.

Dr. W. T. Elmore, Missionary from India.

Rev. J. H. Batten, Grand Forks, N. D.

Rev. Henry F. Cope, Secretary Religious Educational Association, Chicago, Ill.

Mr. Fred M. Hansen, State Secretary Y. M. C. A. County Work, Des Moines, Iowa.

Miss Ogbourne, National Secretary Y. W. C. A., New York City.

Rev. Titus Lowe, Omaha, Nebraska.
Mr. Raymond Robins, Chicago.
Rev. Father Nugent, Catholic Church, Des Moines, Iowa.
Professor Florence Richardson, Drake University, Des Moines.
Dr. Martin, Drake Theological Seminary, Des Moines, Iowa.
Dr. B. H. Hibbard, University of Wisconsin.
Dr. R. C. Hughes, Secretary Educational Board of Presbyterian Church, Madison, Wisconsin.
Dr. D. W. Wylie, Presbyterian Church, Iowa City.
Professor Julius Boraas, Evangelical Lutheran Church, Saint Olaf College, Northfield, Minnesota.
W. A. Tener, General Secretary Y. M. C. A. Manila, Philippine Islands.
Rev. Frank M. Sheldon, Secretary Educational Board of the Congregational Churches, Boston, Mass.

Year 1915-16.

Dr. E. A. Steiner, Grinnell, Iowa.
Dr. F. M. Sheldon, Boston, Mass.
Dr. Howland Hanson, First Baptist Church, Des Moines, Iowa.
Dr. Richard C. Hughes, Secretary, University Work, Presbyterian Church, Madison, Wisconsin.
Mrs. McCleary, Missionary from Western Africa.
Dr. G. D. Crissman, First Methodist Church, Boone, Iowa.
Dr. C. S. Medbury, Christian Church, Des Moines, Iowa.
Pres. W. L. Bryan, Indiana University.
Rev. Wm. Hints, Methodist Church, Osceola, Iowa.
Dr. Shailer Mathews, Dean Divinity School, University of Chicago.
Archbishop James J. Keane, Catholic Church, Dubuque, Iowa.
Bishop Beecher of the Episcopal Church.
Prof. H. F. Rall, Evanston, Illinois.
Dr. F. M. Sneldon, Boston, Mass.
Prof. Adrian M. Newens, Des Moines, Iowa.
Miss Emma F. Byers, District Executive Y. W. C. A., Minneapolis, Minn.
Dr. A. B. Storms, Indianapolis, Indiana.
Prof. T. N. Carver, Harvard University.
A. J. Elliott, International Secretary Y. M. C. A.
President Ozora Davis, Chicago Theological Seminary.
Rev. Sears Thomson, Hibbing, Minn.
President C. W. Flint, Cornell College, Mt. Vernon, Iowa.

MUSIC.

It is worthy of special note that the students of Iowa State College have been given unusual opportunity to hear musical events of the highest quality, and that they have responded in such large numbers as to indicate their great appreciation of these entertainments.

During the year 1914-15 the following musical attractions were offered.

October 15—U. S. Marine Band.
December 12—Maud Powell, violinist.
March 20—Julia Culp, Lieder-singer.
May 7-8—First Annual Music Festival. David Bispham, baritone; New York Symphony Orchestra.

And in 1915-16 the program included the following:

October 29—Evan Williams, tenor.
January 14—Louise Homer, contralto.
March 10—Mischa Elman, violinist.
May 5-6—Second Annual Music Festival. Anna Case, soprano; New York Symphony Orchestra, and Josef Hofmann.

On account of the very large attendance in the college gymnasium, the Musical Council has found it possible to make the prices for these musical events almost nominal and yet pay all expenses from door receipts.

INTERCOLLEGIATE ATHLETICS.

The supervision of this branch of student affairs is entrusted to the Athletic Council. Under special action by the Board of Education, this college co-operates with other institutions belonging to the Missouri Valley Conference; and the status of athletic affairs generally is highly satisfactory. Strong emphasis is placed on honorable sportsmanship.

The Athletic Council has carried out a great task in erecting concrete bleachers on the athletic field at a cost of about $32,000, and nearly this entire amount has been paid off with the help of gate receipts, alumni contributions, and the assistance of students, citizens of Ames, and others.

ALUMNI BUREAU.

The Alumni Bureau, under the secretaryship of Professor Ward M. Jones, is performing a valuable service by helping to keep the college in touch with its alumni. Last year, under the presidency of J. W. Hook, '05, a campaign was successfully carried on among the alumni to wipe out an old debt that had long hampered the work. The office of the Alumni Association is in Alumni Hall, the headquarters of graduates of the institution. It is confidently hoped that the alumni of this college will become better organized and will assist even more generously in supporting the college work, as is now being done by the alumni of other older institutions.

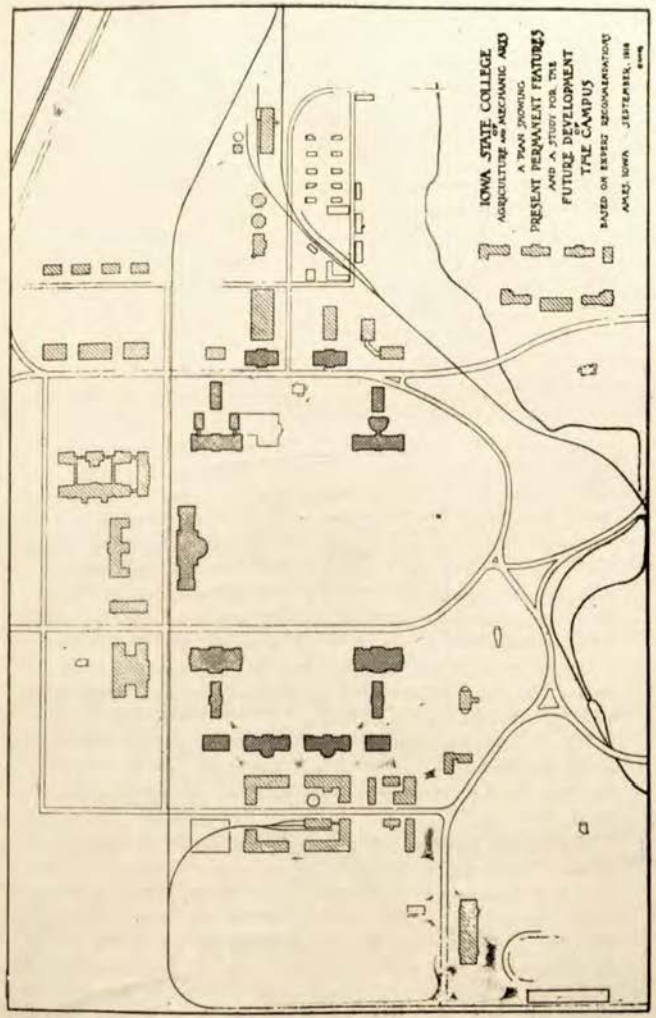
THE CAMPUS.

With the aid of Mr. O. C. Simonds, the eminent landscape gardener of Chicago, whose services have been furnished for two years by Dr. LaVerne W. Noyes, '72, of Chicago, much improvement has been effected on the campus. The new planting around the buildings and at various places on the grounds, especially in the vicinity of the new lake, is now making itself felt. The work began in the spring of 1915, and during the season conditions were excellent for transplanting and growing. The work was continued through the season of 1916, but growth was checked on account of dry weather. Dr. Noyes has offered to continue the services of Mr. Simonds another year.

Lake LaVerne, donated by Dr. Noyes, who placed $10,000 at the disposal of the college for the construction of this lake, adds greatly to the beauty of the grounds. It has been named in honor of the donor. It is situated in the valley of College Creek, with the foot of the lake near Boone Street and opposite Lynn Avenue. The lake covers about three and one-half acres. Besides affording a delightful change in the landscape, it furnishes a much needed place for skating, and its facilities are fully appreciated by the student body. Resolutions of appreciation on account of the generosity of Dr. Noyes have been adopted by the Board of Education, the College Faculty, Alumni groups, and the Student body.

A campus map, showing a complete and permanent group of buildings, has been prepared after much discussion. The arrangement shown seems to represent important features in a satisfactory way.

This map is not intended to represent the arrangement of the campus in the near future. It is intended merely as a guide for development. Buildings that are not fireproof are not considered. Locations are indicated, but size and form of future buildings are not definitely fixed, and even locations may be varied somewhat without interfering with the essential features of the plan. The main feature is the central campus, surrounded on three sides by stone buildings symmetrically arranged. Outside of this line of stone buildings, there are fireproof brick buildings to house numerous departments, laboratories, pavilions, barns, shops, etc. It



is intended to use the present non-fireproof buildings as long as possible.

The "North Road" referred to in my last report is now completed and in use. The road adjacent to the Chicago and North Western Railway right-of-way from the North Road east to Squaw Creek, is fenced; but construction work is not yet started. The service road running north and south between the engineering shops has been put in good order with concrete curbs, and a new service road approaching the Dairy building from the north now replaces the old awkward and unsafe approach from the south. The permanent campus plan shows a new location for the street car line crossing the campus, bringing the track to an east and west line instead of a diverging line as at present.

BUILDINGS AND LAND.

BUILDINGS.

Soon after the beginning of the biennium, the Chemistry building, the Plant Propagation Building and Greenhouses, and the first of the new group of dormitories for women were finished. These buildings were occupied during the year 1914-15, but the dormitory was not ready for use until the second semester. These buildings have come up to expectations; they are creditable to the architects, Proudfoot, Bird & Rawson; and they have been well built by contractors under the general supervision of Superintendent Thomas Sloss.

The Dairy building has been practically enlarged by having its top or attic floor finished and partitions built; and thus a large, well-lighted room is made available.

The Engineering Annex has been improved by having its attic, which was formerly used as storage space, put into suitable condition for physics laboratories, thus relieving considerable pressure on Engineering Hall.

The Science building was practically completed during the biennium. This building, however, is intended to constitute less than half of a structure to be devoted to fundamental science instruction. The portion of the building erected was limited in cost to $65,000. Unfortunately, the contractor on this job failed, and the building was finished under the direction of the Superintendent of Buildings. The Science building is a plain brick structure, fireproof throughout, and excellently lighted and ventilated. The portion of

the building now in use is about 52 feet wide by 114 feet long, and has four floors.

A second dormitory, also, was practically finished during the biennium. This is located east and slightly north of the dormitory finished the preceding year, and is built on the same general plan. Both buildings are Colonial style. The second dormitory accommodates 93 young women and has a guest room for parents, an accommodation that has been greatly needed. These dormitories seem to represent the maximum of economy, and it is desirable that at least some of the buildings in the group shall accommodate smaller families of young women, even though the per capita cost is slightly increased. Considerable increase could be made without bringing the per capita cost of construction as high as obtains at other institutions in the state, or as high as is common in eastern institutions. The cost of this dormitory was limited by legislative action to $60,000, and the contract called for slightly less than this amount. The contractor, however, failed; and the job was finished in a creditable manner by the Superintendent of Buildings.

New bleachers constructed of reinforced concrete have been built on the west side of the athletic field. Funds for this purpose were contributed by alumni, faculty members, and students, the total cost being about $32,000. About $3,000 of this amount was paid from the unexpended balance of the Student Repair Fund, in accordance with the wishes of the Cardinal Guild.

The state has purchased the residence belonging to Professor O. H. Cessna and temporarily rents it to a member of the staff. Eventually the house will need to be moved to a different location to make place for a dormitory building.

Three cottages located in different places on the campus have been moved to sites opposite the power plant, where it is intended to have a group of houses for the engineer in charge of the power plant, the herdsmen and others whose duties require them to live on the campus.

A horse barn has been erected on the Dairy Farm at a cost of about $4,300. It provides space for horses and farm machinery and has a commodious feed storage room.

Provision has been made for building an addition to the experimental feeding shed and for the erection of a corn crib and a scale house. A temporary structure costing about $1,600 will be provided for the Department of Military Science and Tactics before the opening of the next college year, and a fund of $2,000 has been

set aside for a small animal building for the Animal Husbandry Department.

A new water filtration plant is practically finished, there being a slight delay in the installation of the equipment. This plant is expected to furnish clear water at all times. In the past, at frequent intervals, the water has been chocolate colored on account of the large amount of iron in suspension.

Plans are completed for the construction of four additional buildings which will be started before winter, namely: A Hospital at a cost of $35,000; an Animal Husbandry Laboratory building at a cost of $50,000; a dormitory for women at a cost of $45,000; and a Dairy Barn at a cost of $18,000. It may prove desirable to slightly change the costs of these buildings from the amounts mentioned, which in two cases are below the allowances authorized by the legislature.

Additional new buildings which are greatly needed include the following: Library, Home Economics building, Physics building, Auditorium, Dormitories, Addition to Dairy building, Beef Cattle barn, Drill Hall, Coliseum, Addition to Veterinary buildings, Shop and Storerooms, Agronomy building and Practice School.

LAND.

It might seem that the college has sufficient land for all purposes, but it should be remembered that much of this is subject to overflow, that a large area is covered by woods, that the best of the land is occupied by the main college campus, and that the college has unusual needs for land because of the nature of the instruction. Additional land is needed, and should be purchased at this time before prices are higher. An Animal Husbandry Farm of at least 200 acres should be purchased in the vicinity of the college to provide pastures and barn room and meadows and tillable fields for the college livestock. Suitable accommodations are not now available, and the livestock, as well as instruction and experimental work, is suffering on this account. The cost of a suitable farm with equipment would be $75,000.

A Horticultural Experiment Farm costing $12,000 is desirable, so that horticultural experiments may be carried on under climatic conditions different from those at Ames. The famous Charles G. Patten farm at Charles City is available and the college holds an option upon it. The purchase of this land is strongly recommended so that the state may come into possession of land in a suitable location, and, above all, so that it may acquire the large amount of experimental material which Mr. Patten has developed. This land and some necessary permanent improvements would cost $12,000.

Additional land is needed near the campus for dormitory purposes. Through friends of the college, options have been secured on lots adjacent to the campus, the total cost amounting to $43,250. The value of this land is rising constantly, and it would be an economy to the state to take it at this time. The purchase would be an investment, as the property could be disposed of on good terms if this is desirable later.

A Veterinary Research Farm also is needed. Its cost would be about $32,000, and it would be used for experimental work along veterinary lines, for the making of biological products, and for clinical material.

EQUIPMENT.

A detailed statement concerning purchases of equipment is contained in the Secretary's report.

Much additional equipment is needed to replace that which is no longer useful and to provide facilities that are up-to-date in the older as well as the newest departments. It has been the custom to purchase equipment from the Support Fund, especially the portion of this fund not included in regular salaries and expenses during the first year of the biennium; and in recent years the amount thus available has been supplemented by special equipment appropriations. If it is desired to restrict equipment purchases from the Support Fund, obviously the special equipment appropriation should be increased. At the present time there are in the President's office requests for much needed equipment amounting in value to more than one hundred thousand dollars, and new needs are being reported almost daily. It is well known that equipment in commercial enterprises has to be renewed because of inventions and improvements constantly being placed upon the market. Of course the educational institution is subject to the same expense, as it does not do to retain equipment for instruction purposes long after similar equipment has been discarded by practical men, except occasionally a piece which is kept for its historical value. We have not yet finished equipping the new Chemistry Building, and some of the laboratories are still using rickety tables and insecure cupboards, neither of which contributes to good laboratory work or to safety of apparatus. It was decided to spread the expense of

the new Chemistry Building equipment over several years, and good progress is being made in carrying out this plan.

Much could be said about the need of better library facilities. Reference books are necessary where science is taught and where problems are investigated. Many books and other documents must be purchased to enable us to keep in touch with the progress made elsewhere. At the present time, library books are being borrowed from several different states and at considerable cost for transportation of the books to and from Ames. While it is a benefit to us to have generous friends in other states who are willing to loan their books, yet this is not entirely satisfactory because of delays incurred. Instead of $5,000 annually for the library, $20,000 could be used to advantage.

During the biennium the Engineering Division received as gifts some noteworthy additions to its equipment. The Chicago & North Western Railway presented the division with a locomotive for use in instructional work in the locomotive laboratory; the Midvale Steel Company, of Philadelphia, Pennsylvania, presented the division with eight supporting wheels which carry the locomotive being tested in the locomotive laboratory; and in the spring of 1915 the Chicago & North Western Railway gave the students in Railway Engineering the opportunity to make tests of railway trains in actual operation by loaning their dynamometer car and operating it in trains between Boone and Carroll. These gifts and the splendid co-operation of the Chicago & North Western Railway, are acknowledged with appreciation.

ADMINISTRATIVE WORK.

The administrative work of the college is centered largely in a few offices, the President's Office being the head of all. Many matters of minor importance are cared for by different officers of the college or by the Finance Committee of the Board of Education, acting with the president. All of the most important items are presented by the president of the college to the Board of Education for definite action as to policy. The actions of the Board of Education are carried out through regular administrative channels.

The President reserves much time for consultation. He attends and presides at practically all meetings of the Board of Deans, at the College Faculty meetings, and at as many as possible of the division faculty meetings.

The College Faculty is the legislative body for college affairs. Many legislative questions relating exclusively to divisions are handled by division faculties. The Board of Deans consists of the dean of each division and vice-deans where appointed, the dean and vice-dean of the Junior College, and the president. The Board of Deans does not legislate but assists in determining upon and carrying out executive actions.

The Secretary of the College, Dr. E. W. Stanton, is also vice-president and dean of the Junior College and head of the Department of Mathematics. As Secretary, he keeps all records of the actions of the Board and Finance Committee relating to the college, keeps accounts of all appropriations, and audits all bills. He also keeps records of contracts and agreements. In the Secretary's office a large amount of detail work is well handled. As Dean of the Junior College, Dr. Stanton supervises the classification of all freshman and sophomore students. He gives personal attention to many individual cases where students need help or advice or caution in reference to their work. In this office the records of all students in the Junior College are kept.

The College Treasurer, Professor Herman Knapp, also acts as purchasing agent and registrar; and he has charge of the formal announcements of courses of instruction. The Treasurer receives funds from the United States Government, from the State Treasurer, and from fees and other local sources, and he pays out funds as properly directed. As Registrar, Professor Knapp has charge of all records of entrance into the college and all class standings. As Purchasing Agent, he makes all purchases required by the college except cream and milk in the Dairy Department. Bids are called for whenever this is desirable, and orders are issued on blanks especially provided for the purpose. The College publications include the general catalogue, the college directory and various circulars giving information in regard to the college and its courses of instruction. Bulletins issued by the experiment stations and the extension departments are referred to elsewhere.

Mr. Thomas Sloss, the Superintendent of Grounds and Buildings, has general supervision of the campus and all college structures. He reports directly to the President. The Superintendent has supervision of the college heating and lighting plant and of workmen employed on the campus, including janitors. Superintendent Sloss is an experienced builder, and the college has availed itself of his

knowledge along this line on various occasions. At the present time he is in charge of the construction work on two buildings which could not be finished according to contract because of the failure of the contractor. The Superintendent of Grounds and Buildings has immediate charge of funds appropriated for Repairs and Minor Improvements and for Maintenance and Improvement of Grounds. On account of the increasing size of the plant, additional funds are needed for both of these purposes.

The College Hospital is supported from the payments made by students as incidental fees. A physician and two trained nurses are in constant attendance. The health of the community is considered above par, yet in the course of the year there are many cases needing hospital attention. The following table shows the number of cases cared for during the biennium:

	1914-15	1915-16
Total number of bed cases	360	378
Total number of dispensary cases	11,160	10,927
Total	11,520	11,305

There were two fatal cases in each of the years.

Provision has been made for a new hospital, and construction will begin this fall.

The clerical work in the administrative offices continues to increase. Obviously this would be the case with the increasing enrollment. As many as one hundred letters a day are handled in the President's Office. Some additional clerical help is needed in the administrative offices so as to permit the officers of the college to give their time and energy to more important duties.

FINANCES.

The financial operations of the college are given in detail in the reports of the Secretary and Treasurer. The State appropriations which will be available in 1916-17 for regular teaching work at the college and for equipment, maintenance of equipment, improvements and contingent requirements are as follows:

Acts and Purposes	Educational work at Ames	Equipment, repairs, improvements, etc.
Sec. 2, S. F. 288, 36 G. A.:		
Permanent collegiate support fund	$ 165,000	
Summer Session	20,000	
Two-year and four-year courses in home economics for home-makers and teachers	20,000	
Sub-collegiate courses in agriculture, home economics and engineering	54,000	
Contingent fund, repairs, and minor improvements		40,000
Library, books and periodicals		5,000
Maintenance and improvement of public grounds		10,000
Sec. 2, S. F. 242, 36 G. A.:		
Additional equipment and furnishings for buildings and departments		52,500
Repairs and improvements for dairy building, old agricultural hall and barns, temporary provisions for fruit storage, and small buildings and additions to buildings		13,250
Temporary provisions for home economics laboratory		750
	299,000	127,300

Note: In 1915-16 special additional appropriations were available in the biennium for construction of the following improvements, (S. F. 242):

Extension of heating system and equipment of heating plant	$ 32,000
Settling and storage water tank and connections	15,000

National funds, including income from endowment funds, available for educational work amount to practically $85,000.

A special biennial state appropriation provided a fund of $150,000 for construction of buildings in 1915-16 and the same amount in 1916-17.

A large part of the appropriations available to the college is for the support of Industrial Service work, including experimental, extension and short course work, which is entirely apart from the educational work at the college. Frequently the error is made of assuming that experiment station funds and all other sums appropriated for Industrial Service work performed by the college are used for regular instruction work. Such funds are referred to elsewhere in this report.

I consider that the following additional appropriations are necessary in order to provide for the continued growth of the institution and to maintain its standard of work:

A. ADDITIONAL SUPPORT FOR EDUCATIONAL WORK AT THE COLLEGE, ANNUALLY BEGINNING JULY 1, 1917.

1. Collegiate departments	$193,950
2. Summer Session	10,000
3. Non-Collegiate courses in agriculture and home economics and trade school work in engineering	23,180
4. Contingent fund, including repairs and minor improvements	5,000
5. Library, books and periodicals	15,000
6. Maintenance and improvement of public grounds	5,000
Total	$252,130

B. SPECIAL APPROPRIATIONS FOR IMPROVEMENTS OF THE COLLEGE, GROUNDS AND BUILDINGS, INCLUDING EQUIPMENT AND MINOR STRUCTURES, ONE-HALF OF WHICH AGGREGATE MAY BE USED EACH YEAR OF THE BIENNIAL PERIOD BEGINNING JULY 1, 1917.

7.	(a) Additional equipment and furnishings for buildings and departments, including buildings now under construction		*$150,000
	(b) Equipment for buildings authorized but not now under construction		56,000
8.	Extension of heating system and additional equipment for the heating plant.		
	(a) Tunnels	$75,000	
	(b) Heating plant equipment	16,000	91,000
9.	Sewer construction, including sewage disposal bed, and with understanding that not to exceed $8,500 may be paid to the city of Ames as a refund		20,500
10.	Repairs and improvements for stock barns, judging pavilions, and fences for farm, orchard and experimental plots		9,000
11.	Enlargements of buildings and small additional buildings		40,000
	Total for improvements		$366,500

C. SPECIAL ADDITIONAL APPROPRIATIONS FOR THE CONSTRUCTION OF BUILDINGS AND PURCHASE OF LAND.

The following buildings and land are most needed at this time:

12.	Library (supplementary to $95,000 already available)	$155,000
13.	Home Economics buildings	275,000
14.	Physics building (part)	100,000
15.	Coliseum	100,000
16.	Beef Cattle barn	25,000
17.	Veterinary Building addition	35,000
18.	Shop and storerooms	25,000
19.	Dormitory (self-supporting investment)	70,000
	Total for buildings	$785,000
20.	Animal Husbandry farm and equipment	$ 75,000
21.	Horticultural farm and equipment	12,000
22.	Additional property near the campus	43,250
	Total for land and equipment	$130,250

Additional needs which should be cared for in the near future include a veterinary research and serum farm, a drill hall, and other buildings.

*In addition to balance available from the collegiate support fund, as heretofore.

REPORT ON INDUSTRIAL SERVICE WORK, INCLUDING EXPERIMENTAL AND EXTENSION WORK AND SHORT COURSES

EXPERIMENTAL WORK.

Experimental work is conducted in connection with all of the main lines of work given at the college. Special appropriations for its support are made through the Agricultural Experiment Station, the Engineering Experiment Station and Veterinary Investigations.

A great number of problems arise in connection with the agricultural and other industrial life of the state. The people must know about materials for construction, substances used in agriculture and in manufacturing, diseases and pests of animals and plants, and changes taking place in the soil. Questions along these and other lines are received from large numbers of Iowa citizens. When the question is one which concerns many and appears to be important, a special effort is made to send a full and helpful reply, and if sufficient facts are not at hand then investigations are conducted to secure these facts. A large part of the industry and business of the state rests upon the work of the expert. A great manufacturing plant or a vast agricultural domain might maintain its own corps of investigators. Some do so, but the statistics that make Iowa farms and factories famous are made up of small items gathered from independent units where it would be impossible to maintain experimental equipment of a high order. The wealth represented by these units constitutes the bulk of the wealth of the state, and the experiment stations are popular and necessary because the interests to be served are enormous and the needs are very great. It has been said that the average farmer spends far more than ten dollars a year in experimental work. This is well. The funds so expended are used to advantage and the experiments conducted are helpful. They are worth much more than they cost. They are experiments which can be carried on with such equipment as the farmer may command. The cost of the Agricultural Experiment Station amounts to much less than a dollar for the average

farm a year, assuming that the farmers pay the entire cost. This amount sinks into insignificance when it is realized that because of our agricultural experiment stations farmers are now saving millions of dollars which would otherwise be lost from such causes as oat smut, the Hessian fly, and other pests and diseases, which destroy wealth that has been created. Furthermore, because of the agricultural experiment stations, farmers may add millions to their wealth through the use of better seed, which produces larger crops, and through better systems of feeding, which make more economical meat. Similar statements may be made in reference to engineering experimental work, which deals with the strength and serviceability of drainage tile, the economy of the gas engine, the durability of road materials, etc. In a state having live stock valued at nearly half a billion dollars, it does not seem necessary to argue that the expenditure of ten or fifteen thousand dollars a year to investigate animal diseases is desirable. The fact is that increased appropriations for all lines of investigational work would be an economy to the state.

AGRICULTURAL EXPERIMENT STATION.

The scope of this work has been slightly extended, and valuable help at minimum cost has been added through the appointment of a limited number of highly trained men as research fellows. These men, usually, are graduates of other institutions and they are working for advanced degrees at Iowa State College. They receive only nominal compensation on account of their services in the Experiment Station, considering the instruction received as part salary.

A practical piece of work which promises to mean much to the agriculture of this and other states was the perfection of a simple machine by which legume seeds have their outer shell scarified to permit moisture to gain access to the germ. The use of this simple device results in greatly increasing the percentage of germination of the seeds, and especially is this true of certain varieties of legume seeds which have particularly hard, resistant outer coatings. When seed is treated by this machine, less of it will need to be used. The saving will reach a large sum. Farmers report that they have secured a better stand with five pounds of scarified sweet clover seed per acre than they formerly secured from twenty pounds of untreated seed.

Investigations of Iowa soils have continued, with the result that more information is now available in reference to limestone requirements, thus leading to the wider use of clover and alfalfa.

New and better methods of hog feeding have been devised. Some improvements in methods of pasteurizing milk and cream have been suggested. The new varieties of oats, Iowa 103 and Iowa 105, continue to be distributed to Iowa farmers, and with excellent results. Reports from about one hundred farmers who tested out these varieties beside the best oats formerly available to them, show an increase of approximately five bushels an acre in favor of the new oats. A simple computation shows that if the Iowa acreage of oats could be planted to one of these new varieties, the increased production would be worth more than $5,000,000 a year.

A new variety of winter wheat now developed in the experiment station has been tested several years here, and was recently tested by certain Iowa farmers. It promises to furnish a hardy wheat which will save losses from winter killing.

A new variety of corn, which promises well, is now being tested out in the southern part of the state.

County soil surveys have been continued and, although the workers are proceeding slowly for want of funds, they are securing much valuable data. These surveys reveal important facts concerning the quantity and character of plant food in the soil. This question bears upon deficiencies of plant food, which has already become noticeable in some sections of the state. Some people think that Iowa soils are inexhaustible. In respect to some food constituents, they appear to be so; but in respect to others which are vital to the growth of plants the changes are becoming noticeable. However, some of these can be offset very easily. To do so we must have more accurate knowledge of what the soil contains and of its physical character. The demand for county soil surveys is very urgent. Petitions containing names of thousands of Iowa taxpayers are on file awaiting their turn. Without doubt, a large increase of funds for this work could be used to great advantage. At the present time, Iowa is behind other states in taking an inventory of its soils.

In his report for the biennium, Director Curtiss emphasizes, also, the value of co-operative field experiments and feeding experiments in different parts of the state and the need of extending this work for the good of the live stock interests of the state. A slight change in the interest of economy in feeding a hog means much

when it is remembered that ten million hogs annually are marketed from Iowa.

Experimental work is being conducted in capon production, devices to encourage larger egg production, and the keeping quality of eggs.

Attention has been given, also, to certain problems of the home, including the action of yeasts and the relations between certain substances when combined in cooking. Important investigations need to be made in connection with canning fruits and vegetables. Already some observations, especially in reference to bacterial actions, have been made by the Experiment Station experts. The extension workers in the field of home economics bring in many practical problems for the experiment station to solve. While valuable work has been done along these lines, much more needs to be done, and the women of Iowa are asking that these problems be studied.

The Botanical and Bacteriological Sections have done some valuable work which is fundamental to great processes in agriculture. Some of these investigations are still uncertain as to outcome, but some promise so well that the final results are awaited with keen interest.

In the Botany Section, many samples of seeds have been examined for their purity and vitality, with results that have made farmers realize the importance of this work and the dangers of buying impure seed.

The Chemical Section is engaged in the study of practical problems relating to forage plants and methods of analysis.

The Dairy Section is continuing experiments in reference to several dairy products and flavors, keeping qualities, and detrimental conditions affecting them.

In his report Director Curtiss mentions other interesting and highly valuable lines of work, including experiments in honey production; observations in reference to farm tenantry, which is a subject of the utmost importance to this state and the seriousness of which is but little realized; grape growing; profitable apple growing; the treatment of several diseases of fruit trees which have not become serious until in recent years; sweet corn; agricultural engineering and farm building construction, and still other topics. For each average day of the year Iowa farmers spend one million dollars on new buildings. Fifteen complete farmsteads are erected each average day, in Iowa. The Agricultural Engineering Section is devoted to the improvement of farm buildings, to making them more serviceable, less costly and of better appearance. This work does not compete with the architect. It would be done without an architect. The subject calls for much investigation as well as instruction.

It is worthy of special note that the investigation of apple orchards has brought out the fact that, with good care, an orchard in Iowa may be made highly profitable. Under the care of college experts, a 30-acre orchard in the western part of the state has had its production raised from 3,500 bushels in 1911 to 14,000 bushels in 1915. A practical orchard man claims that, with such care, this orchard would now return a net of 6% annual dividend on a valuation of $1,000 an acre.

The following information is taken from the reports of Director Curtiss and Vice Director Stevenson for the two years of the biennium:

Investigations were completed and publications issued as follows:

Agronomy: Bulletins Numbers—151, Soil Acidity and the Liming of Iowa Soils; 151 (Reprint), Soil Acidity and the Liming of Iowa Soils; 157, Improvement of Peat and Alkali Soils; 161, Maintenance of Fertility in the Wisconsin Drift Soil Area in Iowa. Research Bulletins numbers 17, Determination of Ammonia in Soils; 18, Sulfofication in Soils; 24, Determination of Amino Acids and Nitrates in Soils; 25, Bacterial Activities and Crop Production.

Agricultural Engineering: Bulletins Numbers—152, Colony Hog Houses (in co-operation with the Animal Husbandry Section); 166, Community Hog Houses (in co-operation with Animal Husbandry Section); 166 (Abridged), Community Hog Houses.

Animal Husbandry: Bulletins Numbers—152, Colony Hog Houses (in co-operation with the Agricultural Engineering Section); 165, Influence of Environment and Breeding in Increasing Dairy Production; 166, Community Hog Houses (in co-operation with Agricultural Engineering Section); 166, (Abridged), Community Hog Houses; Research Bulletin number 30, Inheritance of Color and Horns in Blue Gray Cattle.

Bacteriology: Research Bulletin Number 22, Ropy and Slimy Milk.

Botany: Research Bulletin Number 23, Relation of Moisture in Alfalfa Production.

Chemistry: Research Bulletins Numbers—16, Chemical Changes During Silage Formation; 26, Studies on the Determination of Sulfur as a Barium Sulfate.

Dairy Section: Bulletins Numbers—154, Pasteurizing Milk in the Final Package; 156, Pasteurization of Cream for Butter Making; 164, Studies on the Market Milk of Iowa; 164, (Abridged), Studies on the Market Milk of Iowa. Research Bulletins numbers 19, Bacteriological Studies of Evaporated Milk; 20, Bacteriological Studies on Two Yellow Milk Organisms; 27, Studies on the Formation of Gas in Milk; 28, Studies on the Clarification of Milk; 29, Studies on the Bacteria in Milk; 31, Studies on the Creaming Ability of Milk.

Entomology: Bulletins Numbers—155, Potato Insects; 162, Two Strawberry Slugs; 162, (Abridged), Two Strawberry Slugs.

Farm Management: Bulletins Numbers—159, Farm Leases in Iowa; 159 (Abridged), Farm Leases in Iowa.

Horticulture and Forestry: Bulletins Numbers 153, An Apple Orchard Survey of Mills County; 158, Preservative Treatment of Fence Posts; 158 (Abridged), Preservative Treatment of Fence Posts; 160, Grape Pruning; 163, Late Potato Blight in Iowa; Research Bulletin number 21, Hardiness in the Apple as Correlated with Structure and Composition.

Circulars were issued as follows:

No. 15, (Reprint) Testing Soils in Laboratory in Field.
No. 16, (Reprint) Care, Feed and Management of the Dairy Herd.
No. 19, The Control of Chicken Mites and Lice.
No. 20, Making Old Orchards Profitable.
No. 21, A Corn Stalk and Corn Root Disease in Iowa.
No. 22, The Hessian Fly.
No. 22, (Reprint) The Hessian Fly.
No. 23, Some Common Corn Insects.
No. 24, Successful Swine Rations for Corn Belt Conditions.
No. 25, Tests of So-Called Hog Cholera Cures and its Specifics.
No. 26, Fertilization of Lawns and Garden Soils.
No. 27, Renewing the Shelter Belt.
No. 28, Seed Corn for 1916 Crop.
No. 29, White Grubs in Iowa.

Press Bulletins were issued as follows:

No. 36, Announcement of the Perfecting of a Machine for Increasing the Germination of Legume Seed.

The above publications include 1,842 pages, and the total number of copies in all editions was about 800,000, representing more than ten million printed pages for each year of the biennium.

As is usual, a large quantity of material is completed and ready for publication and will appear as rapidly as final editing and funds available for publications will permit.

Changes in the Staff During the Biennium.

The following appointments were made:

W. G. Kaiser, Assistant in Agricultural Engineering.
H. B. Munger, Chief in Farm Management.
Knute Espe, Assistant in Soil Survey Work.
A. R. Lamb, Assistant in Chemistry.
S. B. Kuzirian, Assistant in Chemistry.
A. T. Erwin, Chief in Truck Crops.
Martin F. P. Costelloe, Acting Chief in Agricultural Engineering.
William W. Stanfield, Assistant in Farm Crops.
Harlan W. Johnson, Assistant in Soils.
Gerald P. Plaisance, Assistant in Chemistry.
Gramille Wade Roark, Jr., Assistant in Chemistry.
Daxter E. Bailey, Assistant in Dairying.
George Henry VonTungeln, Chief in Rural Sociology.
George Miller, Assistant in Dairy.
C. E. Bartholomew, Assistant in Entomology.
F. S. Wilkins, Assistant in Farm Crops.
A. C. McCandlish, Assistant in Dairy Husbandry.

The following resignations were accepted:

J. B. Davidson, Chief in Agricultural Engineering.
Martin E. Sar, Assistant in Soils.

Elmer L. Scales, Assistant in Farm Crops.
J. W. Bowen, Assistant in Chemistry.
Philip L. Blumenthal, Assistant in Chemistry.
S. C. Guernsey, Assistant in Chemistry.
George Miller, Assistant in Dairy.
Ray E. Neidig, Assistant in Chemistry.
C. W. Porter, Assistant in Agricultural Engineering.
F. S. Wilkins, Assistant in Farm Crops.
William W. Stanfield, Assistant in Farm Crops.

H. E. Summers, Chief in Entomology, is on leave of absence on account of illness.

One death has occurred in the staff, Miss Harriett Kellogg, Assistant in Botany.

Improvements completed and provided for include considerable under-drainage, as well as a residence for the superintendent of the new experimental farm and certain minor buildings, besides fencing and the addition of various equipment.

It is doubtful if the work of the Experiment Station has at any time been of greater practical value to the farmers of the state. Special attention was given during the year to practical problems that the farmer deals with from the standpoint of the management of his soil, the production of crops, the feeding and breeding of live stock, the construction of farm buildings, the growing and marketing of fruit and truck crops, the production of dairy products, and general farm management questions. During the year, thousands of letters came to the station from citizens of the state asking for practical and helpful information upon a variety of subjects along the lines just mentioned.

The Staff recognizes the fact that it is the function of the station to carry on some investigational work of a strictly scientific nature. The fact is not overlooked, however, that the station must also deal with a large number of practical problems that the farmer must deal with every day in his farming operations. It is ever the purpose of this station to maintain a balance between this strictly scientific work and a study of the every day problems of the farmer. The work of the past year gives evidence that the staff succeeded admirably in working in accord with this principle.

The station has coöperated in numerous ways with farmers, county agents and other parties. This work has the endorsement of those who are in touch with it. The station has been especially successful in reaching farmers and influencing farm practice through its coöperative work with county agents and farmers.

ENGINEERING EXPERIMENT STATION.

The engineering experiment station work is conducted in two main divisions. One includes general engineering experiment station matters covering all lines of engineering research applicable to this state, except good roads work, which constitutes the other division.

Several investigations have been completed and manuscripts await publication; but this is not possible because of limited funds. It is a surprise to a layman to learn of the enormous interests within this state that depend more or less upon such information as is developed in an engineering experiment station. These problems come near to the life of the people and affect, directly, their financial interests.

Director Marston submits the following as some of the more important special lines of research conducted during the last biennium:

Electric Central Station Operation in Iowa.
The Use of Oil Engines for Power Stations.
Electric Lighting Plants for Private Houses.
Making and storing Ice on the Farm.
Locomotive Tests and Comparative Value of Iowa and Illinois Coals.
Electric Water Pumping.
Investigation of Iowa Fire Clays.
Method of Drying Iowa Clays.
Investigation of Aggregates for Concrete.
Investigation of Iowa Pavements.
Durability Tests of Iowa Drain Tile and Sewer Pipe.
Strength of Reinforced Concrete Culverts.
Testing of Flour for Iowa Milling Industry.
Investigation of Theory of Loads on Pipes in Ditches.
Investigation of Theory of Loads on Culverts.
Investigation of Sewage Disposal Plants for Private Homes.
Investigation of Sewage Disposal Plants for Schools.
Laboratory Study of Materials for Roadway Surfaces.
Investigation of Prepared Roofing Materials.
Investigation of Rust Resisting Properties of Metal Culverts.
Investigation of Inhibitive Properties of Paints.
Investigation of Road Drainage.
Investigation of Garbage Disposal for Iowa Towns.
Investigation of Use of Hollow Tile for Small Buildings.
Investigation of Load Distribution on Bridge Floors.
Investigation of Interpretation of Water Analysis.
Standardization of Disinfectants.
A Study of Iowa Coals.
Investigation of Automobile and Lubricating Oils.
Investigation of Effect of Bedding on Strength of Drain Tile and Sewer Pipe.
Study of Different Tile Systems for Drainage.
Operation and Observation of Drainage Experiment Stations.
The Insulation of Kilns.
The Operation and Care of Small Telephone Central Station Outfits.

Special attention has been given to different kinds of materials for road surfaces. Experiments have been conducted with bituminous surfaces applied to concrete bases, on the campus of this college and on the concrete road between Mason City and Clear Lake; but attention has been given more extensively to the construction and maintenance of gravel roads. The study has included the application of road oils to gravel. These experiments have been conducted near Fort Dodge, Spirit Lake and Rockwell City. Some experiments are being made, also, on the application of oil to earth roads.

The technical service work conducted through the engineering extension office is intimately connected with the experiment station work. The technical service bureau gives attention to questions that cannot be cared for by engineers in private practice. At many places in the state assistance has been given in the development of engineering questions of public interest. Considerable help has been given to state departments and institutions.

Dean Marston emphasizes the need of increased appropriations to retain the services of present employees and, to a small extent, increase the work along lines that are being strongly urged upon us.

One investigation needing special attention is an extension of work already done in connection with standards for drain tile. Cement pipe manufacturers and users now are in need of similar experiments for the larger tiles or pipes and for the want of this information important work in the state is being held up.

The Engineering Experiment Station staff consists of the following men:

One director, seven professors and two associate professors, who devote only a limited portion of their time to the work, and whose duties are, to an important degree, of an administrative character, although they are expected to do as much investigational work and writing of bulletins as practicable.

The following constitute the staff for conducting most of the regular investigational and testing work of the station:

One assistant to the director, half time.
One professor, one-third time.
One professor, one-tenth time.
One associate professor, one-seventh time.
One assistant professor, one-seventh time.
One industrial engineer, one-third time.
Three engineers, full time.

One chemist, full time.
Two laboratory assistants, full time.
One mechanician, half time.

The following bulletins have been published during the biennium:

Bulletin No. 37. Illuminating Power of Kerosenes.
Bulletin No. 38. Electric Central Station Operation in Iowa.
Bulletin No. 39. Good Roads and Community Life.
Bulletin No. 40. An Investigation of Iowa Fire Clays.
Bulletin No. 41. Sewage Disposal for Village and Rural Homes.

Additional manuscripts are ready for publication.

VETERINARY INVESTIGATIONS.

The veterinary research work has suffered by reason of the continued absence of Dr. Schern, who has been detained in Europe on account of the war. But good work has been accomplished by Dr. Murray and Dr. Willey of the Veterinary Division staff. This work is of the highest importance to the live stock interests of the state, and live stock men have often expressed this view. During the biennium much attention has been given to the examination of tissues and to laboratory diagnoses. Large numbers of specimens are received from veterinarians and farmers, with the request that these be examined and that information be returned. Thus the laboratory has assisted veterinarians in the diagnosis of many doubtful cases and it has sent advice to many stock men who were unable to secure veterinary service. Special attention has been given, also, to the investigation of animal diseases with reference to their causes and special treatment. Reports have been prepared upon paralysis of swine and upon serum treatment of hemorrhagic septicemia. In connection with this latter disease some significant results have been obtained, and the work should be carried on further to verify what has been done, when it is hoped that some highly valuable conclusions may be published. Contagious abortion of cattle is another disease under investigation. This disease causes very heavy losses throughout the country.

Roup and fowl cholera are being studied with good promise of results that will be worth much to the poultry interests.

The value of the diagnosis work conducted in the veterinary research department may be appreciated by a statement of the number and character of diseases diagnosed from specimens received as follows:

Hemorrhagic Septicemia—Cattle 80, Horses 8, Sheep 22, Fowls 5.
Tuberculosis—Cattle 10, Fowls 27, Hogs 49.
Blackleg—Cattle 21.
Parasitism—Cattle 7, Horses 5, Sheep 4, Fowls 11, Hogs 22.
Roup—Fowls 35.
Rabies—Horses 2, Dogs 8, Hogs 5.
Infectious Abortion—Cattle 38.
Hog Cholera—65.
Silage Poisoning—Cattle 3, Horses 3, Sheep 5.
Infectious Rhinitis—Hogs 7.
Caseous Lymph-adenitis—Sheep 7.
White Diarrhea—Chick 1.
Glanders—Horses 2.
Infectious Enteritis—Hogs 9.
Entero Hepatitis—Turkeys 2.
Actinomycosis—Cattle 1.
Johnes Disease—1.
Anthrax—Cattle 2.
Paralysis of Swine—31.
Malignant Oedema—Horse 1.
Leukæmia—Cattle 2, Horse 1, Hog 1.
Tumors—Horses 14, Cattle 5, Chicken 1.
General Cases—122.

EXTENSION WORK.

Extension work is developing rapidly throughout the United States. A great impetus has been given by national legislation and the recognition by Congress and by many legislatures of the high value of this kind of work. In our college the extension efforts are directed from two offices, each responsible directly to the president. But these offices, as all others on the campus, coöperate closely with other departments having similar interests. Special emphasis is given to the importance of extension workers keeping in close touch with investigators and college teachers engaged along the same lines of work. Extension workers cannot "extend" the benefits of the college to the state as a whole unless they are in close touch with those who are working on new problems and perfecting our knowledge as is done in the college fields, shops, laboratories and classrooms. It is because of the necessity of this contact that extension work prospers best when closely associated with the college.

A notable feature of the extension work has been the close coöperation given by the public in the many communities where this work has been offered. The requests and demands from the public are responsible for the growth of this work. It has been impossible for the college to respond to all of these. The value of this

kind of work to the state speaks for itself. It is an investment which is returned many fold.

AGRICULTURAL EXTENSION WORK.

(Including Home Economics, Science and Veterinary Medicine.)

Early in the biennium, R. K. Bliss of the University of Nebraska was appointed Director of Agricultural Extension work. Mr. Bliss was raised on an Iowa farm and had worked extensively in this state. Under his direction, the work has been greatly strengthened and extended. Activities that were not fruitful of good results, because not well adapted or because outworn, have been abandoned. The agricultural extension work is a dignified educational effort. It represents college training to a very large number of citizens of Iowa who look forward to the new courses of instruction from year to year.

A report of this work during the last biennium is being published as a bulletin. Only a few of the most important features are mentioned in this report.

The last year has been the most successful in the history of the agricultural extension work; 6,433 meetings were held. There were 3,356 demonstrations and 5,457 lectures; 1,037 exhibits were judged and 8,261 farms were visited. The total attendance at all lectures, demonstrations and exhibits was more than 600,000 people. For every working day of the year, this department held an average of twenty meetings, conducted eleven demonstrations, judged three exhibits, and visited twenty-six farmers on their farms. In one year 575,000 bulletins and circulars were used, 86,000 posters were distributed, 650,000 pages of mimeograph notes were issued. On each average working day of the year, 226 first-class letters and 51 second-class letters were received and cared for and 31 farm building plans were mailed. These figures represent only a part of the work that is done.

SHORT COURSES.

Last year 127 short courses were held. These were attended by 60,097 people. This method of work is regarded as especially efficient for the winter season. The courses continue from three to five days. Students are regularly enrolled and fees are collected by local committees to pay local expenses. The speakers take suitable laboratory material from the college. This includes live stock as well as typical varieties of seeds and models of improved farm and

home equipment. More and more these short courses have become specialized; that is, more intense. Instruction is given along lines in which the local community is interested to the exclusion of general instruction which was necessary years ago when extension work began.

COUNTY AGENTS.

County agents are now employed in the following counties: Montgomery, Floyd, Scott, Emmet, Clay, Henry, Greene, Des Moines, Sioux, Hardin, Dickinson, Wright, Linn, Clinton, Black Hawk and Muscatine. In many other counties, organizations have been completed, or are being formed, for the purpose of starting county agent work. The county agent is himself an expert on some phase of agriculture, he is reasonably well posted on many others, and he knows where and how to get any available information at any time. He is both scientific and practical. His best work is done through coöperation with farmers and leading business men and citizens who are in sympathy. Through his effort, farmers' organizations are doing more effective work. His office has been called the clearing house for difficult farm questions and farm problems. A good part of the information which he uses to advantage on some farms is secured directly from other farms in the county. His hardest problems are referred to the experiment station at the college.

Last year these county agents (some of them employed only a portion of the year) held 3,199 meetings and demonstrations, with a total attendance of 91,642. This is in addition to the meetings and attendance reported under short courses. One county agent spent 235 days in visiting different places in his county and rode 8,907 miles in his automobile and 617 miles on trains. Another agent who has been in his present location four years reports, for that time, 27,029 miles in the automobile and 12,192 miles in trains. He has made 4,261 visits to farms, and, needless to say, he gave valuable advice on almost every visit. In the four years he received 3,892 visitors and over 3,000 telephone calls. For a period, he gave special emphasis to oat smut and better seed oats. On this subject he held 61 meetings with an attendance of 1,827 people. He has had eighteen spraying demonstrations, twenty hog cholera meetings and twenty-seven township school picnics; and he has made 215 visits to schools. He has held eight colt shows, made 654 addresses, written 8,533 letters, and mailed 76,124 circulars;

has contributed 1,188 articles in local papers and published descriptions of operations on 86 farms. There are now in his county 550 alfalfa fields as compared with only 12 in 1911 and 225 silos as compared with 88 in 1911. The percentage of oats treated for smut has increased from 5 to 77. Many more statistics could be given to show the wonderfully valuable work done by one man in his four years of service.

Mr. J. W. Coverdale is the state leader of county agent work and he is giving special attention to the important fact that county agents should not be appointed until there is a genuine demand for them from the farmers themselves. This demand is shown in the most conclusive way; namely, voluntary contributions from the farmers toward covering the necessary expense.

In the near future county agents will be called for in every county of the state, if we may judge by experience up to this time in this and other states. The United States government assists in carrying the expense of this work.

COW TEST ASSOCIATIONS.

The great benefit of these associations has been shown in European dairy countries, especially Denmark. A small group of farmers in a community form an association and employ an expert to visit their farms in turn, and to make observations and records which the farmers themselves have not time to care for even though they may have the training. The association usually has twenty-six members, so that one visit will be made at each farm each month. The expert records the amount of milk given by each cow and its butter fat test and the quantity and value of feed given to each cow. At the end of the year his records show the exact cost of and income from each member of the herd. It is interesting and sometimes comical to compare these exact records with the opinions of men as to what their cows are really worth. The poor cows are weeded out and better ones put in their places, with the result that the average yield and profit of the herd is increased. The expert gives good advice also as to cheapest and best feed mixtures, the selection of better bulls, more wholesome surroundings for the herd, the sanitary care of milk, the sale of stock, etc. Here is an illustration of the benefit of this cow testing work. A certain herd in 1912 showed an average profit per cow (income over cost of feed) of $22.12; in 1915 this was $74.38.

In connection with this work, bull associations are to be organized. Already a good start has been made. In this way better bulls will be introduced into the dairy districts. It is very noticeable that men who have experienced the benefit of the cow testing associations are the most ready to receive benefits from the bull associations.

The expense of cow testing association work is borne largely by the local people who are benefited. In the interest of thoroughness and uniformity, the college exercises certain supervision over the appointment and work of the expert.

BOYS' AND GIRLS' CLUB WORK.

There are 11,744 people actively interested in boys' and girls' clubs which are devoted to corn growing, gardening, baby beef, pigs, canning, cooking, sewing, wood work, and home work. With the limited facilities, it has seemed best not to encourage a larger membership. This work is highly valuable and should be more widely developed.

The boys' acre corn club contest was the largest project of the year. In thirty-eight counties individuals or institutions offered to provide the expense of a trip to the Panama-Pacific exposition for their most successful boy corn grower. In one county two such trips were offered. There was a trip offered to the boy making the best combined record in corn and pig club work. A generous friend arranged to pay for the trip of one boy making the best score in all of the unorganized counties so that all boys in the state had a chance. Forty-one of them, each the most successful in his group, enjoyed the trip to California. In addition to these trips, a large number of township prizes were offered to boys making the best records; and these prizes consisted of a trip to the short course at Ames. The local people offered smaller prizes for the second and third most successful boys. Three thousand four hundred and five were enrolled. Their friends were interested and helped, and their fathers helped, with the result that a large amount of information on corn growing was diffused. A representative of the extension department visited as many of the boys as possible and helped to stimulate them in their good efforts. Much credit is due to the bankers and business men and to the farmers and newspaper men and others who were responsible for the liberal prizes. Fifteen of the boys produced more than 100 bushels of corn per acre. The average of the forty-one successful boys was 92 bushels per acre,

and the average of all in the contest was 73.5 bushels, or more than double the annual average for Iowa. The best record was made by Wade Hauser of Union, Iowa, who set a new state record of 150.1 bushels on one acre.

Naturally, these boys and others wanted the corn growing contest to be continued, and it was reorganized for the year 1916. The work is progressing with intense interest in all parts of the state. For this year many friends of the boys have again provided prizes in the form of a free trip to the International Live Stock Show in Chicago next December.

Similar work is being done through Pig Clubs. Senator Joseph Allen of Pocahontas county has provided forty-four trips to the Ames Short Course for boys winning in Pig Club contests.

Boys' Baby Beef Clubs have been formed in a large number of counties. Boys in practically every county in the state are interested.

The Garden Clubs have both boy and girl members, and the skill with which these young people produce and sell vegetables on small areas of ground is astonishing. The club members are encouraged to use their money for good purposes. Through the Canning Clubs, instruction is given that results in saving great quantities of fruits and vegetables that would be wasted.

The boys' and girls' club work is carried on in coöperation with the schools. The teachers are interested and in their own work they receive much help and encouragement from the experts in the extension department.

THE SEED CORN CAMPAIGN.

Owing to cold and rainy weather, the corn crop of 1915 was seriously affected. In some parts of the state it was found that the corn reserved by many farmers for seed purposes was very weak in germinating quality. A special campaign was organized, and it reached every township in 33 counties having about three millions of acres in corn. Much work was done, also, in other parts of the state, but in the special section referred to the situation was most serious and called for chief attention. Twenty-five thousand copies of a poster referring to proper methods of securing seed corn, were distributed through the aid of railroad station agents, postmasters, bankers, school teachers, many farmers, and others. Interested farmers in many localities were assisted in forming organizations for the purpose of ascertaining the quality and quantity of all local

corn that might be available for seed. Experts tested this corn, and printed announcements were sent out telling the quantity and quality and price per bushel of corn held on the various farms. This represented an enormous undertaking, and great credit is due to many residents of the localities who carried much of the work and needed comparatively little help from the extension department workers after the efforts were well started. Several county agents rendered especially valuable help. Some of them initiated the work early in the fall and kept steadily at it all winter. The extension department furnished one expert for one month to each county requiring this help.

The corn crop this year is testimony enough of the efficiency of the work that was done. Farmers who would have used seed corn showing 50% or 60% germination were interested and instructed so that they used seed with much higher germination. It would be impossible to estimate the additional number of bushels of corn grown in Iowa because of this campaign. It has been said that the wealth produced would run into the millions.

Space does not permit extended reference to the publications issued through the extension department and to the excellent work being done in starting correspondence courses of instruction. Other lines that are receiving effective attention, and some of which are comparatively new, include the following:

Blue prints of common farm buildings are sent out. The value of farm improvements in Iowa is nearly half a billion dollars, and millions of dollars are expended annually in the erection of new farm buildings.

Demonstrations in growing farm crops are conducted now in twenty different counties. This work in different parts of the state is planned to emphasize improvements in crop growing.

The importance of keeping business records of the farm is being emphasized. Farmers are asking more and more for information as to best systems to adopt.

Farm tours are conducted annually. A large number of farmers in their automobiles form a party and visit different farms of the locality where especially good work is being done. They inspect one feature at one farm and another at the next farm. Lectures are given by the department experts and by farmers themselves. In this way attention is being drawn to alfalfa growing, silo construction, beautifying the farm home grounds, and many other subjects.

Useful work is being done in connection with the marketing of

farm products and the purchase of supplies. Great benefits come to producers and consumers when, for example, eggs are properly sorted and packed according to the best known methods and when farmers unite in making their purchases. It is found that large savings can be effected by placing combined orders through local tradesmen.

Valuable work is done in coöperation with the state fair and local fairs, conventions, farmers' institutes, various farm organizations, and the press of the state.

The extension work in home economics is deserving of special mention because of its excellent organization, its popularity and the good results that come from it. The better home has an important place in all efforts for the improvement of agriculture, and the farmers themselves and their wives fully appreciate this fact.

The agricultural extension work is supported by funds appropriated by the national and state governments, and by those contributed locally. The Federal government is contributing increasing amounts annually on condition that their contributions will be duplicated. In view of the excellent results being secured and the benefits that would come from increasing the work, it is recommended that the state appropriate not only enough to duplicate the Federal allotment but such an additional amount as may be found possible. The special reason why the state should duplicate the government funds is that it is not desirable to extend government control over funds that are now in use which would have to be designated to offset government appropriations if new appropriations are not made by the state. Any change in the use or control of our present funds would endanger the management of the work now in progress.

ENGINEERING EXTENSION.

This work is under the immediate supervision of Director K. G. Smith, who received his special training in corresponding work in Illinois and Wisconsin. Its value has been clearly demonstrated. The work has not been over-developed, but allowed to grow gradually. In fact its growth has had to be restricted on account of limited funds.

The Technical Service Bureau is assisting municipalities and industries by giving technical advice such as it is not customary to secure from the professional engineer. This Bureau has helped municipalities start in the right way toward providing water supply, sewage, and garbage disposal systems. It gave preliminary advice to a city in connection with flood difficulties. It has assisted by sending out information relating to streets and their care, the disposal of city refuse, concrete sidewalk construction, city lighting, the care of automobile tires, the use of educational moving pictures, and various other subjects upon which the public needs advice and direction.

Educational moving picture films have been circulated through various schools and other agencies.

Automobile institutes have developed into a permanent line of work. Twenty-four have been held during the last two years. These are for the benefit of men who work in the garage and for those who drive cars. This kind of instruction is resulting in economics in automobiles and greater safety in their use. This work is now being carried on in coöperation with the Agricultural Extension Department, as it has been found to be an effective feature in their short courses.

Short term schools have been conducted for telephone operators and telephone plant men in about twenty places in the state. These have proved to be very helpful. For example, at Waterloo about 80 telephone operators engaged in that section of the state were given two days of instruction. An expert woman teacher explained how to give more uniform and more prompt and satisfactory service. Such instruction is of great value to the operators and to the whole community as well. At another school, 125 men were in attendance.

Short courses have been held at various points for painters and decorators. These courses, as the ones for telephone workers, continue one or two weeks and provide instruction for the people who are actually engaged in the industry and wish to learn how to do their work better. The labor organizations have expressed their appreciation for what the state is doing for them in these ways. Six courses for painters are planned for the present year.

Instruction is given also by correspondence and evening classes. The latter are held in coöperation with public schools and other organizations. In 1915-16 the enrollment in class and correspondence study was 551, and 229 certificates were issued for work completed and examinations passed. Industrial subjects are given prominent position in these classes. The expenses are cared for largely by fees. In the largest woodworking plant in Iowa, this work has recently developed into a definite school for young em-

ployees under the direction of their own efficiency engineer and two instructors. Engineering Extension courses of study are purchased and all expenses borne by the firm. Twenty-four boys are enrolled at present at the plant.

Correspondence work and short courses are being started for janitors, and it is found that these men and the persons employing them are glad to have instruction given as to ventilation, care of furnaces, and cleaning of buildings. In such work as this, science can be used to advantage and the men who have registered for this instruction have been greatly interested.

On the urgent request of employees of factories and others who were benefited by the engineering extension work, some work in home economics extension is being provided for the benefit of the homes of these industrial workers. Thus home economics is coming to be allied with engineering extension work just as it long has been allied with agricultural extension. The home economics work in cooking has proved to be the most popular, but there is a genuine interest also in the work in dressmaking and home decoration and home management.

The staff of the Engineering Extension Department includes nine men, two of whom are on part time.

Lines of work in greatest need of development are correspondence study, automobile instruction, visual instruction, and extension work for manufacturing plants. Increased appropriations for these purposes and for the larger development of the established lines of work are recommended.

STATE BIOLOGICAL LABORATORY.

This laboratory has continued to manufacture and distribute hog cholera serum under the provisions of the state law. A limited amount of inspection work has been done, and without doubt this has resulted in great improvement in the serum commercially manufactured at various points in the state and has had an important effect upon serum shipped into the state from outside producers. The original appropriation was for $35,000, and it was provided that the plant should be self supporting. We can report that the saving of hogs on account of serum produced in this state plant runs into the millions of dollars, and today the value of the plant and stock on hand somewhat exceeds the amount of the original appropriation. The plant has been improved so as to

bring it in full conformity with the United States regulations. It seemed desirable to do this although the quality of the serum being made was the highest.

Great care is exercised in issuing certificates to use virus and serum, and it is gratifying to report that more and more these agents are being handled by competent veterinarians on reasonable terms.

Acting Dean Bemis and Dr. Cole, who is in immediate charge, report that during the biennium 8,218,200 c. c. of serum have been distributed, or enough to treat 205,455 hogs.

The laboratory is now paying some attention to the production of other biological products which were contemplated when the law was passed.

Some further improvements are needed to make the plant more serviceable and satisfactory; for example, a suitable disposal place for the carcasses of virus hogs and quarters for small animals used in the production of biological products. These improvements would not be costly.

During the year 1914-15 the laboratory produced 7,756,696 c. c., and during the year 1915-1916, 953,090 c. c. Much of the output of the former year was sold during the latter year. About 10 per cent of the serum used in the state is manufactured in the State Biological Laboratory. During the year 1914, 65 permits were granted to commercial companies to sell serum and virus in Iowa; in 1915, 78 permits; and in 1916, 62 permits. From one to four permits a year have been cancelled on account of conditions becoming unsatisfactory. The number of companies in Iowa selling serum and virus and not having United States government licenses was 10 in the first year of the biennium and 3 in the second. 703 veterinarians have licenses to use virus, and about 1,000 farmers have been licensed to use virus on their own herds. It is the policy of the laboratory to discourage the use of virus by farmers in all instances where reliable veterinary service is available, and in no case is a permit granted except upon reasonable satisfaction that the dangers as well as the advantages in the use of virus are appreciated.

In his report, Acting Dean Bemis refers to the advantage of the state inspection of serum producing plants and investigations conducted by the laboratory when extensive difficulty arises in connection with the use of serum. By reason of inspections and the licenses issued by the laboratory, which may be cancelled for

cause, all persons producing and handling serum and virus recognize the importance of great care. During the last six months of the biennium, 67 investigations were made. These include the checking up of books and the methods followed in serum plants and branch offices as well as results in the field from the use of serum or virus. Dr. Bemis reports it to be his belief that the percentage of loss in herds treated would be found to be as good as in the preceding biennium, or better.

SHORT COURSES.

Special appropriations have been made for the support of short courses at the college. These are given at different times and usually continue five or six days. The largest work along this line occurs in the week between the two college semesters, about February 1st. Last winter more than 2,000 people, chiefly Iowa farmers, registered in this course, and hundreds of others attended for a brief period.

AGRICULTURE.

Classes and laboratory sections were conducted by the different agricultural departments with instruction adapted to the requirements. Emphasis was given to stock judging, fruit tree spraying, farm management, seed selection, dairy and creamery operation, etc. The classrooms were filled and often overflowing. Frequently more than a dozen exercises were in progress at the same time. The "students" were advised to select the subjects in which they were most interested, and the schedule was arranged so that the engagements anyone might wish to make would not be in conflict. It was impossible, however, to avoid all conflicts. As in the past, the killing of meat animals and the curing of the meat proved to be very popular. Again the need of better facilities for this kind of instruction was shown.

A large number of boys and girls were present and special classes were arranged for them. About 200 of these came with all expenses paid as prizes on account of achievement in agricultural contests. The exhibits of canned fruits and seed corn prepared by some of these young people would have been creditable at a state fair.

This short course afforded an excellent opportunity for county agents and junior club leaders to come together for conferences concerning the progress and improvement of the work.

Evening programs attracted large audiences. Well known speakers on important agricultural topics were secured especially for these night meetings. On one evening a banquet was attended by 400 persons; others were not able to enter because of limited space. At this banquet, the Iowa farmers and their problems filled a most interesting program.

ENGINEERING.

Perhaps the most largely attended lectures were those on the automobile. It was necessary to find larger lecture halls, and even then some lectures had to be repeated. A very large proportion of the people attending the short course have automobiles, and they realized it would be distinctly to their advantage to know more about the machine and its use.

Special instruction was given in concrete work, such as making fence posts. Sewage disposal and water supply for farm houses and isolated town houses were explained. Electric wiring and the construction of permanent farm buildings were illustrated. The short course students had opportunity to try their hands at these different kinds of work under expert supervision. Farm drainage, ceramics, and other appropriate subjects also were included.

HOME ECONOMICS.

The Division of Home Economics gave suitable instruction to a large number of women. The work covered the usual range of subjects and also proved to be popular, as was shown by the registrations.

VETERINARY MEDICINE.

This short course is given in the fall, especially for veterinary practitioners. The third such course, just given, showed a total registration of 66. The main effort was to explain recent developments of veterinary science, including such subjects as immunity, parasites, and surgery. Instruction was given in clinics and by lectures and laboratory work.

COUNTRY NEWSPAPERS.

A special short course is given for country newspaper men, with emphasis upon agricultural developments. There is much complaint about farmers and especially the farmers' boys going to town to live. Probably no influence to counteract this tendency

is so strong as the influence that can be exerted by the country newspapers.

FINANCES.

The expenditures for industrial service work performed by the college are included in the reports of the Secretary and Treasurer. The following amounts are available from State Appropriations for industrial service work, including experimental, extension and short course work, during the year 1916-17.

Acts and Purposes	Amount
Sec. 2, S. F. 288, 36 G. A.:	
Winter short courses in agriculture, home economics and engineering and trade school work	$ 9,500
Veterinary practitioners' courses	2,500
Engineering experiment station	15,000
Good roads experimentation	10,000
Agricultural experiment station	115,500
Agricultural and home economics extension	90,000
Engineering extension and trade schools	25,000
Veterinary investigations	12,500
	$ 280,000

The national government provides $30,000 for agricultural experiment station work and $44,432.16 for agricultural and home economics extension.

The hog cholera serum plant does not receive any appropriation for support but is operated on a self-supporting basis.

It will be to the best interests of the state to develop the industrial service work performed by the college and I recommend that the following additional annual appropriations be provided for the lines of work indicated.

1. Agricultural Experiment Station $70,000
2. Engineering Experiment Station 15,000
3. Good Roads Experimentation 5,000
4. Agricultural and Home Economics Extension 36,000
5. Engineering Extension 8,500
6. Winter Short Courses 2,000

FINANCES OF THE IOWA STATE COLLEGE OF AGRICULTURE AND MECHANIC ARTS

Report of the Secretary Regarding Receipts and Disbursements of All Funds from July 1, 1914, to June 30, 1916.

E. W. STANTON, SECRETARY.

It is the purpose of this report to furnish the Governor and General Assembly a summary of the financial operations of the College during tne past biennial period; and, in connection with previous reports, to bring up to date the financial history of the College. The funds dealt with may be classified as follows:

Educational funds:

- Collegiate support funds.
- Non-collegiate support funds.
- Vacation course funds.
- Student fees.
- Building, improvement and equipment funds.

Industrial Service funds:

- Experiment funds.
- Extension work.
- Hog cholera serum fund.

In the discussion of these funds, the receipts and expenditures under each, the balances at the beginning and close of the biennial period, the funds available for the present year and the purposes to which they have been appropriated by the Board of Education and the Finance Committee, will be given. Introductory to this discussion, a summary of the inventory of college property taken at the close of the biennial period will not be out of place. The following is this summary as prepared by the inventory department:

SUMMARY OF INVENTORY TAKEN JULY 1, 1916.

Real Estate:

Farm proper, 660.38 acres at $150	$ 99,057.00	
Dairy Farm, 200 acres at $150	30,000.00	
Experiment Station Grounds, 60 acres at $150	9,000.00	
Plot for Horticultural Experiments, 13 acres at $150	1,950.00	
Orchard & Arboretum, 25 acres at $150	3,750.00	
Horticulture & Forestry, 55.50 acres at $125	6,937.50	
College campus, 125 acres at $175	21,875.00	
College Park, 37 acres at $125	4,625.00	
Experimental Farm, 163 acres at $200	32,600.00	
Total for 1,338.88 acres		$ 209,794.50

Buildings:		
Agricultural Hall	$340,000.00	
Agricultural Engineering	105,000.00	
Agricultural Engineering Garage	1,000.00	
Barn, Cattle	10,000.00	
Barn, Experiment Station	17,100.00	
Barn, Horse	8,000.00	
Barn, Horticultural	5,500.00	
Barn, Sheep	1,000.00	
Bookstore	2,250.00	
Carpenter Shop and Storeroom	2,500.00	
Central	381,425.00	
Central Heating Plant	69,802.98	
Ceramics	15,000.00	
Chemistry	308,217.75	
Chemistry Emergency	4,040.42	
Dairy	61,088.41	
Dairy Farm Barn (Cattle)	15,750.00	
Dairy Farm Barn (Horse)	4,313.77	
Dairy Farm House	2,250.00	
Dormitory No. 1	58,908.80	
Dormitory No. 2 (not completed)	38,589.14	
Engineering Hall	195,000.00	
Engineering Annex	37,806.75	
Fire Department	150.00	
Forge Shop	4,500.00	
Foundry	4,500.00	
Green House	18,000.00	
Gymnasium	150,000.00	
Hog House	1,500.00	
Hog House	500.00	
Home Economics	75,000.00	
Horticultural Laboratory and Green House	58,186.75	
Horticultural Laboratory (old)	8,000.00	
Hospital	7,500.00	
Hospital Annex	1,000.00	
Machine Shop	18,000.00	
Margaret Hall	50,000.00	
Margaret Hall Annex	5,600.00	
Mechanical Laboratory	52,105.60	
Morrill Hall	35,000.00	
Music Hall	5,000.00	
Office Building	6,000.00	
Pattern Shop	6,000.00	
Pavilion No. 1	4,000.00	
Pavilion No. 2	12,000.00	
Pavilion No. 3	13,500.00	
Poultry Farm Building	5,250.00	
Serum Plant	11,821.02	
Science Building	41,029.36	
Shed, Farm Crops	450.00	
Shed, Feeding	2,250.00	
Shed, In Field	250.00	
Structural and Hydraulic Laboratory	25,000.00	
Tower for Chimes	6,650.00	
Transportation	65,072.00	
Veterinary Hospital	150,000.00	
Dormitory, Beardshear	8,000.00	
Hospital (not completed)	68.97	
Residences Occupied By:		
President Pearson	12,000.00	
Professor Beach	5,250.00	
Professor Curtiss	5,000.00	
Professor Marston	5,250.00	
Farm Superintendent Hanmer	2,000.00	
Professor Mortensen	2,250.00	
Professor Noble	2,750.00	
Professor Stanton	6,000.00	
Professor Summers	2,000.00	
Superintendent Sloss	6,500.00	
C. H. Schemann	4,750.00	
Boarding club	800.00	
Experiment Station Foreman	1,200.00	
Heating Plant Foreman	2,000.00	
Farm Laborer	700.00	
Herdsman	1,200.00	
Public Grounds	1,200.00	
Total Buildings		2,597,276.72

General Equipment:		
Waterworks, including water tower, deep well, pumping machinery, reservoir, fire pump and piping system	$ 52,393.64	
Old power plant, including pump and two boilers	2,500.00	
Heating Station, including new chimney with foundations, mechanical stokers and induced draft apparatus, one 250-H. P. Corliss engine directly connected with generator, two 250-H. P. boilers, six 500-H. P. boilers, four boiler feed pumps, feed water heater and piping system, coal and ash handling machinery, scales, vacuum system, coal hoppers, exciter set, car mover, air compressor and other power plant apparatus	99,673.33	
Electric light, including switchboard appliances, pole line, transformers and high tension line	14,505.21	
Heating tunnel, complete with steam and return main	75,779.21	
Sewage System	13,500.00	
Sewage disposal system	3,700.00	
Fire department	1,000.00	
Gas mains	1,750.00	
Total General Equipment		264,801.39
Equipment of College Departments:		
Agricultural Dean's Office	$ 280.00	
Agricultural Dean's Office (trophies)	3,575.00	
Agricultural Education	128.02	
Agricultural Engineering	6,613.78	
Agricultural Extension	7,048.91	
Agricultural Journalism	500.00	
Animal Husbandry	1,618.26	
Bacteriology	5,472.89	
Botany	32,836.57	
Carpenter Shop	1,392.15	
Chemistry	13,807.01	
Chemical Engineering	689.84	
Chimes and Clock	9,000.00	
Civil Engineering	15,070.98	
Dairy	6,443.24	
Dairy Farm (Live Stock)	23,783.00	
Dairy Farm (Other Equipment)	1,116.25	
Economics	115.00	
Electrical Engineering	20,538.89	
Engineering Dean	1,599.05	
Engineering Extension	899.75	
English	125.00	
Farm (Live Stock)	41,805.62	
Farm (Other Equipment)	2,126.90	
Farm Crops	1,738.70	
Farm Management	185.00	
Forestry	1,008.79	
Good Roads	8,750.69	
History and Psychology	732.04	
Home Economics	6,591.46	
Horticulture	5,597.27	
Hospital	2,608.02	
Library (Books and Pamphlets)	170,110.00	
Library	258.00	
Mathematics	124.70	
Mechanical Engineering	46,706.00	
Military	700.38	
Mining Engineering	14,857.91	
Music	2,481.20	
Poultry	850.25	
Poultry (Other Equipment)	2,125.80	
Post Office	1,728.95	
Photography	555.96	
Physical Culture	1,676.72	
Physical Training	6,517.56	
Physics	20,415.03	
Pipe Organ	2,000.00	

President's Office	579.62	
Publicity	175.00	
Public Grounds	2,714.50	
Public Speaking	89.08	
Purchasing	124.50	
Secretary and Junior Dean's Offices	529.37	
Serum	4,296.76	
Soils	5,347.76	
Superintendent's Office	700.25	
Superintendent's Electrician	650.00	
Superintendent's Janitor	98.00	
Superintendent's Plumbing	350.00	
Superintendent's Tools in Storeroom	250.00	
Superintendent's Tools and Scales (H. P.)	1,150.00	
Transportation	2,799.35	
Treasurer and Registrar	1,267.99	
Document Room	1,580.91	
Veterinary, Anatomy (Specimens)	7,178.80	
Veterinary, Anatomy	4,963.99	
Veterinary, Dean	3,588.39	
Veterinary, Investigation	2,743.58	
Veterinary, Pathology	8,537.66	
Veterinary, Physiology	2,203.33	
Veterinary, Surgery	4,908.13	
Veterinary, Ambulatory Clinic	639.96	
Veterinary, Practitioners'	34.65	
Zoology	23,418.27	
Total Department Equipment		575,826.39

Equipment of Two-Year Courses:

Agricultural Engineering	$ 2,163.91	
Agronomy	462.37	
Animal Husbandry	287.41	
Chemistry	694.10	
Dairy	528.23	
English	85.06	
History	42.97	
Home Economics	1,684.14	
Horticulture and Botany	2,916.15	
Mathematics	124.70	
Public Speaking	9.75	
Trade School	139.42	
Total for Two-Year Equipment		9,138.21

Equipment of Experiment Station:

Agricultural Engineering	$ 1,044.23	
Animal Husbandry (Live Stock)	4,792.00	
Animal Husbandry (Other Equipment)	3,644.03	
Botany	1,079.89	
Bulletin	245.93	
Chemistry	7,135.16	
Dairy	746.95	
Dairy Farm (Live Stock)	1,302.50	
Dairy Farm (Other Equipment)	92.50	
Engineering Experiment Station	5,506.56	
Entomology	2,955.80	
Farm Crops	3,608.85	
Farm Management	502.64	
Forestry	53.91	
Horticulture	1,375.06	
Photo	2,300.06	
Pomology	958.48	
Poultry (Live Stock)	300.00	
Poultry (Other Equipment)	703.05	
Soils	4,787.88	
Truck Crops	352.11	
Veterinary	107.00	
Total Station Equipment		43,594.59

Furniture—College Departments:

Agricultural Assembly	$ 3,208.50	
Agricultural Dean	1,259.25	
Agricultural Education	1,129.96	

Agricultural Engineering	4,159.55	
Agricultural Extension	2,577.95	
Agricultural Journalism	1,010.14	
Agricultural Library	938.00	
Animal Husbandry	5,116.61	
Bacteriology	3,563.19	
Botany	6,450.87	
Chapel	75.00	
Chemistry	4,351.93	
Civil Engineering	7,715.11	
Dairy	4,741.66	
Dairy Farm	82.25	
Economics	1,156.59	
Electrical Engineering	1,794.91	
Engineering Extension	726.29	
Engineering Dean (General Furniture)	4,620.45	
English	3,437.47	
Farm	69.00	
Farm Crops, including Pavilions	12,718.73	
Farm Management	118.90	
Forestry	274.94	
Good Roads	504.08	
History and Psychology	1,397.64	
Home Economics	7,386.06	
Horticulture	6,341.85	
Horticultural Propagation Bldg.	1,394.89	
Hospital	955.33	
Inventory	660.30	
Library	1,079.41	
Margaret Hall	3,254.29	
Dormitory No. 1	6,372.10	
Margaret Hall Annex	1,074.20	
Dormitory, Beardshear	979.91	
Mathematics	2,627.43	
Mechanical Engineering	5,248.81	
Military	51.94	
Mining Engineering	7,622.46	
Modern Language	848.56	
Music	253.30	
Photo	90.49	
Physical Culture	205.10	
Physical Training	3,018.37	
Physics	5,957.57	
Poultry	46.00	
President's Office	1,637.33	
President's Residence	1,171.25	
Public Speaking	931.13	
Secretary's Office	2,004.44	
Serum	557.30	
Soils	8,253.76	
Superintendent's Office	350.00	
Heating Plant	10.00	
Carpenter Shop	12.00	
Structure Design	386.39	
Treasurer and Registrar	5,279.41	
Document Room	35.96	
Transportation	1,045.56	
Veterinary, Anatomy	2,591.88	
Veterinary, Dean	2,986.55	
Veterinary, Investigation	103.35	
Veterinary, Pathology	2,393.83	
Veterinary, Physiology	1,538.20	
Veterinary, Surgery	624.85	
Zoology	3,828.52	
Total Department Furniture		165,009.05

Furniture—Two-Year Courses:

Agricultural Engineering	$ 385.05	
Agronomy	593.25	
Animal Husbandry	651.02	
Chemistry	799.99	
Dairy	86.38	
English	243.96	
Home Economics	376.29	
Horticulture and Botany	1,553.95	

Mathematics	30.15	
Trade School	100.18	
Total Two-Year Furniture		4,820.22

Supplies—College Departments:

Agricultural Dean	$ 64.25	
Agricultural Engineering	2,337.77	
Agricultural Extension	3,758.66	
Agricultural Education	59.65	
Agricultural Education (Summer School)	145.84	
Animal Husbandry	668.28	
Bacteriology	1,720.99	
Botany	123.30	
Chemistry	23,473.56	
Civil Engineering	172.66	
Dairy	1,927.87	
Dairy Farm	844.55	
Electrical Engineering	980.97	
Engineering Dean	50.00	
Engineering Extension	605.00	
Farm	4,353.25	
Farm Crops	368.20	
Home Economics	2,358.49	
Horticultural	882.28	
Forestry	27.75	
Hospital	736.94	
Inventory	42.18	
Junior Dean	172.60	
Mathematics	63.21	
Mining Engineering (including Ceramics)	568.20	
Chemical Engineering	356.00	
Physical Culture	138.50	
Physics	6,068.57	
Poultry	97.75	
President's Office	250.36	
Secretary's Office	100.00	
Serum Plant (including serum on hand)	18,792.61	
Soils	4,621.39	
Veterinary, Anatomy	137.80	
Veterinary Pathology	268.00	
Veterinary, Physiology	999.94	
Veterinary, Surgery	264.00	
Veterinary, Ambulatory Clinic	35.81	
Transportation	178.13	
English	42.16	
Farm Management	50.00	
Public Speaking	10.00	
Economic Science	13.25	
Zoology	3,456.61	
Total Department Supplies		83,730.93

Supplies—Experiment Station:

Agricultural Engineering	$ 152.70	
Animal Husbandry	3,797.65	
Botany	123.30	
Chemistry	4,354.03	
Dairy	928.48	
Dairy Farm	130.40	
Farm Management	100.50	
Engineering Experiment Station	1,350.00	
Entomology	132.80	
Farm Crops	153.20	
Horticultural	326.00	
Photo	3,850.20	
Poultry	59.00	
Soils	2,231.00	
Total Station Supplies		17,689.26

Supplies—Two-Year Courses:

Agricultural Engineering	$ 42.50	
Animal Husbandry	407.15	
Agronomy	577.82	

English	25.00	
Horticulture, Bacteriology and Botany	566.60	
Vocational Courses	15.00	
Home Economics	255.36	
Total Two-Year Supplies		1,889.43
Total College Property		$3,973,570.69

RECEIPTS FOR THE BIENNIAL PERIOD.

The following are the receipts of the College Treasurer on account of the different funds during the past two years, and the sources from which they were derived:

I. COLLEGIATE SUPPORT FUNDS.

	1914-15.	1915-16
From National Government:		
Interest on endowment fund	$ 35,433.96	$ 38,324.28
Morrill funds	50,000.00	50,000.00
From State:		
Annual appropriations, permanent	245,000.00	505,000.00
From two year millage tax (including $13,500 apportioned to the four year Home Economics course from the $20,000 set aside for four year and two year Home Economics courses.)	126,000.00	
Allotment from the $20,000 set aside by law from the two year millage tax for four year and two year Home Economics courses (5-8)		12,500.00
Annual appropriation for library, permanent	4,900.00	5,000.00
From Miscellaneous Sources:		
Tuition charged students from outside the state	14,275.00	14,720.00
Scholarship funds	125.00	800.00
Clay fund for support of Agricultural Journalism	1,000.00	1,250.00
Interest on treasurer's balances	3,353.68	4,567.13
Cancelled checks	285.86	231.67
Totals	$480,373.50	$632,393.08

II. NON-COLLEGIATE SUPPORT FUNDS.

	1914-15.	1915-16
Annual appropriation for Agriculture	$ 25,000.00	
Allotment to Agriculture from two year millage tax.	6,750.00	
Annual appropriation for Agriculture, Home Economics and Engineering		$ 54,000.00
Allotment to Home Economics from two year millage tax	4,500.00	
Allotment from $20,000 set aside in two year millage tax law for four year and two year home economic courses	4,500.00	
Allotment from permanent annual appropriation for two year and four year courses in Home Economic courses		7,500.00
Part of appropriation for Engineering Extension and Trade School work assigned to Trade School work at the College	5,890.50	5,100.00
Totals	$ 46,640.50	$ 66,600.00

III. STUDENT FEES.

	1914-15.	1915-16
All courses:		
Incidental fees	$ 29,854.24	$ 33,822.41
Students' repair fund	2,000.00	2,000.00
Hospital	9,164.34	9,632.58
Music (including piano rentals)	326.20	235.20

Physical Culture	1,022.00	880.00
Physical Training	2,887.07	3,219.90
Re-classification (credited to F. L. & I.)	173.00	34.00
Organ practice (credited to F. L. & I.)	13.50	8.00
Diploma fee (credited to Registrar)	1,760.00	2,066.00
Special examinations (credited to Library)	711.25	657.00
Four Year Courses:		
Agricultural Engineering	2,427.62	2,321.89
Animal Husbandry	2,752.04	2,572.50
Bacteriology	1,050.00	1,437.50
Botany	2,777.14	2,803.50
Chemistry	17,186.35	18,150.97
Civil Engineering	1,141.80	1,486.00
Dairying	1,643.20	2,030.20
Electrical Engineering	319.00	535.00
English	396.95	356.55
Farm Crops	1,287.97	1,135.88
Farm Management		158.00
Forestry	27.00	20.00
Home Economics	6,027.85	6,771.17
Horticulture	374.15	431.85
Mechanical Engineering	3,702.75	2,432.32
Mining Engineering		67.00
Photography	37.09	48.00
Physics	1,219.75	2,340.80
Poultry Husbandry	427.00	497.50
Soils	1,854.40	2,666.20
Structure Design		142.50
Short Course in Engineering	71.00	
Summer School	1,780.50	2,098.75
Veterinary Anatomy	743.50	1,429.00
Veterinary Pathology	265.00	364.00
Veterinary Physiology	90.00	152.00
Veterinary Practice and Diagnosis		102.00
Veterinary Surgery	130.00	70.00
Zoology	1,734.58	1,870.64
Two Year Courses:		
Agronomy	623.79	603.80
Agricultural Engineering	783.88	699.16
Animal Husbandry	1,033.20	842.50
Botany	443.27	413.75
Dairying	655.30	559.07
Horticulture	360.95	373.25
Home Economics	773.00	829.45
Trade School		37.00
Totals	$102,051.63	$111,404.79

IV. VACATION COURSES.

	1914-15.	1915-16
From State:		
For Summer Session		$ 20,000.00
For winter short courses in Agriculture, Home Economics and Engineering		9,500.00
For Veterinary Practitioners' Course, from two year tax fund	4,500.00	
For Veterinary Practitioners' course, being amount of permanent annual appropriation of $2,500 for this course, drawn from the state treasury		1,874.99
Total	$ 4,500.00	$ 31,374.99

V. BUILDING, IMPROVEMENT AND EQUIPMENT FUNDS.

	1914-15	1915-16
From State (drawn from state treasury):		
Repair and Contingent fund—		
Annual appropriation	$ 36,000.00	
From two year millage tax	9,000.00	
Repairs and Minor Improvements—		
Annual appropriation, permanent		46,000.00

Repairs and Improvements—		
(For certain definite buildings needed, small buildings and additions to buildings)		6,000.00
Temporary provision for Home Economics laboratories		700.00
Extension of heating system and equipment of heating plant	13,005.72	24,617.00
Settling and storage water tank and connections		15,000.00
Special Building Tax	183,416.30	92,500.00
Enlargement of buildings and small additional buildings	15,000.00	
Chemistry building and equipment	58,518.86	
Public Grounds Maintenance and improvement	15,000.00	10,000.00
Additional equipment and furnishings for buildings and departments		49,000.00
Equipment of departments and buildings	56,534.69	
Totals from state	$386,475.57	$243,817.00
From students and others (credited to Room Rent account):		
Rental of rooms	7,881.63	11,009.26
Part of contribution of L. W. Noyes for construction of lake on campus (credited to lake account)		6,000.00
Totals	$394,357.20	$260,826.26

VI.—EXTENSION WORK.

	1914-15	1915-16
Agriculture and Home Economics:		
From State—		
Annual appropriation, permanent	$ 42,000.00	$ 90,000.00
From two year millage tax	43,200.00	
From National Government—		
Smith-Lever fund	10,000.00	28,781.18
Total for Agriculture and Home Economics Extension	$ 95,200.00	$118,781.18
Engineering Extension ($25,000 less amount set aside for two year trade school work at college)	16,609.50	19,900.00
Totals	$111,809.50	$138,681.18

VII. EXPERIMENT FUNDS.

Agricultural Experiment Station:		
From National Government—		
Hatch Act	$ 15,000.00	$ 15,000.00
Adams Act	15,000.00	15,000.00
From State—		
Annual appropriation, permanent	55,000.00	115,500.00
From two year millage tax	51,300.00	
Total for Agricultural Experiment Station	$136,300.00	$145,500.00
Engineering Experiment Station:		
Annual appropriation, permanent	10,000.00	15,000.00
From two year millage tax	4,500.00	
Good Roads Experimentation:		
Annual appropriation, permanent	10,000.00	10,000.00
Veterinary Investigations:		
Annual appropriation, permanent		12,500.00
From two year millage tax	9,000.00	
Total of all experiment funds	$169,800.00	$183,000.00

SUMMARY OF RECEIPTS.

		1914-15		1915-16
Educational Work—				
I. Collegiate Support Funds	$480,373.50		$632,393.08	
II. Non-Collegiate Support Funds	46,640.50		66,600.00	
III. Student fees	102,051.63		111,404.79	
IV. Vacation courses	4,500.00		31,374.99	
V. Building, Improvement and Equipment funds	394,357.20		260,826.26	
Totals for Collegiate work		$1,027,922.83		$1,102,599.12
Industrial Service Work—				
VI. Extension Work	$111,809.50		$138,681.18	
VII. Experiment funds	169,800.00		183,000.00	
Totals for Industrial service		281,609.50		321,681.18
Total from all sources		$1,309,532.33		$1,424,280.30

REFUNDS AND SALES.

Fees paid by students at the beginning of a semester are returned, in whole or in part, to those withdrawing from College, or, for any other reason not using the laboratory material or receiving the service for which the fee was paid. Since the fees thus received and refunded constitute no part of the real income of the College, nor, in their return, any part of the expenditures thereof, they are excluded from both sides of the account. The same policy is pursued regarding department sales. Sales are restricted to the natural products of the several departments and such material as cannot be longer used to advantage. The proceeds are used to raise other products and replace the material sold. The legislature, by an act passed in 1904, directed that the amount of these sales should not be included in the debit or credit side of the regular accounting exhibits, but listed separately. The following are the totals of refunds and sales for the different departments for the biennial period:

REFUNDS AND SALES.

Department	1914-15		1915-16	
	Refunds	Sales	Refunds	Sales
Collegiate:				
Incidental fees	$ 969.44		$ 1,317.10	
Diploma fees	5.00		15.00	
Tuition	300.00		287.50	
Agricultural Dean (State Fair Fund)				$ 89.33
Agricultural Engineering	76.88	$ 2,418.86	63.11	1,713.11
Animal Husbandry	63.96	5.00	68.50	10.80
Bacteriology	11.00	33.14	12.50	35.39
Botany	45.86	124.51	67.60	17.13
Chemistry	2,566.65	361.26	1,724.53	965.36
Civil Engineering	12.20	3.50	13.50	.50
Dairying	49.05	38,500.71	35.80	43,096.83
Dairy Husbandry		7,841.12		7,225.86
Electrical Engineering	3.00			4.00

REFUNDS AND SALES—Continued

Department	1914-15		1915-16	
	Refunds	Sales	Refunds	Sales
Engineering Dean (State Fair Fund)				7.00
English	.55		.95	.50
Farm		15,202.52		15,141.30
Farm Crops	39.53	60.98	24.12	32.66
Fires, Lights and Incidentals		15,690.21		13,927.98
Forestry		1.05		
Home Economics	45.90	10.80	72.33	28.03
Horticulture	4.85	3,594.07	6.15	5,130.61
Hospital	2.85	1,456.73		1,302.30
Janitor Fund		154.18		143.91
Library	6.00	63.99	2.00	33.05
Mechanical Engineering	159.25	1,191.66	120.85	3,219.04
Military				5.12
Mining Engineering			1.00	
Music		1.20		
Photography	34.91			
Physical Culture	29.00		19.75	10.00
Physical Training	199.18	12.09	65.10	86.19
Physics	28.75		28.70	12.70
Piano Rentals	7.40			
Poultry Husbandry	5.00	875.17	10.50	781.96
Printing		454.47		795.26
Public Grounds		530.50		2,657.38
Soils	703.60		295.80	109.21
Structure Design		17.00	1.50	8.13
Transportation				103.38
Veterinary Ambulatory Clinic				2,231.26
Veterinary Anatomy	6.50		38.00	8.25
Veterinary Pathology	4.00	28.55		5.00
Veterinary Physiology		2.00	2.00	6.00
Veterinary Surgery		2,933.29		2,818.27
Zoology	710.42	10.25	454.36	
Sub-Collegiate:				
Agronomy	17.71		28.70	
Agricultural Engineering	52.12	1.75	57.07	
Animal Husbandry	34.80		46.75	
Botany	11.73	11.12	6.25	
Dairy	63.00		160.48	1.45
Horticulture	8.05	8.98	7.75	45.31
Home Economics	5.00		27.25	
Vacation Courses:				
Summer School	11.00		553.00	329.57
Practitioners' Course				231.90
Buildings and Improvements:				
Central Heating Plant		17.16		
Repair and Contingent Fund				44.53
Repair and Minor Improvements				146.10
Room Rent Fund	100.62	21.80	24.70	35.85
Storeroom		12,551.07		11,097.85
Totals, educational division	$ 6,394.76	$ 104,190.69	$ 5,600.10	$ 114,255.36
Industrial Service Work:				
Agricultural Experiment Station		19,815.91		25,227.38
Engineering Experiment Station		1,270.22		1,152.46
Good Roads Experimentation				21.61
Veterinary Investigations		225.67		64.50
Agricultural Extension		1,038.48		1,906.44
Engineering Extension		1,513.90		1,571.31
Serum Fund		114,985.21		57,366.10
Grand totals	$ 6,394.76	$ 243,040.08	$ 5,600.10	$ 201,565.16

It will be noticed that the sales are largely from a few of the industrial departments such as the dairy, farm, horticulture, mechanical engineering, veterinary, the experiment stations, and the serum depart-

ment. The total of the refunds and sales for each year should be added to the receipts as already summarized, in comparing these figures with those of the treasurer's books.

TOTALS OF REFUNDS AND SALES.

For 1914-15:		
Refunds	$ 6,394.76	
Sales	243,040.08	$249,434.84
For 1915-16:		
Refunds	$ 5,660.10	
Sales	201,565.16	207,225.26
		$456,660.10

Even after striking out the refunds and sales, as has been done, the receipts of the college treasurer do not represent the income of the college during the biennial period. In order to reach this, the undrawn balances in the state treasury at the beginning and end of the period must be taken into account.

The following summary shows the actual income accruing during each of the two years:

	1914-15		1915-16	
Educational—				
Collegiate support funds:				
From Nat'l government	$ 85,433.96		$ 88,324.28	
From state	375,900.00		522,500.00	
From misc. sources	19,039.54		21,568.80	
		$480,373.50		$632,393.08
Non-Collegiate Support fund:				
From state		46,640.50		66,600.00
Student Fees (covering laboratory material and other expenditures charged to students)		102,051.63		111,404.79
Vacation courses at College:				
From state		4,500.00		32,000.00
Buildings, Improvements and Equipment:				
From State	269,930.77		296,000.00	
From rental of rooms and excess of receipts over disbursements in store room account	7,881.63		11,009.26	
		277,812.40		307,009.26
Totals		$911,378.03		$1,149,407.13
Industrial Service—				
Extension work funds:				
From Nat'l government	$ 10,000.00		$ 28,781.18	
From state	101,809.50		109,900.00	
		$111,809.50		$138,681.18
Experiment funds:				
From Nat'l government	$ 30,000.00		$ 30,000.00	
From state	139,800.00		153,000.00	
		169,800.00		183,000.00
Totals		$281,609.50		$321,681.18

Grouping the above under sources rather than purposes, makes the account stand as follows:

For 1914-15—		
From National government	$ 125,433.96	
From state	938,580.77	
From students and other sources	128,972.80	$1,192,987.53
For 1915-16:		
From National government	$ 147,105.46	
From the state	1,180,000.00	
From students and other sources	143,982.85	1,471,088.31

EXPENDITURES DURING THE BIENNIAL PERIOD.

The expenditures, as a whole, though covering many different lines of work, can logically be grouped under the two headings:

1. Educational work.
2. Industrial service work.

Under the first, are gathered all the expenses connected with the educational work at the College, including instruction, administration, equipment, buildings, improvements and the running expenses of the different departments; under the second are found the expenditures for extension work, experimentation and the production and distribution of hog cholera serum. A line of division is thus drawn between the educational work proper and those outside activities which, though of great value to the state, should not appear as expense items in the budget showing the cost of maintaining its distinctly educational departments.

The following is a summary of the expenditures as thus classified:

SUMMARY.

	1914-15	1915-16
Educational Work Proper:		
Collegiate educational work	$ 615,069.64	$ 677,669.87
Non-collegiate educational work	56,464.25	61,124.11
Vacation courses	1,588.77	30,242.63
Buildings, improvements and equipment	366,373.56	231,489.90
	$ 1,039,496.22	$ 1,000,526.51
Industrial Service Work:		
Extension work	$ 114,784.44	$ 132,004.77
Experimentation	178,661.53	168,376.32
Hog Cholera Serum	17,053.38	-27,656.57
Totals	$ 310,499.35	$ 272,724.52

In making comparisons with the treasurer's accounts, the refunds and sales, as given in a previous exhibit, should be added to the above totals. In using these figures as a basis for determining the cost of maintaining the college during the biennial period, it should be borne in mind that the money invested in fire-proof buildings and the more endurable equipment is, in good reason, chargeable to a long-time period rather than the two years. It may be interesting to note that the increase in the value of college property of a permanent nature, since the last biennial report, as shown by the inventory account, is $390,360.86. It is also worthy of

notice that the fees paid by students, amounting to about $100,000, are expended by the College largely in the purchase of laboratory material used by them. This material might have been purchased by the students from a supply store, as are their text books, in which case it would not have appeared in the college expenditure account. This method of handling the students' laboratory material is a mere matter of convenience. The value of such material does not constitute any part of the cost, to the state or nation, of maintaining the college.

The division of the annual income between the different lines of expenditure is determined in advance of the beginning of the fiscal year, and is set forth in detail in the annual budget adopted by the Board of Education. This budget receives, in its making, most careful consideration. The head of each department makes a study of its needs for the coming year, taking into account the demands for instruction, the cost of desirable improvements and all other expenditures necessary to the proper maintenance and growth of the department. He thereupon makes recommendation to the dean of his division who in turn makes his recommendation to the president of the college. These recommendations are considered by the president, the deans and the committees of the Board of Education, and adjusted to the available income. The budget as thus determined is submitted to the board itself for final action. An amount sufficient to protect the institution from financial embarrassment is set aside as working capital, and a reasonable balance reserved with which to meet emergency askings. Other than this, the amounts appropriated in the budget are considered as the allowances for the year, and the heads of departments are required to make their plans accordingly.

The exhibits which follow give, somewhat in detail, the expenditures for the last two years along the different lines of college activity, and also the authorized expenditures for the coming year as set forth in the budget approved by the Board of Education. The first of these exhibits shows the cost of maintaining the regular collegiate educational work, the amount paid by the student and the amount charged to the support fund being entered in separate columns. This is followed by an exhibit showing the amount of the collegiate support fund used in the purchase of equipment and for improvements in the different departments. Hitherto, these have been included under the department current expenses. They are given separate statement in this report as a help to clearness in accounting. It has always been the practice of the college to limit the general budget in the first year of the legislative biennial appropriation period, so that, with the increase in students and the natural growth in the different departments, the budget for the second year can still be held within the income of the college. This policy has provided, from the first year's income, a fund with which the board has been able to buy for the departments some greatly needed equipment not covered by the direct appropriations of the legislature.

The two exhibits, one showing the regular budget expenditures and the other the amount of support fund used in the purchase of equipment, follow, and are marked respectively (a) and (b).

I. COLLEGE EDUCATIONAL WORK.

EXPENDITURES.

(a) Instruction and General Expenses.

For What Purpose	1914-15		1915-16	
	From Fees	From Support Fund	From Fees	From Support Fund
I. Salaries:				
Professors, associate professors and assistant professors, and administrative officers	----------	$ 228,390.21	----------	$ 262,583.11
Instructors and assistants	----------	112,989.60	----------	132,581.54
II. Department Expenses:				
Agricultural Education	----------	1,129.28	----------	1,237.54
Agricultural Engineering	$ 2,427.62	2,166.69	$ 2,321.80	1,809.19
Agricultural Journalism	----------	1,847.04	----------	1,060.92
Animal Husbandry	2,752.04	1,948.03	2,572.50	2,373.93
Bacteriology	1,050.00	1,417.63	1,437.50	1,354.20
Botany	2,777.14	873.63	2,803.50	1,968.04
Chemistry	17,186.35	1,704.55	18,150.97	1,184.07
Civil Engineering	1,141.80	1,833.26	1,486.00	575.44
Dairying	1,643.20	1,594.19	2,030.20	1,735.69
Dairy Husbandry	----------	1,689.93	----------	2,292.79
Economics	----------	748.60	----------	837.85
Electrical Engineering	319.00	1,182.54	585.00	1,362.42
English	306.96	697.37	356.55	702.81
Farm	----------	2,624.09	----------	3,608.05
Farm Crops	1,287.97	1,037.13	1,135.88	1,038.94
Farm Management	----------	507.63	158.00	694.72
Forestry	27.00	1,108.80	20.00	1,126.80
History	----------	402.60	----------	394.44
Home Economics	6,027.85	2,463.72	6,771.17	2,075.11
Horticulture	374.15	3,548.31	431.85	4,073.26
Hospital	8,708.70	----------	7,818.00	----------
Library (General)	711.25	872.75	697.00	1,186.24
Library (books and periodicals)	----------	4,558.09	----------	3,424.60
Mathematics	----------	203.78	----------	234.97
Mechanical Engineering	3,702.75	1,761.12	2,482.32	2,010.82
Military	----------	800.32	----------	802.80
Mining Engineering	----------	1,249.58	67.00	1,439.78
Modern Languages	----------	49.86	----------	109.90
Music (including piano rentals)	326.20	333.66	235.20	337.85
Photography	37.09	120.55	48.00	57.13
Physical Culture	1,022.00	230.06	880.00	15.51
Physical Training	2,887.07	485.01	3,219.20	642.09
Physics	1,219.75	1,360.93	2,340.80	1,508.63
Poultry Husbandry	427.00	1,482.05	497.50	1,628.50
Public Speaking	----------	70.45	----------	124.12
Soils	1,854.40	1,755.14	2,066.20	1,556.53
Structure Design	----------	230.06	142.50	411.97
Summer School	1,780.50	11,316.28	2,008.75	9,742.90
Transportation	----------	1,219.98	----------	2,263.01
Veterinary Ambulatory Clinic	----------	----------	----------	—378.16
Veterinary Anatomy	743.50	524.45	1,429.00	369.75
Veterinary Pathology	265.00	560.64	264.00	462.50
Veterinary Physiology	90.00	274.95	152.00	230.46
Veterinary Practice and Diagnosis	----------	207.57	102.00	39.07
Surgery	130.00	962.09	70.00	1,108.63
Zoology	1,734.58	645.91	1,870.64	666.31
III. Scholarship Funds:				
College Tuition Scholarships	----------	1,600.00	----------	1,750.00
Clay-Robinson Fellowship	----------	100.00	----------	275.00
State Fair Scholarships	----------	224.96	----------	771.89
IV. Administrative and general expenses: Administrative, including office help and expenses of the executive and administrative offices	1,831.00	29,030.18	2,066.00	34,284.66
General, including lectures, com-				

EXPENDITURES—Continued

For What Purpose	1914-15 From Fees	1914-15 From Support Fund	1915-16 From Fees	1915-16 From Support Fund
mencement, Sabbath services, advertising, printing, ringing chimes, etc.		7,933.19		10,903.63
V. Heat, light and janitor service for public buildings	28,505.62	32,942.91	35,667.28	37,977.13
Student repair fund	3,535.12		197.13	
Part of expense of caring for public grounds		1,534.37		874.60
Totals	$ 96,922.60	$ 476,145.18	$ 105,232.23	$ 543,938.38

(b) Equipment and Improvements.

(From Collegiate Support Fund.)

For What Purpose	1914-15 From Support Fund	1915-16 From Support Fund
I. Equipment:		
Agricultural Education	$ 225.66	$ 50.00
Agricultural Engineering	654.51	110.45
Agricultural Journalism	176.90	50.00
Ambulatory Clinic		511.65
Anatomy	392.79	41.20
Animal Husbandry	4,453.99	5,327.35
Bacteriology	283.11	409.05
Botany	1,334.84	1,403.68
Campus Map	713.85	235.05
Chemical Engineering		253.05
Chemistry	3,999.45	1,109.77
Chemistry Building chairs	2,728.63	
Chemistry Library stacks		236.00
Civil Engineering	1,671.83	292.15
Commencement decorations		42.52
Dairy	1,265.69	
Dairy Farm		28.00
Dormitory furniture (East Hall)		1,641.47
Dormitory furniture (West Hall)	4,559.15	
Economics	48.15	
Electrical Engineering	1,378.05	
Electrical Engineering sub station		23.75
Engineering Experiment Station		299.50
English	180.69	
Farm	104.35	212.40
Farm Crops	508.64	552.30
Farm Management	24.34	
Forestry	279.73	
Gymnasium (chairs and movable stage)		885.72
Home Economics	2,422.47	601.50
History	105.00	
Horticulture	408.79	657.06
Hospital		150.00
Inventory Clerk	308.53	200.00
Library	1,702.43	1,804.97
Margaret Hall (furniture)	151.10	121.22
Mathematics	59.00	
Mechanical Engineering	388.10	
Military	38.82	
Mining Engineering	421.03	209.07
Music	218.72	
Pathology	194.28	
Photography	409.46	118.61
Physical Culture	138.82	92.45

EXPENDITURES—Continued

For What Purpose	1914-15 From Support Fund	1915-16 From Support Fund
Physical training	248.00	47.47
Physics	1,950.85	
Physiology	176.34	319.34
Poultry		112.15
Practice and Diagnosis		71.59
President's Office	235.50	32.88
President's residence (furniture)		429.58
Printing department	96.24	925.00
Public Speaking		48.10
Registrar's office		100.00
Secretary's office	10.50	96.00
Soils	742.84	419.32
Structure Design	628.03	
Surgery	165.29	485.51
Transportation	1,184.71	
Treasurer's office	61.07	
Veterinary Dean's office	165.68	50.00
Zoology	1,603.10	676.74
Equipment totals	$ 39,119.05	$ 21,483.62
II. Department Improvements:		
Public grounds, campus planting, bridge and new roads	2,479.29	6,403.79
Dairy Farm drainage		203.97
Farm drainage		66.45
Men's tennis courts	403.52	6.50
Women's tennis courts		137.80
Totals of Equipment and Improvements	$ 42,001.86	$ 28,302.13

SUMMARY.

	1914-15.	1915-16
I. Salaries	$341,379.90	$395,164.65
II. Department Expenses	124,450.53	129,238.64
III. Scholarship Funds	1,924.96	2,796.89
IV. Administrative and General Expenses	38,794.37	47,254.29
V. Heat, light and janitor service for public buildings; student repair fund, and improvement of public grounds	66,518.02	74,913.27
Total instruction and current expenses	$573,067.78	$649,367.74
Equipment and department improvements	42,001.86	28,302.13
Total collegiate educational work	$615,069.64	$677,669.87

The budget for the collegiate work for 1916-17 will be found near the close of this report.

II. NON-COLLEGIATE WORK.

This work was established five years ago. It was at first confined entirely to agricultural lines. In 1913 it was extended to home economics and engineering. The original appropriation was $25,000 annually. This was increased in 1913 by $12,500 set aside by the legislature from the special two year tax fund created for the additional support of the college in its various activities. This tax, payable during the calendar years 1914 and 1915, was collected in about the proportion of three-fifths in the first half and two-fifths in the second half of each year. The legislature of 1915 replaced this tax fund with a direct annual appropriation which became effective July 1st of that year. The appropriation act limit-

ed the amount payable to the college from the tax fund for the first half of 1915 to one-half of the yearly allowance. This, with the two-fifths paid in the last half of 1914, made only nine-tenths of the annual appropriation from the tax fund available for the fiscal year extending from July 1, 1914 to July 1, 1915. At the time this additional annual amount was granted to agriculture, home economics was included in the agricultural division, and in asking for the increase the importance of establishing sub-collegiate work in this line was accented. When home economics was made a separate division, the fund was divided by the Board of Education on the basis of giving agriculture $7,500 and home economics $5,000 of the increase allowed. The nine-tenths of $12,500 or the $11,250 available as shown for the fiscal year 1914-15, was divided in the same ratio, giving for that year $6,750 to agriculture and $4,500 to home economics.

The annual appropriation under the new law, which became effective July 1, 1915, is $54,000 and covers agriculture, home economics and engineering. There has been charged to this appropriation the entire cost of the special sub-collegiate work in agriculture for the last year, and also the cost of the underlying scientific work for the three lines designated in the law. Home economics and engineering have had other sources of income as will be shown later when these courses are given special consideration.

Giving attention first to the course in agriculture we have:

(a) Non-collegiate courses in Agriculture.

These include a two year course in agriculture and a one year course in dairying. The following exhibit shows the expenditures for the two years:

EXPENDITURES.

For What Purpose	1914-15		1915-16	
	From Fees	From Support Fund	From Fees	From Support Fund
I. Salaries:				
Professors and assistant professors		$ 15,702.28		$ 15,332.70
Instructors and assistants		11,647.42		17,021.33
II. Current Expenses:				
Agronomy	$ 623.79	345.16	$ 603.80	468.98
Agricultural Engineering	783.88	894.26	699.16	606.55
Animal Husbandry	1,033.20	399.52	842.50	697.91
Botany			413.75	1,037.59
Chemistry		100.00		208.00
Dairying	655.30	192.91	559.07	439.48
English		93.62		113.45
History		20.68		50.27
Horticulture	360.95	372.63	373.25	619.36
Mathematics		5.80		25.99
Modern Languages				26.90
Public Speaking		9.75		29.80
III. Administrative and General Expenses:				
Agricultural Dean		135.68		226.71
Publicity				599.94

EXPENDITURES--Continued

For What Purpose	1914-15		1915-16	
	From Fees	From Support Fund	From Fees	From Support Fund
IV. Heat, Light and Janitor Service		1,400.00		1,400.00
V. Equipment:				
Agronomy		337.62		109.73
Agricultural Engineering		1,012.62		118.44
Animal Husbandry		2,465.59		2,783.01
Botany		1,038.10		234.40
Chemistry		1,207.59		424.40
Dairy		146.69		145.45
English		188.23		189.36
History				42.95
Horticulture		353.60		385.41
Mathematics		30.15		
Totals	$ 3,457.12	$ 38,099.90	$ 3,491.53	$ 44,298.11

SUMMARY.

	1914-15.	1915-16
I. Salaries	$ 27,349.70	$ 32,354.03
II. Department expenses	5,891.45	8,775.81
III. Administrative expenses	135.68	826.65
IV. Heat, light and janitor service	1,400.00	1,400.00
V. Equipment	6,780.19	4,433.15
Totals	$ 41,557.02	$ 47,789.64

The financial summary of this part of the sub-collegiate work for the biennial period is given below. The sources of income have been already explained.

RECEIPTS.

Cash balance July 1, 1914		$ 12,114.58
Income for 1914-15:		
Annual appropriation	$ 25,000.00	
From two year millage tax	6,750.00	
Student fees as shown above	3,457.12	35,207.12
Income for 1915-16:		
Annual appropriation	$ 54,000.00	
Student fees as shown above	3,491.53	57,491.53
Total		$104,813.23

DISBURSEMENTS.

For 1914-15 as shown in summary above	$ 41,557.02	
For 1915-16 as shown in summary above	47,789.64	$ 89,346.66
Cash balance on hand July 1, 1916		15,466.57
Total		$104,813.23

The cash balance is disposed of as follows:

Reserved as working capital	$ 6,000.00
Set aside to be expended by the president of the college and finance committee for equipment, furniture and publicity	9,466.57
Total	$ 15,466.57

(b) Non-collegiate course in home economics.

The division between agriculture and home economics of the tax fund of 1914-15 set aside by law for the non-collegiate courses, has been explained in the general discussion of the two year work. The share going to home economics was $4,500. In addition to this, the department was given one-fourth of the joint fund for four-year and two-year home economics, which for 1914-15 totalled, for the two lines of work, $18,000, being the annual allowance of $20,000 minus the one-tenth reduction resulting from legislative action. The department therefore received from this source $4,500. In the division of this fund the second year, $7,500 was set aside for home economics. The laboratory fees also constitute a source of income. These receipts and the purposes for which they were expended are shown in the following exhibit:

RECEIPTS.

Cash balance July 1, 1914		$ 240.04
Income for 1914-15:		
From two year millage tax	$ 9,000.00	
Student fees	1,216.27	10,216.27
Income for 1915-16:		
Share of $20,000 appropriation for four year and two year home economics courses	$ 7,500.00	
Student fees	829.45	8,329.45
		$ 18,785.76

EXPENDITURES.

For 1914-15:		
Salaries		$ 6,045.41
Current expenses—home economics		337.11
Current expenses—chemistry		38.92
Current expenses—English		45.60
Current expenses—botany		175.73
Equipment		762.94
Student fees		1,216.27
Heat, light and janitor service		700.00
Total		$ 9,321.98
Expenditures for 1915-16:		
Salaries	$ 3,550.00	
Current expenses	1,535.03	
Equipment	1,538.83	
Student fees	829.45	
Heat, light and janitor service	700.00	8,153.31
Total expenditures		$ 17,475.29
Cash balance on hand July 1, 1916		1,310.47
Total		$ 18,785.76

This balance is available for equipment and furniture or for emergency expenses.

(c) Engineering trade school.

The amount set aside by law from the two year tax for engineering extension and trade school was $25,000. This was divided in the budget of 1914-15 as follows:

Engineering Extension	$ 18,455.00
Trade School at the College	6,545.00

In changing from the millage tax to direct appropriations, the legislative reduction of one-tenth, for this year, which affected all appropriations from the tax fund, reduced the total annual amount for this work from $25,000 to $22,500, and thus the share going to the trade school at the college was reduced from $6,545.00 to $5,890.50. The division of the direct appropriation for 1915-16 was on the basis of:

Extension work	$ 19,900.00
Trade School	5,100.00
	$ 25,000.00

The following exhibit shows these items of income, along with the student fees; and also the expenditures for each year:

RECEIPTS.

Cash balance July 1, 1914		$ 3,013.75
Income for 1914-15:		
Share of appropriation from tax fund as explained above	$ 5,890.50	
Income for 1915-16:		
Share of direct appropriation for extension and trade school	5,100.00	
Student fees	37.00	11,027.50
Total		$ 14,041.25

EXPENDITURES.

For 1914-15:		
Salaries	$ 4,397.53	
Current expenses	687.13	
Heat, light and janitor service	450.00	
Equipment	50.59	$ 5,585.25
For 1915-16:		
Salaries	$ 3,283.34	
Current expenses	942.23	
Heat, light and janitor service	500.00	
Equipment	418.59	
Student fees	37.00	5,181.16
		$ 10,766.41
Cash balance on hand July 1, 1916		3,274.84
Total		$ 14,041.25

The balance on hand is reserved as working capital and for equipment and emergencies.

The following is a summary, for the biennial period, of expenditures on account of the sub-collegiate work taken as a whole:

SUMMARY OF EXPENDITURES.

(Sub-collegiate work.)

	1914-15		1915-16	
	Salaries and Current Expenses	Equipment	Salaries and Current Expenses	Equipment
Agriculture (including science work)	$ 34,776.83	$ 6,780.19	$ 43,356.49	$ 4,433.15
Home Economics	8,559.04	702.94	6,614.48	1,538.83
Engineering	5,534.66	50.59	4,762.57	418.59
Totals	$ 48,870.53	$ 7,563.72	$ 54,733.54	$ 6,390.57

Total sub-collegiate expenditures for 1914-15 ..... $ 56,464.25
Total sub-collegiate expenditures for 1915-16 ..... 61,124.11

Total for biennial period $117,588.36

In making comparison with the treasurer's books, refunds and sales should be added to both receipts and expenditures. These can be found in the general refund and sales exhibit. They total as follows:

	1914-15	1915-16
Refunds	$ 192.41	$ 334.25
Sales	21.85	46.76
Totals	$ 214.26	$ 381.01

BUDGETS OF SUB-COLLEGIATE COURSES.

1916-17.

The funds available for the sub-collegiate courses for 1916-17 are as follows:

The general annual fund appropriated by the legislature for the support of sub-collegiate courses in agriculture, home economics and engineering	$ 54,000.00
Such portion of the annual appropriation or $20,000 for two year and four year courses in home economics as the board sets aside for the two year work, fixed for 1916-17 at	4,000.00
Share of annual appropriation of $25,000 for trade school and engineering extension work devoted by the board to trade school work at the college	4,000.00
Total	$ 62,000.00

The expense budget for the year is as follows:

	General Fund	Special Home Economics Fund	Special Trade School Fund
Administration:			
Dean, part salary	$ 2,000.00		
Current expenses	225.00		
Agricultural Engineering:			
C. K. Shedd, Associate Professor	2,200.00		
Charles Miller, Instructor	1,200.00		
Instructor (2-3 time)	667.00		

EXPENDITURES—Continued

	General Fund	Special Home Economics Fund	Special Trade School Fund
Department Expenses:			
Merle Crabtree, Stenographer (4-13 time)	240.00		
L. M. Kelley, Toolkeeper	420.00		
Current Expenses	240.00		
Agronomy:			
H. L. Eichling, Professor	2,500.00		
D. Zentmire, Assistant Professor	1,500.00		
Peter Hanson, Instructor	1,200.00		
Department Expenses:			
Gertrude Heggen, Stenographer (began September 1)	550.00		
Current Expenses	500.00		
Animal Husbandry:			
M. G. Thornburg, Professor	2,500.00		
P. R. Lisher, Associate Professor	1,800.00		
A. A. Dowell, Instructor	1,400.00		
H. M. Lackie, Assistant Professor	250.00		
Department Expenses:			
Mrs. Watha McGrath, Stenographer	195.00		
Current Expenses	405.00		
Dairying:			
Vincent Chappell, Instructor	1,400.00		
C. A. Iverson, Instructor	1,200.00		
Current Expenses	370.00		
Horticulture:			
J. C. Cunningham, Professor	2,500.00		
F. L. Overly, Assistant Professor	1,600.00		
Edward Isaac, Instructor	1,200.00		
Wm. Jeffrey, Greenhouse man (5-13 time)	300.00		
Department Expenses:			
Amy Purvis, Stenographer	720.00		
Current Expenses	450.00		
Bacteriology and Botany:			
J. C. Cunningham (see above)			
W. C. Lott, Instructor	1,000.00		
Current Expenses	450.00		
Chemistry:			
W. H. Lancelot, Instructor	1,200.00		
Edna Fry, Instructor	900.00		
Student Assistants	225.00		
L. H. Dixon, Storekeeper (4-15 time)	60.00		
Current Expenses	115.00		
Economic Science:			
Millard Peck, Instructor (half time)	300.00		
Instructor (part time)	100.00		
English:			
Esther L. Cooper, Associate Professor and Acting Chairman	1,000.00		
Mabel Fleming, Instructor	1,050.00		
Mrs. May Youtz, Instructor	1,000.00		
May Bowen, Assistant	800.00		
Current Expenses	300.00		
History:			
Millard Peck, Instructor (half time)	300.00		
Current Expenses	50.00		
Mathematics:			
Gertrude Herr, Instructor	1,200.00		
Minnie Harmsen, Instructor (half time)	500.00		
Student Assistants	300.00		
Current Expenses	25.00		

EXPENDITURES—Continued

	General Fund	Special Home Economics Fund	Special Trade School Fund
Modern Languages:			
Mildred Semmons, Instructor	900.00		
Public Speaking:			
Charlotte Dryden, Instructor (part time)	450.00		
Current Expenses	30.00		
Veterinary:			
W. E. Guard, Assistant Professor (¼ time)	400.00		
Special Items:			
Fires and lights	1,100.00		
Janitor service	300.00		
Home Economics:			
Myrtle Ferguson, Associate Professor and Supervisor		1,700.00	
Annie H. Hawkes, Instructor		1,300.00	
Mabel Russell, Instructor	1,100.00		
Charlotte Dryden, Instructor (part time)	750.00		
Department Expenses:			
Stenographic service	200.00		
Fires, lights and janitor service		950.00	
Current expenses	725.00	50.00	
Trade School:			
K. G. Smith, Professor			*900.00
F. J. Giehler, Instructor			**750.00
Wm. Ross Little, Instructor			1,100.00
Allan B. Campbell, Instructor (half time)	***550.00		
Department Expenses:			
Stenographic service			420.00
Fires, lights and janitor service			500.00
Current expenses	670.00		180.00
Equipment and Furniture:			
For various departments as approved by the President of the College and the Finance Committee	5,318.00		
Balances unassigned (Oct. 1, 1916)	500.00		150.00
Total fund for year	$ 54,000.00	$ 4,000.00	$ 4,000.00

*Also receives $2,400 from Engineering Extension.
**Also receives 750 from Engineering Extension.
***Also receives 550 from Engineering Extension.

VACATION COURSES.

The Summer School, the winter short courses at the college, and the Veterinary Practitioners' course, are grouped under this heading. The fact that the work they cover is quite distinct from that of the collegiate or sub-collegiate courses, and that they are now supported by special state appropriations, furnishes logical reason for giving them separate financial presentation.

SUMMER SCHOOL.

This school, which was established in 1911, was, until 1915, supported entirely by appropriations from the regular college support fund, the expenditures for the fiscal year 1914-15 totalling $11,316.28 in addition to fees

collected from students. The rapid growth of the school and the urgent demand for two six-weeks sessions instead of one, made it necessary to ask special aid of the legislature. The General Assembly of 1915 voted an annual appropriation of $20,000 toward meeting the expenses of these summer sessions. This amount was supplemented last year by an appropriation of $9,742.90 from the general support fund. These figures do not show, however, the relative cost of the schools for the different years. Since the fiscal year ends while the summer school is in session, the fiscal year accounts do not cover the expenses of any one summer school. If the figures were adjusted according to schools rather than fiscal years, the relative cost of the schools for 1914, 1915 and 1916 would be about in the proportion of $11,000, $22,000 and $25,000. As already stated, the expenditures for the fiscal year 1914-15 were charged to the College Support fund and have been accounted for, as have $9,742.90 of the disbursements for 1915-16.

The following shows the charges against the state appropriation of $20,000, which was available for the second year of the biennial period:

F. E. Applegate, Instructor in General Agriculture	$ 90.00
J. H. Atkinson, Instructor in English	150.00
E. S. Baird, Instructor in Manual Training	150.00
Mary Brady, Instructor in Rural and Grade Teachers Course	150.00
Iva L. Brandt, Special Instructor in Home Economics	250.00
W. A. Brindley, Instructor in Civics	150.00
R. E. Buchanan, Professor in Bacteriology	300.00
Mrs. Anna L. Burdick, Special Instructor in English	200.00
Florence Busse, Instructor in Home Economics	150.00
O. H. Cessna, Professor in Psychology	300.00
Luella Chapman, Instructor in Writing (Special)	200.00
W. F. Coover, Professor in Chemistry	300.00
F. H. Culley, Assistant Professor in Horticulture	100.00
J. C. Cunningham, Professor in General Agriculture	250.00
H. L. Eichling, Associate Professor in General Agriculture	250.00
R. K. Farrar, Instructor in Manual Training	200.00
Genevieve Fisher, Instructor in Home Economics	200.00
Henry Giese, Instructor in Manual Training	150.00
L. S. Gillette, Instructor in Dairy Husbandry	73.36
Rose L. Gouldin, Instructor in Reading and English	150.00
Johanna M. Hansen, Instructor in Home Economics	200.00
Peter Hanson, Instructor in General Agriculture	125.00
Annie Hawkes, Instructor in Home Economics	200.00
W. R. Hechler, Associate Professor in Farm Crops	250.00
F. W. Hicks, Instructor in Didactics	200.00
K. J. Hoke, Special Instructor in Agricultural Education	300.00
Edward Isaac, Instructor in General Agriculture	125.00
John Ise, Assistant Professor in Economic Science	150.00
Wright Johnson, Chimes Ringer	25.00
Mabel F. Kingsbury, Instructor in Home Economics	125.00
H. B. Kinney, Instructor in Soils	100.00
T. D. Kirkpatrick, Instructor in Physics Laboratory	75.00
Selma M. Konold, Instructor in Music	150.00
A. P. Laughlin, Special Instructor in Manual Training	300.00
Max Levine, Assistant Professor in Bacteriology	200.00
Pearl McCaslin, Instructor in Arithmetic (Special)	200.00
Clyde McKee, Assistant Professor in Farm Crops	200.00
Sylvia A. Miller, Instructor in Home Economics	175.00
J. E. Moore, Instructor in Manual Training	200.00
M. Mortensen, Professor in Dairying	208.33
Agnes G. Mosher, Instructor in Mathematics	125.00
H. B. Munger, Professor in Farm Management	187.50
A. B. Noble, Professor in English	300.00
Amy W. Noll, in charge of Library	125.00
F. L. Overley, Instructor in Horticulture	200.00
O. A. Olson, Instructor in Mechanical Engineering	125.00

L. H. Pammel, Professor in Botany	300.00	
E. A. Pattengill, Associate Professor in Mathematics	250.00	
N. C. Pervier, Instructor in Manual Training	150.00	
W. H. Pew, Professor in Animal Husbandry	120.00	
B. F. Pittinger, Special Instructor in Agricultural Education	225.00	
H. J. Plagge, Assistant Professor in Physics	200.00	
F. P. Reed, Instructor in History (Special)	200.00	
S. R. Renshaw, Associate Professor in Chemistry	250.00	
H. W. Richey, Instructor in Horticulture	125.00	
Bertha M. W. Riley, Special Instructor in Home Economics	180.00	
Grace Schermerhorn, Assistant Professor in Agricultural Education	200.00	
L. B. Schmidt, Associate Professor in History	125.00	
Anna A. Schnieb, Special Instructor in Didactics	200.00	
P. S. Shearer, Associate Professor in Animal Husbandry	250.00	
C. K. Shedd, Associate Professor in Agricultural Engineering	250.00	
Ora Smith, Instructor in Geography and Physics	150.00	
Roy E. Smith, Assistant Professor in Soils	250.00	
G. W. Snedecor, Associate Professor in Mathematics	250.00	
L. B. Spinney, Professor in Physics	300.00	
E. M. Spangler, Instructor in Mechanical Engineering	125.00	
W. H. Stevenson, Professor in Agronomy	300.00	
Bertha Stiles, Instructor in Rural and Grade Teachers' Course (Special)	200.00	
L. A. Test, Associate Professor in Chemistry	250.00	
Lora Thompson, Instructor in Home Economics	150.00	
M. G. Thornburg, Professor in Animal Husbandry	250.00	
Winifred R. Tilden, Instructor in Physical Culture	162.00	
Anna K. Tjaden, Instructor in Manual Training	150.00	
M. R. Tolstrup, Instructor in Dairying	45.14	
Geo. M. Turpin, Professor in Poultry	83.33	
H. W. Vaughn, Associate Professor in Animal Husbandry	250.00	
Mary Vaughn, Instructor in Home Economics	125.00	
G. H. Von Tungeln, Associate Professor in Economic Science	187.50	
J. A. Wilkinson, Associate Professor in Chemistry	250.00	
Carl B. Wilson, Laboratory Assistant in General Agriculture	75.00	
G. M. Wilson, Director of Summer Session	500.00	
Polly Witwer, Special Instructor in Home Economics	200.00	
D. H. Zentmire, Instructor in General Agriculture	175.00	
		$15,787.14

SECOND TERM.

John Buchanan, Instructor in Chemistry	$ 125.00	
Luella Chapman, Instructor in Penmanship	83.33	
J. W. Clarson, Instructor in Grammar, Civics and Economics	83.33	
R. C. Coad, Instructor in Agricultural Education (special)	130.00	
J. E. Foster, Instructor in Agricultural Education	70.00	
E. F. Ferrin, Associate Professor in Animal Husbandry	166.66	
C. C. Fowler, Associate Professor in Chemistry	250.00	
Gertrude Herr, Instructor in Mathematics	62.50	
J. W. Howell, Instructor in Didactics	75.00	
John Hug, Instructor in Mechanical Engineering	100.00	
John Ise, Assistant Professor in Economic Science	200.00	
Mabel Kingsbury, Instructor in Home Economics	125.00	
J. A. Krall, Instructor in Farm Crops	125.00	
A. P. Laughlin, Special Instructor in Manual Training	300.00	
Kate Lysinger, Instructor in Primary Methods	62.50	
Pearl McCaslin, Instructor in Geography, Arithmetic and Physics (Special)	200.00	
Wyllie B. McNeal, Instructor in Home Economics	175.00	
M. Mortensen, Professor in Dairying	83.33	
W. R. Raymond, Associate Professor in English	187.50	
F. R. Reed, Instructor in History	150.00	
Gladys Rush, in charge of Library	125.00	
Harold Stiles, Assistant Professor in Physics	150.00	
Anna K. Tjaden, Instructor in Manual Training	150.00	
M. R. Tolstrup, Instructor in Dairying	55.50	

G. M. Turpin, Professor in Poultry	250.00	
T. F. Vance, Assistant Professor in Psychology	150.00	
E. C. Volz, Instructor in Horticulture	125.00	
David Williams, Instructor in Orthography	100.00	
G. M. Wilson, Director of Summer Session	300.00	
		4,159.65
Total for both Sessions		$19,946.81
Add to this the expenditures for miscellaneous supplies		53.19
Total		$20,000.00

For the fiscal year 1916-17 the Board of Education has set aside the following amounts:

First term of six weeks—	
Annual appropriation from the state	$20,000.00
Special from Collegiate Support Fund	2,000.00
Second term of six weeks—	
Special from Collegiate Support Fund	5,000.00
Total	27,000.00

This fund is to be apportioned by the finance committee upon recommendation of the president of the college. Any further amount required for the second term may be secured from the summer session allotment from the support fund for the fiscal year beginning July 1, 1916.

WINTER SHORT COURSES AT THE COLLEGE.

As in the case of the Summer School, the winter short courses at Ames were, until 1915, maintained by appropriations from the collegiate support fund. With the idea of relieving this fund of that expense and developing still further the short course work, the last legislature included in the permanent annual appropriations an item of $9,500.00 for winter short courses in agriculture, home economics, and engineering and trade school work. Since the expenditures for the winter short courses for 1914-15 were charged, under the old plan, to the college support fund, they have been already accounted for in the different collegiate department accounts. The expenditures for the fiscal year 1915-16 have been charged to the special appropriations. The account with that appropriation for the year, stands as follows:

WINTER SHORT COURSES FOR 1915-16.

RECEIPTS.

Annual appropriation		$ 9,500.00

EXPENDITURES.

General expenses, publicity, accommodations, guides, etc.	$ 1,102.67	
Boys' and girls' club work	127.47	
Agricultural Dean's office general expense	310.49	
Engineering Dean's office general expense	71.65	
Agricultural Education Department	45.64	
Agricultural Engineering Department	125.50	
Agricultural Journalism Department	177.21	
Animal Husbandry Department	1,002.00	
Botany Department	29.66	
Dairy Department	398.37	
Engineering courses	1,281.71	

Farm Crops Department (including corn show)	859.28	
Farm Management Department	102.00	
Forestry Department	65.67	
Home Economics Department	288.03	
Horticulture Department	224.98	
Soils Department	212.91	
Total expenditures		$ 6,426.14
Balance on hand July 1, 1916		$ 3,073.86

This balance is available for the purchase of equipment, and to meet emergencies. The following shows the amount available for the regular work of the fiscal year 1916-17 and the purposes for which it has been appropriated by the Board of Education:

WINTER SHORT COURSES—INCOME AND BUDGET—1916-17.

INCOME.

Annual State appropriation	$ 9,500.00

BUDGET.

Agricultural Dean's office	$ 500.00
Agricultural Education Department	100.00
Agricultural Journalism Department	200.00
Animal Husbandry Department	925.00
Botany Department	75.00
Dairy Department	500.00
Farm Crops Department	840.00
Small Grain and Corn Exhibit	600.00
Farm Management Department	175.00
Forestry Department	150.00
Horticulture Department	560.00
Junior Work (Boys' and Girls' Clubs)	350.00
Soils Department	300.00
Agricultural Engineering Department	200.00
Home Economics Department	500.00
Engineering (all departments)	1,750.00
Miscellaneous:	
Publicity	750.00
Printing programs	50.00
Accommodations committee	350.00
Unappropriated balance	625.00
	$ 9,500.00

VETERINARY PRACTITIONERS' COURSE.

The purpose of this course is to enable the veterinary department to render such assistance as it may to the practitioners of the state in solving the problems they meet with in their practice. This end is reached, in part, through an annual meeting, at which the veterinary faculty is assisted by distinguished veterinarians from other institutions. The proceedings of this meeting are published in the form of a bulletin. It is also proposed to hold one or more practitioners' conferences during the year. Naturally, considerable expense is incurred, too, in gathering data and conducting research work in connection with the problems dealt with in the meeting and conferences.

It will be noticed that the annual appropriation for the course was reduced by the legislature from $5,000 to $2,500, the amount of the reduction being added to the fund for veterinary investigation. The work is developing rapidly and will make heavier demands upon its funds in the future. It will directly need more money than is now granted it.

The exhibit which follows shows the receipts and expenditures for the course during the biennial period. The first item in the receipts is the $5,000 appropriation of the first year less the one-tenth reduction made by the legislature of 1915; the second item is the portion of the $2,500 appropriation of the second year drawn from the state treasury. The balance of $625.01 is to be drawn later. The proceeds of sales amounting to $231.90 are reported elsewhere and are stricken from both sides of the account:

RECEIPTS.

Cash balance July 1, 1914		$ 2,411.44
Income for 1914-15:		
From two year millage tax	$ 4,500.00	
Income for 1915-16:		
Drawn from state treasury nine-twelfths of annual appropriation of $2,500	1,874.99	6,374.99
Total		$ 8,786.43

EXPENDITURES.

For 1914-15—General Expenses	$ 1,588.77	
For 1915-16—General Expenses	3,816.49	5,405.26
Cash balance on hand July 1, 1916		$ 3,381.17

The above balance of $3,381.17, together with amount undrawn, in the hands of the state treasurer, $625.01, makes the total unexpended $4,006.18. A portion of this is needed as a working balance and the remainder to supplement the smaller appropriation for the coming year.

The income and budget for the following year, independent of the balance brought over, are as follows:

PRACTITIONERS' COURSE INCOME AND BUDGET—1916-17.

INCOME.

Annual appropriation	$ 2,500.00

BUDGET.

H. E. Bemis, part salary	$ 450.00
Current Expenses—expected with the available balance to cover expenses of annual meeting, practitioners' conferences, bulletins, office expenses, and material and labor in preparation for instructional work	2,050.00
Total	$ 2,500.00

SUMMARY OF VACATION COURSE EXPENDITURES.

The following is a summary of the expenditures on account of the vacation courses, not charged to the general collegiate support fund, but to the special annual appropriations for this vacation work:

EXPENDITURES.

	1914-15	1915-16
Summer School		$ 20,000.00
Winter Short Courses at the College		6,426.14
Veterinary Practitioners' Course	$ 1,588.77	3,816.49
Totals	$ 1,588.77	$ 30,242.63

BUILDINGS, IMPROVEMENTS AND EQUIPMENT.

These include:

1. The special building tax and the annual appropriation for buildings which replaced it.
2. Special legislative appropriations for building purposes.
3. Special appropriation for additional equipment and furnishings for buildings and departments.
4. The annual fund from the state for repairs and minor improvements; and the room rent fund used for the same purpose; also store room and campus lake accounts.

1. *Building Tax and the Annual Appropriation Which Replaced It.* The General Assembly of 1911 voted an annual tax levy of one-fifth of a mill on the taxable property of the state for the purpose of providing needed buildings for the college. This tax, beginning with 1912, was to run for five years. The legislature of 1915 decided, however, to replace it with a definite annual appropriation of $150,000.00, running for two years. The law making this change, limited the amount of the tax collected in 1915, going to the college, to $92,500. Thus the building fund for 1914-15, the first year of the biennial period covered by this report, consisted of the amount of tax collected during the six months from July 1, 1914, to January 1, 1915, $81,430.77 plus the $92,500.00 allowed by the legislature for the six months from January 1, 1915, to July 1, 1915, making a total of $173,930.77; while for the second year of the biennium the amount was simply the annual appropriation of $150,000. The total amount available during the two years consisted of these two sums plus the balance of $101,985.33 on hand at the beginning of the biennial period.

The expenditures during the biennium are set forth in the exhibits that follow. The smaller balances brought forward are grouped and accounted for first.

		Balance July 1, 1914	Expended	Balance July 1, 1916
Central building		$ 697.74		
(Fund reserved from Schleuter's contract on Central building to be used for repairing defective walls and floors in Dairy building.)				
Repairing floors and partitions and installing lights			$ 217.95	$ 479.79
Agricultural Hall		4.70		
Rehanging sash			4.70	
Ceramics Building		397.74		397.74
Domestic Technology Building		820.48		
Cutting doorway, removing wall, installing cupboard, shelving and sink and painting floors			249.30	571.18
Gymnasium		57.53		57.53
Judging Pavilion		510.40		510.40
Veterinary Building		.98	.98	
Mechanical Engineering Laboratory		2,272.28		
C. E. Heaps, account of contract	$700.00			
Federal Cement Tile Co. (roof)	300.00			
Dodd & Struthers, lightning rods	105.60			
Completing concrete floors	452.84			
Installing machinery	473.11		2,031.55	240.73
Totals		$4,761.85	$2,504.48	$ 2,257.37

By order of the finance committee, the following of the balances given above have been reverted to the general fund to be used for other purposes authorized by the General Assembly and the Board of Education.

Ceramics Building	$ 397.74
Domestic Technology Building	571.18
Gymnasium	57.53
Judging Pavilion	510.40
Total	$1,536.85

This leaves the following as uncancelled:

Central Building	$ 479.79
Mechanical Engineering Laboratory	240.73
Total	$ 720.52

The following are the larger expenditures from the building fund:

TRANSPORTATION BUILDING.

The amount set aside from the building tax for erecting and equipping this building was $65,000. Of this amount $49,816.55 was expended prior to July 1, 1914, and a full statement of it can be found on page 364 of the Third Biennial Report of the Board of Education.

The following exhibit shows how the balance of $15,183.45 was expended:

EXPENDITURES.

Neumann & Co., balance of contract less $50 reserved for heating building		$ 250.00
Fires and lights department heating building during construction		50.00
Plumbing, lighting and painting		120.25
Locks, shades and miscellaneous building items		79.58
Equipment:		
4 Alden brakes	$ 2,800.00	
1 crane	1,285.49	
Bearings for support wheels	1,921.80	
Bed plates for supporting track	2,846.00	
Castings for supporting track	625.00	
Lumber	149.00	
Cement	14.50	
Piping, etc.	1,151.80	
Drawbar	155.00	
Dynamometer post	900.00	
Labor installing equipment	1,200.11	
Freight	726.62	
Drafting and surveying	91.00	
Miscellaneous equipment	712.30	
Oil pump	105.00	$ 14,683.62
Total		$ 15,183.45

SUMMARY.

Amount set aside for construction and equipment of building		$ 65,000.00
Amount expended prior to July 1, 1914, and accounted for on page 364 of Third Biennial Report	$ 49,816.55	
Amount expended in biennial period covered by this report and accounted for above	15,183.45	
		$ 65,000.00

CHEMISTRY BUILDING.

In making provision for the erection of this building, the Thirty-fifth General Assembly set aside for this purpose $150,000 from the building

tax and supplemented it with a special appropriation of $125,000 from the general revenue fund of the state. The special appropriation is taken account of further along in this report; only the tax fund allotment is considered here. Expenditures amounting to $116,073.38 are itemized in the last biennial report, page 365. The balance of $33,926.62 is accounted for below:

EXPENDITURES.

McCarthy Improvement Co., on contract	$ 32,486.62
Proudfoot, Bird & Rawson, on account of fees	1,440.00
	$ 33,926.62

WEST HALL.

This building, designed as a dormitory for young women, had just been commenced at the beginning of the biennial period. Of the original $55,000 set aside from the building tax fund for its erection, only $1,531.18 had been expended at that time. The items making up this amount can be found on page 366 of the last biennial report. To the balance of this fund, amounting to $53,468.82, the state executive council, upon the recommendation of the Board of Education, added from the tax money the sum of $6,800 in order that the third floor, left uncompleted in the original plans, might be completed with the rest of the building. The following shows the expenditures during the biennium on account of the joint allowance for the erection and equipment of the building:

EXPENDITURES.

W. F. Kucharo & Co., contract for erection		$ 40,457.50
W. F. Kucharo & Co., extras		1,366.01
Excavating and grading		262.97
Heating and plumbing		6,667.33
Electric wiring		997.66
Electric fixtures		278.13
Cistern		212.83
Sewers		107.23
Kitchen equipment		392.35
Lift		178.39
Screens		273.31
General expense and supervision		311.03
Architect's fees		321.38
Finishing and painting walls		434.33
Finishing third floor:		
Labor	$ 2,674.64	
Architect's fees	161.77	
Marble and tile	789.00	
Millwork, sash and doors	805.28	
Hardware	162.30	
Lumber	557.75	
Heating, plumbing and electric supplies	1,198.34	
Freight and express	88.67	
General expenses	283.38	6,721.33
Total		$ 58,981.68

The following shows the condition of this account as a whole:

Amount originally set aside from interest fund for erection of building	$ 55,000.00	
Additional amount from same fund granted by the state executive council for finishing third floor	6,800.00	
Total		$ 61,800.00

Amount expended in biennial period, ending June 30, 1914, as itemized on page 366 of Third Biennial Report	$ 1,531.18	
Amount expended in biennial period, ending June 30, 1916, as shown in foregoing exhibit	58,981.68	
Balance unexpended	1,286.94	
Total		$ 61,800.00

The building is practically completed, and the greater part, or all of the balance given above is available for other improvements.

HORTICULTURAL LABORATORY AND GREENHOUSES.

Of the $95,000 of building tax fund set aside by the legislature of 1911 for the erection of agricultural laboratories, $60,000 was appropriated by the Board of Education to the erection of a horticultural laboratory and greenhouse. Only $107.19 of this amount was expended prior to the last biennial period. The expenditures during that period are given below:

EXPENDITURES.

Contract of Neumann & Co. for erection of laboratory building, including sub-basement, cistern and stone facing	$ 26,654.00
Extras on Neumann & Co.'s contract	967.66
Foley Mnfg. Co.'s contract for erection of greenhouses	16,095.00
Extras on Foley Mnfg. Co.'s contract	110.15
Architect's fees	1,269.03
Excavation and drain	961.28
Grading	519.58
Heating and plumbing—horticultural laboratory	3,612.55
Heating and plumbing—greenhouses	3,169.28
Lighting	912.24
Refrigerator room	1,395.99
Water plant	279.96
Soil bins	247.51
Extra doors	148.80
Screens for first and second floors	156.11
Painting concrete floors	105.00
Cement walks in greenhouses	203.73
Drinking fountain	45.73
Superintendence	457.46
Shelving, picture molding, cupboards, benches, coat racks, display cases	231.05
Connecting sinks, piping gas to laboratories, opaque glass in doors, door checks for glass doors	221.45
Preliminary expenses—drafting, surveying, travel expense, advertising for bids, telegrams, telephones, etc.	89.47
Miscellaneous expenses	466.55
Total	$ 58,219.68

The following shows the condition of the account at the end of the biennium:

Amount set aside for construction and equipment		$ 60,000.00
Amount expended in biennial period, ending June 30, 1914, as noted on page 366 of the Third Biennial Report	$ 107.19	
Amount expended in biennial period, ending June 30, 1916, as shown in exhibit	58,219.68	
Balance unexpended	1,573.12	
		$ 60,000.00

The unexpended balance will be needed in part, at least, for the completion of the building.

The foregoing exhibits account for all unexpended balances of building projects under way at the beginning of the biennium, which balances

were reported on page 367 of the Third Biennial Report. The additional buildings undertaken during the past two years, are as follows:

East Hall.
Science Building.
College Hospital.

EAST HALL.

The sum of $60,000 was set aside for this building,—$57,000 from the special building fund and $3,000 from the fund derived from the rental of rooms. No portion of the latter amount has yet been expended.

The bids on the erection of the building ranged from $47,425.00 to $57,725.00. The lowest bidder was the J. B. Evans Construction Company, of Mexico, Missouri. After changing the specifications by excluding therefrom the grading and general excavation for which a deduction of $250 was made, the contract was awarded the Evans Construction Company for $47,175.00: The sum of $103.50 was afterwards allowed the Company for triple windows in the east and west gables, making the total contract, including extras, $47,278.50. The Company furnished a bond of $14,200 signed by the Chicago Bonding and Surety Company. In addition to guaranteeing the completion of the building according to contract, the bond provides that the bonding company shall be held and firmly bound to all persons who may be injured by any breach of any of its conditions, among which is the condition that the Company shall well and promptly pay all claims for labor and material furnished for or used in and about said buildings.

About the middle of March, 1916, while the building was in the process of construction, the company failed and a receiver was appointed. The Board of Education as authorized in their contract with the Company took possession of all tools, appliances and materials, and directed Superintendent Sloss to purchase such other material and employ such labor as was necessary to complete the building according to the plans and specifications. Under the orders of the Board, Superintendent Sloss already had direct charge of the installing of the heating, lighting and plumbing systems and the other work considered necessary for putting the building in shape for occupancy.

Regarding the unpaid bills of the Construction Company for material and labor, it is understood that the parties in interest shall look directly to the Bonding Company for payment of balance due after the building has been completed according to contract, and after the amount coming to the company, if any, has been applied upon such bills.

The following exhibit shows the condition of the account with the Construction Company:

ACCOUNT WITH J. B. EVANS CONSTRUCTION COMPANY CONTRACT.

EAST HALL.

Amount of contract	$ 47,175.00
Extras allowed	103.50
Total	$ 47,278.50

Amount paid Company before failure		$ 22,072.90
Expenditures by the College in completing contract:		
Paid prior to July 1, 1916	$ 6,586.05	
Additional bills audited prior to Oct. 15, 1916	19,616.90	26,202.95
Estimate of cost of completing Evans & Co.'s contract:		
Balance of Loetscher & Burch Mfg. Co.'s contract for mill work	$ 707.21	
Installing remaining sidelights to doors, and painting wood work	50.00	
Balance of C. Colnik Mfg. Co. on structural iron contract	252.00	
Balance of Iowa Metal Works contract	327.99	
Balance of Drake Marble & Tile Co.'s contract	478.51	
Locks to be installed	15.00	
Material from storeroom	60.68	
Miscellaneous items	35.90	$ 1,927.29
Total cost of work covered by Evans contract		$ 50,203.14
Subtract amount of contract		47,278.50
Excess of cost above contract price		$ 2,924.64

The folllowing exhibit shows the total expenditures on account of the building during the biennial period:

EXPENDITURES.

Architect's fee, part payment	$ 1,015.00
Paid Evans Construction Co. on contract	22,072.90
Paid on work included in Evans Co. contract	6,586.05
Superintendent	417.90
Grading	104.80
Miscellaneous	51.21
Lighting	1,271.11
Heating and plumbing	6,953.53
Cistern	109.39
Total	$ 38,581.89

The following is an estimate of the expenditures after July 1, 1916, necessary to complete the building:

Bills against the Evans & Co.'s contract audited prior to Aug. 15, 1916	$ 19,616.90
Estimate of cost of completing Evans & Co.'s contract	1,927.79
Heating and plumbing	882.90
Lighting	817.23
Hardware	803.77
Elevator	135.20
Superintendence	40.25
Miscellaneous	8.45
Balance of architect's fee, estimated	420.00
	$ 24,652.49

The following summary shows the probable cost of the completed building:

Expenditures during the biennial period	$ 38,581.89
Estimated expenditures after the close of the biennial period necessary to the completion of the building	24,652.49
Total	$ 63,234.38
Excess of estimated cost of building over amount set aside for its construction	3,234.38
Amount of appropriation	$ 60,000.00

The Evans Construction Company were also the contractors on the Science building. It is impossible, without access to their books, to separate the amounts owed by them to material men and others on

account of the two buildings. A statement regarding these bills follows the Science building exhibits.

SCIENCE BUILDING.

The amount set aside from the building fund in this case was $65,000. The bids on the plans as first drawn ranged from $55,900 to $70,800. The plans and specifications were modified and an agreement entered into with Evans and Company, the lowest bidder, to erect the building for $49,280.00, thus bringing its probable total cost within the sum available as shown by the following estimate for the completed structure.

General contract	$ 49,280.00
Heating, plumbing, lighting fixtures and superintendence	13,700.00
General excavation and grading	180.00
Architects' fee	1,554.00
Safety margin	286.00
Total	$ 65,000.00

The bond filed was for $15,000, and was signed by the Chicago Bonding and Surety Company. It was conditioned the same as in the case of the Women's dormitory. When the construction company failed, the college took over the tools and material and went forward with the completion of the contract. The following exhibit shows the present condition of the contract account:

ACCOUNT WITH EVANS CONSTRUCTION COMPANY CONTRACT—SCIENCE BUILDING.

Amount of original contract		$ 49,280.00
Extras allowed		834.35
Total		$ 50,114.35
Amount paid company before failure		$ 20,011.20
Amount paid by College in completing contract:		
Paid prior to July 1, 1916	$ 13,180.45	
Audited after July 1, 1916	13,536.73	26,717.18
Estimate of additional cost of completing contract:		
Balance of C. Colnik Mfg. Co.'s contract on structural iron work	$ 187.95	
Balance of Iowa Metal Works contract	887.60	
Drake Marble and Tile Co.'s contract	104.96	
Loetscher & Burch Mfg. Co.'s contract for mill work	465.96	
Material from storeroom	43.99	
Four fire doors on elevator shaft	350.00	
Installing four doors in animal room	100.00	
Door to fresh air intake room	20.00	
Door to elevator in basement	20.00	
Miscellaneous items (Munn Lumber Co.)	10.00	2,210.46
Probable balance to credit of contract price after completing contract		1,175.51
Total contract price		$ 50,114.35

The total expenditures on the building during the biennium are as follows:

EXPENDITURES.

Preliminary expenses	$ 78.60
Excavating and grading	212.33
Amount paid Evans Construction Co. before failure	20,011.20
Expenditure on account of Evans contract after failure	13,150.45
Architect's fee, part payment	1,102.50
Superintendence	568.39
Heating and plumbing	4,410.51
Plumbing to tables	353.43
Lighting	796.29
Power	261.07
Miscellaneous	33.84
	$ 41,108.61

The building is practically completed, and the most of the expenditures are definitely determined. Estimating the few remaining ones, the cost of the finished building will be approximately as follows:

COST OF SCIENCE BUILDING.

Amount expended in last biennial period			$ 41,108.61
Amount of bills audited to Oct. 15, 1916, inclusive			13,536.73
Amount expended since July 1, 1916, outside of Evans contract			3,672.42
Estimate of further expenditures necessary to complete building:			
To complete Evans contract		$ 2,210.46	
To complete work outside of Evans contract:			
Boarding up heating pipe ducts	$ 15.00		
E. H. Kimball for elevator	160.00		
Montgomery elevator, part payment	225.00		
Installing elevators	80.51		
Heating and plumbing	286.50		
Lighting	76.63		
Plumbing	136.91		
Balance of architect's fees (estimated)	225.00	1,215.55	3,426.01
Total			$ 61,743.77
Estimated balance which may be reverted to the general building fund and appropriated to the completion of East Hall			3,256.23
			$ 65,000.00

The failure of the Construction company and the necessity put upon the college of completing this dormitory and the Science Hall, have made it very difficult to keep each one of these buildings separately within the limit of the amount set aside for its construction. The two buildings taken together do not exceed the total sum appropriated for their erection. The dormitory exceeds its share by $3,234.38. The Science building does not use all of its funds by $3,256.23. A transfer of a sum not to exceed $3,200 from one fund to the other will properly adjust the accounts. This transfer should receive the approval of the State Executive Council.

The account with the Evans Construction Company shows that it cost the college $1,749.13 more than the balance of the contract price remaining in its hands, to complete the work included in the contracts. This is divided between the two buildings as follows:

Excess of cost over balance in case of East Hall	$ 2,924.64
Excess of balance over cost in case of the Science building	1,175.51
Total of claim of College against Evans Construction Co.	$ 1,749.13

Any sum recovered of bondsmen on this claim will, of course, be credited to the building fund.

COLLEGE HOSPITAL.

In the apportionment of the building fund $35,000 was assigned to this building. This was supplemented by an appropriation of $2,500 from the Hospital fund to be used in the purchase of equipment. Much time has been given to the preparing of careful plans, and the site has been chosen; but no work has been done on its construction. The expenditures amount to $101.81.

SUMMARY OF GENERAL BUILDING FUND.

College Treasurer's Receipts and Disbursements, 1915-16.

RECEIPTS.

Drawn from State Treasurer:		
During fiscal year 1914-15		$183,416.30
During fiscal year 1915-16		92,500.00
Total		$275,916.30

EXPENDITURES.

Central building	$ 217.95	
Agricultural Hall	4.70	
Domestic Technology building	249.30	
Veterinary building	.98	
Mechanical Engineering laboratory	2,031.55	
Transportation building (1914-15)	15,183.45	
Chemistry building (1914-15)	33,926.62	
West Hall	58,981.88	
Horticultural laboratory and greenhouses	58,319.68	
East Hall	38,581.89	
Science building	41,108.61	
College hospital	101.81	$248,708.42
Cash in hands of College Treasurer, July 1, 1916		27,207.88
Total		$275,916.30

In order to make a complete showing of this fund for the two years, it is necessary to combine the accounts of the college and the state treasurer. The following is the combined statement:

RECEIPTS.

Cash in hands of State Treasurer July 1, 1916, after deducting drafts of the College Treasurer included by him in accounts of the previous fiscal year		$101,985.53
Amount of 1914 tax collected in the biennial period	$ 81,430.77	
Amount of tax collected in 1915 appropriated to the College	92,500.00	173,930.77
Amount of direct appropriation for the fiscal year 1915-16		150,000.00
Total		$425,916.30

EXPENDITURES.

Expended in the erection of buildings as shown by college treasurer's books		$248,708.42
Cash in hand of college treasurer	$ 27,207.88	
Appropriation in hands of state treasurer	150,000.00	177,207.88
		$425,916.30

The special annual appropriation for buildings continues until July 1, 1917. The following exhibit shows the amount available during the fiscal year, ending at that time; together with the purposes to which it has been devoted by the Legislature and the Board of Education.

BUILDING FUND STATEMENT—1916-17.

Balance from last year		$177,207.88
Appropriation for 1916-17		150,000.00
Total available during fiscal year		$327,207.88
Amounts set aside for particular purposes and not expended July 1, 1916:		
Central Building—reserved from amount due Schleuter to complete Dairy building contract	$ 479.79	
Mechanical Engineering laboratory	240.73	
West Hall	1,286.94	
Horticultural laboratory	1,573.13	
East Hall	21,418.11	
Science building	23,891.39	
College hospital	34,898.19	83,788.28
Amount set aside for new work:		
Dairy barn	$ 20,000.00	
New Women's dormitory	55,000.00	
Animal Husbandry laboratory	50,000.00	
Addition to creamery	36,000.00	
Library building	82,000.00	243,000.00
Safety margin		419.60
Total		$327,207.88

At the beginning of the last biennial period, the following balances of special building improvement, and equipment appropriations were unexpended:

Special appropriation for Chemistry	$ 58,518.86
Central heating plant	13,005.72
Equipment of buildings and departments	20,534.69
The following additional sums were appropriated by the Thirty-sixth General Assembly:	
Additional equipment and furnishings for buildings and departments	105,000.00
Extension of heating system and equipment of heating plant	32,000.00
Repairs and improvements for dairy building, old agricultural hall and barns, temporary provisions for fruit storage, and small buildings and additions to buildings	26,500.00
Temporary provisions for home economics laboratory	1,500.00
Settling and storage water tank and connections	15,000.00
Total balances and new appropriations	$272,059.27

Taking these up in their order, we have:

A. Special Appropriation for Chemistry Building.

The unexpended balance at the beginning of the biennial period, which amounted to $58,518.86, is accounted for as follows:

EXPENDITURES.

Balance of McCarthy Co.'s contract	$ 34,144.17	
Less work done by the College	711.19	$ 33,432.96
Extras on McCarthy's contract		2,946.65

Extras on Hipwell contract	80.08
Partitions	7,883.34
Heating and plumbing	10,708.83
Basement fans	1,144.24
Grading basement	515.43
Basement ducts	653.33
Lighting	618.56
Sewer	39.35
General, including supervision	396.07
Total expenditures	$ 58,418.86
Reserved for special curtains on skylights	100.00
Total fund available	$ 58,518.86

The following summary of the cost of erecting and equipping this building to date may be of interest:

COST OF CHEMISTRY BUILDING.

From Building Tax:		
Expended in biennial period ending June 30, 1914, as shown on page 365 of Third Biennial Report	$116,073.38	
Expended in biennial period 1914-16 as shown in this report	33,926.62	$150,000.00
From special appropriation of Thirty-fifth General Assembly:		
Amount of appropriations expended in 1912-14 biennium as shown on page 368 of Third Biennial Report	$ 66,481.14	
Less amount devoted to purchase of department apparatus and supplies	10,591.70	
Net, for building	$ 55,889.44	
Amount expended in biennial period 1914-16, as shown in foregoing exhibit	$ 58,418.86	
Reserved for curtains on skylight	100.00	$114,408.30
From special appropriation of Thirty-fifth General Assembly for equipment of buildings as shown later in this report	$ 34,815.56	
From special appropriation of Thirty-sixth General Assembly for additional equipment and furnishings for buildings as shown in this report	24,343.93	
From annual Repair and Contingent fund	4,874.72	
From Support Fund for recitation room chairs	3,427.64	$ 67,461.85
Appropriations for 1916-17:		
From additional equipment fund (including balance from last year) and blackboards and pipe covering	$ 28,741.56	
From annual repair and improvement fund	1,293.78	$ 30,035.34
Total		$361,905.49

CENTRAL HEATING PLANT.

The Thirty-fifth General Assembly appropriated $30,000 for the further equipment of the Central Station and extension of tunnels. Of this amount, the sum of $13,005.72 was unexpended at the beginning of the last biennium. There was asked of the Thirty-sixth General Assembly an additional appropriation of $39,600. This was reduced by the appropriation committee to $32,000.

The following exhibit shows these receipts, together with the expenditures during the biennium:

RECEIPTS.

Unexpended balance July 1, 1914	$ 13,005.72
Appropriation by the Thirty-sixth General Assembly	32,000.00
Total amount available	$ 45,005.72

EXPENDITURES.

For 1914-15:		
High pressure steam line	$ 4,875.89	
Chimney	3,746.21	
New roof on central station	4,068.14	
High tension line	315.02	
Chemistry building tunnel	8.31	
Total expenditure	$ 13,013.57	
Less refund from railroad company for damages	17.16	$ 12,996.41
For 1915-16:		
Vacuum system	$ 941.20	
Scales	1,249.77	
Chain grate stokers	2,996.00	
Dormitory tunnel	1,017.00	
Coal hopper extension	1,228.00	
Ash conveyors	1,521.91	
Portable ash conveyor	239.25	
Exciter set	1,413.35	
Feed water pump	764.22	
Car moving apparatus	639.16	
New boilers	6,830.00	
Piping for boilers	1,102.19	
Breeching for boilers	998.97	
Foundations for boilers	3,675.98	$ 24,617.00
Total expenditures		$ 37,613.41
Unexpended balance in hands of College Treasurer	$ 9.31	
Unexpended balance in hands of State Treasurer	7,383.00	$ 7,392.31
		$ 45,005.72

The balance on hand is to be used in extending the tunnel system. The additional amount needed for the coming biennial period is set forth in the President's report.

EQUIPMENT OF BUILDINGS AND DEPARTMENTS.

The Thirty-fifth General Assembly, in providing for a two year millage tax for the benefit of the college, directed that $40,000 should be set aside annually from the proceeds of such tax for the "equipment of buildings and departments." Prior to that time the equipment appropriations had read "equipment of departments." A question having arisen as to whether laboratory tables and special laboratory plumbing, ventilation, power and transmission, shelving, cases, fans, etc., were legally equipment of departments, the wording was changed to "equipment of buildings and departments." The unexpended balance of this fund at the beginning of the last biennial period was $20,534.69. The $40,000, which, under the original law would have been added to this balance for the fiscal year 1914-15, was reduced by the Thirty-sixth General Assembly to $36,000. In lieu of the fund derived from the tax, the General Assembly made, for the following two years, a special appropriation of $105,000 for what it called "additional equipment for buildings and departments," the word additional signifying that the equipment should be additional to that

purchased with the savings in support fund reached through economical administration. This appropriation bill made $52,500 of the fund available during the fiscal year 1915-16. The exhibit which follows shows the amount available during the biennial period and the expenditures for the different buildings and departments:

RECEIPTS.

Derived from tax fund:		
Balance on hand July 1, 1914	$ 20,534.69	
Amount available for fiscal year 1914-15	36,000.00	$ 56,534.69
Derived from special appropriation:		
Amount available for fiscal year 1915-16		52,500.00
Total		$109,034.69

EXPENDITURES.

From tax fund:		
Chemistry Building equipment:		
Wiring for power	$ 2,013.50	
Basement fan	5,748.26	
Desks and tables	9,672.23	
Distilled water	482.01	
Small fans	2,595.23	
Sheet metal work	9,151.21	
Laboratory hoods	54.03	
Auditorium tables	487.90	
Plumbing to tables	13.25	
Architect's fee	97.56	
Chemical section fixtures	2,217.96	
Engineering Experiment Station fixtures	632.69	
Chemical Engineering fixtures	421.03	
Photo laboratory	826.48	
Physiology laboratory tables	402.23	34,815.57
Steam and Gas Engine laboratory equipment		9,563.89
Transportation building equipment		6,768.04
Plant Industry building equipment		3,975.73
Agricultural Engineering department	175.00	
Electrical Engineering department	478.00	
Home Economics division	38.30	
Junior Dean's office	225.00	916.30
Total from tax fund		$ 56,039.53
From special appropriation of Thirty-sixth General Assembly:		
Building Equipment:		
Chemistry Building:		
Laboratory desks and tables		$ 21,022.97
Ducts		1,282.77
Fans		220.07
Elevator		503.10
Switchboard		78.20
Chemical Section		121.45
		$ 23,228.56
Plant Industry Building:		
Refrigeration Machine		2,857.76
Post Office Building		1,869.67
Transportation Building:		
Air brake equipment		457.06
Total Building Equipment		$ 28,413.05

Department Equipment:		
Agricultural Education	$ 74.21	
Agricultural Journalism	99.77	
Agricutural Engineering	250.27	
Animal Husbandry	2,637.80	
Anatomy	207.11	
Bacteriology	208.00	
Botany	333.47	
Ceramics	115.36	
Chemical Engineering	658.92	
Chemistry	456.45	
Civil Engineering	324.87	
Dairy	516.64	
Dairy Farm	25.13	
Economics	16.27	
Electrical Engineering	978.53	
Engineering Dean's office	1.66	
English	33.46	
Farm	46.00	
Farm Crops	182.52	
Farm Management	232.91	
Forestry	221.72	
Geology	250.62	
Gymnasium Chairs	595.00	
Home Economics	1,644.72	
History	90.95	
Horticulture	985.52	
Inventory Clerk	80.85	
Library	3,234.13	
Manual Training	465.57	
Mechanical Engineering	285.92	
Military	175.22	
Moving Picture Outfit	317.66	
Music	32.87	
Pathology	105.99	
Photography	62.70	
Physics	827.49	
Physical Culture	168.38	
Physical Training	108.02	
Physiology	139.67	
President's Office	40.50	
Printing	160.00	
Public Grounds	120.29	
Soils	459.09	
Structure Design	117.41	
Surgery	3.12	
Treasurer's Office	244.00	
Veterinary Dean's office	79.82	
Zoology	269.59	18,686.17
Total from special appropriation		$ 47,099.22
Total expended during biennial period		$103,138.75
Balance on hand belonging to tax fund (in hands of college treasurer)		495.16
Balance of special appropriation:		
In hands of college treasurer	$ 1,900.78	
In hands of state treasurer	3,500.00	5,400.78
Total available during biennium		$109,034.69

The following shows the amount of equipment fund available for 1915-16 and the purposes for which it is proposed to use it:

Equipment Fund Available for 1916-17.

Balance from last year:		
Tax fund in hands of college treasurer	$ 495.16	
Balance of special appropriation as shown above	5,400.78	5,895.94
Share of special appropriation becoming available in 1916-17		52,500.00
Total available for the year		$ 58,395.94

PROPOSED EXPENDITURES.

	From 1915-16 Balances		From 1916-17 Allotments	
	Building	Department	Building	Department
Chemistry building	$ 3,741.56		$ 20,150.00	$ 5,000.00
East dormitory	550.00		150.00	
Science building			3,860.00	2,300.00
Transportation building	142.94			
Animal husbandry section			535.00	
Pomology section		$ 385.00		
Agricultural engineering			400.00	
Engineering library stacks		141.00		
Mechanical engineering		95.97		
Mining engineering			250.00	
Soils			573.00	
Surgery			10.00	
Totals	$ 4,434.50	$ 621.97	$ 25,928.00	$ 7,300.00

SUMMARY.

Amount appropriated	$ 38,284.47
Amount unappropriated	20,111.47
Total	$ 58,395.94

ENLARGEMENT OF BUILDINGS AND SMALL ADDITIONAL BUILDINGS.

This fund, which represents the amount set aside from the two year millage tax during the year and a half in which it was in operation, amounted to $15,000. The expenditures are shown below. A small balance remains to its credit.

EXPENDITURES.

Addition to Engineering Annex (to be used as electrical substation)		$ 2,056.75
Freight on building blocks donated to Agronomy Experiment farm for corn crib		32.73
Plans for residence to be occupied by Superintendent of Agronomy Experiment farm		27.53
Part payment on house on campus purchased of Mrs. Beardshear		7,994.86
Total paid for house	$8,000.00	
Amount charged to room rent account	5.14	
Balance	$7,994.86	
Paid for house on campus purchased of Dr. Cessna		4,750.00
Total expended		$ 14,861.87
Balance on hand		138.13
		$ 15,000.00

APPROPRIATION FOR CERTAIN SPECIAL REPAIRS AND IMPROVEMENTS.

The Thirty-sixth General Assembly made an appropriation of $26,500 for repairs and improvements on dairy building, old agricultural hall, and barns, for temporary provisions for fruit storage and for small buildings and additions to buildings. Of this amount, $13,250 was available in the last fiscal year. The Board of Education set aside, during the year, the following sums for the purposes specified:

Horse barn at the Dairy Farm	$ 4,000.00
Completing Dairy building attic	1,225.00
Fruit storage shed	600.00

The following shows the receipts and expenditures during the biennium:

RECEIPTS.

One-half of biennial appropriation (of which the College Treasurer has drawn from the State Treasury $6,000)	$ 13,250.00

EXPENDITURES.

Horse barn at Dairy Farm, complete		$ 4,313.77
Dairy building attic, complete		1,088.46
Fruit storage shed, partially completed		155.55
Total expenditures		$ 5,557.78
Cash in hands of College Treasurer	$ 442.22	
Cash in hands of State Treasurer	7,250.00	7,692.22
		$ 13,250.00

The amount available for the fiscal year 1916-17 and the purposes to which it is assigned are shown below:

SPECIAL REPAIRS AND IMPROVEMENTS.

Amount available 1916-17.

Balance from last year	$ 7,692.22	
One-half of biennial appropriation	13,250.00	
Total available for the year		$ 20,942.22

PROPOSED EXPENDITURES.

Completion of fruit storage shed	$ 593.98	
Residence of Superindendent of Agronomy Experiment Farm	3,500.00	
Feeding sheds	1,400.00	
Corn crib and granary, including farm elevator	1,500.00	
Laying house for poultry farm	776.87	
Horticultural department foreman's house	2,100.00	
Two shelter sheds on dairy farm	400.00	
Cheese curing rooms in dairy building	1,800.00	
Remodeling old dairy barn for judging pavilion	700.00	
Small animal building	2,000.00	
Additional veterinary buildings	2,000.00	
Locomotive shed	1,500.00	
Temporay rifle storage room and range	1,536.06	
Bee and honey house for Entomology Section	250.00	
Available balance	885.31	
Total		$ 20,942.22

TEMPORARY PROVISIONS FOR HOME ECONOMICS LABORATORY.

The special appropriation of the Thirty-sixth General Assembly for this purpose was $1,500, of which one-half, or $750, was available during the last biennial period. The amount drawn by the College Treasurer from the State Treasury was, however, only $700. The following shows receipts and expenditures:

RECEIPTS.

One-half of special appropriation	$ 750.00

EXPENDITURES.

For partitions in new Chemistry building		$ 313.52
For partitions in Margaret Hall		251.71
Total expended		$ 565.23
Cash balance in hands of College Treasurer	$134.77	
Balance in hands of State Treasurer	50.00	184.77
		$ 750.00

The amount available for the fiscal year 1916-17, and the purposes to which it is to be applied, are shown in the following exhibit:

HOME ECONOMICS LABORATORIES.

Available for 1916-17.

Cash balance as shown above	$ 184.77	
Remaining half of special appropriation	750.00	
Total		$ 934.77

PROPOSED EXPENDITURES.

Fitting up Emergency building	$ 590.00	
Amount unappropriated	344.77	
Total		$ 934.77

SETTLING AND STORAGE WATER TANK.

The legislative appropriation for this purpose was made available July 1, 1915. Dean Marston and Professor Evinger prepared plans for the building and necessary equipment. The bids received exceeding the appropriation, Superintendent Sloss was directed to go ahead with the construction work, while an agreement was entered into with the Pittsburgh Filter Manufacturing Company to furnish and install the equipment. The fund was divided as follows:

For construction work with Superintendent Sloss in charge	$ 8,400.00
To meet contract with Pittsburgh Filter Manufacturing Co.	6,600.00
	$ 15,000.00

The following were the expenditures during the period covered by this report:

EXPENDITURES.

Preliminary and general expense	$ 97.39
Construction work under Superintendent Sloss' direction	6,546.08
Total	$ 6,643.47

This leaves an unexpended balance in the College Treasurer's hands of $8,356.53 which is to be used as follows:

To complete construction work	$ 1,756.53
Pittsburgh Filter Manufacturing Company's contract	6,600.00
	$ 8,356.53

MAINTENANCE AND IMPROVEMENT OF PUBLIC GROUNDS.

The funds available for the biennial period and the purposes for which they were expended are shown in the following exhibit:

RECEIPTS.

Unexpended balance July 1, 1914, in hands of College Treasurer	$ 698.29
Amount available in last biennial period but not drawn from State Treasury	5,000.00
Amount tax fund for 1914-15	10,000.00
Annual appropriation for 1915-16	10,000.00
Total available for the biennial period	$ 25,698.29

EXPENDITURES.

East road and bridge	$ 4,179.04	
Storm sewer outlet	2,360.06	
West road	2,709.57	
Cinder path to Stanton avenue	12.50	
Grading around Chemistry building	408.06	
Grading around West Hall	92.40	
Central avenue sidewalks	854.99	
Driveway near Agricultural Engineering building	155.17	
Grading foot of Ash avenue	20.25	
Grading along Lincoln Way	188.77	
Grading banks of college creek near Dairy bridge	149.75	
Grading and draining road to Dairy bridge	215.88	
Driveway at Cottage row	493.08	
Removing cinder path near Stanton residence	18.00	
Repairing sidewalks	86.52	
Cinder walks near greenhouses	47.25	
Grading around greenhouses	300.00	
Oiling campus roads	235.91	
Alumni Hall driveway	216.68	
Horticultural fence	79.41	
Storm sewers for East Hall and Science building	748.73	
Grading walks and drives at Knoll	217.52	
Cement walks at Gymnasium	304.72	
Grading around new Dairy bridge	225.04	
Miscellaneous improvements, including grading at Professor Beach's residence, at Dairy building hill, road west of Chemistry building, covers for sewer manholes, repairing cinder paths and walks	283.19	$ 14,602.52
Maintenance for 1914-15:		
Supplies	$ 932.05	
Labor	3,386.48	$ 4,318.53
Maintenance for 1915-16:		
Supplies	$ 804.68	
Labor	5,945.07	$ 6,749.75
Total expenditures for the biennal period		$ 25,670.80
Balance in hands of College Treasurer		27.49
Total		$ 25,698.29

The following exhibit shows the amount available for the coming year and the proposed expenditures:

AMOUNT AVAILABLE FOR PUBLIC GROUNDS.

1916-17.

Balance from last year	$ 27.49	
Annual appropriation	10,000.00	
		$ 10,027.49

PROPOSED EXPENDITURES.

Phil Herr, foreman at $90	$ 1,080.00	
A. Jones, teamster at $50 (and use of house)	600.00	
J. Hyler, laborer at $55	660.00	
K. M. Hove, laborer at $60	720.00	
Miscellaneous expenses for maintenance and improvements	5,540.00	
Overhead expense of feed, repairs, etc.	1,200.00	
Purchase of horse	200.00	
Amount unassigned	27.49	
		$ 10,027.49

REPAIR AND CONTINGENT FUND.

During the first year of the biennial period, this fund consisted of an annual appropriation of $36,000 and an annual allotment from the Two Year millage tax, which the Thirty-fifth General Assembly had fixed at $10,000. This allotment was reduced by the Thirty-sixth General Assembly to $8,000 for the fiscal year 1914-15. Under the new law, passed by this General Assembly, the annual appropriation for 1915-16 was $46,000. Summarizing these amounts and taking into account the balance on hand at the beginning of the biennial period in order to determine the full amount available, and classifying the expenditures under the different buildings and the general expense account, we have the exhibit which follows, showing the receipts and expenditures for the biennium. Attached thereto is an exhibit showing the available funds and the proposed expenditures for the fiscal year 1916-17 as far as the same have been determined:

RECEIPTS.

Cash balance on hand July 1, 1914		$ 10,333.89
Annual appropriation for 1914-15	$ 36,000.00	
Additional from two-year millage tax	9,000.00	45,000.00
Annual appropriation for 1915-16		46,000.00
Total available for the biennial period		$101,333.89

EXPENDITURES.

Agricultural Engineering Hall	$ 3,085.04
Campus and Grounds	4,114.99
Central Building	1,111.07
Chemistry Building	4,874.72
Dairy Building	1,635.01
Dormitories	7,563.08
Engineering Hall	4,975.89
Engineering Hall Annex	1,628.68
Farm Department	4,484.05
Heating, Lighting and Water Plants	16,467.56
Gymnasium	161.85
General Repairs on Buildings	4,390.74
Hall of Agriculture	1,148.53
Home Economics Building	1,127.45
Horticultural Department	1,770.33
Morrill Hall	813.16
Secretary's office	166.87
Salaries for the Biennium	11,693.85
Residences on Campus	7,858.29
Veterinary Division	1,875.88
Accident Fund	572.50
Total expended	$ 81,519.54
Balance on hand	19,814.35
	$101,333.89

REPAIR AND CONTINGENT FUND BUDGET.

1916-1917.

AVAILABLE FUNDS.

Cash balance on hand July 1, 1916	$ 19,814.35
Annual appropriation, permanent, for 1916-1917	46,000.00
Total	$ 65,814.35

PROPOSED EXPENDITURES.

Fixed Charges:		
Thomas Sloss, superintendent, part salary	$ 1,350.00	
Herman Knapp, treasurer, part salary	100.00	
Fred Stocker, head carpenter, part salary	1,136.00	
B. F. Seymour, second carpenter, part salary	624.00	
F. A. Fox, third carpenter, part salary	600.00	
Tom Fultz, teamster	600.00	
J. P. Reiff, painter	1,020.00	
Harriette Carmichael, clerk	840.00	
Sewer maintenance	150.00	
Sewage disposal	500.00	
Superintendent's Emergency Fund	1,500.00	
Fires, lights and incidentals (repairs)	5,500.00	13,920.00
General items		8,687.00
Reappropriated to complete repairs and improvements under way		13,552.65
New appropriations:		
Division of Agriculture		3,540.00
Agricultural Engineering		600.00
Engineering Division		1,500.00
Industrial Science Division		2,500.00
Home Economics Division		300.00
Veterinary Division		1,500.00
Sub-collegiate Departments		600.00
Total appropriations		$ 46,699.65
Amount unappropriated		19,114.70
Total		$ 65,814.35

This fund takes care of the repairs and minor improvements on buildings and grounds valued in the inventory at more than $3,000,000.00.

ROOM RENT.

Rental is charged students rooming in college dormitories; a few rooms are rented for other purposes; here and there a bit of wreckage is sold; and there are other small items of revenue from college buildings. These are credited to Room Rent Account, and the money used in connection with buildings furnishing such revenue. The following shows the receipts and expenditures during the biennium:

RECEIPTS.

Balance on hand July 1, 1914		$ 1,055.56
For 1914-15:		
From rental of rooms:		
Margaret Hall	$ 3,950.68	
Margaret Hall Annex	832.45	
West Hall	1,947.00	
West Hall Annex	844.25	
Office building	274.25	
Donation (room rent at Knoll)	33.00	$ 7,881.63

For 1915-16:

From rental of rooms:

Margaret Hall	$ 3,832.89	
Margaret Hall Annex	552.62	
West Hall	4,681.65	
West Hall Annex	505.50	
Office building	306.85	
Chief engineer's residence	225.00	
Residence occupied by President's assistant	205.00	
Postoffice	395.00	
Winter Short Course	303.75	$ 11,009.26
Total receipts		$ 19,946.45

EXPENDITURES.

For 1914-15:

For Margaret Hall:

Ordinary repairs	$ 201.42	
Furnishing additional rooms	351.56	
Telephone rental and laundry	21.06	$ 574.04

For Margaret Hall Annex:

Matron's salary	135.50	
Miscellaneous repairs	150.35	
Telephone rental	18.00	303.85

West Hall:

Matron's salary	300.00	
Ordinary repairs	44.64	
Telephone rental	8.75	353.39

West Hall Annex:

Rental for eight months	320.00	
Fire insurance	62.50	
Balance of purchase price	5.14	
Additions and alterations	1,002.46	
Furnishings	1,077.53	
Matron's salary	126.00	
Miscellaneous expenses	27.53	2,621.16
Office building repairs		27.62

Salaries:

Carpenters	1,105.00	
Clerk	300.00	1,405.00
Total		5,285.06
Less sale of wreckage		21.80
Net expenditures for the year		$ 5,263.26

For 1915-16:

For Margaret Hall:

Matron's salary	629.42	
Miscellaneous expenses	39.05	
Furnishings	340.21	
Ordinary repairs	332.75	1,341.43

Margaret Hall Annex:

Matron's salary	151.50	
Telephone rental	18.00	
Ordinary repairs	11.70	181.20

West Hall:

Matron's salary	550.00	
Telephone rental	18.00	
Rental of cots and bedding	57.17	

Furnishing for third floor	1,123.27		
Miscellaneous repairs and expenses	53.94	1,801.43	
West Hall Annex:			
Matron's salary	130.85		
Telephone rental	15.00		
Ordinary repairs	180.16	326.01	
Office building repairs		10.72	
Repairs on President's residence		28.21	
Repairs on residence occupied by President's Assistant		119.79	
Repairs on residence occupied by Chief Engineer		31.53	
Additions and repairs to postoffice		139.21	
Rental of cots, bedding, etc., for use of winter short course students rooming in dormitories	221.20		
Purchase of cots, bedding, etc., for dormitories	766.99	988.19	
Salaries:			
Carpenters	1,140.00		
Clerk	50.00	1,190.00	
Total		$6,157.77	
Less sale of wreckage and furniture, etc.		35.85	
Net expenditures for the year			6,121.92
Net expenditures for the biennium			$ 11,385.18
Balance cash on hand			8,561.27
			$ 19,946.45

It is the aim of the College authorities to make the student dormitories pay, in addition to their up-keep, a small interest on their cost. The expenditures have not in every case been charged to the Room Rent Account. When we take note of all expenses wherever charged, and of the entire income, the accounts for the biennium show the following net revenue from these dormitories:

	Value of bldg. and furniture	Net revenue 1914-15	Net revenue 1915-16
Margaret Hall	$45,000	$1,372.04	$1,092.09
Margaret Hall Annex	6,600	237.32	67.42
West Hall	70,500	769.96 (half year)	2,586.18
West Hall Annex	10,000	-63.75	-112.56

CAMPUS LAKE.

The funds for the construction of this lake were given the College by LaVerne W. Noyes, a graduate of the College in the class of 1872. Mr. Noyes also donated the services of O. C. Simonds, landscape gardener, of Chicago, to have general charge of the construction of the lake and the planning of other campus improvements. The amount remitted the college treasurer prior to the close of the biennial period was $6,000 of which there was expended $5,710.90. There is considerable work yet to be done to complete the lake. Its total cost is estimated at $10,000.

STORE ROOM.

In the conduct of the building operations of the College, it has been found necessary, as a measure of economy, to make purchases of material in considerable quantities, charging them against a general store room account and afterwards billing them out from this account against the particular improvement where they are used. The store room is allowed to charge, for material thus distributed, about 10% more than the original cost, to cover the expense of purchase, storage and distribution. It is expected that, in the long run, the two sides of the account will balance. In any particular year, the receipts may be greater or less than expenditures, according as the amount of material on hand is smaller or greater at the end of the year than at the beginning.

The following shows the receipts and expenditures on account of the store room during the biennium:

RECEIPTS.

Balance on hand July 1, 1914		$ 705.32
Receipts on account of material charged out against various improvements:		
For 1914-15	$ 12,551.07	
For 1915-16	11,057.85	23,608.92
Total receipts		$ 24,314.24

EXPENDITURES.

For 1914-15, material purchased	$ 10,383.88	
For 1915-16, material purchased	11,294.29	21,678.17
Balance June 30, 1916		$ 2,636.07

The following summary shows the entire expenditures on account of buildings, improvements and equipment:

SUMMARY.

BUILDING, IMPROVEMENT AND EQUIPMENT EXPENDITURES.

	1914-15	1915-16
Special Building Fund:		
Dairy building	$ 217.95	
Agricultural hall		$ 4.70
Domestic Technology building	249.30	
Veterinary building		.98
Mechanical engineering laboratory	1,925.95	105.60
Transportation building	15,183.45	
Chemistry building	23,926.62	
West hall	51,659.72	7,222.16
Horticultural laboratory	55,546.17	2,773.51
East hall		38,581.89
Science building	72.00	41,036.61
Hospital	32.84	68.97
Totals for special building fund	**$158,814.00**	**$ 89,894.42**
Chemistry building	$ 58,338.78	$ 80.08
Heating plant	12,996.41	24,617.00
Equipment of buildings and departments	53,119.35	50,019.40
Small buildings	12,611.87	2,250.00
Special Repairs and Improvements		5,557.78
Temporary Home Economics Laboratories		566.23
Settling Storage Water Tank		6,643.47
Public Grounds Maintenance and Improvements	15,698.29	9,972.51

Repairs and Contingencies	51,698.79	29,820.75
Room Rent	5,263.26	6,121.92
Campus Lake		3,710.90
	$368,340.75	$231,253.46
Net expenditures of Storeroom	−2,167.19	226.44
Totals	$366,373.56	$231,489.90

III. INDUSTRIAL SERVICE WORK.

This includes:

Extension Work.
Experimentation.
Hog Cholera Serum.

This work is valuable; it costs considerable, but pays large dividends. It is, however, quite distinct from the regular educational work at the College. The law so views it and prohibits the use of any portion of its funds for the support of its collegiate departments. Its work is distinct; its funds distinct; it would be misleading and unjust to charge its necessarily large expenditures against the cost of educating the young men and women who attend the college at Ames. It is, therefore, in the interest of clear thinking and a correct perspective of the varied work of the College and its cost that these Industrial Service activities are given separate place in the college accounting system. This plan is certainly fair all around. It makes each line of work stand on its own merits. It permits comparison of the cost of college educational work with that in other similar institutions, and at the same time allows the people of the state who recognize the benefits resulting from the Industrial Service work to know just what it cost and thus be in a position to decide wisely as to its cost.

1. EXTENSION WORK.

This work includes:

Agriculture and Home Economics Extension.
Engineering Extension.

Taking these up in their order, we have:

(a) Agricultural and Home Economics Extension.

This work has developed rapidly since its establishment in 1906. The annual appropriation from the state for its support has increased from $15,000 to $90,000. The contribution from the national government which began in 1914-15 with $10,000 was increased in 1915-16 to $28,781.18. The total available from both sources, during the biennium, together with the expenditures on account of the fund, are given in the exhibit which follows:

RECEIPTS.

Cash balance, July 1, 1914	$ 14,944.02

Income for 1914-15:		
From State—		
Annual appropriation	$ 42,000.00	
From two year millage tax	43,200.00	
	$ 85,200.00	
From National Government—		
Smith-Lever fund	10,000.00	95,200.00
Income for 1915-16:		
From State—		
Annual appropriation	$ 90,000.00	
From National Government—		
Smith-Lever fund	28,781.18	118,781.18
Total		$228,925.20

EXPENDITURES.

	1914-15		1915-16	
	Smith-Lever	State	Smith-Lever	State
Salaries	$ 8,537.13	$ 52,651.45	$ 25,841.56	$ 46,249.79
Labor		9,743.77	1,416.88	11,733.28
Printing and distribution of publications		6,385.01	1,338.18	7,304.64
Stationery and small printing		3,714.97	49.00	4,676.53
Postage, telegraph and telephone		2,270.14		2,276.95
Freight and express		659.39		1,042.10
Heat, light, water and power		702.00		729.14
Sundry supplies		2,562.52		1,765.87
Tools, machinery and appliances		67.78		220.37
Furniture and fixtures	188.11	1,855.91	135.56	1,178.97
Scientific apparatus and specimens		313.15		916.13
Live stock				393.44
Traveling expenses	1,274.76	7,690.00		8,685.40
Contingent expenses		88.90		36.50
Totals	$ 10,000.00	$ 88,704.99	$ 28,781.18	$ 87,209.61
Less receipts for testing, fees, etc.		1,038.48		1,906.44
Not expended	$ 10,000.00	$ 87,666.51	$ 28,781.18	$ 85,302.17

RECEIPTS.

Balance on hand, July 1, 1914	$ 14,944.02
For 1914-15	95,200.00
For 1915-16	118,781.18
Total for biennium	$228,925.20

EXPENDITURES.

For 1914-15:		
From National fund	$ 10,000.00	
From State fund	87,666.51	$ 97,666.51
For 1915-16:		
From National fund	$ 28,781.18	
From State fund	85,303.17	114,084.35
Total for biennium		$211,750.86
Cash balance on hand		17,174.34
Total		$228,925.20

A statement of available funds, together with the budget for the fiscal year 1916-17 as approved by the Board of Education, follows:

Agricultural and Home Economics Extension.

Available Funds 1916-17.

Balance on hand, July 1, 1916	$ 17,174.34
Annual state appropriation	90,000.00
Smith-Lever fund	44,432.16
Total available	$151,606.50

BUDGET.

Salaries:

R. K. Bliss, Director	$ 3,300.00
*E. C. Bishop, State Leader of Junior Work	1,050.00
R. K. Farrar, Extension Professor of Agricultural Education	2,400.00
†Kate R. Logan, Assistant State Leader of Junior Work	800.00
Mary E. Richardson, Extension Assistant Home Economics Junior Work	1,400.00
P. C. Taff, Supervisor of Correspondence and Extension Professor of Farm Crops and Soils	2,500.00
T. R. Douglass, Extension Associate Professor of Farm Crops and Soils	2,400.00
J. E. Wooters, Extension Associate Professor of Farm Crops and Soils	1,900.00
Charles Dorchester, Extension Assistant Professor of Farm Crops and Soils	1,500.00
M. A. Hauser, Extension Professor of Farm Crops and Soils	1,400.00
F. C. Churchill, Extension Assistant Professor of Farm Crops and Soils	2,000.00
Rex Beresford, Extension Associate Professor of Animal Husbandry	2,100.00
W. A. Buchanan, Extension Assistant Professor of Animal Husbandry	1,800.00
Extension Associate Professor of Animal Husbandry	1,800.00
E. S. Girton, Extension Associate Professor of Animal Husbandry	1,800.00
J. C. Cort, Extension Assistant Professor of Dairy Products	1,500.00
H. A. Bittenbender, Extension Professor of Poultry Husbandry	2,400.00
‡H. C. Barker, Extension Assistant Professor of dairy Production	500.00
P. W. Crowley, Extension Assistant Professor of Dairy Mfgs.	1,600.00
§F. L. Odell, Extension Assistant Professor of Dairy Mfgs.	480.00
R. S. Herrick, Extension Professor of Pomology	2,400.00
C. L. Fitch, Extension Associate Professor of Truck Gardening	2,200.00
R. J. Pierce, Extension Assistant in Landscape Gardening	1,400.00
M. H. Hoffman, Extension Professor of Agricultural Engineering	2,400.00
F. C. Fenton, Extension Assistant Professor in Agricultural Engineering	1,400.00
K. W. Stouder, Extension Professor of Veterinary Medicine	2,800.00
Extension Assistant Professor of Veterinary Med.	2,100.00
Neale S. Knowles, Extension Professor of Home Economics	2,300.00

*Receives $1,750 additional salary paid by U. S. Department of Agriculture.

†Receives $1,000 additional salary paid by U. S. Department of Agriculture.

‡Receives $1,400 additional salary paid by U. S. Dept. of Agriculture.

§Salary of $1,980 paid by U. S. Dept. of Agriculture in 1915-16; same salary in 1916-17, with $1,500 paid by U. S. Dept. of Agriculture.

Louise H. Campbell, Extension Professor of Home Economics	2,000.00	
Mabel C. Bentley, Extension Associate Professor Home Economics	1,800.00	
Jessie Campbell, Extension Assistant Professor Home Economics	1,400.00	
Mrs. K. S. Miller, Extension Assistant in Home Economics	1,200.00	
Clara Sutter, Extension Instructor in Home Economics	1,200.00	
Nell R. Burnett, Extension Assistant Professor Home Economics	1,500.00	
*J. W. Coverdale, State Leader of County Work	1,250.00	
**Murl McDonald, Extension Assistant State Leader of County Work	1,700.00	
††S. H. Thompson, Extension Assistant Professor of Farm Management	600.00	
J. H. Allison, Extension Assistant Professor of Pomology	1,500.00	
A. A. Smith, Secretary	1,600.00	
Herman Knapp, Treasurer (part salary)	200.00	
‡‡Edwin Shortess, Field Organizer	300.00	
County Agents	16,000.00	
R. W. Berry, Office Assistant in Club Work	1,080.00	84,960.00
Current Expenses:		
Stenographic and clerical services	$ 9,660.00	
Miscellaneous labor	2,680.00	
Outside Help	8,000.00	
Traveling Expenses	8,000.00	
Stationery and postage	2,300.00	
Printing	8,000.00	
General supplies	7,140.00	
Equipment and furniture	870.00	
Reserve fund for contingencies	122.16	46,772.16
Grand total		$131,732.16
Amount permanent working balance		14,500.00
Amount reserved for contingencies		5,374.34
		$151,606.50

(b) *Engineering Extension.*

The law provides an annual fund of $25,000 for Engineering Extension and Trade Schools. The legislature of 1915 reduced the amount for the fiscal year 1914-15 to $22,500. This was divided by the Board of Education between these two purposes as follows:

Engineering Extension	$ 16,609.50
Trade School at Ames	5,890.50
Total	$ 22,500.00

The fund for 1915-16, which was the full $25,000, was divided as follows:

Engineering Extension	$ 19,900.00
Trade School at Ames	5,100.00
Total	$ 25,000.00

The exhibit which follows shows the cash on hand at the beginning of the biennium, the receipts during that period and the amounts expended for different purposes:

¶Receives $1,650 additional salary paid by the U. S. Dept. of Agriculture.
**Receives $300 additional from the U. S. Dept. of Agriculture.
††Receives $1,200 additional salary paid by the U. S. Dept. of Agriculture.
‡‡Receives $1,800 from Engineering Extension

RECEIPTS.

Cash balance, July 1, 1914		$ 5,072.53
Share of appropriation, 1914-15	$ 16,609.50	
Share of appropriation, 1915-16	19,900.00	36,509.50
Total		$ 41,582.03

EXPENDITURES.

	1914-1915	1915-16
Salaries of staff	$ 10,558.50	$ 11,307.94
Office help	1,623.80	1,345.12
Outside help	1,013.80	1,384.94
Traveling expenses	2,043.46	1,887.64
Equipment, furniture and books	783.26	546.94
Printing and stationery	798.59	901.03
Postage	450.04	753.28
Supplies	976.08	864.53
Miscellaneous expenses	384.30	500.31
Totals	$ 18,631.83	$ 19,491.73
Less receipts for correspondence, fees, etc.	1,513.90	1,571.31
Net expenditures	$ 17,117.93	$ 17,920.42

SUMMARY.

Total available funds		$ 41,582.03
Expended in 1914-15	$ 17,117.93	
Expended in 1915-16	17,920.42	35,038.35
Balance on hand, July 1, 1916		$ 6,543.68

The following shows the funds available for 1916-17, and the budget for the year:

ENGINEERING EXTENSION—INCOME AND BUDGET, 1916-17.

FUNDS AVAILABLE.

Balance from last year	$ 6,543.68
Amount set aside for extension work from the annual appropriation of $25,000 for extension and Trade School work	21,000.00
Total	$ 27,543.68

BUDGET.

Salaries:		
*K. G. Smith, Professor and Director	$ 2,400.00	
J. Will Parry, Secretary	2,200.00	
D. C. Faber, Industrial Engineer	1,467.00	
O. H. Johnson, Field Instructor	1,600.00	
Edwin S. Shortess, Field Organizer	1,800.00	
Allan B. Campbell, half-time instructor	550.00	
†R. A. Leavell, Associate Professor in Automobile Work	120.00	10,137.00
Department Expenses:		
Stenographic and clerical service	$ 1,140.00	
Miscellaneous labor	1,800.00	
Current expenses	3,675.00	
Equipment and furniture	105.00	
Fires, lights and janitor service	150.00	
Traveling expenses	2,400.00	
Contingencies	643.00	9,913.00
Total appropriated		$ 20,050.00
Unappropriated		993.68
Reserve fund		6,500.00
Total		$ 27,543.68

*Also receives $900 from Trade School.
†Also receives $1,980 from Support Fund.

The appropriation can be drawn from the State Treasury only in monthly installments; the expenditures cannot be thus equally distributed through the year; it is therefore necessary to carry a working balance. The amount thus reserved for the coming year is $6,500, as stated above.

The following is a summary of Extension expenditures for the biennial period:

SUMMARY.

1914-16.

Agricultural and Home Economics	$228,925.20
Engineering Extension	35,038.35
Total	$263,963.55

II. EXPERIMENT FUNDS.

The Experiment work, which at first had to do with agriculture only, has gradually come to be an important part of the industrial service work of all divisions of the College. It now includes the following:

a. Agricultural Experiment Station.
b. Horse Breeding Experimentation.
c. Engineering Experiment Station.
d. Good Roads Experimentation.
e. Veterinary Investigations.

Considering the financial operations of each of these in order, we have:

(a) AGRICULTURAL EXPERIMENT STATION.

The National government established the Station in 1887, giving it an annual support fund of $15,000. In 1905, the Government gave it an additional $15,000. In 1902 the State came to its aid with an annual appropriation of $10,000. This was gradually increased until at the beginning of the last biennial period it had reached $112,000.00. This was reduced, however, for the first year of the biennium by the one-tenth reduction made by the Legislature in the millage tax coming to the College for that year, thus bringing the income from that source down from $57,000 to $51,300. The income from the state for 1915-16, under the new law, was $115,500.

The following exhibit shows the financial operations for the biennium:

RECEIPTS.

Cash balance on hand, July 1, 1914		$ 13,420.14
Receipts 1914-15:		
From National Government—Hatch Act	$ 15,000.00	
From National Government—Adams Act	15,000.00	
From State—Annual appropriation	55,000.00	
From State—Two year millage tax	51,300.00	136,300.00
Receipts 1915-16:		
From National Government—Hatch Act	$ 15,000.00	
From National Government—Adams Act	15,000.00	
From State—Annual appropriation	115,500.00	145,500.00
Total		$295,220.14

EXPENDITURES.

	1914-15	1915-16
Salaries of Station staff	$ 42,024.98	$ 46,914.48
Salaries of Station assistants	18,870.71	27,689.47
Agricultural Engineering	2,550.92	2,236.25
Animal Husbandry	17,623.69	19,865.97
Bacteriology	549.64	547.06
Botany	1,272.88	1,350.68
Bulletin	7,538.66	9,242.35
Chemistry	3,555.35	3,684.32
Dairy	2,543.24	1,988.45
Dairy Farm	3,872.03	2,934.43
Director	1,738.44	1,174.58
Entomology	1,299.83	1,215.52
Farm Crops	12,526.32	8,650.84
Farm Management	2,961.15	2,583.07
Forestry	1,382.56	1,256.30
General expenses	4,110.98	4,499.97
Photography	2,742.14	1,906.07
Pomology	8,562.55	10,264.59
Poultry	1,606.46	1,231.87
Rural Sociology		106.29
Soils	14,280.07	8,579.88
Truck Crops	1,729.99	2,066.57
Totals	$153,342.59	$159,989.01
Less sales, etc.	19,815.91	25,227.38
Net expenditures	$133,526.68	$134,761.63
Payment on purchase of additional farm	10,875.00	
Totals	$144,401.68	$134,761.63

SUMMARY.

Total receipts		$295,220.14
Expenditures—1914-15	$144,401.68	
Expenditures—1915-16	134,761.63	279,163.31
Balance on hand, July 1, 1916		$ 16,056.83

The following exhibit shows the funds available for 1916-17 and the purposes to which they are devoted in the budget:

AGRICULTURAL EXPERIMENT STATION INCOME AND BUDGET FOR 1916-17.

INCOME.

Cash on hand, July 1, 1916		$ 16,056.83
From National Government	$ 30,000.00	
From annual State appropriation	115,500.00	145,500.00
Total		$161,556.83

BUDGET.

Salaries of station staff as shown in general salary budget given later in this report		$ 80,155.00

Expenses of Sections:	Current Expenses	Stenographic & Clerical Help
Director's Office	$ 780.00	$ 780.00
Agronomy Section (Soils)	6,790.00	420.00
Agronomy Section (Farm Crops)	6,165.00	660.00
Animal Husbandry	2,900.00	1,680.00
Dairy Husbandry	4,530.00	
Poultry Husbandry	1,250.00	
Horticulture and Forestry		1,110.00
Pomology	4,080.00	
Truck Crops	1,200.00	

Forestry	520.00		
Chemistry	2,860.00	840.00	
Entomology	1,100.00	200.00	
Dairy	1,240.00	300.00	
Agricultural Engineering	2,120.00	780.00	
Botany	1,220.00	360.00	
Bacteriology	430.00		
Rural Sociology	400.00		
Farm Management	2,170.00	990.00	
Photography	800.00		
Bulletin	10,200.00	360.00	
Totals	$ 50,755.00	$ 8,480.00	59,235.00
Special Items:			
State Fair	$ 333.00		
Fires, lights and janitor service	3,900.00		4,233.00
Reserve fund			8,000.00
Total			$151,623.00
Balance unappropriated			9,933.83
Total			$161,556.83

The reserve fund is a working balance needed to insure the prompt payment of bills at all times. The president of the College and the Finance Committee are authorized to use the unappropriated balance for the purchase of station equipment and furniture, provided it can, in their judgment, be safely spared for that purpose.

(b) HORSE BREEDING EXPERIMENTATION.

This work was conducted jointly by the College and the United States Department of Agriculture, each paying one-half of the expense. Since the Department of Agriculture has not, during the past two years, had funds with which to prosecute the work, the experiment has been discontinued. The unexpended balance of $6.69 on hand at the beginning of the biennium still remains to the credit of the account.

(c) ENGINEERING EXPERIMENT STATION.

The Thirty-fifth General Assembly added to the $10,000, annual appropriation for Engineering experimentation, an annual allotment from the millage tax of $5,000. This latter sum was reduced to $4,500 by the Thirty-sixth General Assembly. That assembly fixed the future appropriation at $15,000 annually.

The account for the biennium shows as follows:

RECEIPTS.

Cash on hand, July 1, 1914		$ 543.15
From State—1914-15:		
Annual appropriation, permanent	$ 10,000.00	
From two year millage tax	4,500.00	14,500.00
From State—1915-16:		
Annual appropriation, permanent		15,000.00
Total		$ 30,043.15

EXPENDITURES.

	1914-15	1915-16
Salaries of staff	$ 8,838.86	$ 8,098.52
Office help	800.10	665.87
Office expenses	582.02	267.51
Traveling expense	1,086.20	826.01
Labor	1,089.91	3,406.77
Equipment	284.25	497.16
Printing	1,844.34	435.82
Supplies	1,629.67	2,056.42
Totals	$ 16,155.35	$ 16,254.08
Less sales, etc.	1,270.22	1,152.46
Net expenditures	$ 14,885.13	$ 15,101.62

SUMMARY.

Total receipts		$ 30,043.15
Expenditures—1914-15	$ 14,885.13	
Expenditures—1915-16	15,101.62	29,986.75
Balance on hand, July 1, 1916		$ 56.40

The following shows the income for the fiscal year 1916-17 and the expenditures approved in the budget:

ENGINEERING EXPERIMENT STATION INCOME AND BUDGET, 1916-17.

INCOME.

Balance from last year		$ 56.40
Annual appropriation		15,000.00
Total		$ 15,056.40

BUDGET.

Salaries:		
A. Marston, Director	$ 300.00	
C. S. Nichols, Assistant to Director	600.00	
H. H. Howard, Mechanician	300.00	
Homer Staley, Ceramic Engineer	300.00	
R. W. Crum, Structural Engineer	200.00	
Max Levine, Bacteriologist	200.00	
D. C. Faber, Industrial Engineer	733.00	
H. W. Wagner, Electrical and Mechanical Engineer	1,900.00	
W. J. Schlick, Drainage Engineer	1,200.00	
J. S. Coye, Chemist	400.00	
H. F. Clemmer, Testing Engineer	800.00	
J. W. Bowen, Assistant Chemist	1,200.00	
Research Fellowship	500.00	$ 8,633.00
Current Expenses:		
Stenographic and clerical service		504.00
Fires, lights and janitor service		380.00
Investigational, traveling and printing		5,083.00
Office supplies		400.00
Total		$ 15,000.00
Balance unappropriated		56.40
Total		$ 15,056.40

It will be noticed that the unappropriated balance is small. The growing demands for experimental work in this line are largely in excess of the available means. The last legislature made no increase in the appropriation.

(d) GOOD ROADS EXPERIMENTATION.

This work is closely connected with that of the Engineering Experiment station, and the Highway Commission. It has been conducted in hearty coöperation with both. The demands in this line have greatly increased, but the appropriation for the work remains the same as five years ago.

The following shows the funds available during the biennial period and the expenditures during that time:

RECEIPTS.

Balance, July 1, 1914	$ 3,222.54
Annual appropriation for 1914-15	10,000.00
Annual appropriation for 1915-16	10,000.00
Total	$ 23,222.54

EXPENDITURES.

	1914-15	1915-16
Salaries	$ 5,670.25	$ 4,264.92
Office help	358.00	509.58
Office expense	234.42	210.67
Traveling expense	266.31	801.14
Labor	1,475.35	2,958.88
Equipment	2,899.54	515.67
Supplies	1,546.73	1,418.07
Totals	$ 12,450.60	$ 10,678.93
Less sales		21.61
Totals	$ 12,450.60	$ 10,657.32

SUMMARY.

Total receipts		$ 23,222.54
Expenditures 1914-15	$ 12,450.60	
Expenditures 1915-16	10,657.32	23,107.92
Balance on hand July 1, 1916		$ 114.62

The income and budget for 1916-17 are as follows:

GOOD ROADS EXPERIMENTATION INCOME AND BUDGET, 1916-17.

INCOME.

Balance July 1, 1916	$ 114.62
Annual appropriation, permanent	10,000.00
Total	$ 10,114.62

BUDGET.

Salaries:		
A. Marston, Director	$ 200.00	
W. J. Schlick, Drainage Engineer	600.00	
J. S. Coye, Chemist	1,500.00	
H. F. Clemmer, Testing Engineer	400.00	
C. S. Nichols, Assistant to Director	500.00	
T. R. Agg, Highway Engineer	1,000.00	
R. W. Crum, Structural Engineer	100.00	
H. H. Howard, Mechanician	200.00	4,500.00
Current Expenses:		
Stenographic and clerical services		336.00
Heat, light and janitor service		270.00

Office supplies		200.00
Investigational, traveling and printing		4,694.00
Total		$ 10,000.00
Safety margin		114.62
Total		$ 10,114.62

(e) VETERINARY INVESTIGATIONS.

This work received an allotment of $9,000 from the millage tax for 1914-15. The last legislature abolished the tax and gave it a direct annual appropriation of $12,500.00.

The receipts and expenditures for the biennium were as follows:

RECEIPTS.

Cash on hand July 1, 1914		$ 11.31
From state:		
1914-15 millage tax	$ 9,000.00	
1915-16 annual appropriation, permanent	12,500.00	21,500.00
		$ 21,511.31

EXPENDITURES.

	1914-15	1915-16
Salaries of staff	$ 2,831.61	$ 5,393.28
Labor	248.50	89.75
Equipment	860.05	409.80
Traveling expense	123.36	56.25
Office expense	34.98	98.34
Dissectors and specimens	824.78	40.30
Supplies and miscellaneous expenses	2,226.51	1,832.53
Total	$ 7,149.79	$ 7,920.25
Less sales, etc.	225.67	64.50
Net expenditures	$ 6,924.12	$ 7,855.75

SUMMARY.

Total receipts		$ 21,511.31
Expenditures 1914-15	$ 6,924.12	
Expenditures 1915-16	7,855.75	14,779.87
Balance on hand July 1, 1916		$ 6,731.44

The income and budget for 1916-17 are as follows:

VETERINARY INVESTIGATIONS—INCOME AND BUDGET.

1916-17.

INCOME.

Balance July 1, 1916	$ 6,731.44
Annual appropriation	12,500.00
Total	$ 19,231.44

BUDGET.

Salaries:		
C. H. Stange, Dean, part salary	$ 300.00	
C. W. Murray, Bacteriologist, part salary	500.00	
L. E. Willey, Investigator	2,200.00	
Henry Wehrbein, Assistant	1,400.00	$ 4,400.00
Current expenses		6,190.00
Laborers		1,560.00

Fires, lights and janitor service		350.00
Amount set aside as a working balance and emergency fund, such portion as can be spared, in the judgment of the president of the College and Finance Committee, to be expended for much needed equipment and furniture		6,500.00
Unappropriated balance		231.44
Total		$ 19,231.44

The following is a summary of the expenditures for experiment work during the biennium:

	1914-15	1915-16
Agricultural Experiment Station	$153,342.59	$159,989.01
Engineering Experiment Station	14,885.13	15,101.62
Good Roads Experimentation	12,450.60	10,657.32
Veterinary Investigations	6,924.12	7,855.75
Totals	$187,602.44	$193,603.70

III. HOG CHOLERA SERUM FUND.

The act of the legislature establishing a hog cholera serum laboratory at the College provided a fund of $35,000 for erecting the necessary buildings and meeting the other expenses essential to carrying forward the work of producing and distributing serum. At the close of the biennial period, ending June 30, 1914, the net expenditures had trespassed upon the appropriation to the extent of $13,220.26, leaving a balance of $21,779.74 available.

The account for the last biennial period shows as follows:

RECEIPTS.

Balance on hand July 1, 1914		$ 21,779.74
Income from sales 1914-15	$114,985.21	
Income from sales 1915-16	57,366.10	172,351.31
Total receipts		$194,131.05

EXPENDITURES.

Salaries of staff	$ 14,171.62	
Clerical help	7,105.10	
General labor	12,592.72	
Traveling expenses of inspectors	1,425.13	
Miscellaneous supplies	3,973.55	
Equipment	2,158.07	
Repairs to plant	785.78	
Office supplies, postage, stationery, printing, telephone and telegrams	1,451.07	
Freight, express and drayage	232.90	
Laundry	651.08	
High pressure steam	1,200.00	
Coal	867.87	
Ice	155.85	
Team hire	600.00	
Board of horse	227.00	
Light, water and power	1,333.45	
Hogs	101,701.75	
Feeding stuffs	9,193.82	
Serum for testing	40.50	
Refunds for serum and virus returned	1,746.86	
License fees refunded	50.00	
Miscellaneous expense	84.00	161,748.12
Balance on hand June 30, 1916		32,382.93
		$194,131.05

The following summary shows the total net expenditures on account of industrial service work during the biennial period. It represents the cost of such service during that time:

SUMMARY OF INDUSTRIAL SERVICE EXPENDITURES.

1914-16.

	1914-15	1915-16
Extension work	$114,784.44	$132,004.77
Experiment work	178,661.53	168,376.32
Hog cholera serum	17,053.38	−27,656.57
Totals	$310,499.35	$272,724.52

A table showing the total expenditures for all purposes, during the biennium, is given on page 18 of this report.

FUNDS AVAILABLE FOR 1916-17.

In connection with the foregoing statements of receipts and expenditures of different funds for the biennium, the amounts available for the new fiscal year, 1916-17, have been considered, except in the case of the College Support fund. For convenience and to avoid confusion, this has been delayed until the other funds were disposed of. The Support Fund balance at the close of the biennium was, as it appears on the College Treasurer's books, $90,602.87. No portion of this balance, however, has been considered as available for the regular annual expense budget of the coming year. To begin with, it is subject to the following reductions:

Balance of student repair fund of last year included in balance but not subject to appropriation or use by the College	$ 2,029.12
Amount set aside for payment of last year's bills not audited in time to be included in last year's accounts	958.10
Total	$ 2,987.22

Deducting this from the book balance, we have as the true usable balance, $87,615.65. For reasons given, this has been devoted to the following purposes:

Working balance. In the conduct of a business amounting annually to more than $600,000, it is necessary to have a working capital; otherwise financial embarrassment is sure to result during those periods when payments are heavy. This is especially true where the distribution of expenditures during the year is influenced to a considerable extent by the seasons, as is the case in a college made up largely of industrial departments. The amount considered safe as a working balance for this fund is $20,000.

Unexpended appropriations. It often happens that amounts appropriated one fiscal year, for purposes outside of ordinary running expenses, are not expended during that year because of lateness of the appropriation, failure of supply firms to fill orders promptly, or existing industrial conditions which make an early purchase undesirable. This has been especially true during the past season. The appropriations thus held over amount, as shown hereafter, to $30,004.73, which is no inconsiderable portion of the entire balance brought forward from last year. This amount, of course, is not available for the new budget.

Additional amounts set aside for Furniture, Apparatus and Improvements. It has always been the custom of the College to keep its ordinary

current expenditures within its regular annual income. Good business sense and a reasonable view of administrative responsibility would seem to dictate such a policy. Whenever an addition has been made by the legislature to the college annual support fund, the current expenditures for the first year of the succeeding biennial period have never been increased to the amount of the addition to the support fund. The College has thus been enabled to increase its expense budget in the second year sufficient to meet the demands of institutional growth without exceeding its regular income. The unexpended balance at the end of the first year resulting from this policy has been used in the purchase of needed furniture and department apparatus, and in making improvements on the farm and the public grounds. The exhibit which follows shows the specific purposes to which the unused appropriations of last year and the new appropriations made at the close of the year have been devoted by the Board of Education and the Finance Committee.

Department	Old Appropriations		New Appropriations	
	Furniture	Apparatus	Furniture	Apparatus
General:				
Graduate division		$ 50.00	$ 139.00	
Public grounds				$ 3,600.00
President's office	$ 25.12			
President's residence	70.42			
Printing department		75.00		
Treasurer's office			237.00	
Agricultural Division:				
Agricultural engineering	65.00	313.55		
Agricultural education	15.00		45.00	
Agricultural journalism			54.00	25.00
Animal husbandry		1,014.65		1,569.00
Dairy		478.00	88.00	270.00
Dairy farm		962.00		130.00
Farm				715.00
Farm crops		135.70		47.50
Farm management			56.00	35.00
Forestry		140.00		85.00
Horticulture		39.94	302.00	207.50
Photography		21.91		165.00
Poultry		557.35		
Soils	68.00	1,104.68		287.00
Engineering Division:				
Dean's office				12.00
Chemical engineering		2,859.95	35.00	4,500.00
Civil engineering		599.85		669.00
Electrical engineering		940.00	49.00	1,066.00
Mechanical engineering		850.00	25.00	2,100.00
Mechanical engineering (old locomotive)				600.00
Mining engineering		508.93		290.00
Physics		748.00	94.50	800.00
Structure design		215.00		50.00
Transportation		215.00		65.00
Home Economics Division:				
Domestic science		150.00	25.00	425.00
Domestic art	190.00	158.50	196.00	606.00
Physical culture	82.55		36.00	150.00

Department	Old Appropriations		New Appropriations	
	Furniture	Apparatus	Furniture	Apparatus
Industrial Science Division:				
Dean's office	35.00			
Bacteriology		450.96		1,378.60
Botany	75.00	71.67	868.50	1,381.40
Chemistry		960.23		
Economics	34.25			
English				50.00
History and psychology			65.00	
Library			100.00	3,625.00
Mathematics	252.50		41.00	
Modern languages			120.00	
Military		100.00	30.00	165.00
Physical training		52.53		400.00
Zoology		224.41	231.00	230.65
Veterinary Division:				
Ambulatory clinic	27.00			
Anatomy		458.80		
Pathology		65.35		
Physiology		120.30	145.00	50.00
Practice and diagnosis		18.41		60.00
Surgery		226.75		40.00
Library		300.00		
Appropriations Reserved to be Assigned by President:				
Agricultural division				811.00
Agricultural engineering				400.00
Home economics				62.00
Industrial science				63.75
	$ 939.84	$ 15,187.41	$ 2,982.00	$ 27,186.40
Furnishings for Buildings:				
East Hall	5,008.53		470.00	
West Hall			325.00	
Practice cottage	1,500.00			
Gymnasium auditorium	545.47			
Totals	$ 7,993.84	$15,187.41	$ 3,777.00	$ 27,186.40

IMPROVEMENTS ON FARM AND PUBLIC GROUNDS.

(Old appropriations.)

Men's tennis courts	$ 1,489.98
Farm drainage	1,308.55
Campus planting	2,778.34
Oiling roads	700.00
Asphalt on pavements	614.18
Campus survey	396.10
Cinder path improvements	186.33
Chemistry building cement walks	350.00
	$ 6,823.48

It will be noticed that the old appropriations amount, as already stated, to $30,004.73, and the new appropriations to $30,963.40.

Emergency Fund. Despite great care in the preparation of the annual budget, unforeseen demands may come up during the year in the line of instruction, increased cost of laboratory material and general supplies, and various other unexpected yet urgent calls for money, which must be

met. Simple business prudence requires that a reasonable amount be reserved for such emergencies. If the sum thus set aside is not used during the year, it can, at its close, be devoted to the better equipment of the various departments. The remainder of the balance of last year's support fund not already definitely directed to the specific purposes already mentioned, can well be allowed to remain unassigned until the necessity for using it to meet emergencies is determined. Since it is not a continuing fund, it certainly would be unwise to take it into account in fixing the total of the annual expense budget which *is* continuous and which could not be reduced in the future without serious injury to the institution. Surely it is better for the college to live on what the state has granted it and ask the legislature for the additional means necessary for its development than to make its regular expense budget exceed its regular income and then demand that the General Assembly shall make good the deficit. It would seem as if such conservative policy would certainly commend itself to the legislature and the state in general. The amount of last year's balance unassigned is no more than a reasonable safeguard against emergencies. It is, therefore, not taken into account in making the new budget. It amounts to $6,647.52.

Summarizing the action taken regarding the support fund on hand at the close of the biennium, we have the following:

SUMMARY.

Amount reserved for working capital		$ 20,000.00
Old balances continued:		
Furniture	$ 7,993.84	
Apparatus	15,187.41	
Improvements	6,823.48	30,004.73
New appropriations:		
Furniture	3,777.00	
Apparatus	27,186.40	30,963.40
Emergency fund		6,647.52
Total		$ 87,615.65

COLLEGIATE SUPPORT FUND BUDGET.

1916-17.

The collegiate support fund budget for 1916-17 is clearly within the regular income of the year. It totals, as will be seen, $620,031.66 while the income with which to meet it is conservatively estimated at $622,000. The following shows the income and budget somewhat in detail:

COLLEGIATE SUPPORT FUND—INCOME AND BUDGET, 1916-17.

INCOME.

From national sources		$ 85,000.00
From state:		
Permanent annual appropriation	$505,000.00	
Special appropriation for collegiate home economics courses, being the part of the annual appropriation of $20,000 assigned to those courses	16,000.00	521,000.00

From miscellaneous sources:		
Tuition collected from students from outside the state	$ 13,000.00	
Interest on bank balances (estimated)	3,000.00	16,000.00
Total		$622,000.00

BUDGET.

I. Salaries:		
Professors, Assistant Professors and Administrative officers	$298,263.32	
Instructors and Assistants	150,513.34	$448,776.66

II. Department Expenses:

	Current Expenses	Stenographic & Clerical Help	
Agricultural Education	$ 490.00	$ 840.00	
Agricultural Engineering	1,547.50	572.50	
Agricultural Journalism	700.00	420.00	
Animal Husbandry	750.00	1,245.00	
Anatomy	500.00		
Bacteriology	1,395.00		
Botany	1,325.00	360.00	
Chemical Engineering	500.00		
Chemistry	960.00	1,000.00	
Civil Engineering	820.00	720.00	
Dairy	750.00	1,440.00	
Dairy Farm	1,840.00		
Economics	215.00	660.00	
Electrical Engineering	825.00	550.00	
English	150.00	720.00	
Farm	4,060.00		
Farm Crops	600.00	720.00	
Farm Management	300.00	330.00	
Forestry	1,500.00	390.00	
Graduate Division	900.00		
History and Psychology	125.00	350.00	
Home Economics	1,900.00	880.00	
Horticulture	3,140.00	870.00	
Library	1,900.00		
Mathematics	225.00		
Mechanical Engineering	1,260.00	720.00	
Military	800.00		
Mining Engineering	850.00	720.00	
Modern Languages	110.00		
Music	375.00		
Pathology	450.00		
Physics	1,400.00	600.00	
Physical Culture	50.00		
Physiology	250.00		
Photography	100.00		
Poultry	1,850.00		
Public Speaking	125.00		
Structure Design	465.00		
Soils	1,580.00	420.00	
Surgery	1,395.00		
Transportation	2,600.00		
Zoology	750.00	360.00	
	$ 41,827.50	$ 14,887.50	56,715.00
III. Maintenance of Buildings:			
Heating, lighting and incidentals	$ 33,780.00	$ 2,220.00	
Janitor service	24,485.00	300.00	
	$ 58,265.00	$ 2,520.00	60,785.00
IV. Administrative and General Expenses:			
Agricultural Dean's office	$ 540.00	$ 780.00	
Engineering Dean's office	660.00	840.00	
Science Dean's office	300.00	1,000.00	

Veterinary Dean's office	385.00	1,200.00	
Junior Dean's office	820.00	2,040.00	
President's office	1,800.00	1,800.00	
President's contingent fund	1,000.00		
President's emergency fund	1,000.00		
Registrar's office	205.00	3,300.00	
Secretary's office	220.00	3,120.00	
Treasurer's office	1,350.00	3,030.00	
Inventory clerk	50.00	660.00	
Purchasing department	460.00	3,240.00	
Assignment Committee	735.00		
Carrying campus mail	300.00		
Catalogues and bulletins	3,850.00		
Commencement expenses	600.00		
Efficiency Committee	250.00	1,200.00	
Matron's office	400.00	520.00	
Non-resident lecture fund	900.00		
Printing department	200.00		
Publicity	3,000.00		
Ringing chimes	250.00		
Sabbath services	900.00		
State Teachers Association headquarters	50.00		
Telephone service for administrative offices	200.00		
Y. M. C. A. Information Bureau	400.00		
	$ 20,825.00	$ 22,730.00	$ 43,555.00
V. For Special Purposes:			
Pedagogical course	$ 300.00		
Summer session	7,000.00		
Traveling expense fund	2,100.00		
State Fair exhibit	800.00		10,200.00
			$620,031.66

SUMMARY.

I.	Salaries of Professors, Administrative Officers, Instructors and Assistants	$448,776.66
II.	Department expenses	56,715.00
III.	Maintenance of buildings	60,785.00
IV.	Administrative and general expenses	43,555.00
V.	Special purposes	10,200.00
	Total	$620,031.66

The salaries, which constitute the largest item in the budget, are as follows:

	Support Fund	Agricultural Experiment Station	Other College Funds	Totals
Administrative:				
Raymond A. Pearson, president	$ 7,500.00			$ 7,500.00
E. W. Stanton, vice-president, secretary, dean of junior college, and professor of mathematics	4,000.00			4,000.00
C. F. Curtiss, dean of agriculture and director of experiment station	2,500.00	2,000.00		4,500.00
Anson Marston, dean of engineering; civil engineering	4,000.00		(c) 300 (d) 200	4,500.00
C. H. Stange, dean of veterinary medicine; veterinary	3,000.00	300.00	(g)1,200 (h) 300	4,800.00
R. E. Buchanan, dean of science; bacteriology	3,300.00	300.00		3,600.00
Catherine J. MacKay, dean of home economics; home economics	3,000.00			3,000.00
Maria M. Roberts, vice-dean of junior college; mathematics	2,400.00			2,400.00

SALARIES—Continued

	Support Fund	Agricultural Experiment Station	Other College Funds	Totals
S. W. Beyer, vice-dean of engineering; mining engineering	3,500.00			3,500.00
S. A. Beach, vice-dean of agriculture; horticulture	2,000.00	1,300.00		3,300.00
H. E. Bemis, vice-dean of veterinary; surgery and obstetrics	2,400.00		(i) 450	2,850.00
Herman Knapp, treasurer and registrar; superintendent of college book store (receives $500 from book store)	2,250.00	250.00	(a) 200 (e) 100	2,800.00
Professors:				
T. R. Agg, civil engineering	2,000.00		(d)1,000	3,000.00
F. W. Beckman, agricultural journalism	2,150.00	1,000.00		3,150.00
H. D. Bergman, physiology and pharmacology	2,400.00			2,400.00
R. K. Bliss, director of agricultural extension			(a)3,300	3,300.00
Fletcher Briggs, modern languages	2,400.00			2,400.00
J. E. Brindley, economic science	2,600.00			2,600.00
P. E. Brown, soils	1,450.00	1,350.00		2,800.00
O. H. Cessna, history and psychology	3,000.00			3,000.00
W. F. Coover, chemistry	3,000.00			3,000.00
M. F. P. Costelloe, agricultural engineering	1,500.00	1,250.00		2,750.00
W. W. Dimock, pathology and bacteriology	2,700.00			2,700.00
F. A. Fish, electrical engineering	3,000.00			3,000.00
B. W. Hammer, dairy bacteriology	1,400.00	1,100.00		2,500.00
H. D. Hughes, farm crops	1,500.00	1,500.00		3,000.00
A. H. Kimball, structure design	2,700.00			2,700.00
E. E. King, railway engineering	2,600.00			2,600.00
J. E. Kirkham, structural engineering (also receives $500 from highway commission)	2,300.00			2,300.00
J. R. Lincoln, military science	1,500.00			1,500.00
G. B. MacDonald, forestry	1,750.00	1,000.00		2,750.00
W. H. Meeker, mechanical engineering	3,500.00			3,500.00
M. Mortensen, dairying	1,500.00	1,500.00		3,000.00
H. B. Munger, farm management	1,250.00	1,250.00		2,500.00
H. S. Murphy, anatomy and histology	2,700.00			2,700.00
A. B. Noble, English	2,500.00			2,500.00
L. H. Pammel, botany	2,950.00	300.00		3,250.00
W. H. Pew, animal husbandry	2,000.00	1,500.00		3,500.00
F. V. Shattuck, public speaking	2,000.00			2,000.00
K. G. Smith, director engineering extension			(b)2,400 (j) 900	3,300.00
L. B. Spinney, physics	3,000.00			3,000.00
Homer Staley, ceramics	2,700.00		(c) 300	3,000.00
W. H. Stevenson, soils	1,750.00	1,750.00		3,500.00
H. E. Summers, zoology (on leave)	1,500.00			1,500.00
G. M. Turpin, poultry husbandry	1,375.00	1,375.00		2,750.00
Clyde Williams, physical training	1,500.00		(k)1,500	3,000.00
G. M. Wilson, agricultural education	3,000.00			3,000.00
Associate Professors:				
C. E. Bartholomew, zoology	1,600.00			1,600.00
H. C. Bartholomew, electrical engineering	2,000.00			2,000.00
J. C. Bowman, English	1,600.00			1,600.00
Iva L. Brandt, domestic art	1,500.00			1,500.00
G. A. Chaney, mathematics	1,600.00			1,600.00
M. P. Cleghorn, mechanical engineering	2,400.00			2,400.00
F. E. Colburn, photography	1,050.00	1,350.00		2,400.00
Julia T. Colpitts, mathematics	1,800.00			1,800.00
R. W. Crum, civil engineering	1,700.00		(c) 200 (d) 100	2,000.00
F. H. Culley, horticulture	1,800.00	200.00		2,000.00
J. M. Evvard, animal husbandry	600.00	2,400.00		3,000.00
M. I. Evinger, hydraulic engineering	1,800.00			1,800.00
H. E. Ewing, zoology	1,800.00			1,800.00
E. P. Ferrin, animal husbandry	2,100.00			2,100.00
Genevieve Fisher, agricultural education	1,800.00			1,800.00

SALARIES—Continued

	Support Fund	Agricultural Experiment Station	Other College Funds	Totals
H. C. Ford, civil engineering	2,250.00			2,250.00
C. C. Fowler, chemistry	2,000.00			2,000.00
W. S. Gettemy, domestic art	1,500.00			1,500.00
J. E. Guthrie, zoology	2,600.00			2,600.00
F. M. Harrington, horticulture	1,700.00			1,700.00
J. C. Harris, music	1,000.00		(*l*)1,000	2,000.00
W. R. Hechler, farm crops	2,400.00			2,400.00
L. C. Hodson, mining engineering	2,200.00			2,200.00
K. C. Ikeler, animal husbandry	1,900.00			1,900.00
Wm. Kunerth, physics	1,700.00			1,700.00
W. J. Langwill, military science (detailed by U. S. Government)	200.00			200.00
R. A. Leavell, mechanical engineering	1,980.00		(*b*) 120	2,100.00
O. Lloyd-Jones, animal husbandry	1,800.00	300.00		2,100.00
Clyde McKee, farm crops	2,200.00			2,200.00
C. C. Major, mechanical engineering	1,950.00			1,950.00
C. A. Mann, chemical engineering	2,700.00			2,700.00
J. N. Martin, botany	2,500.00			2,500.00
C. W. Mayser, physical training	1,800.00		(*k*)1,900	3,700.00
I. E. Melhus, botany	1,400.00	1,400.00		2,800.00
E. M. Mervine, agricultural engineering	2,000.00			2,000.00
Helen Monsch, domestic science	2,200.00			2,200.00
G. C. Morbeck, forestry	1,800.00			1,800.00
Chas. Murray, veterinary bacteriology	1,900.00		(*h*) 500	2,400.00
R. A. Norman, mechanical engineering	2,100.00			2,100.00
E. A. Pattengill, mathematics	1,600.00			1,600.00
R. S. Potter, soils	200.00	1,700.00		1,900.00
J. O. Rankin, economic science	2,000.00			2,000.00
W. R. Raymond, English	2,000.00			2,000.00
R. R. Renshaw, chemistry	2,000.00			2,000.00
A. W. Rudnick, dairying	2,200.00			2,200.00
L. B. Schmidt, history	2,400.00			2,400.00
W. E. Sealock, agricultural education	2,500.00			2,500.00
P. S. Shearer, animal husbandry	1,800.00			1,800.00
R. E. Smith, soils	2,300.00			2,300.00
G. W. Snedecor, mathematics	1,600.00			1,600.00
Harold Stiles, physics	1,800.00			1,800.00
L. A. Test, chemistry	1,800.00			1,800.00
G. E. Thompson, physics	1,700.00			1,700.00
T. F. Vance, psychology	1,800.00			1,800.00
H. W. Vaughn, animal husbandry	1,900.00			1,900.00
G. H. VanTungeln, economic science	1,900.00	300.00		2,200.00
J. A. Wilkinson, chemistry	2,000.00			2,000.00
C. A. Wright, electrical engineering	1,800.00			1,800.00
Unexpended balance of amount set aside for associate professor in domestic art	1,241.66			1,241.66
Assistant Professors:				
J. H. Atkinson, english	1,600.00			1,600.00
A. L. Bakke, botany	1,800.00			1,800.00
R. L. Bancroft, soils	1,600.00			1,600.00
J. T. Bates, mechanical engineering	1,500.00			1,500.00
R. R. Bolton, veterinary practice and diagnosis	2,000.00			2,000.00
J. H. Buchanan, chemistry	1,500.00			1,500.00
Dillison Craig, mechanical engineering	1,500.00			1,500.00
Louis DeVries, modern languages	1,500.00			1,500.00
Vera Dixon, assistant librarian	1,500.00			1,500.00
Chas. Dorchester, farm crops	1,500.00			1,500.00
E. E. Eastman, soils	1,500.00			1,500.00
Annie Fleming, mathematics (one-half year)	816.66			816.66
S. L. Galpin, geology	1,600.00			1,600.00
H. H. Gibson, agricultural education	2,000.00			2,000.00
L. S. Gillette, dairy husbandry	1,050.00	1,050.00		2,100.00
L. B. Greenfield, English	1,400.00			1,400.00
W. E. Guard, veterinary surgery	1,200.00		(*m*) 400	1,600.00
R. E. Hall, chemistry	1,800.00			1,800.00
B. M. Harrison, zoology	1,700.00			1,700.00

SALARIES—Continued

	Support Fund	Agricultural Experiment Station	Other College Funds	Totals
A. J. Hauser, dairying	1,600.00			1,600.00
John Hug, mechanical engineering	1,500.00			1,500.00
Jennie Humphrey, domestic science	1,500.00			1,500.00
J. G. Hummel, mechanical engineering	1,600.00			1,600.00
H. M. Lackie, poultry husbandry	1,250.00		(*m*) 250	1,500.00
Max Levine, bacteriology	1,400.00		(*c*) 200	1,600.00
Wylie B. McNeal, domestic science	1,500.00			1,500.00
Ned Merriam, physical training	950.00		(*k*) 950	1,900.00
N. L. Nelson, veterinary practice	1,200.00		(*n*)1,500	2,700.00
H. R. O'Brien, agricultural journalism	1,350.00			1,350.00
Anna M. Olson, domestic science	1,400.00			1,400.00
A. A. Olson, mechanical engineering	1,400.00			1,400.00
F. D. Paine, electrical engineering	1,600.00			1,600.00
H. J. Plagge, physics	1,400.00			1,400.00
F. A. Robbins, electrical engineering	1,500.00			1,500.00
Raymond Rogers, physical training	1,600.00			1,600.00
H. A. Scullen, zoology	1,400.00			1,400.00
A. S. Thurston, horticulture	1,500.00			1,500.00
Dora Tompkins, English	1,600.00			1,600.00
T. R. Truax, forestry	1,600.00			1,600.00
Polly Witwer, domestic art	1,500.00			1,500.00
R. S. Wallis, civil engineering	1,400.00			1,400.00
Harter Walter, physical training	900.00		(*k*) 900	1,800.00
(vacant) horticulture	1,500.00			1,500.00
C. E. Brashear, assistant to the dean of agriculture	1,200.00	600.00		1,800.00
Emily Cunningham, adviser to women	1,250.00			1,250.00
J. G. Hanmer, supt. of college farm	1,500.00			1,500.00
C. S. Nichols, asst. to dean of engineering	1,150.00		(*c*) 600 (*d*) 500	2,250.00
C. H. Schemann, assistant to the president	2,500.00			2,500.00
Thos. Sloss, superintendent of buildings and grounds	1,350.00		(*e*)1,350	2,700.00
Dr. C. J. Tilden, superintendent of college hospital	100.00		(*f*)2,100	2,200.00
(vacant) college editor and statistician	2,000.00			2,000.00
(vacant) librarian	2,500.00			2,500.00
(vacant) reference librarian	1,000.00			1,000.00
Experiment Station Staff:				
J. Buchanan, supt. co-operative experiments		2,400.00		2,400.00
L. C. Burnett, chief in cereal breeding		1,250.00	(*o*)1,250	2,500.00
A. W. Dox, chief in chemistry		2,500.00		2,500.00
A. T. Erwin, chief in truck crops		2,600.00		2,600.00
L. W. Forman, chief in field experiments		2,100.00		2,100.00
W. G. Gaessler, assistant chief in chemistry		1,800.00		1,800.00
L. Greene, chief in pomology		2,600.00		2,600.00
Charlotte M. King, assistant chief in botany		1,300.00		1,300.00
O. G. Lloyd, assistant chief in farm management		2,000.00		2,000.00
R. L. Webster, acting chief in entomology		2,200.00		2,200.00
Totals	$298,263.32	$ 49,075.00	$ 25,970.00	$ 373,308.32

(*a*) Agricultural Extension.
(*b*) Engineering Extension.
(*c*) Engineering Experiment Station.
(*d*) Good Roads.
(*e*) Repairs and Improvements.
(*f*) Hospital fees.
(*g*) Serum fund.
(*h*) Veterinary Investigations.
(*i*) Veterinary Practitioners' course.
(*j*) Trade School.
(*k*) Athletic Council.
(*l*) Music Council.
(*m*) Sub-collegiate funds.
(*n*) Ambulatory Clinic fees.
(*o*) United States Department of Agriculture.

Houses on the college grounds are occupied by President Pearson; Deans Stanton, Curtiss and Marston; Professors Beach, Beyer, Mortensen, Summers, Noble and Superintendent Sloss.

In the cases of President Pearson and Superintendent Sloss the houses are heated and lighted.

The salary year begins September 1st. New salaries and increased salaries commence at that time; old salaries continue until that date. The salary table given is for the salary year beginning Sept. 1, 1916. Its totals differ slightly from the amount that will actually be paid during the fiscal year beginning July 1, 1916. The saving to the support fund in postponing the salary changes until Sept. 1st will probably amount to about $5,000. The figures used, however, in the estimated expenditures for the year are the larger and therefore the safer ones. They bring the budget clearly within the limit of the funds available.

The following is the list of instructors and assistants for the coming year with the salary of each and the fund to which it is chargeable:

SALARIES OF INSTRUCTORS AND ASSISTANTS.

	Support Fund	Agricultural Experiment Station	Other College Funds	Totals
Instructors:				
H. G. Anderson, physics	$ 1,000.00			$ 1,000.00
Raymond Anderson, English	1,000.00			1,000.00
A. V. Arragon, history	1,200.00			1,200.00
Archibald Bailey, music	200.00		(l)$1,000	1,200.00
W. E. Baker, economics	1,300.00			1,300.00
E. G. Bassett, modern languages	1,300.00			1,300.00
C. A. Baughman, civil engineering	1,300.00			1,300.00
L. J. Bircher, chemistry	900.00			900.00
Hari Bolleau, mechanical engineering	1,000.00			1,000.00
Alma Booth, domestic art	1,200.00			1,200.00
R. W. Brown, dairying	1,500.00			1,500.00
J. J. Brunner, dairying	1,800.00			1,800.00
Helen Burling, bacteriology	1,000.00			1,000.00
Grace Caldwell, domestic art	1,000.00			1,000.00
Grace Campbell, mathematics	500.00			500.00
J. W. Cameron, mechanical engineering	1,050.00			1,050.00
W. G. B. Carson, English	1,000.00			1,000.00
D. G. Carter, agricultural engineering	1,300.00			1,300.00
Janet G. Cation, domestic science	1,300.00			1,300.00
Steward Chandler, modern languages	1,200.00			1,200.00
N. L. Chrisler, physics	1,000.00			1,000.00
R. R. Clem, agricultural engineering	1,100.00			1,100.00
Florence E. Coolidge, English	1,000.00			1,000.00
Nora E. Cordingley, assistant cataloger	900.00			900.00
Marian E. Daniells, mathematics	1,400.00			1,400.00
G. G. De Bord, bacteriology	800.00			800.00
E. W. Dolch, Jr., English	1,100.00			1,100.00
H. S. Doty, botany	1,000.00			1,000.00
J. H. F. Douglas, physics	1,200.00			1,200.00
J. L. Eason, English	1,200.00			1,200.00
Ruth Edgerton, physical culture	1,200.00			1,200.00
A. E. Edminster, horticulture	1,200.00			1,200.00
G. V. Emery, physics	1,000.00			1,000.00
Honore English, domestic art (4 months)	400.00			400.00
Elizabeth Fuller, English	1,000.00			1,000.00
G. H. Godfrey, botany	600.00			600.00
Helen Goodrich, domestic art	1,200.00			1,200.00
J. D. Grossman, veterinary, anatomy and histology	1,500.00			1,500.00
Helena Hanson, domestic science	1,400.00			1,400.00

SALARIES OF INSTRUCTORS AND ASSISTANTS—Continued

	Support Fund	Agricultural Experiment Station	Other College Funds	Totals
Ada Hayden, botany	1,100.00			1,100.00
M. D. Helser, animal husbandry	1,400.00			1,400.00
Anna Henderson, domestic art (8 1-3 mos)	833.34			833.34
H. F. Hertz, agricultural engineering	1,000.00			1,000.00
A. O. Herzog, modern languages	1,000.00			1,000.00
R. J. Holmes, English	1,200.00			1,200.00
V. F. Hopkins, civil engineering	1,000.00			1,000.00
F. F. Householder, physics	1,000.00			1,000.00
Blanche Ingersoll, domestic science	1,400.00			1,400.00
Margaret Irving, public speaking	1,000.00		(p) 200	1,200.00
Palma Iverson, mathematics	500.00			500.00
H. W. Johnson, soils	700.00	700.00		1,400.00
Geo. Judisch, pharmacy	400.00			400.00
E. W. Kane, electrical engineering	1,000.00			1,000.00
Rosamund Kedzie, domestic science	1,200.00			1,200.00
J. B. Kelley, agricultural engineering	1,500.00			1,500.00
Lena J. Krakau, public speaking	500.00		(p) 500	1,000.00
Elizabeth A. Lathrop, domestic art	1,400.00			1,400.00
R. J. Toth, farm management	1,200.00			1,200.00
G. E. Linden, physical training	1,000.00			1,000.00
Ingeborg Lommen, modern languages	1,200.00			1,200.00
Jessie McArthur, English	1,000.00			1,000.00
David McKay, Jr., horticulture	600.00			600.00
Elizabeth McKim, mathematics	1,000.00			1,000.00
Nina Madsen, mathematics	500.00			500.00
Cora B. Miller, domestic science	1,500.00			1,500.00
Cecilia Murray, domestic art	1,400.00			1,400.00
B. S. Meyers, civil engineering	1,200.00			1,200.00
Nellie Naylor, chemistry	1,150.00			1,150.00
W. Neuswanger, physics	1,000.00			1,000.00
A. F. Nickels, mechanical engineering	1,070.00			1,070.00
Amy Noll, assistant librarian	1,000.00			1,000.00
Grace I. Norton, modern languages	1,200.00			1,200.00
Ruth O'Brien, chemistry	1,350.00			1,350.00
Frances Philo, physical culture	900.00			900.00
J. C. Pomeroy, physics	1,100.00			1,100.00
F. C. Potter, mechanical engineering	1,050.00			1,050.00
Bette Pritchett, cataloger	1,200.00			1,200.00
R. C. Riedesel, mechanical engineering	900.00			900.00
Robina Rae, agricultural librarian	650.00	300.00		950.00
W. A. Roberts, chemistry	1,400.00			1,400.00
L. A. Ramsey, chemistry	1,000.00			1,000.00
Ruth R. Safford, English	1,200.00			1,200.00
J. R. Sage, Jr., mathematics	1,200.00			1,200.00
C. F. Salt, agricultural journalism	1,200.00			1,200.00
L. R. Sanders, dairying	1,200.00			1,200.00
John Sawin, mechanical engineering	1,050.00			1,050.00
W. J. Scott, chemistry	1,000.00			1,000.00
Helen Smith, mathematics	1,400.00			1,400.00
E. M. Spangler, mechanical engineering	1,000.00			1,000.00
H. C. Sprague, structure design	1,200.00			1,200.00
A. Starbuck, English	1,200.00			1,200.00
L. M. Starin, zoology	1,000.00			1,000.00
Inebore Svendsen-Tune, music	200.00		(l)1,300	1,500.00
Helen Tappan, mathematics	1,400.00			1,400.00
Winifred Tilden, physical culture	1,500.00			1,500.00
O. C. Ufford, poultry husbandry	650.00	450.00		1,100.00
D. P. Weeks, agricultural engineering	1,200.00			1,200.00
W. M. Welty, horticulture	1,200.00			1,200.00
H. R. Werner, zoology	1,100.00			1,100.00
M. H. Wessen, English	1,200.00			1,200.00
Roy Wheeler, farm crops	1,200.00			1,200.00
F. S. Wilkins, farm crops	1,200.00			1,200.00
Robt. Wylie, dairy husbandry	1,400.00			1,400.00
L. F. Yocum, botany	1,000.00			1,000.00
(vacant) public speaking	1,200.00			1,200.00
(vacant) (1 year) home economics	600.00			600.00
(vacant) physical training	750.00			750.00

SALARIES OF INSTRUCTORS AND ASSISTANTS—Continued

	Support Fund	Agricultural Experiment Station	Other College Funds	Totals
Experiment Station Assistants:				
D. E. Bailey, dairy bacteriology		1,500.00		1,500.00
Russell Dunn, animal husbandry		1,700.00		1,700.00
Knute Espe, soil surveyor		1,300.00		1,300.00
F. B. Howe, soil surveyor		1,600.00		1,600.00
O. F. Jensen, soils		700.00	(o) 500	1,200.00
W. G. Kaiser, agricultural engineering		1,500.00		1,500.00
S. B. Kuzerian, chemistry		1,600.00		1,600.00
A. R. Lamb, chemistry		1,400.00		1,400.00
C. F. Larson, photography		1,100.00		1,100.00
A. C. McCandlish, dairy husbandry		1,600.00		1,600.00
T. J. Maney, pomology		1,800.00		1,800.00
M. E. Olson, field supt. soils experiments		1,200.00		1,200.00
G. P. Plaisance, chemistry		1,400.00		1,400.00
G. W. Roark, chemistry		1,200.00		1,200.00
R. S. Snyder, soils laboratory assistant		1,300.00		1,300.00
E. J. Strassbaugh, supt. of animal husbandry experiments		1,200.00		1,200.00
H. B. Westley, field superintendent farm crops experiments		840.00		840.00
(vacant) agricultural engineering		1,500.00		1,500.00
(vacant) entomology (½ year)		500.00		500.00
Assistants:				
D. F. Anderson, pharmacist	225.00			225.00
M. S. Anderson, chemistry	900.00			900.00
A. W. Blizzard, zoology	800.00			800.00
O. W. Chapman, chemistry	400.00			400.00
Hazel Chisman, central library	500.00			500.00
I. D. Clark, chemistry	900.00			900.00
Fae Farnam, mathematics	900.00			900.00
Agnes Fleming, veterinary library	600.00			600.00
L. V. Gowdey, field superintendent	550.00	550.00		1,100.00
J. M. Hawks, chemistry	400.00			400.00
Anson Hayes, chemistry	900.00			900.00
Marian Hossfeld, central library	700.00			700.00
H. D. Irish, chemistry	800.00			800.00
T. O. Kellems, chemistry	900.00			900.00
R. E. Kirk, chemistry	900.00			900.00
Caroline Laird, engineering library	800.00			800.00
T. S. Leith, veterinary anatomy	1,200.00			1,200.00
H. M. McLaughlin, chemistry	900.00			900.00
G. A. Minges, chemistry	450.00			450.00
J. A. Montgomery, chemistry	900.00			900.00
Mrs. S. B. More, chemistry	850.00			850.00
N. C. Pervier, chemistry	400.00			400.00
John Reardon, gardener	780.00	240.00		1,020.00
Marie Rees, botany	800.00			800.00
I. L. Ressler, zoology	600.00			600.00
D. L. Scoles, chemistry	850.00			850.00
F. H. Schultz, chemistry	950.00			950.00
Mrs. Grace Smith, chemistry librarian	600.00			600.00
E. F. Tovrea, chemistry	400.00			400.00
E. R. Waffle, chemistry	850.00			850.00
Zelma Zentmire, chemistry	900.00			900.00
Student Assistants:				
Hazel Baker, domestic art (5 mo.)	225.00			225.00
F. E. Fuller, farm crops	300.00			300.00
D. R. Johnson, soils	300.00			300.00
Agricultural engineering	100.00			100.00
Botany	400.00			400.00
Chemistry	800.00			800.00
Forestry	200.00			200.00
Horticulture	200.00			200.00

SALARIES OF INSTRUCTORS AND ASSISTANTS—Continued

	Support Fund	Agricultural Experiment Station	Other College Funds	Totals
Military	800.00			800.00
Pathology	600.00			600.00
Scholarships:				
A. B. Caine, animal husbandry	200.00			200.00
R. S. Kirby, pomology	200.00			200.00
H. L. Lantz, plant breeding	200.00			200.00
L. V. Starkey, animal husbandry	200.00			200.00
H. B. Winchester, animal husbandry	200.00			200.00
(Vacant), agricultural engineering	200.00			200.00
Teaching Fellowships:				
J. R. Burkholder, zoology	400.00			400.00
H. H. Dukes, physiology	400.00			400.00
A. B. Gwinn, soils	400.00			400.00
Frank Hays, animal husbandry	400.00			400.00
Earl Hewitt, anatomy	400.00			400.00
H. W. Hulbert, farm crops	400.00			400.00
J. B. Kendrick, botany	400.00			400.00
Nana Kenoyer, botany	400.00			400.00
R. L. Laybourne, bacteriology	400.00			400.00
E. F. McKune, truck crops	400.00			400.00
M. H. Middlekauff, bacteriology	400.00			400.00
C. E. Miller, economics	400.00			400.00
R. A. Moye, anatomy	400.00			400.00
C. P. Pritchett, physics	400.00			400.00
H. R. Richards, agricultural engineering	400.00			400.00
Jacob Rovner, dairying	400.00			400.00
F. H. Smith, zoology	400.00			400.00
G. I. Turnbow, dairying	400.00			400.00
Harry Warner, soils	400.00			400.00
Jay Whitson	400.00			400.00
Research Fellowships:				
J. D. Arnold, dairying		300.00		300.00
Paul Emerson, soils		500.00		500.00
Wm. V. Halverson, soils		300.00		300.00
C. A. Reese, entomology		500.00		500.00
Joe Robinson, farm crops		300.00		300.00
Bernard Sheehan, farm crops		300.00		300.00
G. O. Smith, dairy husbandry		300.00		300.00
I. H. Vogel, botany		500.00		500.00
Earl Weaver, animal husbandry		300.00		300.00
H. C. Yerger, dairying		300.00		300.00
(Vacant), agricultural engineering		300.00		300.00
Totals	$150,513.34	$ 31,080.00	$ 3,500.00	$ 185,093.34

(l) Music Council.
(o) United States Department of Agriculture.
(p) Public Speaking Council.

PER CAPITA COST TO STATE AND NATION OF THE EDUCATIONAL WORK AT THE COLLEGE.

Such a report as this ought to show the annual per capita cost, to the state and nation, of educating the young people who attend the college. This is not, however, an easy task. The final step is simply an example in division, but in determining the dividend and divisor to be used, serious difficulties are encountered. The figures decided upon should be such as can be successfully defended. In those used in this report certain things are excluded and certain things included. The reasons are given in each case wherever there is a possibility of a difference of opinion. The following items are excluded:

1. **Extension work.** This work is not in any way a part of the work of educating the student body at the college. It connects itself with an entirely different purpose. No one questions its value; the state does well to support it; but the expense of its maintenance and development should be charged to the right account. Surely such cost should not appear in the dividend of this problem of per capita cost unless the divisor include the students who attend its short courses, throughout the state.

2. **Experimentation.** This work is also for the state at large. It is supported by distinct appropriations granted by the national congress and the state legislature. No portion of the cost of the instructional work at the college is charged against its funds; such use of its money would be in direct violation of law. Its work and its accounts are separate; they should be so treated.

3. **Buildings, permanent improvements and permanent equipment.** Interest on these is excluded. The original cost, the annual repairs and all minor improvements are taken into account, but not interest thereon. The state and nation furnish the plant. It is a part of their contribution to higher education. In a sense, it is a gift to a worthy cause, and interest is not charged on gifts. If it were, even a small gift would in time have an immense inventory value. The original value is taken and apportioned. College buildings, for instance, are valued at about $2,850,000. They are very substantial. Improved and kept in repair as they are, by a fund included in the dividend of this problem, they should be good for a century. Their cost is apportioned among the years; the share chargeable to a single year is taken as $28,500. The department furniture and the permanent department equipment are valued, in round numbers, at $750,000. They will last at least twenty-five years. The share going with a single year is set down at $30,000.

A portion of the annual building charge mentioned above might, in justice, be apportioned to the experiment stations and the extension work, since these divisions are housed in the college buildings. Another place where the figures used are generous on the cost side, is in the matter of the salaries of the executive officers, the expenses of their offices, and the cost of the accounting system of the institution. A part of this expense should be charged against these outside activities. There

is a serious question whether more items than those mentioned, rather than fewer, should not be excluded in making up the dividend.

The following are included; the year taken is 1915-16, the last year of the biennial period.

1.	Salaries of professors, instructors and administrative officers	$395,164.65
2.	Administrative and general expenses over and above salaries of administrative officers already included in (1)	45,188.29
3.	Current expenses of educational departments including the cost of departmental investigation, repair of apparatus and the purchase of equipment to replace that worn out.	61,940.66
4.	Care of public grounds and the heating, lighting and janitor service in public buildings	38,851.73
5.	The cost of keeping the college plant in repair and making minor improvements	29,820.75
6.	Summer session, over and above amount already charged under head of department expenses	20,000.00
7.	Non-collegiate courses	54,733.54
8.	Winter vacation courses at the college	6,426.14
9.	Share of cost of buildings and improvements chargeable to year 1915-16 (sinking fund)	28,500.00
10.	Share of cost of permanent department equipment chargeable to year 1915-16	30,000.00
	Total	$710,625.76

The total is divided between the nation and state as follows:

Nation	$ 88,324.28
State	622,301.48
Total	$710,625.76

The foregoing items represent the maximum charges that should be included in the educational cost.

The following shows how the divisor is made up:

Number of full year students	2,878
Summer school students:	
791 for first six weeks' session; reduced to full year basis of 36 weeks	132
264 for second six weeks' session; reduced to full year basis	44
Winter Short Courses at Ames:	
2,127 students for one week; reduced to full year basis	59
Total	3,113

Dividing the dividend (or aggregate cost) by this divisor the following results are reached:

For year 1915-16	Cost to Nation	Cost to State	Total Per Capita Cost
Per capita cost taking all factors mentioned in table into account	$ 28.37	$ 199.90	$ 228.27
Per capita cost omitting items 9 and 10 from expense table	28.37	181.46	209.83
Per capita cost of instruction, only			126.94

In comparing these figures with those of other colleges or universities, it should be borne in mind that the per capita cost in this institution, with its laboratories, workshops, etc., should naturally be greater than

in institutions working largely along the line of liberal arts. Instead of this, the cost in general is, I believe, much less if the figures are made up in the same way. From any point of view, they are creditable to the college.

This report is submitted in the hope that anyone desiring to become fully acquainted with the financial operations of the College during the biennial period can reach such acquaintance through its perusal. It gives, also, an idea of the proposed expenditures for the present year.

FINANCES OF THE IOWA STATE COLLEGE OF AGRICULTURE AND MECHANIC ARTS

Report of the Treasurer regarding Receipts and Disbursements of all Funds from July 1, 1914, to June 30, 1915.

HERMAN KNAPP, TREASURER.

	Balance July 1, 1914	Fiscal Year		Total		Support Fund	
		Expenditures	Receipts	Expenditures	Receipts	Net expenditures	Net receipts
Balance Support Fund	$ 71,354.87		$ 135.86		$ 71,490.73		$ 71,490.73
Endowment Interest Fund			35,433.96		35,433.96		35,433.96
Interest on treasurer's balance			3,353.68		3,353.68		3,353.68
Morrill Fund			50,000.00		50,000.00		50,000.00
State Support Funds			371,000.00		371,000.00		371,000.00
Tuition		$ 1,900.00	14,575.00	$ 1,900.00	14,575.00		12,675.00
Salaries—educational support		228,390.21	150.00	228,390.21	150.00	$228,240.21	
Salaries—assistants		112,989.69		112,989.69		112,989.69	
Agricultural dean's office		1,663.19		1,663.19		1,663.19	
Agricultural education		1,129.28		1,129.28		1,129.28	
Agricultural engineering		7,090.05	4,923.36	7,090.05	4,923.36	2,166.69	
Agricultural journalism		1,847.64	1,000.00	1,847.64	1,000.00	847.64	
Anatomy		1,274.45	750.00	1,274.45	750.00	524.45	
Animal husbandry		4,769.03	2,821.00	4,769.03	2,821.00	1,948.03	
Bacteriology		2,511.77	1,094.14	2,511.77	1,094.14	1,417.63	
Botany		3,821.14	2,947.51	3,821.14	2,947.51	873.63	
Chemistry		21,818.81	20,114.26	21,818.81	20,114.26	1,704.55	
Civil engineering		2,490.76	1,157.50	2,490.76	1,157.50	1,333.26	
Dairy		41,787.15	40,192.96	41,787.15	40,192.96	1,594.19	
Dairy farm		9,531.05	7,841.12	9,531.05	7,841.12	1,689.93	
Economic science		748.60		748.60		748.60	
Electrical engineering		1,504.54	322.00	1,504.54	322.00	1,182.54	
Engineering dean's office		2,565.70	71.00	2,565.70	71.00	2,494.70	
English		1,094.87	397.50	1,094.87	397.50	697.37	
Farm		17,826.61	15,202.52	17,826.61	15,202.52	2,624.09	

FINANCES OF THE IOWA STATE COLLEGE AND MECHANIC ARTS—Continued

	Balance July 1, 1914	Fiscal Year		Total		Support Fund	
		Expenditures	Receipts	Expenditures	Receipts	Net expenditures	Net receipts
Farm crops		2,425.61	1,388.48	2,425.61	1,388.48	1,037.13	
Farm management		567.65		567.65		567.65	
Forestry		1,136.91	28.05	1,136.91	28.05	1,108.86	
History		402.69		402.69		402.69	
Home economics		8,548.27	6,084.55	8,548.27	6,084.55	2,463.72	
Horticulture		7,521.38	3,973.07	7,521.38	3,973.07	3,548.31	
Junior College dean's office		2,280.01		2,280.01		2,280.01	
Library		1,653.99	781.24	1,653.99	781.24	872.75	
Mathematics		203.78		203.78		203.78	
Matrons Fund		985.86		985.86		985.86	
Mechanical engineering		6,814.78	5,053.66	6,814.78	5,053.66	1,761.12	
Military		800.32		800.32		800.32	
Mining engineering		1,249.58		1,249.58		1,249.58	
Modern language		49.86		49.86		49.86	
Music		333.16	1.20	333.16	1.20	331.96	
Pathology		867.19	297.55	867.19	297.55	569.64	
Photography		192.55	72.00	192.55	72.00	120.55	
Physical culture		1,290.06	1,051.00	1,290.06	1,051.00	239.06	
Physical training		3,583.35	3,098.34	3,583.35	3,098.34	485.01	
Physics		2,609.43	1,248.50	2,609.43	1,248.50	1,360.93	
Physiology		366.95	92.00	366.95	92.00	274.95	
Poultry		2,789.82	1,307.17	2,789.82	1,307.17	1,482.65	
Public speaking		70.45		70.45		70.45	
Science dean		300.00		300.00		300.00	
Soils		4,313.14	2,558.00	4,313.14	2,558.00	1,755.14	
Structure design		267.06	17.00	267.06	17.00	250.06	
Summer school		13,107.78	1,791.50	13,107.78	1,791.50	11,316.28	
Surgery		4,025.38	3,063.29	4,025.38	3,063.29	962.09	
Transportation		1,219.98		1,219.98		1,219.98	
Veterinary dean		849.60		849.60		849.60	
Zoology		3,101.16	2,455.25	3,101.16	2,455.25	645.91	
Catalogue and bulletins		3,080.73		3,080.73		3,080.73	
Contingent expense		3,994.76		3,994.76		3,994.76	
Fires, lights and incidentals		62,519.74	48,700.39	62,519.74	48,700.39	13,819.35	
Inventory clerk		770.00		770.00		770.00	
Janitor Fund		19,277.74	154.18	19,277.74	154.18	19,123.56	
President's office		5,294.48		5,294.48		5,294.48	
Printing		688.03	454.47	688.03	454.47	233.56	
Publicity		2,031.70		2,031.70		2,031.70	
Purchasing department		3,339.98		3,339.98		3,339.98	
Registrar's office		4,670.34	1,765.00	4,670.34	1,765.00	2,905.34	
Sabbath service		677.32		677.32		677.32	
Secretary's office		2,353.27		2,353.27		2,353.27	
Treasurer's office		3,916.44		3,916.44		3,916.44	
Equipment support		42,001.86		42,001.86		42,001.86	
Public grounds, maintenance and improvements		2,064.87	530.50	2,064.87	530.50	1,534.37	
		$ 71,354.87	$697,363.55	$659,449.76	$697,363.55	$730,804.63	$510,512.29	$ 543,953.37
Balances	$71,354.87			37,913.79	33,441.08		33,441.08	
Totals	71,354.87	$ 71,354.87	$697,363.55	$697,363.55	$730,804.63	$730,804.63	$543,953.37	$ 543,953.37

MINOR INCOMES.

	Balance July 1, 1914	Fiscal Year		Total		Balance June 30, 1915
		Expenditures	Receipts	Expenditures	Receipts	
Agricultural fellowship	$ 441.71	$ 100.00		$ 100.00	$ 441.71	$ 341.71
Hospital	3,712.96	10,168.28	$ 10,623.92	10,168.28	14,336.88	4,168.60
Piano rent	394.45	335.30	333.60	335.30	728.05	392.75
State fair scholarships	150.01	224.96	125.00	224.96	275.01	50.05
Room rent	1,760.88	5,385.68	8,004.05	5,385.68	9,764.93	4,379.25
Superintendent's storeroom		10,383.88	12,551.07	10,383.88	12,551.07	2,167.19
Totals	$ 6,460.01	$ 26,598.10	$ 31,637.64	$ 26,598.10	$ 38,097.65	$ 11,499.55

STATE APPROPRIATIONS FOR BUILDINGS AND EQUIPMENT.

	Balance July 1, 1914	Fiscal Year		Total		Balance June 30, 1915
		Expenditures	Receipts	Expenditures	Receipts	
Additional buildings		$ 12,611.87	$ 15,000.00	$ 12,611.87	$ 15,000.00	$ 2,388.13
Books and periodicals		4,558.09	4,900.00	4,558.09	4,900.00	341.91
Chemistry building		58,338.78	58,518.86	58,338.78	58,518.86	180.08
Equipment of departments		53,119.35	56,534.69	53,119.35	56,534.69	3,415.34
Heating plant equipment		13,013.57	13,022.88	13,013.57	13,022.88	9.31
Public grounds improvement	$ 698.29	698.29		698.29	698.29	
Public grounds, maintenance and improvements		15,000.00	15,000.00	15,000.00	15,000.00	
Repairs and contingent	10,333.89	51,698.79	45,000.00	51,698.79	55,333.89	3,635.10
Special building tax		158,814.00	183,416.30	158,814.00	183,416.30	24,602.30
Totals	$ 11,032.18	$ 367,852.74	$ 391,392.73	$ 367,852.74	$ 402,424.91	$ 34,572.17

AGRICULTURAL EXTENSION WORK.

Agricultural extension	$ 14,944.02	$ 98,704.99	$ 96,238.48	$ 98,704.99	$ 111,182.50	$ 12,477.51

EXPERIMENTAL FUNDS OUTSIDE OF AGRICULTURAL EXPERIMENT STATION.

Engineering experiment station	$ 543.15	$ 16,155.35	$ 15,770.22	$ 16,155.35	$ 16,313.37	$ 158.02
Good roads experimentation	3,222.54	12,450.60	10,000.00	12,450.60	13,222.54	771.94
Horse breeding experiment	6.69				6.69	6.69
Veterinary investigation	11.31	7,149.79	9,225.67	7,149.79	9,236.98	2,087.19
Totals	$ 3,783.69	$ 35,755.74	$ 34,995.89	$ 35,755.74	$ 38,779.58	$ 3,023.84

SERUM FUND.

Serum Fund	$ 21,779.74	$ 132,038.59	$ 114,985.21	$ 132,038.59	$ 136,764.95	$ 4,726.36

TRADE SCHOOLS AND ENGINEERING EXTENSION.

Trade schools and engineering extension	$ 8,086.28	$ 24,217.08	$ 24,013.97	$ 24,217.08	$ 32,100.18	$ 7,883.10

VETERINARY PRACTITIONERS' COURSE

Veterinary Practitioners' course	$ 2,411.44	$ 1,588.77	$ 4,500.00	$ 1,588.77	$ 6,911.44	$ 5,322.67

TWO YEAR FUNDS.

	Balance July 1, 1914	Fiscal Year		Total		Support Fund	
		Expenditures	Receipts	Expenditures	Receipts	Net expenditures	Net receipts
State support	$ 12,354.62		$ 40,750.00		$ 53,104.62		$ 53,104.62
Salaries		$ 15,702.28		$ 15,702.28		$ 15,702.28	
Salaries—assistants		11,647.42		11,647.42		11,647.42	
Agricultural dean		135.68		135.68		135.68	
Agricultural engineering		2,744.63	837.75	2,744.63	837.75	1,906.88	
Agronomy		1,324.28	641.50	1,324.28	641.50	682.78	
Animal husbandry		3,933.11	1,068.00	3,933.11	1,068.00	2,865.11	
Botany and bacteriology		1,679.95	466.12	1,679.95	466.12	1,213.83	
Chemistry		1,346.51		1,346.51		1,346.51	
Dairy		1,057.90	718.30	1,057.90	718.30	339.60	
English		327.45		327.45		327.45	
Heating		1,100.00		1,100.00		1,100.00	
History		20.68		20.68		20.68	

TWO YEAR FUNDS—Continued

	Balance July 1, 1914	Fiscal Year		Total		Support Fund	
		Expenditures	Receipts	Expenditures	Receipts	Net Expenditures	Net receipts
Home economics		8,623.46	778.00	8,623.46	778.00	7,845.46	
Horticulture		1,104.21	377.98	1,104.21	377.98	726.23	
Janitor		300.00		300.00		300.00	
Mathematics		35.95		35.95		35.95	
Public speaking		9.75		9.75		9.75	
	$ 12,354.62	$ 51,093.26	$ 45,637.65	$ 51,093.26	$ 57,992.27	$ 46,205.61	$ 53,104.62
Balances $12,354.62			5,455.61	6,899.01		6,899.01	
Totals 12,354.62	$ 12,354.62	$ 51,093.26	$ 51,093.26	$ 57,992.27	$ 57,992.27	$ 53,104.62	$ 53,104.62

EXPERIMENT STATION.

U. S. Adams support			$ 15,000.00		$ 15,000.00		$ 15,000.00
U. S. Hatch support			15,000.00		15,000.00		15,000.00
State support	$ 13,420.14		106,300.00		119,720.14		119,720.14
Salaries		$ 42,024.98		$ 42,024.98		$ 42,024.98	
Salaries—assistants		18,870.71		18,870.71		18,870.71	
Additional farm		10,875.00		10,875.00		10,875.00	
Agricultural engineering		2,550.92	128.05	2,550.92	128.05	2,422.87	
Animal husbandry		17,623.69	10,129.93	17,623.69	10,129.93	7,493.76	
Bacteriology		549.64		549.64		549.64	
Botany		1,272.88		1,272.88		1,272.88	
Bulletin		7,538.66		7,538.66		7,538.66	
Chemistry		3,555.35	55.98	3,555.35	55.98	3,499.37	
Dairy		2,543.24	115.32	2,543.24	115.32	2,427.92	
Dairy farm		3,872.03	732.93	3,872.03	732.93	3,139.10	
Directors		1,738.44		1,738.44		1,738.44	
Entomology		1,299.83		1,299.83		1,299.83	
Farm crops		12,526.32	1,716.77	12,626.32	1,716.77	10,809.55	

Farm management		2,931.15	25.00	2,931.15	25.00	2,936.15	
Forestry		1,382.56		1,382.56		1,382.56	
General expenses		4,110.98		4,110.98		4,110.98	
Photo		2,742.14	2,017.76	2,742.14	2,017.76	724.38	
Pomology		8,562.55	3,374.02	8,562.55	3,374.02	5,188.53	
Poultry		1,606.46		1,606.46		1,606.46	
Soils		14,280.07	1,261.95	14,280.07	1,261.95	13,018.12	
Truck crops		1,729.99	258.20	1,729.99	258.20	1,471.79	
	$ 13,420.14	$164,217.59	$156,115.91	$164,217.59	$169,536.05	$144,401.68	$ 149,720.14
Balances $13,420.14			8,101.68	5,318.46		5,318.46	
Totals $13,420.14	$ 13,420.14	$164,217.59	$164,217.59	$169,536.05	$169,536.05	$149,720.14	$ 149,720.14

FINANCES OF THE IOWA STATE COLLEGE OF AGRICULTURE AND MECHANIC ARTS—(Continued)

Report of the Treasurer regarding Receipts and Disbursements of all Funds from July 1, 1915, to June 30, 1916.

HERMAN KNAPP, TREASURER.

	Balance July 1, 1915	Fiscal Year		Total		Support Fund	
		Expenditures	Receipts	Expenditures	Receipts	Net expenditures	Net receipts
Balance Support Funds	$ 33,441.08		$ 231.67		$ 33,672.75		$ 33,672.75
Endowment Interest Fund			38,324.28		38,324.28		38,324.28
Interest on treasurer's balance			4,567.13		4,567.13		4,567.13
Morrill Fund			50,000.00		50,000.00		50,000.00
State Support Funds			517,500.00		517,500.00		517,500.00
Tuition		$ 2,037.50	15,007.50	$ 2,037.50	15,007.50		12,970.00
Salaries—educational support		262,583.11		262,583.11		262,583.11	
Salaries—assistants		132,581.54		132,581.54		132,581.54	
Agricultural dean's office		2,325.43	89.33	2,325.43	89.33	2,236.10	
Agricultural education		1,237.54		1,237.54		1,237.54	
Agricultural engineering		5,907.30	4,098.11	5,907.30	4,098.11	1,809.19	
Agricultural journalism		1,060.92		1,060.92		1,060.92	
Anatomy		1,845.00	1,475.25	1,845.00	1,475.25	369.75	
Animal husbandry		5,025.73	2,651.80	5,025.73	2,651.80	2,373.93	

ANNUAL REPORT OF TREASURER—Continued

	Balance July 1, 1915	Fiscal Year		Total		Support Fund	
		Expenditures	Receipts	Expenditures	Receipts	Net expenditures	Net receipts
Bacteriology		2,839.59	1,485.39	2,839.59	1,485.39	1,354.20	
Botany		4,856.17	2,888.13	4,856.17	2,888.13	1,968.04	
Chemistry		22,024.93	20,840.86	22,024.93	20,840.86	1,184.07	
Civil engineering		2,075.44	1,500.00	2,075.44	1,500.00	575.44	
Dairy		47,497.92	45,762.83	47,497.92	45,762.83	1,735.09	
Dairy farm		9,518.65	7,225.86	9,518.65	7,225.86	2,292.79	
Economic science		837.85		837.85		837.85	
Electrical engineering		1,901.42	539.00	1,901.42	539.00	1,362.42	
Engineering dean's office		2,592.88	7.00	2,592.88	7.00	2,585.88	
English		1,060.81	358.00	1,060.81	358.00	702.81	
Farm		18,839.35	15,141.30	18,839.35	15,141.30	3,698.05	
Farm crops		2,231.60	1,192.66	2,231.60	1,192.66	1,038.94	
Farm management		752.72	158.00	752.72	158.00	594.72	
Forestry		1,146.80	20.00	1,146.80	20.00	1,126.80	
Graduate dean's office		551.69		551.69		551.69	
History		394.44		394.44		394.44	
Home economics		8,946.64	6,871.53	8,946.64	6,871.53	2,075.11	
Horticulture		10,241.87	5,568.61	10,241.87	5,568.61	4,673.26	
Junior College dean's office		2,561.52		2,561.52		2,561.52	
Library		1,878.29	692.05	1,878.29	692.05	1,186.24	
Mathematics		234.97		234.97		234.97	
Matrons Fund		806.88		806.88		806.88	
Mechanical engineering		7,783.03	5,772.21	7,783.03	5,772.21	2,010.82	
Military		568.01	5.12	568.01	5.12	562.89	
Mining engineering		1,507.78	68.00	1,507.78	68.00	1,439.78	
Modern languages		109.90		109.90		109.90	
Music		553.05		553.05		553.05	
Pathology		831.50	369.00	831.50	369.00	462.50	
Photography		105.13	48.00	105.13	48.00	57.13	
Physical culture		925.26	909.75	925.26	909.75	15.51	
Physical training		4,013.28	3,371.19	4,013.28	3,371.19	642.09	
Physics		3,980.83	2,382.20	3,980.83	2,382.20	1,598.63	
Physiology		390.46	160.00	390.46	160.00	230.46	
Poultry		2,918.55	1,286.12	2,918.55	1,286.12	1,632.43	
Public speaking		124.12		124.12		124.12	
Science dean's office		896.38		896.38		896.38	
Soils		4,627.74	3,071.21	4,627.74	3,071.21	1,556.53	
Structure design		564.10	152.13	564.10	152.13	411.97	
Summer session support		12,724.22	2,981.32	12,724.22	2,981.32	9,742.90	
Surgery		3,991.90	2,888.27	3,991.90	2,888.27	1,103.63	
Transportation		2,366.39	103.38	2,366.39	103.38	2,263.01	
Veterinary dean's office		3,489.71	2,333.26	3,489.71	2,333.26	1,156.45	
Zoology		2,991.31	2,325.00	2,991.31	2,325.00	666.31	
Catalog and bulletins		3,564.18		3,564.18		3,564.18	
Contingent expense		4,875.23		4,875.23		4,875.23	
Fires, lights and incidentals		68,952.08	51,109.49	68,952.08	51,109.49	17,842.59	
Inventory clerk		738.67		738.67		738.67	
Janitor Fund		20,475.58	143.91	20,475.58	143.91	20,331.67	
President's office		5,791.50		5,791.50		5,791.50	
Printing		839.12	795.26	839.12	795.26	43.86	
Publicity		2,729.45		2,729.45		2,729.45	
Purchasing department		3,559.29		3,559.29		3,559.29	
Registrar's office		5,547.65	2,081.00	5,547.65	2,081.00	3,466.65	
Sabbath services		800.47		800.47		800.47	
Secretary's office		2,880.94		2,880.94		2,880.94	
Traveling expense fund		1,685.88		1,685.88		1,685.88	
Treasurer's office		3,918.24		3,918.24		3,918.24	
Equipment support		21,898.34	3.84	21,898.34	3.84	21,894.50	
Public grounds support, maintenance and improvements		9,935.77	2,657.38	9,935.77	2,657.38	7,278.39	
		$ 33,441.08	$772,051.54	$829,213.33	$772,051.54	$802,654.41	$566,431.29	$ 657,034.16
Balances	$33,441.08		57,161.79		90,602.87			90,602.87	
Totals	$33,441.08	$ 33,441.08	$829,213.33	$829,213.33	$862,654.41	$862,654.41	$657,034.16	$ 657,034.16

MINOR INCOMES.

	Balance July 1, 1915	Fiscal Year		Total		Balance June 30, 1916
		Expenditures	Receipts	Expenditures	Receipts	
Agricultural Fellowship	$ 341.71	$ 275.00	----------	$ 275.00	$ 341.71	$ 66.71
Hospital	4,168.60	9,120.30	10,934.88	9,120.30	15,103.48	5,983.18
Piano Rent	392.75	20.00	235.20	20.00	627.95	607.95
Room rent	4,379.25	6,182.47	11,069.81	6,182.47	15,449.06	9,266.59
State Fair scholarships	50.05	771.89	800.00	771.89	850.05	78.16
Superintendent storeroom	2,167.19	11,294.29	11,057.85	11,294.29	13,225.04	1,930.75
John Clay endowment	----------	----------	1,250.00	----------	1,250.00	1,250.00
Totals	$ 11,499.55	$ 27,663.95	$ 35,347.74	$ 27,663.95	$ 46,847.29	$ 19,183.34

STATE APPROPRIATIONS FOR BUILDINGS AND EQUIPMENT.

Additional buildings	$ 2,388.13	$ 2,250.00	----------	$ 2,250.00	$ 2,388.13	$ 138.13
Additional equipment	----------	47,099.22	49,000.00	47,099.22	49,000.00	1,900.78
Books and periodicals	341.91	3,424.66	5,000.00	3,424.66	5,341.91	1,917.25
Chemistry building	180.08	80.08	----------	80.08	180.08	100.00
Equipment of departments	3,415.34	2,920.18	----------	2,920.18	3,415.34	495.16
Heating plant equipment	9.31	----------	----------	----------	9.31	9.31
Heating system and plant	----------	24,617.00	24,617.00	24,617.00	24,617.00	----------
Public grounds, maintenance and improvements	----------	9,972.51	10,000.00	9,972.51	10,000.00	27.49
Repairs and contingent	3,635.10	2,092.24	44.53	2,092.24	3,679.63	1,587.39
Repairs and improvements	----------	5,557.78	6,000.00	5,557.78	6,000.00	442.22
Repairs and minor improvements	----------	27,919.14	46,146.10	27,919.14	46,146.10	18,226.96
Settling and storage water tank	----------	6,643.47	15,000.00	6,643.47	15,000.00	8,356.53
Special building tax	24,602.30	89,894.42	92,500.00	89,894.42	117,102.30	27,207.88
Temporary home economics laboratory equipment	----------	565.23	700.00	565.23	700.00	134.77
Totals	$ 34,572.17	$223,035.93	$249,007.63	$223,035.93	$283,579.80	$ 60,543.87

AGRICULTURAL EXTENSION WORK.

Agricultural extension	$ 12,477.51	$115,990.79	$120,687.62	$115,990.79	$133,165.13	$ 17,174.34

TRADE SCHOOL AND ENGINEERING EXTENSION WORK.

Trade school and engineering extension work	$ 7,883.10	$ 24,672.89	$ 26,608.31	$ 24,672.89	$ 34,491.41	$ 9,818.52

LAKE ON CAMPUS.

Lake	----------	$ 5,710.90	$ 6,000.00	$ 5,710.90	$ 6,000.00	$ 289.10

SERUM FUND.

Serum fund	$ 4,726.36	$ 29,709.53	$ 57,366.10	$ 29,709.53	$ 62,092.46	$ 32,382.93

VETERINARY PRACTITIONERS' COURSE

Veterinary practitioners' course	$ 5,322.67	$ 4,048.39	$ 2,106.89	$ 4,048.39	$ 7,429.56	$ 3,381.17

SUMMER SESSION.

Summer session	----------	$ 20,000.00	$ 20,000.00	$ 20,000.00	$ 20,000.00	----------

WINTER SHORT COURSE.

Winter short course	----------	$ 6,426.14	$ 9,500.00	$ 6,426.14	$ 9,500.00	$ 3,073.86

EXPERIMENTAL FUNDS OUTSIDE OF AGRICULTURAL EXPERIMENT STATION.

	Balance July 1, 1915	Fiscal Year		Total		Balance June 30, 1916
		Expenditures	Receipts	Expenditures	Receipts	
Engineering experiment station	$ 158.02	$ 16,254.08	$ 16,152.46	$ 16,254.08	$ 16,310.48	$ 56.40
Good roads experimentation	771.94	10,678.93	10,021.61	10,678.93	10,793.55	114.62
Horse breeding experiment	6.69				6.69	6.69
Veterinary investigation	2,087.19	7,920.25	12,564.50	7,920.25	14,651.69	6,731.44
Totals	$ 3,023.84	$ 34,853.26	$ 38,738.57	$ 34,853.26	$ 41,762.41	$ 6,909.15

TWO YEAR FUNDS.

	Balance July 1, 1915	Fiscal Year		Total		Support Fund	
		Expenditures	Receipts	Expenditures	Receipts	Net expenditures	Net receipts
State support	$ 6,899.01		$ 61,500.00		$ 68,399.01		$ 68,399.01
Salaries		$ 16,832.70		$ 16,832.70		$ 16,832.70	
Salaries—assistants		19,080.33		19,080.33		19,080.33	
Agr. Dean's office		2,253.55		2,253.55		2,253.55	
Agr. engineering		1,541.22	756.23	1,541.22	756.23	784.99	
Agronomy		1,211.21	632.50	1,211.21	632.50	578.71	
Animal husbandry		4,370.17	889.25	4,370.17	889.25	3,480.92	
Botany and bacteriology		2,591.99	420.00	2,591.99	420.00	2,171.99	
Chemistry		632.40		632.40		632.40	
Dairy		1,305.93	721.00	1,305.93	721.00	584.93	
English		302.81		302.81		302.81	
History		93.22		93.22		93.22	
Home economics		4,621.56	856.70	4,621.56	856.70	3,764.86	
Horticulture		1,431.08	426.31	1,431.08	426.31	1,004.77	
Mathematics		25.99		25.99		25.99	
Public speaking		29.80		29.80		29.80	
	$ 6,899.01	$ 56,323.96	$ 66,201.99	$ 56,323.96	$ 73,101.00	$ 51,621.97	$ 68,399.01
Balances $6,899.01		9,878.03		16,777.04		16,777.04	
Totals $6,899.01	$ 6,899.01	$ 66,201.99	$ 66,201.99	$ 73,101.00	$ 73,101.00	$ 68,399.01	$ 68,399.01

AGRICULTURAL EXPERIMENT STATION.

U. S. Adams support			$ 15,000.00		$ 15,000.00		$ 15,000.00
U. S. Hatch support			15,000.00		15,000.00		15,000.00
State support	$ 5,318.46		115,530.45		120,848.91		120,848.91
Salaries		$ 46,914.48		$ 46,914.48		$ 46,914.48	
Salaries—assistants		27,689.47		27,689.47		27,689.47	
Agricultural engineering		2,236.25	114.75	2,236.25	114.75	2,121.50	
Animal husbandry		19,865.97	13,931.34	19,865.97	13,931.34	5,934.63	
Bacteriology		547.06		547.06		547.06	
Botany		1,350.68		1,350.68		1,350.68	
Bulletin		9,242.35	4.00	9,242.35	4.00	9,238.35	
Chemistry		3,684.32	90.30	3,684.32	90.30	3,594.02	
Dairy		1,988.45	209.46	1,988.45	209.46	1,778.99	
Dairy farm		2,934.43	47.00	2,934.43	47.00	2,887.43	
Director's section		1,174.58		1,174.58		1,174.58	
Entomology		1,215.52		1,215.52		1,215.52	
Farm crops		8,650.84	1,635.24	8,650.84	1,635.24	7,015.60	
Farm management		2,583.07	233.34	2,583.07	233.34	2,349.73	
Forestry		1,256.30		1,256.30		1,256.30	
General expenses		4,499.97		4,499.97		4,499.97	
Photo		1,906.07	1,428.74	1,906.07	1,428.74	477.33	
Pomology		10,264.59	5,352.89	10,264.59	5,352.89	4,911.70	
Poultry		1,231.87		1,231.87		1,231.87	
Rural sociology		106.29		106.29		106.29	
Soils		8,579.88	1,328.98	8,579.88	1,328.98	7,250.90	
Truck crops		2,066.57	820.89	2,066.57	820.89	1,245.68	
	$ 5,318.46	$159,989.01	$170,727.38	$159,989.01	$176,045.84	$134,792.08	$ 150,848.91
Balances $5,318.46		10,738.37		16,056.83		16,056.83	
Totals $5,318.46	$ 5,318.46	$170,727.38	$170,727.38	$176,045.84	$176,045.84	$150,848.91	$ 150,848.91

Iowa State Teachers College

Cedar Falls

Biennial Report

Period Ending June 30, 1916

REPORT OF THE PRESIDENT, IOWA STATE TEACHERS COLLEGE

HOMER H. SEERLEY, PRESIDENT.

STATISTICS.

The following tables give the statistics required by law as a part of this biennial report:

FACULTY.

	1914-15	1915-16
President	1	1
Head Professors	19	19
Professors	32	36
Assistant Professors	17	18
Instructors	28	33
Assistants	16	30
Student Assistants	12	14
Total	125	151

OTHER EMPLOYES.

	1914-15	1915-16
Librarian	1	1
Library Assistants	7	6
Library Student Assistants	39	20
Office Secretaries	2	2
Office Clerks and Stenographers	15	20
Superintendent of Buildings and Grounds	1	1
Janitors	22	18
Engineers and Mechanics	13	15
Other Employes—Hospital	1	3
Dormitory—		
Head		1
Assistant Head		1
Housekeeper		1
Assistant Housekeeper		1
Total	101	90

STUDENTS GRADUATING DURING PERIOD.

Rank of Diploma	1914-15	1915-16
Degree Courses	49	70
Diploma Courses	272	262
Normal Courses	12	76
M. Di. Diploma	5	5
Total	338	413

HISTORY AND DEVELOPMENT.

The Iowa State Teachers College has had forty years of history and development. These forty years have been remarkable for the progress and improvement of higher and professional education. Since 1876, the universities have been organized, the secondary schools have become public institutions and state education has been accepted as a necessity and as a solution of many of the problems of a democracy. Amidst these revolutions of public sentiment the teacher's status as a public official has been established and the teacher-training institution has become a universal method of public work. By reference to the Report of the Registrar, the statistics of the biennial period will show the extraordinary development that has taken place; while the Reports of the Secretary and Treasurer will make an exhibit of receipts and expenditures that have occurred in the financial part of the administration. When these facts are compared with previous reports, it will be found that this institution has responded to the common desire that public education should regard public welfare and individual efficiency as paramount ends to be met. The appreciation of the citizens of the commonwealth of the work accomplished has been shown by their increasing patronage and growing confidence.

THE HOUSING OF THE STUDENTS.

The Thirty-fifth General Assembly made provision for the erection of Bartlett Hall, the first section of the fireproof Dormitory for women. This section accommodated one hundred and twenty-three women students, and also provided for the necessary quarters for officers and gave suitable space for the conducting of a well equipped cafeteria capable of serving daily from 1,500 to 1,800 meals. The Thirty-sixth General Assembly made appropriation for the erection of a second section of this Dormitory. This will be completed and put into service June, 1917, will accommodate one hundred and seventy-five students, and, in addition, will provide dining room and other equipment for the proper management of a boarding and lodging department of the capacity stated. It has been found possible to give first class service at moderate prices, to make the investment remunerative to the State and, at the same time, insure safety, superior comfort and good management.

The continued growth of the student body at this College will depend upon the continuation of this policy by the State, as the needed development of boarding and lodging facilities will not be provided by private initiative as business investments; and, furthermore, suitable and well regulated management demands regular institutional control and supervision. It is the proper duty of the State to assume responsibility for this department of the school and thus establish superior standards. For these reasons additional dormitories, both for men and for women, should be authorized by legislative action.

THE EXPANSION OF THE TEACHERS COLLEGE.

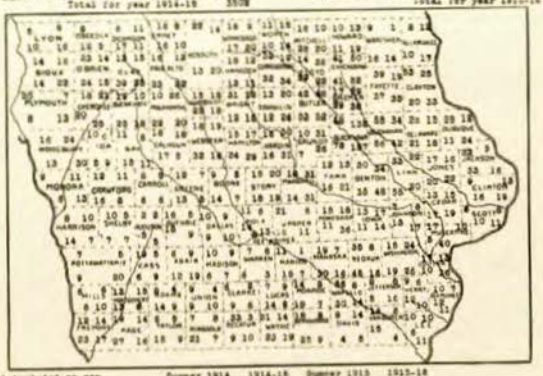
The present organized departments of the College will all be given reasonable space with the completing and equipping of the Vocational Building. It may be necessary in the future to request the granting of annex buildings if the enrollment of students should be extraordinarily increased. It is the adopted policy of the management of the College to postpone this contingency as long as possible by increasing the number of hours that the buildings are in daily service so as to give double the standard capacity. Such a plan calls for increase of the number of members of the faculty commensurate to the enrollment, and arranges recitation and laboratory work for the hours of the morning, afternoon and evening of all school days. By this method of organization, the entire plant will be used to the greatest extent possible, while the amount of work accomplished will be greatly increased without additional investment in buildings. This plan becomes a necessity if large efficiency and strict economy are given due consideration in the use of the floor space provided.

THE ENROLLMENT OF THE PERIOD.

In order to show the distribution of the student body according to the counties of the State from which they claim residence, the following map giving the enrollments of the two summer terms and also the two regular school years covered by this Report, is shown. In making this map, it was necessary to exclude Cedar Falls enrollments from being charged to Black Hawk County, on account of the fact that many families move to Cedar Falls, temporarily, to secure for their children the advantages of the College, and because many other students of mature age claim Cedar Falls as their

personal residence during their student days. The numbers thus deducted are shown in tables given below the map. While the students' residence when they come to school is of less importance to the State educationally than where they accept work after leaving school, yet this map will answer many questions that constantly arise as to where the students come from that attend the Teachers College. The much quoted theory that most students come from a radius of one hundred miles from the location of the College is entirely disproved by this map.

Iowa State Teachers College, Cedar Falls, Iowa.
County Residence of Students, 1914-15 and 1915-16.
Figures above name of county - 1914-15
Left hand - Summer, 1914 (not including 299 who re-enrolls later in the school year) 1703
Right hand- Fall, Winter, and Spring terms 1782
Total for year 1914-15 3485
Figures below name of county 1915-16
Left hand - Summer, 1915 (not including 204 who re-enrolls later in the school year 1949
Right hand- Fall, Winter, and Spring terms 2148
Total for year 1915-16 4097



Not included on map	Summer 1914	1914-15	Summer 1915	1915-16
Cedar Falls, City	58	116	94	123
Cedar Falls, Fourth Ward	38	117	48	126
Other States	46	97	61	93
Foreign		4		4

THE EXTENSION SERVICE.

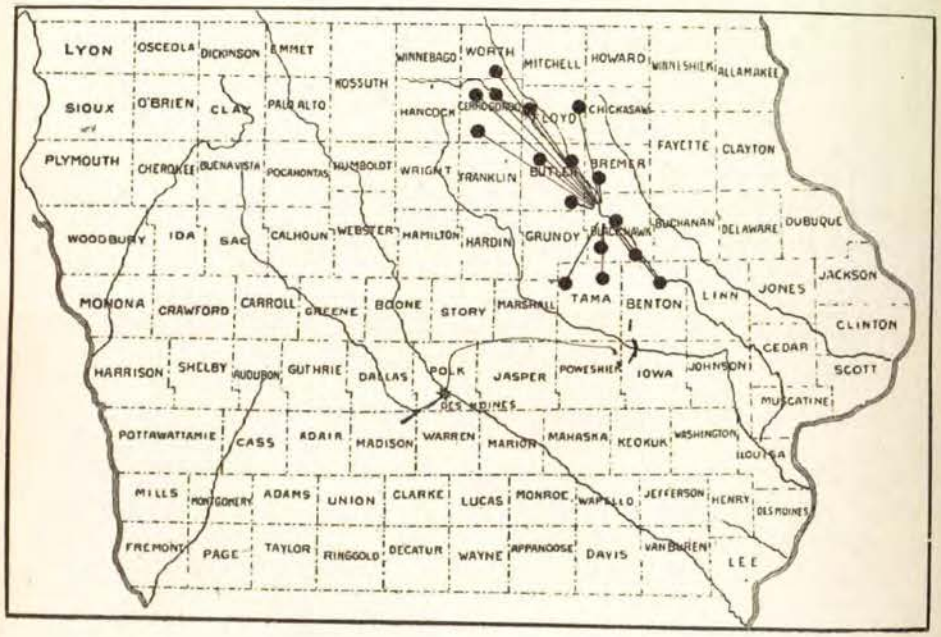
The most recent undertaking of the Teachers College is that of giving instruction to teachers in service. During 1913-14 a small beginning was made by using the voluntary assistance of the members of the Faculty. In 1914-15 the State Board of Education authorized the expenditure of a limited amount of the general fund in order to make a more extended experiment. The Thirty-sixth General Assembly made an appropriation for the support of the work and made it possible for the organization to be permanently

established for the year 1915-16. A special report upon the details of this first year's work has been printed as a regular Bulletin of the College, and persons wanting complete information can be supplied on application. The cordial acceptance of this new work by the teachers and superintendents indicates that the State should strengthen this department and authorize more expenditures and more extended organization, so that courses of study can be completed and more frequent class work done in each Study Center organized. We know of no other way in which the teachers can be more economically assisted in making improvement and increasing the efficiency of their services.

The following maps show the location of the Centers for the three years, and the amount of enrollment secured for the third year. The work for 1916-17 will be continued on the basis of the

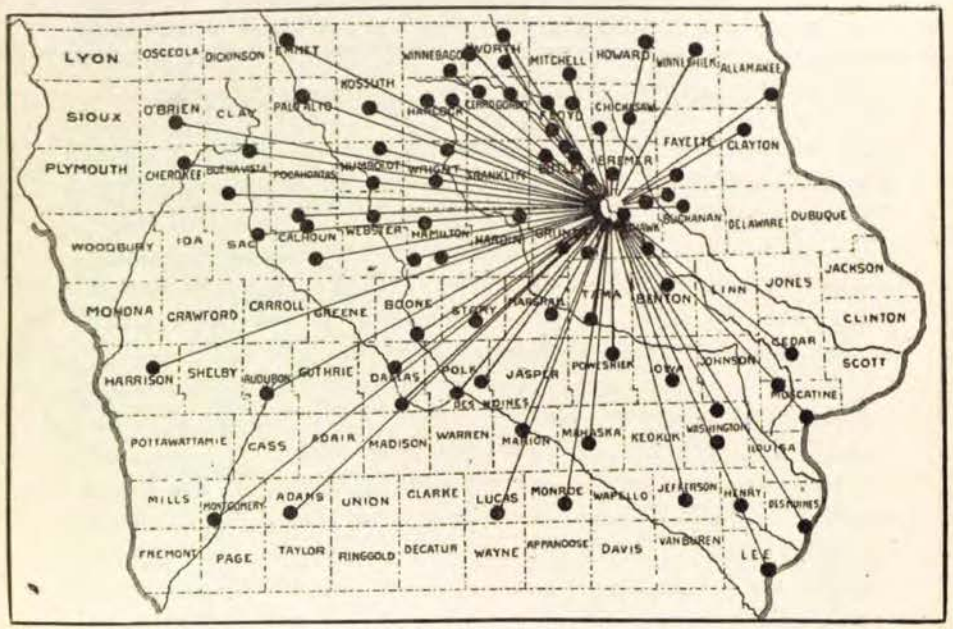
IOWA STATE TEACHERS COLLEGE
Cedar Falls, Iowa.

Location of Study Centers in 1913-14.



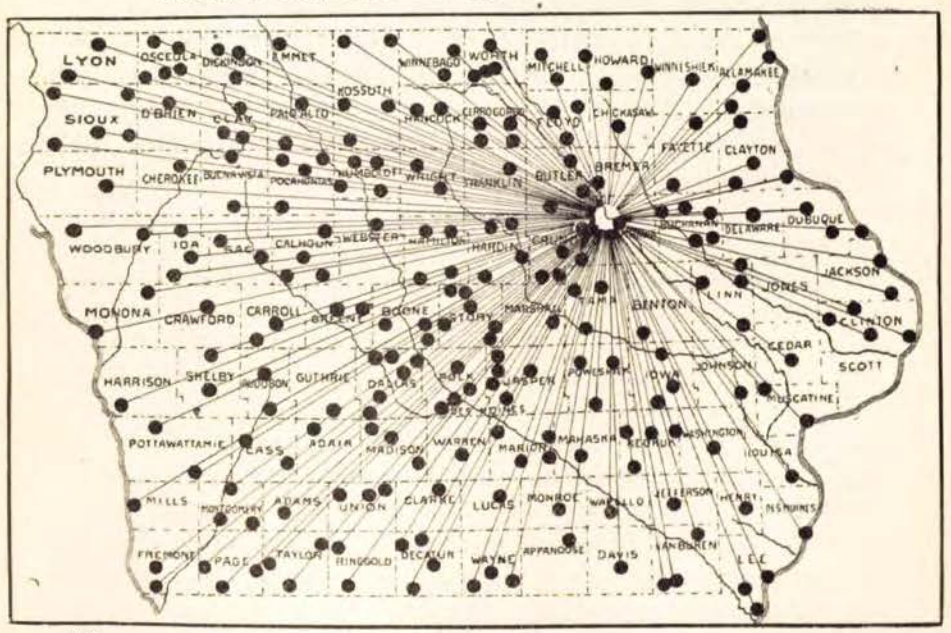
IOWA STATE TEACHERS COLLEGE
Cedar Falls, Iowa.

Location of Study Centers in 1914-15.



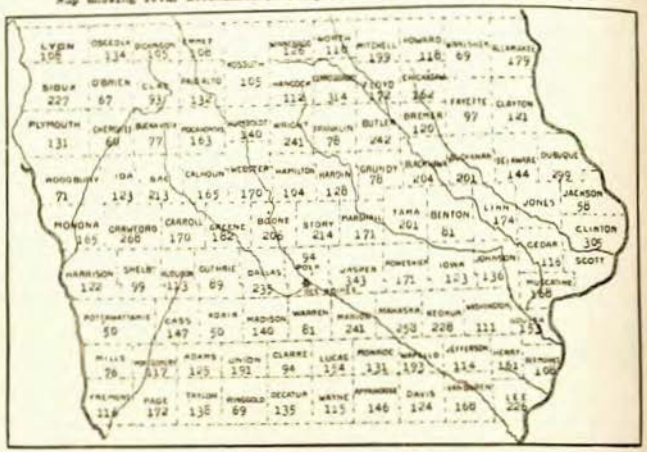
IOWA STATE TEACHERS COLLEGE
Cedar Falls, Iowa.

Location of Study Centers in 1915-16.



Iowa State Teachers College, Cedar Falls, Iowa.

Map Showing Total Attendance in Study Centers in each County for 1915-1916.



year 1915-16, the Study Centers then organized being more definitely conducted. Experience has given better judgment to the instructors and a better understanding to the teachers, and the meetings will be more frequent and better managed. The General Assembly should so increase the support fund for this work that its usefulness may be doubled.

THE SUMMER TERM.

This part of the year's work now consists of twelve weeks of instruction equivalent to that given during the other terms of the college year. This session is growing in importance from year to year, and the enrollment exceeds that of any other session of the College. This session unites with the extension service and gives extraordinary and superior privileges to teachers at work in the public schools during the rest of the year. It has been suggested by people in different parts of the State that the College should open branch schools in several places in the state where the students are more remote from the location of the College. This undertaking would be successful provided the work to be done by the branches consisted of the standard and vocational subjects most

demanded by the teachers in service and by those preparing for admision to examination for uniform county certificates. I recommend that such a policy be adopted for the next biennial period.

THE TRAINING OF RURAL TEACHERS.

The Teachers College now has in progress the largest and most important work for the training of rural teachers that exists in the United States. The courses of study provided are adapted to the standard requirements for the securing of uniform county certificates and also for graduation from an accredited high school. These two classes of students are given special instruction and training of the best character, by practical workers in rural school improvement; and by doing their laboratory teaching in demonstration rural schools under the sympathetic supervision of critics and supervisors of notable efficiency, they are brought into contact with actual rural conditions under good management. The growth in the interest in this well-organized attempt to do a most difficult work is shown by the increase in the number of candidates for graduation, by the rapidly developing enrollment of students deciding to train for rural work, and by the notable demand made by school boards for such teachers as have had the special training given by this department. During the first year, the rural work was confined to part of two civil townships, Waterloo and Cedar Falls; during the second year it included all the rural schools in these two civil townships and in Union township; and during the coming year, seven civil townships of Black Hawk County will be coöperating in the movement directed by the College for the improvement of rural schools and for the training of rural teachers. The size of this work, the results obtained, and the prospects of expansion and of appreciation by the people of the State, are very gratifying to those who are devoting themselves to the problems involved. There are no educational enterprises that demand more patience or more application and none that have higher consequences for returns than those identified with rural education.

AGRICULTURE AND THE PUBLIC SCHOOL TEACHERS.

The legislation of the State regarding the teaching of home economics, manual arts and agriculture in all public schools has placed an unusual duty upon public school teachers and an unusual demand upon the resources and the instructional staff of the Iowa State Teachers College. At times, more than a thousand teachers

have been receiving instruction of this special nature in a single year in home economics and in agriculture, and the practical needs of the College have been paramount to all other requirements. It is not a difficult problem to organize and conduct home economics, as the demands for more instructors, more laboratories and more materials for use can be readily provided. So far as agriculture is concerned, the problem is of wider application and involves more expenditure of money, since indoor laboratories are not sufficient to give acquaintance with this branch of study in all its complexities and specialties, and hence outdoor laboratories and nature at first hand become essential. The State Teachers College has forty acres of land for sites for its buildings and for its accessory campus and playgrounds, but it has not any assignable space for such field, garden and other demonstration work as the demand for these new forms of instruction requires. At the time of the organization of the College, it was not anticipated by the management that agriculture would become such an important branch in public school and teacher work; and hence no provision was made for land to be assigned to any such purpose. It becomes necessary for the State to purchase a tract of land near the College grounds that will give these opportunities for proper and practical instruction and thus place teacher work in agriculture on an effective basis.

THE INCREASED NEED OF THE NEXT PERIOD.

The attendance of students, the expansion of the undertakings, and the purpose of the institution as a contributing factor in the progress of public school education, make it of the highest importance that the equipment keep pace with the enlarged enterprises that are constantly developing from the public need. The annual permanent funds should be increased as follows:

1.	Teachers' Fund	$ 40,000.00
2.	Contingent Fund	24,500.00
3.	Summer Term Fund	2,000.00
4.	Extension Service Fund	10,000.00
5.	Library Fund	1,000.00
6.	Librarians' Salary Fund	1,000.00
7.	Hospital Fund	1,000.00
8.	Repair Fund	15,000.00

With the change of policy that came with the abandoning of the Millage Fund by the General Assembly, this special demand for a

Repair Fund becomes necessary. The amount designated is very small when the large plant is considered.

The biennial appropriations of a special nature cover the extension of the summer school as to location, the equipping of the new buildings, the improvement of the gymnasium and playgrounds, the requirement for land for agricultural demonstration and laboratory use, and the providing of additional dormitories for women and a dormitory for men.

To those who are aware of the size of the problems involved, the estimates that seem to be the minimum for the two years 1917-18 and 1918-19, are as follows:

1.	Extension Summer Work	$ 20,000.00
2.	Equipping Vocational Building	10,044.00
3.	Furnishing Women's New Dormitory	25,000.00
4.	Furnishing Training School Building	4,659.00
5.	Improving Gymnasium and Playgrounds	3,000.00
6.	Land for Agricultural Laboratory	20,000.00
7.	New Dormitories	150,000.00
		$232,703.00

THE NEED FOR INCREASE IN THE SUPPORT FUNDS.

The generosity of the State has been shown in the biennial appropriations made to the Teachers College. These liberal acts have permitted the Institution to make a progress that has not been equalled by similar insitutions in other states, and have given the College a reputation that ranks it among higher educational institutions equivalent to what the people of the State desire it to attain. While expressing appreciation of these progressive conditions, we wish to emphasize that an equally liberal policy must be continued. Every man and woman who comes to Cedar Falls to be educated for the work of teaching should be given the best and most perfect training that civilization affords, because these trained teachers are to instruct the children and the youth of the best people of the best State in the Union. The people of Iowa do not take second place in educational expenditures or educational endeavor, and that is the reason that the State does not take second place in prosperity, in development, in progress or in success.

REPORT OF THE REGISTRAR, IOWA STATE TEACHERS COLLEGE

C. S. CORY, REGISTRAR.

SUMMARY OF STUDENTS, 1914-1915.

	Men	Women	Total
College Graduates	11	34	45
College Course:			
Seniors	34	59	93
Juniors	28	72	100
Sophomores	48	88	136
Freshmen	47	139	186
Total	157	358	515
Diploma Courses:			
General	13	167	180
Primary	0	318	318
Home Economics	0	154	154
Kindergarten	0	52	52
Manual Arts	20	2	22
Public School Music	1	52	53
Commercial	6	15	21
Art	0	17	17
Physical Education	6	20	26
Total	46	797	843
Normal Diploma Courses:			
General	45	219	264
Primary	0	6	6
Manual Arts	1	1	2
Kindergarten	0	1	1
Public School Music	0	1	1
Rural	109	482	591
Total	155	710	865
Special Music Teacher Courses	4	37	41
Unclassified	67	1,126	1,193
Total Number of Students in All Courses	440	3,062	3,502

Training Department.

	Boys	Girls	Total
Advanced Training School Pupils	119	123	242
Primary Training School Pupils	29	28	57
Kindergarten Training School Pupils	11	18	29
Rural Demonstration Schools	113	133	246
Practice Classes—			
Home Economics—			
City High School	0	46	46
City Grades	0	60	60
Kindergarten—			
City	28	48	76
Total	300	456	756
Grand Total	740	3,518	4,258

SUMMARY OF STUDENTS, 1915-1916.

Classified According to Standard of Entrance.

	Men	Women	Total
I. Students with College Degrees	27	48	75
II. Students, graduates of Accredited High Schools, in Four Year College Courses:			
Seniors	39	70	109
Juniors	36	74	110
Sophomores	44	72	116
Freshmen	54	163	217
Total	173	379	552
III. Students, graduates of Accredited High Schools, in Two or Three-Year Diploma Courses:			
1 Third Years:			
Physical Education	0	3	3
2 Second Years:			
Junior College	8	103	111
Primary Teacher	0	147	147
Home Economics	0	76	76
Kindergarten	0	32	32
Public School Music	0	29	29
Manual Arts	12	1	13
Art	0	9	9
Commercial	2	7	9
Physical Education	3	13	16
Total	25	417	442
3 First Years:			
Junior College	9	138	147
Primary Teacher	0	202	202
Home Economics	0	93	93
Kindergarten	0	35	35
Public School Music	1	39	40
Manual Arts	19	1	20
Art	0	3	3
Commercial	3	11	14
Physical Education	0	13	13
Total	32	535	567
IV. Special Students	9	18	27
V. Students in Sub-Collegiate Courses:			
Rural Teachers Course	95	573	668
Normal Diploma Courses	55	262	317
Twelve Weeks' Normal Training	22	530	552
Unclassified	36	852	888
Total	208	2,217	2,425
VI. Special Music Courses:			
Piano	2	23	25
Voice	0	14	14
Violin	0	6	6
Other Orchestral and Band Instruments	0	2	2
Total	2	45	47
Total in all classifications	476	3,662	4,138

VII. Public School Pupils in Teaching Department:

	Boys	Girls	Total
On the campus	132	161	293
In the Schools of the City	42	143	185
In the Rural Demonstration Schools	150	205	355
Total	324	509	833

Classified as follows:

Campus—High School and Grades	226
Campus—Primary and Kindergarten	67
City—Home Economics, High School	8
City—Home Economics, Grades	89
Primary and Kindergarten	88
Country—Rural School Pupils	355
Grand Total for all Departments	833

VIII. Extension Service Enrollment:

County Study Centers	13,893
District Study Centers	1,371
Credit Study Centers	37
Total	15,301
Number counted twice	1,309
	13,992

Enrollment for—

	Men	Women	Total
Summer Term, 1915	235	2,059	2,294
Fall Term, 1915	244	1,497	1,741
Winter Term, 1915-16	291	1,382	1,673
Spring Term, 1916	245	1,304	1,549
Total individual enrollments for the year	476	3,662	4,138
Total individual enrollments for Fall, Winter and Spring combined	316	1,878	2,194

Candidates for Graduation. Students within a year of securing Diploma:

Bachelor of Arts in Education	110
Junior College	111
Primary Teacher	147
Home Economics	76
Kindergarten	32
Public School Music	29
Manual Arts	13
Art	9
Commercial	9
Physical Education	3
Teacher of Rural Schools	105
	644

FINANCES OF THE IOWA STATE TEACHERS COLLEGE

Report of the Secretary Regarding Receipts and Disbursements of all Funds from July 1, 1914, to June 30, 1916.

HAZEL E. BROWN, SECRETARY.

To the President:

I submit herewith my biennial report for two years ending June 30, 1916:

FINANCIAL STATEMENT TAKEN FROM THE RECORDS—SUPPORT OF SCHOOL FOR YEAR 1914-15.

Amounts on hand in the different funds, July 1, 1914:

Teachers Fund	.....	
Contingent Fund	$ 9,233.13	
Library Fund	3,764.92	
Librarians' Salary Fund	3,529.87	
Hospital Fund	65.78	
Millage Fund	11,182.92	
Paving Walks and Improvement Fund	350.81	
Students' Contingent Fund	25,779.76	
Summer Contingent Fund	3,236.26	
Commencement Contingent Fund	1,021.02	
General Fund	3,630.85	
Furniture Fund	422.96	
Summer Term Fund	5,000.00	$ 67,218.28

Received from State appropriations, for one year, 1914-15:

Teachers Fund, permanent	$129,500.00	
Contingent Fund, permanent	63,000.00	
Summer Term Fund, permanent	16,000.00	
Library Fund, permanent	5,000.00	
Librarians' Salary Fund, permanent	7,000.00	
Hospital Fund, permanent	1,250.00	
Millage Fund, one-tenth mill tax	85,000.00	
Paving, Walks and Improvement Fund	900.00	
Furniture Fund	2,500.00	$310,150.00

Received from other sources for one year, 1914-15:

Contingent Fund, Independent School District, Cedar Falls, tuition	$ 3,077.95	
Contingent Fund, District No. 5, tuition	973.72	
Contingent Fund, order No. 54, paid from Summer Contingent	30.00	
Students' Contingent Fund, fees collected	15,919.64	
Summer Contingent Fund, fees collected	3,686.40	
Commencement Contingent Fund, fees collected	696.00	
General Fund—		
Contingent Receipts	1,445.21	
Interest on general daily balance	1,313.84	
Millage Receipts	2.00	
Hospital Receipts	567.81	
Library Receipts	119.85	
Millage Fund—Order No. 337 not paid	4.50	$ 27,836.92

Transfers—No additional income:

From new Paving Fund to old Paving Fund	6.89

RESUME.

Amount on hand, July 1, 1914	$ 67,218.28	
From State appropriations	310,150.00	
From other sources	27,836.92	
Transfers	6.89	$405,212.09

SUPPORT OF SCHOOL FOR YEAR 1915-16.

Received from State appropriations, for one year, 1915-16:

Teachers Fund, permanent	$139,500.00	
Contingent Fund, permanent	70,000.00	
Summer Term Fund, permanent	40,000.00	
Library Fund, permanent	5,000.00	
Librarians' Salary Fund, permanent	8,500.00	
Hospital Fund, permanent	2,250.00	
Millage Fund	80,978.85	
Extension Service Fund, permanent	19,750.00	
Furniture Fund for Dormitory	15,000.00	
Paving Fund	1,600.00	
Building Fund	20,000.00	$402,578.85

Received from other sources for one year, 1915-16:

Contingent Fund, Independent School District of Cedar Falls, tuition	$ 3,267.87	
Contingent Fund, District No. 5, tuition	531.72	
Students' Contingent Fund, fees collected	25,318.01	
Summer Contingent Fund, fees collected	11,616.77	
Commencement Contingent Fund, fees collected	696.80	
Commencement Contingent Fund, plays	468.29	
General Fund—		
Contingent receipts	2,237.88	
Interest on general daily balance	1,576.30	
Hospital receipts	716.37	
Library receipts	147.21	
Millage receipts	29.31	
Order No. 11495, not paid	13.50	
Music Fund, from private music students	5,289.25	
Dormitory Fund, room rent	9,574.89	$ 61,484.17

Transfers—No additional income:

General to Librarians' Salary	$ 3.09	
Dormitory Furniture to Contingent	66.00	
Dormitory Furniture to Millage	19.50	88.59

RESUME.

Amount on hand, July 1, 1915	$ 47,613.76	
State appropriations	402,578.85	
Other sources	61,484.17	
Transfers between funds	88.59	$511,765.37

ITEMIZED EXPENDITURES, 1914-15.

Millage Fund:	
Dormitory	$ 72,084.87
Repairs	4,195.62
Power house	2,415.09
Training School	607.93
Vocational	8,879.94
Teachers' Fund:	
Salaries of teachers	129,500.00
Librarians' Salary Fund:	
Salaries of Library employes	10,359.39
Library Fund:	
Books and supplies	7,747.07

Hospital Fund:	
Expenses running hospital	1,139.01
Paving, Walks and Improvement Fund:	
For paving, walks and grading	1,087.35
Summer Term Fund:	
Salaries of teachers	20,694.85
Summer Contingent Fund:	
Summer Term lectures and entertainments	663.90
Furniture Fund:	
Furniture	938.29
Commencement Contingent Fund:	
Commencement expenses	831.59
English Department prizes	150.00
Students' Contingent Fund:	
Study Center per diem	5,512.26
Balance Teachers' salaries for year	17,796.75
Contingent Fund:	
Salaries, Superintendent's Department	20,347.34
Salaries, office	8,247.39
Fuel	13,017.08
Superintendent's Department	8,318.19
Printing	2,808.23
Office expenses	2,961.32
General use of Departments	1,341.71
Advertising	663.30
Home Economics	2,767.03
Physics and Chemistry	1,391.25
Training School	1,441.61
Natural Science	1,210.66
Manual Training	677.51
Music	1,044.80
Orchestral Music	98.66
Telephone and Telegraph	373.02
Physical Training	617.47
Rural Education	1,043.03
Commercial	147.26
Art	48.35
Government	10.50
Economics	7.38
Education	35.68
German and French	20.02
Latin and Greek	85.64
English	9.45
General Fund:	
Hospital expenses	345.05
Hospital salary	295.87
Librarians' salary, assistants	150.48
Employes, salary	2,641.66
Office supplies	15.00
Superintendent's Department, expenses	812.43
Total for year	$357,598.33

ITEMIZED EXPENDITURES, 1915-16.

First section Dormitory	$ 20,693.43
Second section Dormitory	6,245.40
Vocational	55,958.05
Repairs	5,434.38

Building Fund:	
Second section Dormitory	4,156.97
Vocational	6,133.45
Teachers' Fund:	
Salaries of teachers	139,500.00
Librarians' Salary Fund:	
Salaries of Library employes	7,209.30
Library Fund:	
Books and supplies	4,792.42
Hospital Fund:	
Expenses running Hospital	1,844.72
Paving, Walks and Improvement Fund:	
For paving, walks and grading	1,770.35
Summer Term Fund:	
Salaries of teachers	38,383.52
Summer Contingent Fund:	
Summer Term lectures and entertainments	129.41
Furniture Fund:	
Furniture	1,984.67
Dormitory Furniture:	
Furniture	11,002.08
Commencement Contingent Fund:	
Commencement expenses	787.53
English Department prizes	150.00
Students' Contingent Fund:	
Balance teachers' salaries for year	11,436.95
Study Centers	1,863.59
Dormitory Fund:	
Salaries of employes	2,613.12
Supplies	300.85
Extension Service Fund:	
Study Centers	16,815.30
Contingent Fund:	
Salaries, Superintendent's Department	19,035.17
Salaries, office employes	10,210.64
Fuel	14,588.73
Superintendent's Department	10,899.47
Home Economics	2,922.63
Training School	1,194.78
General use of Departments	1,422.50
Rural Education	1,147.02
Physical Training	1,660.73
Printing	1,945.06
Physics and Chemistry	1,458.75
Office	3,565.02
Manual Training	874.86
Music	533.44
Commercial	546.31
Advertising	257.10
Natural Science	516.52

Telephone and Telegraph	378.14
History	69.60
Government	12.60
Art	12.20
Education	14.61
Orchestral Music	99.98
Mathematics	46.43
Latin	2.98
English	1.95
General Fund:	
Employes, salary	2,757.08
Office supplies	92.58
Superintendent's Department, expenses	3,261.03
Librarians' salary	111.15
Athletics	419.60
Music Fund:	
Private Music Teachers, fees	3,549.75
Total for the year	$422,813.90

SALARIES OF TEACHERS FOR THE REGULAR SCHOOL YEAR OF THREE TERMS, 1914-15.

	Teachers' Fund	Students' Contingent	Total
Twelve Months.			
Homer H. Seerley, President	$ 4,200.00	$ 1,800.00	$ 6,000.00
C. S. Cory, Registrar	1,959.75	540.25	2,500.00
Mrs. Marion McFarland Walker, Dean of Women	1,250.00	250.00	1,500.00
Nine Months.			
Education:			
Chauncey P. Colegrove, Professor	2,430.00	270.00	2,700.00
Anna E. McGovern, Professor	1,260.00	140.00	1,400.00
Geo. W. Samson, Professor	1,800.00	200.00	2,000.00
G. W. Walters, Professor	1,800.00	200.00	2,000.00
Edith C. Buck, Professor	1,170.00	130.00	1,300.00
George H. Mount, Professor	1,710.00	190.00	1,900.00
Hugh S. Buffum, Professor	1,620.00	180.00	1,800.00
Teaching:			
C. W. Stone, Professor	2,160.00	240.00	2,400.00
Bruce Francis, Assistant Director	.....	.....	.....
Florence E. Ward, Supervisor of Kindergarten	1,065.75	140.00	1,205.75
Belle C. Scofield, Supervisor of Primary	980.00	420.00	1,400.00
H. L. Eells, Professor (Note.—Salary for nine months, $1,800.—$100 for organizing Study Centers during Summer vacation.)	1,720.00	180.00	1,900.00
Elizabeth Hughes, Professor	1,040.00	260.00	1,300.00
Ida Fesenbeck, Professor	1,170.00	130.00	1,300.00
Eva M. Luse, Professor	1,080.00	120.00	1,200.00
Mae Cresswell, Assistant Professor	990.00	110.00	1,100.00
Gertrude Dandliker, Asst. Professor	990.00	110.00	1,100.00
Floe E. Correll Assistant Professor	990.00	110.00	1,100.00
Etta M. Cramton, Assistant Professor	900.00	100.00	1,000.00
E. Grace Rait, Assistant Professor	765.00	85.00	850.00
Lou Shepherd, Asst. in Kindergarten	455.00	220.00	675.00
Eleanor Gray, Critic Teacher in Training	367.50	45.00	412.50
Alice Grier, Critic Teacher in Training	405.00	45.00	450.00
Lenna Landis, Critic Teacher in Training	324.00	36.00	360.00

Emma M. Rait, Critic Teacher in Training	405.00	45.00	450.00
Marguerite Uttley, Critic Teacher in Training	255.00	45.00	300.00
Elsie Williams, Critic Teacher in Training	315.00	135.00	450.00
Hazel Aldrich, Critic Teacher in Training	324.00	36.00	360.00
Frances Dearborn, Assistant in Primary Teaching	354.00	36.00	390.00
Margaret Flynn, Critic Teacher in Training	324.00	36.00	360.00
Lola Wells Hughes, Critic Teacher in Training	405.00	45.00	450.00
Fern Raymond, Assistant in Kindergarten	324.00	36.00	360.00
Marion Wyant, Assistant in Kindergarten	252.00	108.00	360.00
Lester C. Ary, Assistant	115.00	50.00	165.00
Christine Thoene, Assistant	198.00	.....	198.00
Vera Fluent, Assistant	.....	62.50	62.50
English:			
S. A. Lynch, Professor	2,070.00	230.00	2,300.00
W. W. Gist, Professor	1,800.00	200.00	2,000.00
Bertha Martin, Professor	1,530.00	170.00	1,700.00
John Barnes, Professor	1,530.00	170.00	1,700.00
Jennette Carpenter, Professor	1,350.00	150.00	1,500.00
Lillian V. Lambert, Professor	1,350.00	150.00	1,500.00
Eva L. Gregg, Assistant Professor	1,080.00	120.00	1,200.00
Laura E. Falkler, Asst. Professor	990.00	110.00	1,100.00
Mary F. Hearst, Assistant Professor	1,080.00	120.00	1,200.00
Margaret E. Oliver, Asst. Professor	990.00	110.00	1,100.00
Lenore Shanewise, Asst. Professor	910.00	390.00	1,300.00
Chloe Siner, Instructor	900.00	100.00	1,000.00
Ethel E. Newbecker, Instructor	300.00	.....	300.00
Flora Stookey, Instructor	225.00	.....	225.00
Rural Education:			
Macy Campbell, Professor	1,920.00	180.00	2,100.00
(Note.—Salary for nine months, months, $1,800—$300.00 for work during Summer vacation.)			
Irving H. Hart, Professor (11 mos.) (Salary for nine months, $1,800.00.)	2,200.00	.....	2,200.00
Tillie Thompson, Rural Demonstration School	35.00	.....	35.00
Sadie Thompson, Rural Demonstration School	37.50	.....	37.50
Jose Bosley, Rural Demonstration School	42.50	.....	42.50
Mary Oleson, Rural Demonstration School	40.00	.....	40.00
Kate Eldridge, Rural Demonstration School	40.00	.....	40.00
Elizabeth Kennedy, Rural Demonstration School	40.00	.....	40.00
Anna Millard, Rural Demonstration School	45.00	.....	45.00
Mary Alice Slee, Rural Demonstration School	45.00	.....	45.00
Laura Arthur, Rural Demonstration School	45.00	.....	45.00
Lulu Mills, Rural Demonstration School	40.00	.....	40.00
Sigrid Madsen, Rural Demonstration School	12.50	.....	12.50
Zada Dickerman, Rural Demonstration School	10.00	.....	10.00

J. B. Knoepfler, Professor	2,070.00	230.00	2,300.00
Charlotte Lorenz, Instructor	990.00	110.00	1,100.00
Clara Nolte, Instructor	810.00	90.00	900.00
Latin and Greek:			
Frank Ivan Merchant, Professor	2,070.00	230.00	2,300.00
Myra E. Call, Professor	1,260.00	140.00	1,400.00
Mathematics:			
Ira S. Condit, Professor	2,070.00	230.00	2,300.00
D. Sands Wright, Professor	1,800.00	200.00	2,000.00
Emma F. Lambert, Asst. Professor	1,080.00	120.00	1,200.00
Edna Allen, Instructor	900.00	100.00	1,000.00
Robert D. Daugherty, Instructor	900.00	100.00	1,000.00
Physics and Chemistry:			
Louis Begeman, Professor	2,070.00	230.00	2,300.00
S. Freeman Hersey, Professor	1,530.00	170.00	1,700.00
R. W. Getchell, Professor	1,350.00	150.00	1,500.00
J. Owen Perrine, Professor	1,440.00	160.00	1,600.00
O. B. Read, Instructor	1,080.00	120.00	1,200.00
Otis M. Weigle, Instructor	910.00	390.00	1,300.00
Alvin Tostlebe, Assistant	105.00	.....	105.00
Roy Davis, Assistant	70.00	.....	70.00
Herbert Hottman, Assistant	52.90	.....	52.90
Arthur McMahon, Assistant	7.10	.....	7.10
J. H. Boatman, Assistant	80.00	.....	80.00
Ira F. Heald, Assistant	5.50	.....	5.50
Ivan Powers, Assistant	25.00	.....	25.00
F. E. Sharp, Assistant	35.00	.....	35.00
Natural Science:			
M. F. Arey, Professor	1,890.00	210.00	2,100.00
G. W. Newton, Professor	1,800.00	200.00	2,000.00
E. J. Cable, Professor	1,710.00	190.00	1,900.00
Alison Aitchison, Assistant Professor	1,080.00	120.00	1,200.00
W. H. Davis, Professor	1,530.00	170.00	1,700.00
E. Laurence Palmer, Asst. Professor	1,260.00	140.00	1,400.00
Elizabeth F. Genung, Instructor	960.00	120.00	1,080.00
Roy L. Abbott, Assistant	25.00	.....	25.00
History:			
Sara M. Riggs, Professor	1,350.00	150.00	1,500.00
Sara F. Rice, Professor	980.00	420.00	1,400.00
Government:			
Charles H. Meyerholz, Professor	1,980.00	220.00	2,200.00
Henry J. Peterson, Asst. Professor	1,260.00	140.00	1,400.00
Economics:			
Reuben McKitrick, Professor	1,620.00	180.00	1,800.00
Waldo F. Mitchell, Instructor	1,080.00	120.00	1,200.00
Home Economics:			
Olive M. Young, Professor	1,440.00	160.00	1,600.00
Alice M. Heinz, Assistant Professor	1,080.00	120.00	1,200.00
Florence H. Freer, Instructor	810.00	90.00	900.00
Isabel M. Osborne, Instructor	900.00	100.00	1,000.00
Ida Roberts, Instructor	900.00	100.00	1,000.00
Julia L. Hurd, Instructor	729.00	81.00	810.00
Bertha Goff, Instructor	305.00	90.00	395.00
Music:			
C. A. Fullerton, Professor	2,070.00	230.00	2,300.00
John Ross Frampton, Professor	360.00	40.00	400.00
Anna Gertrude Childs, Professor	360.00	40.00	400.00
Gladys E. Hooper, Instructor	1,170.00	130.00	1,300.00

Grace Barr, Instructor	1,350.00	150.00	1,500.00
Grace C. Thomson, Instructor	560.00	240.00	800.00
Harriet Case, Professor, fees only	.....	.....	.....
Elisabeth Platner, Instructor, fees only	.....	.....	.....
Lowell E. M. Welles, Professor, fees only	.....	.....	.....
Orchestral Music:			
B. Winfred Merrill, Professor	1,170.00	130.00	1,300.00
F. L. McCreary, Instructor	260.00	20.00	280.00
Alma Cutler, Instructor, fees only	.....	.....	.....
Art:			
Henrietta Thornton, Professor	1,350.00	150.00	1,500.00
Bertha L. Patt, Professor	1,260.00	140.00	1,400.00
Effie Schuneman, Instructor	990.00	110.00	1,100.00
Mamie Christiansen, Assistant	40.00	.....	40.00
Manual Arts:			
Charles H. Bailey, Professor	2,070.00	230.00	2,300.00
Clark H. Brown, Instructor	1,170.00	130.00	1,300.00
Mrs. Alma L. McMahon, Instructor	900.00	100.00	1,000.00
Hawley J. Whitacre, Assistant	20.00	.....	20.00
Commercial Education:			
H. C. Cummins, Professor	1,260.00	140.00	1,400.00
Roy V. Coffey, Assistant Professor	1,170.00	130.00	1,300.00
Sebina McGrath, Assistant	145.00	55.00	200.00
Physical Education:			
R. F. Seymour, Professor	1,620.00	180.00	1,800.00
Marguerite M. Hussey, Asst. Professor	1,260.00	140.00	1,400.00
Allen P. Berkstresser, Instructor	1,080.00	120.00	1,200.00
Monica R. Wild, Instructor	810.00	90.00	900.00
Margaret Nisbet, Instructor	540.00	60.00	600.00
Esther Grantham, Instructor	585.00	65.00	650.00
	$129,500.00	$ 17,796.75	$147,296.75

SALARIES PAID SUMMER TERM, 1914.

Edna Allen, Mathematics	$ 166.67
Alison Aitchison, Natural Science	210.00
M. F. Arey, Natural Science	350.00
Amy Arey, Teaching	250.00
Charles H. Bailey, Manual Training	383.33
Louis Begeman, Physics and Chemistry	383.33
Allen P. Berkstresser, Physical Education	200.00
Clark H. Brown, Manual Training	200.00
John Barnes, English	290.00
Perry A. Bond, Physics and Chemistry	250.00
Miriam Woolson Brooks, History	200.00
Edith C. Buck, Education (for 1915)	72.22
Macy Campbell, Rural Education	300.00
E. J. Cable, Natural Science	330.00
Floe E. Correll, Teaching	166.67
Roy V. Coffey, Commercial	216.67
C. P. Colegrove, Education	400.00
Ira S. Condit, Mathematics	383.33
E. K. Chapman, Physics and Chemistry	320.00
Myra E. Call, Latin	250.00
Jennette Carpenter, English	250.00
H. C. Cummins, Commercial	250.00
Sudah Cohoon, Teaching	100.00
George S. Dick, Teaching	400.00
R. D. Daugherty, Mathematics	200.00
W. H. Davis, Natural Science	283.33
H. L. Eells, Teaching	300.00
C. A. Fullerton, Music	383.33
Laura E. Falkler, English	183.33
John Ross Frampton, Music	30.00

Florence H. Freer, Home Economics	133.33
Bruce Francis, Economics	275.00
Ida Fesenbeck, Teaching	230.00
Eleanor Gray, Teaching	75.00
W. W. Gist, English	350.00
Eva L. Gregg, English	220.00
Grace Gail Giberson, Music	183.33
Bertha Goff, Home Economics	141.67
Irving H. Hart, Education	200.00
George Hendrickson, Natural Science	50.00
Marguerite M. Hussey, Physical Education	240.00
Mary F. Hearst, English	210.00
S. Freeman Hersey, Physics and Chemistry	320.00
Alice M. Heinz, Home Economics	166.67
Elizabeth Hughes, Teaching	230.00
Anna Iverson, Art	150.00
Alice Jennings, Natural Science	200.00
J. B. Knoepfler, German and French	383.33
Karl Knoepfler, Economics	160.00
Iris Livingston, Home Economics	100.00
S. A. Lynch, English	383.33
Emma F. Lambert, Mathematics	210.00
Charlotte Lorenz, German and French	183.33
Eva May Luse, Teaching	200.00
Sebina McGrath, Commercial	56.00
Frank Ivan Merchant, Latin	383.33
Charles H. Meyerholz, Government	350.00
Reuben McKitrick, Economics	290.00
B. Winfred Merrill, Orchestral Music	260.00
Alma McMahon, Manual Training	200.00
F. L. McCreary, Orchestral Music	.33.33
George H. Mount, Education	300.00
Anna E. McGovern, Education	270.00
Bertha Martin, English	290.00
W. T. Morgan, Government	200.00
G. W. Newton, Natural Science	350.00
Margaret E. Oliver, English	183.33
J. Owen Perrine, Physics and Chemistry	266.67
E. Lawrence Palmer, Natural Science	233.33
Bertha L. Patt, Art	250.00
Henry J. Peterson, Government	200.00
Maybelle Rathes, Physical Education	75.00
Sara M. Riggs, History	250.00
O. B. Read, Physics and Chemistry	200.00
Sara F. Rice, History	250.00
Lou Shepherd, Teaching	75.00
Lee Shillinglaw, History	150.00
Lulu Stallman, Home Economics	150.00
R. F. Seymour, Physical Education	310.00
Clifford W. Stone, Education	300.00
Hulda Stenwall, Music	210.00
Henrietta Thornton, Art	250.00
Marguerite Uttley, Teaching	75.00
E. E. Watson, Mathematics	233.33
Monica R. Wild, Physical Education	133.33
D. Sands Wright, Mathematics	350.00
G. W. Walters, Education	350.00
Florence E. Ward, Teaching	270.00
Olive M. Young, Home Economics	250.00
	$ 20,694.85

LIBRARIANS' SALARY FUND, 1914-15.

	General Fund		Total
Anna Stuart Duncan, Librarian	$ 1,600.00		$ 1,600.00
Ruby Charlton, Assistant Librarian	1,034.25		1,034.25
Ruth Woolman, Cataloger	940.00		940.00
Hazel Askey, Assistant Cataloger	677.50		677.50
Mary E. Burton, Assistant in Library	785.00		785.00
Ethel Arey, Assistant in Library	40.00		40.00
Helen Taggart, Assistant in Library	717.50		717.50
Mary E. Martin, Assistant in Library	495.00		495.00
Catherine Aylesworth, Asst. in Library	67.09		67.09
Terrence Black, Assistant in Library	108.80	$ 6.82	$ 115.62
John Briden, Assistant in Library	20.40		20.40
Dorothy Bolch, Assistant in Library	15.07		15.07

Alice Bailey, Assistant in Library	11.70		11.70
Constance Buswell, Assistant in Library	101.52	3.87	105.39
Lena Pearl Bennett, Assistant in Library	11.72		11.72
Hazel Clark, Assistant in Library	73.81		73.81
Edith Curray, Assistant in Library	78.43		78.43
J. H. Cummins, Assistant in Library	20.40		20.40
Kenneth Cotton, Assistant in Library	200.18	11.22	211.40
Freda Cohoon, Assistant in Library	7.12		7.12
Florence Elser, Assistant in Library	321.13	22.17	343.30
Effie Eckholm, Assistant in Library	150.87	8.64	159.51
E. Herman Erickson, Assistant in Library	77.98		77.98
Ruth Egbert, Assistant in Library	6.79		6.79
Paul Farlow, Assistant in Library	76.42	6.70	83.12
Roderick Fullerton, Assistant in Library	38.83	4.70	43.53
Nell Galloway, Assistant in Library	51.83		51.83
Nelson Hersey, Assistant in Library	170.91	11.77	182.68
Anna Hansen, Assistant in Library	75.53	3.70	79.23
Florence Imlay, Assistant in Library	8.02		8.02
Ella Imlay, Assistant in Library	12.60		12.60
Nell Kinney, Assistant in Library	67.25		67.25
Marie Krueger, Assistant in Library	26.96		26.96
Cecil Knox, Assistant in Library	103.61	5.61	109.22
Faith Kiddoo, Assistant in Library	18.13		18.13
Anna Linter, Assistant in Library	12.23		12.23
Arthur McMahon, Assistant in Library	10.95		10.95
Ivan Mast, Assistant in Library	21.56		21.56
Nell McIntosh, Assistant in Library	4.22		4.22
Ethel Mitchell, Assistant in Library	24.45		24.45
Harold Shoemaker, Assistant in Library	257.44	17.95	275.39
Paul Shoemaker, Assistant in Library	185.44	13.85	199.29
Mina Schnepf, Assistant in Library	305.52	19.12	324.64
Floyd Walsh, Assistant in Library	153.49	4.57	158.06
Nell Young, Assistant in Library	97.17		97.17
Mary Yates, Assistant in Library	45.80	2.52	48.32
Grace Yates, Assistant in Library	68.77	7.27	76.04
R. P. Rasmussen, Janitor in Library	300.00		300.00
C. A. Bozarth, Janitor in Library	180.00		180.00
W. J. Watters, Janitor in Library	480.00		480.00
	$ 10,359.39	$ 150.48	$ 10,509.87

SALARIES PAID EMPLOYEES, YEAR 1914-15.

		General Fund	Total
Lilian G. Goodwin, Secretary of the College	$ 1,375.00	$ 125.00	$ 1,500.00
Anna R. Wild, Executive Secretary	1,375.00	125.00	1,500.00
Beatrice Wilbur, Assistant Secretary in College Office and Assistant to Registrar	880.00	80.00	960.00
Hazel E. Brown, Assistant Secretary of College	778.00	75.00	853.00
Genevieve Burling, Record Clerk	715.00	65.00	780.00
Evelyn Morton, Stenographer in College Office	390.00		390.00
Edna Sandford, Stenographer in College Office	644.00	60.00	704.00
Roxana Wellman, Stenographer in College Office	550.00	50.00	600.00
Beth Wellman, Stenographer in College Office	495.00	45.00	540.00
Marian Jenkins, Stenographer in College office	195.20	40.00	235.20
Blanche Schilling, Stenographer in College Office	76.86		76.86
Rowena Wellman, Stenographer in College Office	90.00		90.00
Ruth Daubenberger, Clerk in College Office	440.00	40.00	480.00
Lillian Hartleip, Stenographer in College Office	93.33	40.00	133.33
Gladys Jones, Stenographer in College Office	64.00		64.00
Nellie Bardeen, Stenographer in College Office	26.00		26.00
Lily Robinson, Assistant in College Office	60.00		60.00

J. E. Robinson, Superintendent	2,016.67	183.33	2,200.00
J. F. Swope, Electrician	1,375.00	125.00	1,500.00
Hans Rasmussen, Engineer	916.67	83.33	1,000.00
M. T. Coleman, Plumber	760.00	95.00	*950.00
G. E. Palmer, Plumber	720.00	90.00	†900.00
A. P. Christensen, Carpenter	825.00	75.00	900.00
H. C. Hansen, Carpenter	825.00	75.00	900.00
Ward Pierce, Fireman	770.00	70.00	840.00
Henry Barnes, Fireman	770.00	70.00	840.00
William Orvis, Fireman	360.00	60.00	420.00
William Wallace, Fireman	660.00	60.00	720.00
S. J. Smith, Fireman	567.00	60.00	627.00
A. M. Cleveland, Night Watchman	660.00	60.00	720.00
Robert Billings, Yardman	660.00	60.00	720.00
T. N. Justice, Janitor	660.00	60.00	720.00
H. C. Harmon, Janitor	660.00	60.00	720.00
H. L. Stech, Janitor	660.00	60.00	720.00
Philip Seltenrich, Janitor	660.00	60.00	720.00
J. W. Bangs, Janitor	660.00	60.00	720.00
Wm. Stevenson, Janitor	660.00	60.00	720.00
Elmer Maxson, Janitor	660.00	60.00	720.00
John McLain, Janitor	660.00	60.00	720.00
Clarence Cunning, Janitor	660.00	60.00	720.00
A. B. Lewis, Janitor	415.00	60.00	475.00
S. R. Dryden, Janitor	540.00	60.00	600.00
R. P. Rasmussen, Janitor	60.00		60.00
James Kelley, Janitor	180.00		180.00
Grant McCreery, Janitor	172.00		172.00
W. J. Waters, Janitor	240.00		240.00
Wm. McChane, Janitor	120.00		120.00
M. F. Ravlin, Janitor	55.00		55.00
Mrs. T. N. Justice, Matron Gymnasium	300.00	30.00	330.00
Mrs. Anna Putney, Laboratory Maid, Home Economics	440.00	40.00	480.00
	$ 28,594.73	$ 2,641.66	$ 31,421.39

Hospital Fund, 1914-15:		General Fund	Total
Mrs. Anna M. Potter, Matron	$ 304.13	$ 295.87	$ 600.00

Millage Fund, 1914-15:

M. T. Coleman, Plumber	$ 95.00
G. E. Palmer, Plumber	90.00
	$ 185.00

SALARIES OF TEACHERS FOR THE REGULAR SCHOOL YEAR OF THREE TERMS, 1915-16.

	Teachers' Fund	Students' Contingent	Deducted for Institute Work	Total
Twelve Months.				
Administration:				
Homer H. Seerley, President	$ 5,400.00	$ 600.00		$ 6,000.00
Charles S. Cory, Registrar	2,099.97	700.03		2,800.00
Mrs. Marion McFarland Walker, Dean of Women	1,274.94	425.06		1,700.00
Nine Months.				
Education:				
C. P. Colegrove, professor	1,185.00			1,185.00
G. W. Walters, professor	1,200.00	827.75		2,027.75
Anna E. McGovern, professor	1,400.00			1,400.00
Geo. W. Sampson, professor	1,577.78	400.00	$ 22.22	2,000.00
Edith C. Buck, professor	1,300.00			1,300.00
Geo. H. Mount, professor	1,900.00			1,900.00
Hugh S. Buffum, professor	1,850.00			1,850.00

*This total includes $95.00 paid from Millage Fund.
†This total includes $90.00 paid from Millage Fund.

	Teachers' Fund	Students' Contingent	Deducted for Institute Work	Total
Teaching:				
C. W. Stone, professor...	1,880.01	480.00	39.99	2,400.00
A. H. Speer, assistant director	180.00	120.00		300.00
Belle C. Scofield, supervisor of primary.....	1,050.07	272.23	77.70	1,400.00
Corinne Brown, supervisor of kindergarten.	1,400.00			1,400.00
Elizabeth Hughes, professor	1,003.25		15.54	1,018.79
Ida Fesenbeck, professor	1,376.69		23.31	1,400.00
Eva May Luse, professor	1,278.34		21.66	1,300.00
Mae Creswell, assistant professor	1,100.00			1,100.00
Floe E. Correll, assistant professor	1,186.68		13.32	1,200.00
E. Grace Rait, assistant professor	580.00		20.00	600.00
Lou Shepherd, instructor	377.88	320.00		697.88
Julia Hurd, instructor...	1,000.00			1,000.00
Frances Dearborn, instructor	585.00			585.00
Russell Glasener, instructor	1,100.00			1,100.00
Hazel Aldrich, critic in training	450.00			450.00
Margaret Flynn, critic in training	300.00			300.00
Lenna Landis, critic in training	450.00			450.00
Edna Liek, critic in training	360.00			360.00
Genevieve Staudt, critic in training	288.00	72.00		360.00
Sadie Tow, critic in training	288.00	72.00		360.00
Letty Walsh, critic in training	360.00	90.00		450.00
Gladys Woodman, critic in training	30.00			30.00
Fern Raymond, assistant	348.00	36.00		384.00
Edith Cross, assistant...	40.00			40.00
Dorothy Cooledge, assistant	217.50			217.50
Eulalia Turner, assistant	35.00	5.00		40.00
Mary Murphy, assistant.	35.00	5.00		40.00
Alice Dixon, assistant...	375.00	56.25		431.25
Nellie Cooper, assistant.	142.50	30.00		172.50
Amy Arey, instructor...	186.66			186.66
Margaret Condit, critic in training	120.00			120.00
Mary C. Moses, instructor	300.00			300.00
Nina Baumgardner, assistant	17.50	5.00		22.50
Nell Tompkins, assistant	80.00	40.00		120.00
Mamie Christiansen, critic in training	132.00			132.00
English:				
S. A. Lynch, professor...	1,533.33			1,533.33
W. W. Gist, professor...	2,000.00			2,000.00
Bertha Martin, professor	1,530.00	170.00		1,700.00
John Barnes, professor..	1,681.12		18.88	1,700.00
Jennette Carpenter, professor	1,500.00			1,500.00
Lillian V. Lambert, professor	1,500.00			1,500.00
Eva L. Gregg, assistant professor	1,200.00			1,200.0
Laura E. Falkler, assistant professor	1,100.00			1,100.00

	Teachers' Fund	Students' Contingent	Deducted for Institute Work	Total
Margaret E. Oliver, assistant professor	990.00	110.00		1,100.00
Lenore Shanewise, assistant professor	1,040.00	260.00		1,300.00
Chloe Siner, assistant professor	880.00	220.00		1,100.00
W. B. Fagan, assistant professor	1,300.00			1,300.00
Jennie G. Hutchison, instructor	1,000.00			1,000.00
Ruth Wright, instructor.	300.00			300.00
Rural Education:				
Macy Campbell, professor	1,704.83		195.17	1,900.00
H. L. Eells, professor...	1,670.00		130.00	1,800.00
I. H. Hart, professor....	1,790.00		10.00	1,800.00
J. C. McGlade, professor.	1,435.00	160.00	125.00	1,720.00
Laura Arthur, assistant.	45.00			45.00
Anna Millard, assistant..	45.00			45.00
Alice Jennings, assistant	45.00			45.00
Isabel Upham, assistant.	42.50			42.50
Laura Skow, assistant...	42.50			42.50
Annamae Gorman, assistant	42.50			42.50
Ruth Fagan, assistant...	45.00			45.00
Myrtle Blair, assistant...	45.00			45.00
Beulah Scott, assistant..	30.00			30.00
Anna Cordts, assistant..	45.00			45.00
Myra Bozarth, assistant.	40.00			40.00
Kate Eldridge, assistant.	45.00			45.00
Elna Christiansen, assistant	45.00			45.00
Mrs. Sadie Thompson, assistant	42.50			42.50
Laura Grau, assistant...	42.50			42.50
Charles Perrott, assistant	37.50			37.50
Frances Sage, assistant..	15.00			15.00
German and French:				
J. B. Knoepfler, professor	2,300.00			2,300.00
Charlotte Lorenz, assistant professor	1,100.00			1,100.00
Clara Nolte, instructor..	810.00	90.00		900.00
Mina Schnepf, assistant.	212.60	75.00		287.60
Latin and Greek:				
Frank Ivan Merchant, professor	2,070.00	230.00		2,300.00
Myra E. Call, professor..	1,400.00			1,400.00
Mathematics:				
Ira S. Condit, professor.	2,300.00			2,300.00
D. Sands Wright, professor	1,600.00	400.00		2,000.00
Emma F. Lambert, assistant professor	1,300.00			1,300.00
Edna Allen, instructor...	959.47			959.47
Robert D. Daugherty, assistant professor	1,200.00			1,200.00
Effie Raymond, assistant	50.00			50.00
Helen Packard, assistant	100.00			100.00
Physics and Chemistry:				
Louis Begeman, professor	2,300.00			2,300.00
S. Freeman Hersey, professor	1,700.00			1,700.00
R. W. Getchell, professor	1,500.00			1,500.00
Perry A. Bond, professor	1,500.00			1,500.00
O. B. Read, instructor...	1,080.00	120.00		1,200.00
Paul Warttman, assistant	69.25			69.25

	Teachers' Fund	Students' Contingent	Deducted for Institute Work	Total
Ivan Powers, assistant...	70.00			70.00
Adrian Garnet, assistant.	98.70			98.70
Alvin Tostlebe, assistant	38.05	8.00		46.05
John Briden, assistant...	25.00			25.00
J. H. Boatman, assistant.	400.00			400.00
Natural Science:				
M. F. Arey, professor....	2,100.00			2,100.00
G. W. Newton, professor.	1,800.00	200.00		2,000.00
E. J. Cable, professor...	2,000.00			2,000.00
Alison E. Aitchison, professor	1,300.00			1,300.00
E. Lawrence Palmer, professor	1,316.68	150.00	33.32	1,500.00
F. W. Oldenberg, instructor	1,440.00	160.00		1,600.00
R. C. Salter, instructor..	960.00	240.00		1,200.00
George Hendrickson, instructor	866.66	120.00		986.66
Ira F. Heald, assistant..	126.00			126.00
History:				
Sara M. Riggs, professor	1,350.00	150.00		1,500.00
Sara F. Rice, professor..	1,252.23	140.00	7.77	1,400.00
Elizabeth Pearce, instructor	816.66	100.00		916.66
Government:				
Charles H. Meyerholz, professor	1,845.58	220.00	134.42	2,200.00
Henry J. Peterson, assistant professor.....	1,285.35	140.00		1,425.35
Economics:				
Reuben McKitrick, professor	1,710.00	190.00		1,900.00
Waldo F. Mitchell, instructor	1,170.00	130.00		1,300.00
Home Economics:				
Olive M. Young, professor	942.24	640.00	17.76	1,600.00
Florence H. Freer, instructor	790.00			790.00
Isabel M. Osborne, assistant professor.....	426.71		39.96	466.67
Ida Roberts, assistant professor	1,053.36	120.00	26.64	1,200.00
Iris Livingston, instructor	631.13			631.13
Hazel Johnson, instructor	427.50	122.50		550.00
Edith Allen, assistant professor	733.33			733.33
Clara Pancake, instructor	1,080.00	120.00		1,200.00
Mrs. J. M. Egloff, assistant	100.00			100.00
Bertha Hansen, instructor	75.00			75.00
Music:				
C. A. Fullerton, professor	2,185.07		114.93	2,300.00
John Ross Frampton, professor	400.00			400.00
Anna Gertrude Childs, professor	400.00			400.00
Grace Barr, professor...	1,483.34		16.66	1,500.00
Harriet Case, professor..	Fees only			

Lowell E. M. Welles, professor	Fees only			
Gladys Hooper, assistant professor	1,300.00			1,300.00
Grace C. Thomson, instructor	533.33			533.33
Ernest R. Zechiel, instructor	80.00	186.67		266.67
Elizabeth Platner, instructor, fees only....				
Orchestral Music:				
B. Winfred Merrill, professor	1,170.00	130.00		1,300.00
F. L. McCreary, instructor	360.00	40.00		400.00
Art:				
Henrietta Thornton, professor	650.00	350.00		1,000.00
Bertha L. Patt, professor	1,293.33	140.00		1,433.33
Effie Schuneman, instructor	788.77	268.46	42.77	1,100.00
Bertha Goffe, instructor.	333.33			333.33
Elsie Whitford, assistant	40.00			40.00
Adelaide Thein, assistant	40.00			40.00
Manual Arts:				
Charles H. Bailey, professor	2,300.00			2,300.00
Clark H. Brown, instructor	1,271.12		28.88	1,300.00
Gertrude Dandliker, instructor	1,100.00			1,100.00
H. J. Whitacre, assistant	34.80			34.80
Lee Dunlap, assistant...	11.75			11.75
Wilmer Willson, assistant	13.50			13.50
Commercial Education:				
H. C. Cummins, professor	1,400.00			1,400.00
Alice B. Hoskin, instructor	1,300.00			1,300.00
Sebina McGrath, assistant	300.00			300.00
Physical Education:				
R. F. Seymour, professor	1,080.00	720.00		1,800.00
Marguerite M. Hussey, assistant professor....	1,392.23		7.77	1,400.00
Allen P. Berkstresser, instructor	1,200.00			1,200.00
Monica R. Wild, instructor	720.00	180.00		900.00
Esther Grantham, instructor	750.00			750.00
Margaret Nisbet, assistant	720.00	80.00		800.00
Doris White, instructor..	377.88			377.88
	$139,500.00	$ 11,436.95	$ 1,183.67	$152,120.62

SALARIES PAID SUMMER TERM, 1915.

	6 Weeks	12 Weeks
W. O. Abrams, Manual Training.....		$ 400.00
Edna Allen, Mathematics.....		333.32
M. F. Arey, Natural Science.....		700.00
Alison E. Aitchison, Natural Science.....		400.00
Amy F. Arey, Teaching.....		433.32
Hugh S. Buffum, Education.....		600.00
C. H. Bailey, Manual Arts.....		766.66
Clark H. Brown, Manual Arts.....		433.32
Louis Begeman, Physics and Chemistry.....		766.66

Perry A. Bond, Physics and Chemistry		375.00
John Barnes, English		566.66
Ernest D. Bloom, Natural Science		200.00
Macy Campbell, Rural Education		600.00
Ira S. Condit, Mathematics		766.66
Emmett J. Cable, Natural Science		633.32
Harry C. Cummins, Commercial Education		466.66
Roy V. Coffey, Commercial Education		324.99
Robert D. Daugherty, Mathematics		333.32
Wm. H. Davis, Natural Science		566.66
Harry L. Eells, Rural Education		600.00
John Ross Frampton, Music		60.00
Florence Freer, Home Economics		300.00
C. A. Fullerton, Music		766.66
Robert W. Getchell, Physics and Chemistry		375.00
W. W. Gist, English		666.66
M. H. Hepp, Manual Training		403.34
Irving H. Hart, Rural Education		400.00
Julia L. Hurd, Home Economics		270.00
S. Freeman Hersey, Physics and Chemistry		566.66
Mary F. Hearst, English		400.00
Elizabeth Hughes, Teaching		433.32
Gladys Hooper, Vocal Music		433.32
George Hendrickson, Natural Science		200.00
Marietta Hostrop, Home Economics		40.50
John B. Knoepfler, German and French		766.66
Samuel A. Lynch, English		766.66
Iris Livingston, Home Economics		300.00
Eva May Luse, Teaching		400.00
F. L. McCreary, Orchestral Music		133.32
Anna E. McGovern, Education		466.66
George H. Mount, Education		569.97
Frank Ivan Merchant, Latin and Greek		766.66
Reuben McKitrick, Economics		600.00
Waldo F. Mitchell, Economics		400.00
Alma L. McMahon, Manual Training		333.32
Chas. H. Meyerholz, Government		733.32
B. Winfred Merrill, Orchestral Music		433.32
Bertha Martin, English		566.66
G. W. Newton, Natural Science		666.66
Isabel M. Osborne, Home Economics		333.32
Margaret E. Oliver, English		366.66
F. W. Oldenburg, Natural Science		400.00
J. Owen Perrine, Physics and Chemistry		533.32
E. Lawrence Palmer, Natural Science		466.66
Henry J. Peterson, Government		466.66
Louis Pelzer, History		500.00
Sara M. Riggs, History		500.00
Ida Roberts, Home Economics		333.32
E. Grace Rait, Teaching		226.66
R. F. Seymour, Physical Education		600.00
Effie Schuneman, Art		366.66
Chloe Siner, English		333.32
Cliff W. Stone, Teaching		800.00
Esther Shoemaker, Home Economics		150.00
R. L. Salter, Natural Science		366.66
Henrietta Thornton, Art		500.00
Maude Thompson, Home Economics		217.50
G. W. Walters, Education		666.66
E. E. Watson, Mathematics		466.66
Olive M. Young, Home Economics		533.32
Allen P. Berkstresser, Physical Education	$ 200.00	
Grace Barr, Music	191.65	
Rodney Babcock, Mathematics	150.00	
Corinne Brown, Teaching	233.33	
Ethel Brown, Home Economics	114.00	
Bernice Brady, Home Economics	32.25	
G. H. Brinegar, Government	35.00	
Chauncey P. Colegrove, Education	400.00	
Jennette Carpenter, English	250.00	
Mae Cresswell, Teaching	183.33	
Hazel Chambers, Home Economics	98.00	
Florence Chenoweth, Home Economics	72.50	
George E. Corson, Natural Science	120.00	
Zada Dickerman, Rural Education	9.00	
Alice Dixon, Teaching	87.50	

Mildred Druet, Home Economics	30.00	
Bruce Francis, Economics	180.00	
Ida Fesenbeck, Teaching	216.66	
Gale Frink, Natural Science	112.50	
Esther Grantham, Physical Education	108.33	
Marguerite Hussey, Physical Education	233.33	
Mary Heckel, Home Economics	67.50	
Jacob Johnson, Manual Training	235.00	
Hazel Johnson, Home Economics	21.00	
Charlotte M. Lorenz, German	183.33	
Lucile McRobert, Home Economics	19.50	
Margaret Nisbet, Physical Education	100.00	
Bertha L. Patt, Art	233.33	
Elizabeth Pearce, History	200.00	
O. B. Read, Physics and Chemistry	200.00	
Lou Shepherd, Teaching	72.22	
Genevieve Staudt, Teaching	40.00	
Geo. W. Samson, Education	333.33	
Estella Sheldon, Natural Science	100.00	
Laura Shoemaker, Teaching	75.00	
Mina Schnepf, German and French	35.00	
Grace C. Thomson, Music	140.00	
D. Sands Wright, Mathematics	333.33	
Gayla Woodring, Art	60.00	
Ada Wilcox, Home Economics	115.00	
Monica R. Wild, Physical Education	150.00	
	$ 5,770.92	$ 32,612.60

LIBRARIANS' SALARY FUND, 1915-16.

		General Fund	Total
Anne Stuart Duncan, Librarian	$ 1,639.85		$ 1,639.85
Ruby Charlton, Assistant Librarian	823.40	$ 50.00	873.40
Hazel Askey, Assistant Cataloger	790.80		790.80
Mary E. Martin, Assistant in Library	507.70		507.70
Mary E. Burton, Assistant in Library	675.00	37.50	712.50
Helen Taggart, Assistant in Library	600.00		600.00
Rowena Edwards, Assistant Cataloger	220.75		220.75
Constance Buswell, Assistant in Library	26.31		26.31
Paul Farlow, Assistant in Library	8.71		8.71
Nelson Hersey, Assistant in Library	161.90		161.90
Mina Schnepf, Assistant in Library	153.39		153.39
Harold Shoemaker, Assistant in Library	295.56		295.56
Paul Shoemaker, Assistant in Library	201.08		201.08
Floyd Walsh, Assistant in Library	249.79		249.79
Catherine Aylesworth, Assistant in Library	18.13		18.13
Kenneth Cotton, Assistant in Library	37.65		37.65
Edith Curray, Assistant in Library	61.78		61.78
James Degnau, Assistant in Library	76.67		76.67
Florence Elser, Assistant in Library	121.94	12.23	134.17
Roderick Fullerton, Assistant in Library	40.77		40.77
Nell Galloway, Assistant in Library	57.65		57.65
Howard Lanckton, Assistant in Library	106.77		106.77
Mihran Mardigian, Assistant in Library	138.76		138.76
Nell Young, Assistant in Library	143.18	8.33	151.51
Alma Aspen, Assistant in Library	32.62		32.62
G. F. Bailey, Assistant in Library	5.32		5.32
Bruce McCreary, Assistant in Library	13.82		13.82
Transferred from General Fund to Librarians' Salary Fund		3.09	
	$ 7,209.30	$ 111.15	$ 7,320.45

SALARIES PAID EMPLOYEES, YEAR 1915-16.

Lilian G. Goodwin, Secretary	$ 212.49	$ 212.49
Anna R. Wild, Executive Secretary	1,700.00	1,700.00
Beatrice Wilbur, Assistant Secretary in College Office and Assistant to Registrar	1,080.00	1,080.00
Hazel E. Brown, Acting Secretary	1,150.00	1,150.00
Edna Sanford, Stenographer	780.00	780.00

		General Fund	Total
Roxana Wellman, Stenographer	780.00		780.00
Blanche Schilling, Stenographer	366.25		366.25
Ella N. Tabor, Stenographer	450.00		450.00
Marie J. Smith, Record Clerk	486.00		486.00
Hazel Wilson, Stenographer	345.00		345.00
Marian Jenkins, Stenographer	610.00		610.00
Pearl V. Brown, Stenographer	579.25		579.25
Alma Van Horn, Clerk	192.50		192.50
Evelyn Morton, Stenographer	260.00		260.00
Maude Messier, Stenographer	143.00		143.00
Beth Wellman, Stenographer	168.00		168.00
Genevieve Burling, Record Clerk	420.00		420.00
Rowena Wellman, Stenographer	100.00		100.00
Ruth Daubenberger, Clerk	99.55		99.55
Adelaide Kegler, Stenographer	95.25		95.25
Helen Miller, Clerk	193.35		193.35
Ora Barker, Stenographer		$ 38.75	38.75
J. E. Robinson, Superintendent	2,200.00	200.00	2,400.00
J. F. Swope, Electrician	1,375.00	125.00	1,500.00
A. M. Cleveland, Carpenter	660.00	60.00	720.00
Hans Rasmussen, Engineer	916.67	83.33	1,000.00
Ward Pierce, Fireman	770.00	70.00	840.00
John Elmers, Fireman	700.00	70.00	770.00
James Shields, Night Watchman	540.00	60.00	600.00
Robert Billings, Yardman	646.50	60.00	706.50
M. T. Coleman, Plumber	475.00	95.00	570.00
G. E. Palmer, Plumber	270.00	90.00	360.00
S. J. Smith, Fireman	157.00		157.00
Hans Hansen, Carpenter	184.60		184.60
William Wallace, Fireman	660.00	60.00	720.00
A. P. Christiansen, Carpenter	525.00		525.00
Henry Barnes, Fireman	70.00		70.00
T. N. Justice, Janitor	600.00	120.00	720.00
H. L. Stech, Janitor	600.00	120.00	720.00
Philip Seltenrich, Janitor	600.00	120.00	720.00
H. C. Harmon, Janitor	600.00	120.00	720.00
J. W. Bangs, Janitor	600.00	120.00	720.00
James Kelly, Janitor	600.00	120.00	720.00
Grant McCreery, Janitor	600.00	120.00	720.00
S. R. Dryden, Janitor	600.00	120.00	720.00
Elmer Maxson, Janitor	600.00	120.00	720.00
Clarence Cunning, Janitor	600.00	120.00	720.00
Wm. Stevenson, Janitor	600.00	120.00	720.00
W. J. Waters, Janitor	600.00	120.00	720.00
John McLain, Janitor	559.00	120.00	679.00
Mrs. Anna Putney, laboratory maid, Home Economics	405.00	90.00	495.00
Mrs. T. N. Justice, Matron Gymnasium	300.00	60.00	360.00
Mrs. E. B. Herrold, assistant maid, Home Economics	356.40	35.00	391.40
George Wilson, Fireman	30.00		30.00
Mrs. Cora Cook, assistant maid, Home Economics	35.00		35.00
	$ 29,245.81	$ 2,757.08	$ 32,002.89

Hospital Fund:

Mrs. A. M. Potter, Matron	$ 641.63
Marion Fenner, maid	279.00
Frances Day, nurse	46.70
	$ 967.33

Dormitory Fund:

Helen Broeksmit, Head	$ 920.00
Mrs. Effie Kellogg, Housekeeper	486.80
Nettie Tow, Assistant Head	242.40
A. B. Lewis, Janitor	240.00
Mrs. L. M. Shelley, Assistant Housekeeper	68.28
Mary E. Haight, Substitute Head	80.00
Desk help	575.64
	$ 2,613.12

Millage Fund:

M. T. Coleman, Plumber	475.00
G. E. Palmer, Plumber	630.00
	$ 1,105.00

Building Fund:

M. T. Coleman, Plumber	95.00
G. E. Palmer, Plumber	90.00
	$ 185.00

RECAPITULATION OF RECEIPTS AND DISBURSEMENTS.

For the Biennial Period July 1, 1914, to July 1, 1916.

Funds	Disbursements	Receipts	Cr. Balances
Teachers' Fund	$269,000.00	$269,000.00	
Contingent Fund	142,151.10	150,180.39	$ 8,029.29
Summer Term	59,078.37	61,000.00	1,921.63
Library	12,539.49	13,764.92	1,225.43
Librarians' Salary	17,568.69	19,032.96	1,464.27
Hospital	2,983.73	3,565.78	582.05
Millage	176,514.76	177,185.77	671.01
Building	10,290.42	20,000.00	9,709.58
Paving, Walks and Improvement	2,857.70	2,857.70	
Students' Contingent	36,609.55	67,017.41	30,407.86
Summer Contingent	793.31	18,539.43	17,746.12
Commencement Contingent	1,919.12	2,882.11	962.99
General	10,901.93	11,800.13	898.20
Furniture	2,922.96	2,922.96	
Dormitory Furniture	11,002.08	15,000.00	3,997.92
Dormitory	2,913.97	9,574.89	6,660.92
Extension Service	16,815.30	19,750.00	2,934.70
*Music (private instruction)	3,549.75	5,289.25	1,739.50
	$780,412.23	$869,363.70	$ 88,951.47

NOTE: The following orders were issued by the Secretary during this biennial period but were not paid by the Treasurer until after July 1, 1916:

Teachers' Fund	$ 3,059.04
Millage Fund	31.50
Building Fund	513.42
Contingent Fund	605.69
Summer Contingent	20.60
Students' Contingent	625.62
Commencement Contingent	36.80
General	32.40
Dormitory	90.25
Extension Service	15.55
	$ 5,030.87

INSTITUTE WORK.

The following amounts were received by teachers for Institute work, for which deductions were made:

C. H. Brown	$ 92.00
John Barnes	50.00
Grace Barr	50.00
Floe Correll	50.00
Macy Campbell	462.50
C. P. Colegrove (no deduction)	1,040.00
H. L. Eells	315.00
Ida Fesenbeck	100.00
C. A. Fullerton	180.00
Irving H. Hart	25.00
Marguerite M. Hussey	30.00
Elizabeth Hughes	50.00
Eva May Luse	30.00
J. C. McGlade	307.00
C. H. Meyerholz	260.00
Isabel Osborne	175.56

*Fees received from music students for private instruction from March 15 to June 30, 1916.

E. L. Palmer	80.00
E. Grace Rait	95.00
Ida Roberts	100.00
Sara F. Rice	25.00
Belle Scofield	230.00
C. W. Stone	105.00
G. W. Samson	50.00
Effie Schuneman	161.32
Olive M. Young	60.00
	$ 4,123.38

FINANCES OF THE IOWA STATE TEACHERS COLLEGE

Report of the Treasurer Regarding Receipts and Disbursements of all Funds from July 1, 1914, to June 30, 1916.

H. N. SILLIMAN, TREASURER.

	Balance on Hand June 30, 1914	Receipts 1914-1916	Disbursements 1914-1916	Balance on Hand June 30, 1916
Building Fund		$ 20,000.00	$ 9,944.46	$ 10,055.54
Contingent Fund	$ 9,463.13	140,917.26	142,095.41	8,284.98
Commencement Contingent Fund	1,021.02	1,861.09	1,882.32	999.79
Dormitory Fund		9,574.89	2,906.02	6,668.87
Dormitory Furniture Fund		15,000.00	11,002.08	3,997.92
Extension Service Fund		19,750.00	16,799.75	2,950.25
Furniture Fund	422.96	2,500.00	2,922.96	
General Fund	3,630.85	8,155.78	10,818.53	968.10
Hospital Fund	115.78	3,500.00	3,033.73	582.05
Library Fund	3,764.92	10,000.00	12,539.49	1,225.43
Librarian's Salary Fund	3,567.86	15,503.09	17,644.18	1,426.77
Millage Fund	11,182.92	166,002.85	176,483.26	702.51
Music Fund		5,289.25	3,549.75	1,739.50
Paving Fund	350.81	2,506.89	2,857.70	
Students' Contingent Fund	25,968.73	41,237.65	36,314.64	30,891.74
Summer Contingent Fund	3,236.26	15,303.17	793.31	17,746.12
Summer Term Fund	5,000.00	56,000.00	59,078.37	1,921.63
Teachers' Fund	970.00	269,000.00	268,930.96	1,039.04
Total	$ 68,695.24	$802,101.92	$779,596.92	$ 91,200.24

College for the Blind

Biennial Report

Period Ending June 30, 1916

OFFICERS AND TEACHERS

1914-1915

ADMINISTRATIVE.

Geo. D. Eaton.....Superintendent
C. P. Moon.....Steward
Miss Nellie Knudson.....Stenographer and Typewriting Teacher

LITERARY DEPARTMENT.

Mrs. Maud T. Eaton
Miss Luetta Knights
Miss Ethel Baldwin
Miss Sarah A. Caster
Miss Bessie Arthaud
Miss Anne Baldwin
Miss Lois Tiberghien
H. L. Williamson

DEPARTMENT OF MUSIC.

Miss Maud L. Manning
Miss Emma Kliebenstein
Miss Flora Hromatko
Mrs. Jean K. Preston

INDUSTRIAL DEPARTMENT.

Miss Elizabeth Yalden
Charles S. Olson
Mark Nissen
J. B. Jordan

DEPARTMENT OF HOUSEHOLD AFFAIRS.

Mrs. Alice Manchester
Housekeeper and Domestic Science Teacher
Miss Emma Sherritt
Matron Intermediate Boys
Miss Stella Simmons
Matron Little Boys
Mrs. Date Towner
Matron Intermediate Girls
Miss Jean T. Brown
Matron Little Girls
Miss Ida Sutherland
Visitors' Attendant

DEPARTMENT OF HEALTH.

C. C. Griffin, M. D., Physician
Miss Josephine Walsh, Nurse
L. W. Dean, M. D.
Visiting Ophthalmic Surgeon

1915-1916

ADMINISTRATIVE.

Geo. D. Eaton.....Superintendent
C. P. Moon.....Steward
Miss Nellie Knudson.....Stenographer and Typewriting Teacher

LITERARY DEPARTMENT.

Miss Hattie L. Specht
Miss Eunice Swain
Miss Emma Watkins
Miss Sarah A. Caster
Miss Bessie Arthaud
Miss Anne Baldwin
Miss Lois Tiberghien
Geo. W. Shema

DEPARTMENT OF MUSIC.

Miss Maud L. Manning
Miss Emma Kliebenstein
Mrs. Flora Hromatko Taylor
Mrs. Jean K. Preston

INDUSTRIAL DEPARTMENT.

Charles S. Olson
J. B. Jordan
Mark Nissen

DEPARTMENT OF HOUSEHOLD AFFAIRS.

Mrs. Alice Manchester
Housekeeper and Domestic Science Teacher
Miss Emma Sherritt
Matron Intermediate Boys
Miss Stella Simmons
Matron Little Boys
Mrs. Date Towner
Matron Intermediate Girls
Miss Effie Hutchinson
Matron Little Girls
Miss Ida Sutherland
Visitors' Attendant and Assistant Teacher

DEPARTMENT OF HEALTH.

J. E. Luckey, M. D., Physician
Mrs. M. A. Tuttle, Nurse
L. W. Dean, M. D.
Visiting Ophthalmic Surgeon

REPORT OF THE SUPERINTENDENT, COLLEGE FOR THE BLIND.

GEORGE D. EATON, SUPERINTENDENT.

THE EDUCATION OF BLIND YOUTH.

I desire to express to you, the members of the Board of Education and of the Finance Committee, our appreciation of your helpfulness and kindness to us. The progress the institution has made is largely due to your cordial and hearty coöperation.

In presenting this report, aside from the regular statistical and financial reports, it is our purpose to give a brief statement concerning the education of blind youth, to present the needs of the school, and to offer a suggestion to help the adult blind of our State.

Every child, whatever his color, his creed, his mental ability, or his parentage, whether he be from a wealthy and influential home or from the slums of the city, has a claim upon his community or his State to be instructed and enlightened. It is an inalienable right, and it devolves upon us to solve the problem of how so thoroughly to train and educate the blind children of Iowa for the active duties and walks of life that they may become independent and self-maintaining citizens.

Children, on entering a school for the blind, come under the best surroundings and under the care of those who understand and appreciate the needs of each child, and who daily try to lead him out of darkness into light. By the influences of a refined environment and congenial home life, the child's physical, mental, and moral natures are harmoniously developed. Too much emphasis cannot be placed on the employment of skillful instructors with the qualifications requisite for teachers in a school for the blind. The salary given should be sufficient to make it an incentive to enter into this work for a term of years.

Our duty to the blind is to make them self-reliant, self-thinking, self-judging; to teach them how "to plan wisely, to execute promptly, to sympathize broadly and to be prepared to conform with the demands and conditions of modern progress."

This is an age of specialization. There are as many methods as there are minds, and there is a broad curriculum to be pursued. Just what methods to utilize and what branches of study to emphasize is the problem. Some schools for the blind lay much stress upon the industrial training; again, other schools reason that the literary and the musical training are the more important. Much depends upon the individual who is being taught. If he is capable of receiving a high school education, by all means it should be given him. Along with his literary work, he should be given industrial training. If he is musically inclinded, music also should be emphasized. It is the broadest and most liberal education that will uplift the blind, as a class, that will fit them to discharge faithfully and successfully every duty they may owe their fellow men. There are a few in every school that are not able, because of mental incapacity, to pursue a high school course. In such instances, industrial training should be emphasized above everything else. The problem, then, in all schools is to make a careful study of each individual, and to give him such training as to prepare him to be a useful citizen.

NEEDS OF THE SCHOOL.

The college, during the biennial period closing June 30, 1916, enrolled 157 pupils, with an average daily attendance of 122. As stated in previous reports of this school, we are in need of a kindergarten building, in order to secure the best results. Nearly five years have passed since the Board of Education appointed a committee of five, three members of the Board and two members of the Finance Committee, who, together with the Superintendent of the college, were to visit schools for the blind in other states. This committee, after carefully investigating conditions in five of the best schools in the United States, recommended the need of a separate building for the smaller children. We, therefore, ask for an appropriation of $60,000 to build and equip a building for at least forty of our smaller pupils.

The buildings now used for teaching industrial training are in very poor condition and are not properly arranged and equipped. Schools for the blind emphasize industrial training, and to secure the best results it is absolutely necessary to have a well arranged and equipped building. For this purpose, we, therefore, ask for an appropriation of $20,000.

The greater part of our laundry equipment was purchased many years ago and is in poor condition and out of date. We need $3,000 for new laundry equipment, and ask for that amount.

The importance of a good library in schools for the blind can not be overestimated. Many books of travel, adventure, and discovery, and many healthful stories for the young are purchased. These soon wear out. The greater part of the evenings are spent in reading to the boys and girls. Aside from the educational value of this exercise, a great deal of pleasure is derived from it. The blind are compelled to secure much of their knowledge through the sense of feeling; therefore, special apparatus is necessary. Music is also especially emphasized. We, therefore, ask for an appropriation of $500 to purchase books, music and apparatus.

For several years many of our states have been assisting their blind by establishing special commissions and sending out field workers, who spend their time and energy in the interest of the adult blind and make inquiries regarding children who should be in the schools for the blind. Our State assists these unfortunate people not only because other states are doing so, but because it is right that it should. Helen Keller has said: "There is no law on the statute books compelling people to move up closer on the bench of life to make room for a blind brother; but there is a divine law written on the hearts of men, constraining them to make a place for him, not only because he is unfortunate, but because it is his right as a human being to share God's greatest gift, the privilege of man to go forth unto his work."

The Iowa Association of the Blind which met at Vinton, Iowa, last June, passed, and submitted to the State Board of Education, a resolution for which we recommend the most careful consideration. It is as follows:

Resolved: That, at the next meeting of the State Legislature, an appropriation be asked for the purpose of promoting work among the adult blind of the state; and that this fund be placed under the direction of the State Board of Education, to be used as follows:

1. A complete register of the blind of Iowa shall be maintained at the institution, and inquiries concerning the cause or causes of blindness shall be made, in order to ascertain what portion of such cases are preventable and to co-operate with the State Board of Health and the National Committee for the Prevention of Blindness, in the adoption and enforcement of proper preventive measures.

2. Raw material for the making of brooms, rugs, fancy work, or any other articles made by the blind for sale, shall be furnished at cost to the blind home-workers over the state.

3. In order to encourage, in every possible way, the sale of all articles made by the blind, especially among the blind themselves, at least one salesroom shall be opened in a prominent place in the state, where articles made by the blind shall be exhibited for sale; and a suitable salesman or saleslady shall be provided to take charge of such salesroom.

4. A standardizing committee of one or more seeing persons shall be appointed to receive and approve all articles made by the blind in their homes, before such articles are placed on exhibition in the salesroom.

5. A field worker, preferably blind, shall be employed to superintend home teaching and home visitation among the adult blind over the state; and such field worker shall have power, with the approval of the Superintendent of the School for the Blind, to employ local workers, where this can be done economically.

6. For the purpose of carrying out the provisions as set forth above, an appropriation of ten thousand dollars ($10,000) shall be asked from the next legislature for the biennial period following the taking effect of this resolution, said appropriation to be expended under the direct charge and supervision of the Finance Committee of the State Board of Education; and said committee is hereby invested with power to determine the manner and method of expending said appropriation or any amount thereof.

IMPROVEMENTS.

Aside from the regular repairing and upkeep of the buildings, a new barn, silo and hog house have been built; the main driveways about the institution have been paved; and an electric light plant has been installed. We have purchased ten acres of land, lying just south of the college grounds. These improvements add very materially to the support of the institution.

PRINTING APPARATUS.

The 35th General Assembly appropriated $1,000, with which to purchase printing apparatus for the school; but, owing to the unsettled condition of the type question, this appropriation has not been expended. There are two type systems in use in the United State, American Braille and New York Point. Our school uses the New York Point system. As soon as the type question is settled and a uniform system is put in use throughout the United States, which we think will be within the next two years, we will feel more justified in purchasing printing apparatus.

COURSE OF STUDY.

The course of study has been changed but very little since the last report was printed, hence we do not see the necessity of publishing it in this report, but merely mention the subjects that are taught.

LITERARY.

Reading (New York Point System)	Ancient History
Writing	Medieval History
Spelling	Modern History
Language	English History
Arithmetic	American History
Geography	Civics
Grammar	Latin Lessons
History	Caesar
Physiology and Hygiene	Rhetoric
Typewriting	Elocution
Algebra	American Literature
Geometry	English Literature
Advanced Arithmetic	Advanced Grammar
Physical Geography	Physics

MUSIC.

Piano	Organ
Violin	Voice
Harmony	Musical Form
Musical History	

INDUSTRIAL.

Piano Tuning	Broom Making
Netting	Chair Caning
Reed Work	Sewing
Crocheting	Knitting
Bead Work	Domestic Science

The institution is purely educational. It is a school supported entirely by the State for the purpose of giving a high school education to the unfortunate children who have lost their sight, or have defective vision. Besides the literary course offered, music and industrial training are emphasized. Physical culture is also an important factor. The school begins in September and closes in June. To secure the best results, pupils should enter at the beginning of the year and remain throughout the entire term.

STATEMENT OF THE NEEDS OF THE PUPILS WHO ARE COMING TO OUR SCHOOL.

The following statement of the needs of pupils who are coming to our school has been prepared by the matrons. It will answer many questions and save unnecessary correspondence:

Girls	Older Boys	Younger Boys
1 Coat	1 Sunday suit	1 Sunday suit
1 Play coat	1 Week-day suit	1 Week-day suit
1 Hood	2 Pairs extra trousers	3 Pairs extra trousers
1 Hat	1 Overcoat	4 Colored blouses
1 Sunday dress	2 Suits underwear	2 White blouses
1 Week-day dress	4 Shirts	1 Sunday overcoat
2 Petticoats	6 Collars	1 Play overcoat
2 Suits underwear	3 Night shirts	2 Suits underwear
2 Night dresses	2 Pairs suspenders	2 Night shirts
2 Corset waists	2 Pairs Shoes	2 Pairs suspenders
4 Pairs stockings	1 Pair rubbers	2 Pairs elastic garters.
2 Pairs shoes	4 Pairs socks	2 Pairs shoes
1 Pair rubbers	3 Neckties	1 Pair rubbers
3 Aprons	1 Muffler	6 Pairs stockings
1 Pair mittens	1 Summer hat or cap	3 Windsor ties
1 Pair side elastics	1 Winter hat or cap	1 Summer Sunday cap
6 Handkerchiefs	1 Pair mittens	1 Summer play cap
Brush and comb	Umbrella	1 Winter Sunday cap
Tooth brush	Comb and brush	1 Winter play cap
Umbrella	Tooth brush	1 Pair mittens
1 Gymnasium suit	8 Handkerchiefs	Comb and brush
1 Pair gymnasium shoes	1 Gymnasium suit	Tooth brush
	1 Pair gymnasium shoes	8 Handkerchiefs
		1 Gymnasium suit
		1 pair gymnasium shoes

All clothing should be plainly marked.

READING MATTER FOR THE BLIND.

Under the provisions of the postal laws, we are constantly sending out embossed books to the blind readers of Iowa. This law provides for the transmission of point books for the blind, through the mails, free of postage. In sending point books through the mail, they should be addressed as follows: In the upper left hand corner of the wrapper the name and address of the sender must appear; and in the upper right hand corner the words, "Free Reading Matter for the Blind." We would urge all those into whose hands this report may come to make known to any of their friends with defective sight the provisions of the above-mentioned law.

HEALTH OF THE INSTITUTION.

The health of the school during the past biennial period has compared most favorably with that of the surrounding country and city population. In June, 1915, Dr. J. E. Luckey was appointed to succeed Dr. C. C. Griffin, Sr., who had been the institution physician for over forty years. The health of any institution depends much upon the health department, and we are very fortunate in being able to secure the services of excellent physicians and nurses. Dr. L. W. Dean, of Iowa City, performed several operations, all of which were successful. Whenever the operation and treatment required special attention, the case was sent to the University Hospital at Iowa City, without expense to the college.

REPORT OF PHYSICIAN.

I have the honor to herewith transmit the report of my first year's service as physician to the Iowa College for the Blind. During this period there have been a great many minor ailments, but no fatal or severe case.

Pupils needing surgical attention have been cared for at the State University Hospital, with the exception of the minor surgical cases always arising, and some fifteen operated upon at the College Hospital by Dr. Dean. A number of the pupils have been referred to a dentist and effort has been made to add as much as possible to the well-being of these children, so many of whom have weak constitutions.

A new matron developed diphtheria a few days after entering the college in November; one of the pupils also developed diphtheria a few days later, and three "carriers" were found among the remaining girls of this nursery. The disease was readily controlled without spreading.

Tuberculosis was found in one ten-year-old girl and she was sent to the Sanatorium at Oakdale. She has been improving in health.

An unusual number of the pupils returned after their holiday vacation suffering from a variety of ailments readily traced to the exposures during vacation time.

J. E. LUCKEY, Physician.

REPORT OF OPHTHALMIC SURGEON.

Iowa City, Iowa, August 30, 1916.

I have the honor to report that during the school year of 1914 and 1915 five visits were made to the College.

At the first visit, on September 29th, each pupil was examined, the cause of blindness determined, and when indicated, treatment or operation was recommended. As other pupils arrived during the year they were also examined. When it seemed possible to improve the vision by glasses they were ordered. Artificial eyes were also fitted when they were needed. In addition to the care of the eyes, aural and nasal troubles were taken care of.

The following operations were performed:

Tonsils and adenoids	3
Tenotomy and advancement	1
Tenotomy	1
Tonsils	1

The following operations were performed at the University Hospital:

Radical mastoid	1
Spur	1
Removal of tonsils and adenoids	2
Iridectomy	2
Trephine	1
Needling	2

One especially hard refraction case was taken care of at the University Hospital. There was no charge made for work done at Iowa City.

L. W. DEAN.

Iowa City, Iowa, August 30, 1916.

I have the honor to report that during the school year of 1915 and 1916 four visits were made to the College.

At my first visit, on September 21st, each pupil was examined, the cause of blindness determined, and when indicated, treatment or operation was

recommended. As other pupils arrived during the year, they were also examined. When it seemed possible to improve the vision by glasses, the glasses were ordered. Artificial eyes were also fitted when they were needed. In addition to the care of the eyes, aural and nasal troubles were taken care of.

The following operations were performed:

Removal of tonsils and adenoids	8
Tonsils	6
Adenoids	1

The following operations were done on pupils at the University at Iowa City:

Gleason	1
Submucous	1
Tonsils	1
Orbit	1
Enucleation	1
Grattage	1
Strabismus	1
Tonsils and adenoids	1
Removal of rudimentary eye, and excising piece from upper eyelid	1

For work done at Iowa City, no charge was made. Three especially hard refraction cases were taken care of, and one case of defective speech, at the University Hospital.

L. W. DEAN.

ARTICLES MANUFACTURED.

The following articles were manufactured during the biennial period closing June 30, 1916.

Brooms	3,653 only
Whisks and toy brooms	188 only
Reed baskets (small)	117 only
Hammocks	58 only
Doll hammocks	85 only
Fly nets	238 only
Carpet	106 yds.
Rugs	62 only
Woven pillow covers	103 only
Laundry bags (net)	2 only
Aprons	34 only
Fancy work	127 pcs.
Sheets	245 only
Pillow cases	98 only
Table cloths	27 only
Napkins	341 only
Tea towels	380 only
Iron holders	180 only
Table spreads	28 only
Towels	363 only
Wash rags	86 only
Laundry bags (cloth)	12 only
Night shirts	7 only
Pants	3 pr.
Waists	4 only
Aprons	8 only

Petticoats	4 only
Corset cover	1 only
Combination suit	1 only
Bead work	25 pcs.
Baskets	4 only
Dresser scarfs	7 only
Waste baskets	12 only
Clothes baskets	10 only
Hampers	2 only

ENROLLMENT—BOYS.

Biennial Period Ending June 30, 1916.

Name and address:
Ackerly, Guy, Swaledale
Allison, Lloyd, Iowa Falls
Baugh, Downing, Henderson
Berg, Frank, Harper
Bidwell, Dwight, Spring Hill
Bonnema, Dick, Sioux Center
Boog, Charles, Pocahontas
Browne, Jaudon, Burlington
Bryant, Clifford, Vinton
Brumbaugh, Harry, Arnolds Park
Buroker, Laurence, Allison
Calliea, Coleman, Cedar Rapids
Campbell, Frank, Iowa City
Collison, Elliott, Kossuth Co., Iowa
Conner, Burnie, Cedar Falls
Day, Grover, Iowa City
Dearth, Ralph, Burlington
Dorgan, John, Davenport
Edmunds, Arthur, Cedar Rapids
Elliott, Ernest, Oelwein
Ferguson, Ralph, Council Bluffs
Findley, Robert, Bettendorf
Forsythe, Clarence, Strawberry Point
Galvin, Henry, Jefferson
Galvin, Clarence, Jefferson
Galvin, Mahlon, Jefferson
Galvin, John, Jefferson
Gantert, George, Dubuque
Garner, Dewey, Unionville
Gowdey, Donald, Dexter
Greene, Arthur, Jefferson
Griess, Philip, West Amana
Groen, Dick, Rock Valley
Grooms, Harry, Ottumwa
Hahle, Willie, Hardy
Henderson, Milton, Marengo
Johnson, Leonard, Clinton
Jolliffe, Elton, Knoxville

Name and address:
Junkins, Bige, Bloomfield
Keiser, Harley, Manson
Kelso, Russell, Vinton
Kennedy, William, Vinton
Klontz, Willie, Grundy Center
Kulken, Peter, Pella
Lalan, Lester, Cedar Falls
Lewis, Earl, Des Moines
Luhmann, Charles, Graettinger
Martin, Don, Eagle Grove
Menagh, Paul, Linden
Miner, Clifford, Livermore
Miner, Earl, Cedar Rapids
Morrissey, Willie, Coggon
Mowery, Guy, Hancock
Newman, Oscar, Madrid
Osman, Claude, Decorah
Perrin, Grant, Vinton
Pike, Sylvester, Des Moines
Porter, Clarence, Maquoketa
Price, Cecil, Plano
Reeves, Harold, Vinton
Rhodes, William, Clarence
Rice, John, Burlington
Schluntz, Henry, Vinton
Schnepf, George, Garber
Shannon, Claude, Kenwood Park
Stadtlander, Leroy, Burlington
Stevenson, Clifford, Cedar Falls
Strutz, Henry, Atlantic
Tiernan, Thomas, Des Moines
Tripp, Earl, Clinton
Vance, Alfred, Le Claire
Van Dyck, Harold, Des Moines
Voelker, Frank, Dubuque
White, Reuben, Grinnell
Wilson, Bryan, Dallas Center
Windecker, Harvey, Robertson

ENROLLMENT—GIRLS.

Biennial Period Ending June 30, 1916.

Name and address:
Anderson, Ruth, Fremont
Baker, Alberta, Greenfield
Bartlett, Luella, Cedar Rapids
Bowder, Grace, Wyoming
Brosdal, Karine, Joice
Burlingame, Agnes, Cedar Rapids
Carr, Frances, Des Moines
Carstens, Ora, Anita
Carter, Mabel, Council Bluffs
Cavanagh, Marjory, Iowa City
Chamberlin, Daisy, Tama
Clark, Lelia, Dunkerton
Cole, Louise, Vinton
Conn, Fern, Battle Creek
Connett, Gertrude, Des Moines
Coon, Hattie, Oxford Junction
Cramer Georgia, Council Bluffs
Dowell, Louise, Vinton
Dudley, Jessie, Creston
Foxworthy, Daphne, Vinton
Galvin, Lillie, Jefferson
Galvin, Rose, Jefferson
Garner, Clorice, Ottumwa
Graham, Colista, Sioux City
Griffin, Geraldine, Walker
Griffin, Flossie, Menlo
Harris, Vera, Des Moines
Hess, Ethel, Lawton
Hill, Mildred, Keokuk
Hills, Mae, Swea City
Holmes, Eva, Anamosa
Holmes, Frances, Perry
Hoxie, Ida, Hubbard
Hunter, Dorothy, Cooper
Johnson, Alice, Afton
Jones, Phyllis G., Mason City
Kale, Helen, Winterset
Kane, Amy, Vinton
Kempf, Addie, Kalona
Kernahan, Nellie, Des Moines

Name and address:
Knipp, Kathryn, Waterloo
Long, Mabel, Des Moines
Mason, Dorothy, Manilla
Menzel, Lola, Hazelton
Ney, Anna, Davenport
Niblock, Gladys, Fort Dodge
Nowadzky, Victoria, Walker
Osborn, Blanche, Walker
Oviatt, Hazel, Marshalltown
Parker, Bessie, Kensett
Peck, Margaret, Ottumwa
Phester, Josephine, Des Moines
Piearson, Mildred, Massena
Pinedo, Dora, Oelwein
Pirtle, Pauline, Ottumwa
Quackenbush, Margaret, Vinton
Ramsell, Victoria, Cedar Rapids
Ray, Edith, Tama
Rector, Eva, Spencer
Reeves, Florence, Vinton
Reeves, Mabel, Vinton
Rhea, Helena, Redfield
Rhodes, Marie, Chariton
Rieder, Clementina, Watkins
Rickard, Vera, Davenport
Roberts, Margie, Chariton
Rockwell, Beulah, Maquoketa
Rorholm, Myrtle, Altoona
Schultz, Margaret, Charles City
Shields, Elsie, Mt. Etna
Slamal, Bertha, Marshalltown
Spencer, Margery, West Liberty
Springer, Mrs. Elmira, Traer
Strand, Alma, Leland
Turnell, Esther, Boone
Turner, Katie, Lacona
Wahl, Cleo, Moulton
Walden, Charlotte, Sioux City
Werner, Ida, East Amana
White, Meta, Enterprise
Wilhelmi, Frances, Le Mars

TABLE NO. 1—MOVEMENT OF POPULATION.

	For year ending June 30, 1915			For year ending June 30, 1916			For biennial period ending June 30, 1916		
	M	F	T	M	F	T	M	F	T
Number of pupils enrolled previous to July 1, 1915	---	---	---	---	---	---	62	57	109
Number of old students re-admitted during the biennial period ending June 30, 1916	---	---	---	1	1	2	1	1	2
Number admitted during the biennial period ending June 30, 1916	12	14	26	11	9	20	23	23	46
Number enrolled during the biennial period ending June 30, 1916	---	---	---	---	---	---	76	81	157
Number discharged:									
Graduated	2	---	2	3	4	7	5	4	9
Trades completed	1	---	1	2	---	2	3	---	3
Deaths	1	2	3	---	---	---	1	2	3

	M	F	T
Average daily attendance—			
For period ending June 30, 1915	59.51	62.37	121.88
For period ending June 30, 1916	61.06	61.18	122.24
For biennial period ending June 30, 1916	60.28	61.77	122.05

TABLE NO. 2—AGES, ON ADMISSION, OF PUPILS ADMITTED.

	For Year Ending June 30, 1915			For Year Ending June 30, 1916			For Biennial Period Ending June 30, 1916		
	M	F	T	M	F	T	M	F	T
Five years	2	1	3	-----	-----	-----	2	1	3
Six years	-----	1	1	1	1	2	1	2	3
Seven years	1	1	2	-----	1	1	1	2	3
Eight years	1	3	4	1	-----	1	2	3	5
Nine years	1	1	2	-----	-----	-----	1	1	2
Ten years	3	1	4	1	3	4	4	4	8
Eleven years	1	1	2	-----	1	1	1	2	3
Twelve years	1	-----	1	-----	-----	-----	1	-----	1
Thirteen years	-----	1	1	-----	-----	-----	-----	1	1
Fourteen years	-----	1	1	1	1	2	1	2	3
Fifteen years	1	-----	1	-----	-----	-----	1	-----	1
Sixteen years	-----	-----	-----	-----	1	1	-----	1	1
Eighteen years	-----	-----	-----	2	-----	2	2	-----	2
Nineteen years	1	-----	1	-----	-----	-----	1	-----	1
Twenty years	-----	1	1	-----	-----	-----	-----	1	1
Twenty-one years	-----	-----	-----	1	1	2	1	1	2
Twenty-six years	-----	1	1	-----	-----	-----	-----	1	1
Twenty-nine years	-----	-----	-----	1	-----	1	1	-----	1
Thirty years	-----	-----	-----	1	-----	1	1	-----	1
Thirty-four years	-----	-----	-----	1	-----	1	1	-----	1
Forty-three years	-----	-----	-----	1	-----	1	1	-----	1
Sixty-three years	-----	1	1	-----	-----	-----	-----	1	1
Totals	12	14	26	11	9	20	23	23	46

TABLE NO. 3—HEALTH AND PHYSICAL CONDITION, ON ADMISSION, OF PUPILS ADMITTED.

	For Year Endidg June 30, 1915			For Year Ending June 30, 1916			For Biennial Period Ending June 30, 1916		
	M	F	T	M	F	T	M	F	T
Normal-blindness not considered	10	13	23	11	5	16	21	18	39
Weak vitality	1	1	2	-----	1	1	1	2	3
Weak mentally	1	-----	1	-----	3	3	1	3	4
Totals	12	14	26	11	9	20	23	23	46

TABLE NO. 4—MORALS AND HEREDITARY CONDITION OF PARENTS OF PUPILS ADMITTED.

For Biennial Period Ending June 30, 1916.

	M	F	T
Father, defective vision and intemperate / Brothers and sisters, defective vision	4	2	6
Mother, defective vision	0	1	1
Father, weak eyes	1	0	1
Grandmother, insane	1	0	1
Father, intemperate	1	0	1
Mother and father, weak eyes	0	1	1
Uncle, blind	0	1	1
Brother and sister, defective sight	0	1	1

TABLE NO. 5—CAUSES OF BLINDNESS OF PUPILS ADMITTED.

For Biennial Period Ending June 30, 1916.

	M	F	T
Atrophy optic nerve	2	0	2
Atrophy optic nerves, traumatic	1	0	1
Cataract	0	1	1
Traumatic Cataract	0	1	1
Phthisis Bulbi and Staphyloma of Cornea	0	2	2
Leucoma Adherens	1	0	1
Leucoma Adherens (Blennorrhea Neonatorum)	0	1	1
Phthisis Bulbi	1	1	2
Phthisis Bulbi, traumatic	2	0	2
Phthisis Bulbi, Blennorrhea Neonatorum	2	1	3
Nystagmus and Uveitis	0	1	1
Congenital Glaucoma	0	1	1
Refractive error	0	1	1
Phlyctenular Conjunctivitis	0	1	1
Ptosis with bilateral external ophthalmoplegia	4	2	6
Leucoma, center of each cornea	0	1	1
Sympathetic Ophthalmia	2	0	2
Fundus lesion. Conjunctivitis	1	0	1
Uveitis	1	1	2
Secondary Glaucoma	1	0	1
Choroiditis Old	0	1	1
Choroiditis Centralis	0	1	1
Glaucoma	0	1	1
Hyperopia, Nystagmus	0	1	1

TABLE No. 5—Continued

	M	F	T
Microphthalmus monstrosity	0	1	1
Strabismus Convergens	0	1	1
Nystagmus	1	0	1
Chorio-retinitis	1	0	1
Leucoma of Cornea	1	0	1
Leucoma Adherens and deformed socket	1	0	1
Neuro retinitis	0	1	1
Cause not given	1	1	2
Totals	23	23	46

PRODUCTS OF FARM AND GARDEN.

For Biennial Period from July 1, 1914, to July 1, 1916.

Quantity.		Character of Products.			Value
203	lbs.	Asparagus	at	$ .10	$ 20.30
70	lbs.	Beans, stringless	"	.03	2.10
32	bu.	Beets	"	.50	16.00
11,879	lbs	Cabbage	"	.02	237.58
16	bu.	Carrots	"	.50	8.00
90	bunches	Celery	"	.05	4.50
222	doz.	Corn, green	"	.08	23.36
520	lbs.	Cucumbers	"	.05	26.00
110	lbs.	Lettuce	"	.04	4.40
168	lbs.	Onions, green	"	.05	8.40
40	bu.	Onions, dry	"	1.00	40.00
45	bu.	Parsnips	"	.50	22.50
111	lbs.	Peas	"	.05	5.55
300	doz.	Peppers	"	.10	30.00
390	lbs.	Popcorn	"	.03	11.70
320	bu.	Potatoes	"	.75	240.00
218	lbs.	Radishes	"	.05	10.90
1,138	lbs.	Rhubarb	"	.02	22.76
3¾	bu.	Rutabagas	"	.50	1.87
160	only	Squash	"	.05	8.00
148½	bu.	Tomatoes	"	.50	74.25
55	bu.	Turnips	"	.30	16.50
7	acres	Corn for ensilage	"	20.00	140.00
5	tons	Hay	"	10.00	50.00
11,509½	gal.	Milk	"	.24	2,762.28
1,141	lbs.	Cream			76.55
347 1-3	qts.	Cream			45.15
10	only	Calves			206.39
100	only	Hogs			1,861.13
1,166	lbs.	Pork	at	.15	174.90
850	lbs.	Lard	"	.11	93.50
300	lbs.	Veal	"	.13	39.00
98	only	Chickens			50.25
374 2-3	doz.	Eggs	Estimate		74.80
Total					$6,408.62

TABLE NO. 6—FINANCES.

Balance on hand June 30, 1914	$ 4,324.40
Received from State for pupilage (see Sec. 5, Ch. 328, 35th G. A.)	40,000.00
Received from State for clothing for pupils (see Sec. 2716 of Code)	466.17
Received from sale of brooms and whisks	178.55
Received from sale of nets and hammocks	101.60
Received from sale of rugs, carpets and pillow tops	20.80
Received from sale of fancy work and baskets	95.27
Received from sale of cows and calves	378.55
Received from sale of hogs	684.07

Received from sale of wood	289.40
Received from sale of junk, etc.	36.64
Received from visitors and workmen, for board	252.40
Received from sundry sales	669.12
Received from bank, for interest on deposits	112.68
Total debits	$47,609.65

CONTINGENT AND REPAIRS.

Balance on hand June 30, 1914	$ 1,335.54
Received from State (see Ch. 328, Sec. 5, 35th G. A.)	1,500.00
Total debits	$ 2,835.54
Amount expended	$ 2,068.67
Balance on hand June 30, 1915	766.87
Total credits	$ 2,835.54

CLASSIFICATION OF EXPENDITURES FROM THE GENERAL SUPPORT FUND.

Salaries	$21,932.10
Provisions	8,540.47
Household stores	1,071.11
Clothing	427.69
Fuel and light	6,357.52
Hospital and medical supplies	85.77
Shop, farm and garden	2,595.20
Ordinary repairs	27.43
Library	2.13
Water and ice	35.60
Postage and stationery	429.85
Miscellaneous	1,463.60
Total expenditures	$42,968.47
Balance on hand	4,641.18
Total credits	$47,609.65

SUMMARY.

Balances on hand June 30, 1915:

General support	$ 4,641.18
Contingent and repairs	766.87

TABLE NO. 7—SPECIAL APPROPRIATION FUNDS FOR YEAR CLOSING JUNE 30TH, 1915.

	Expenditures	Balance June 30, 1914	Balance June 30, 1915
*Contingent and repairs (Ch. 328, Sec. 5, 35th G. A.)	$ 2,068.67	$ 2,835.54	$ 766.87
Remodeling and extension of main building (Ch. 328, Sec. 6, 35th G. A.)	1,998.46	2,006.21	7.75
Well and equipment (Ch. 328, Sec. 6, 35th G. A.)	876.62	876.62	----------
Oculist (Ch. 197, Sec. 5, 34th G. A.)	50.00	50.00	----------
Total	$ 4,993.75	$ 5,768.37	$ 774.62

*The $1,500.00 in Contingent and Repairs Fund was received in payments of 125.00 each, for twelve months, from June 30th, 1914, to June 30th, 1915.

CLASSIFICATION OF EXPENDITURES FROM SPECIAL FUNDS.

Extraordinary repairs	$ 367.96
Equipment	439.21
Labor	241.40
Material	2,318.37
Miscellaneous	1,626.81
Total	$ 4,993.75

TABLE NO. 8.

Balance on hand June 30, 1915	$ 4,641.18
Received from State for pupilage (see Sec. 5, Ch. 328, 35th G. A.)	40,000.00
Received from State for clothing for pupils (see Sec. 2716 of Code)	398.33
Received from sale of brooms and whisks	319.80
Received from sale of nets and hammocks	141.50
Received from sale of rugs, carpets and pillow tops	36.20
Received from sale of fancy work and baskets	46.70
Received from sale of calves	51.98
Received from sale of cream	76.55
Received from sale of hogs	1,177.06
Received from sale of wood	418.19
Received from sale of old buildings	90.00
Received from sale of potatoes	142.13
Received from sundry sales	310.48
Received from visitors, for board	56.10
Received from bank, for interest on deposits	180.58
Total debits	$48,086.78

CONTINGENT AND REPAIRS.

Balance on hand June 30, 1915	$ 766.87
Received from State (see Ch. 328, Sec. 5, 35th G. A.)	1,500.00
Total debits	$ 2,266.87
Amount expended	$ 2,013.98
Balance on hand June 30, 1916	252.89
Total credits	$ 2,266.87

CLASSIFICATION OF EXPENDITURES FROM THE GENERAL SUPPORT FUND.

Salaries	$22,655.55
Provisions	7,929.02
Household stores	1,135.57
Clothing	283.72
Fuel and light	5,706.01
Hospital and medical supplies	386.84
Shop, farm and garden	3,703.97
Ordinary repairs	48.35
Library	47.02
Water and ice	31.95
Postage and stationery	411.76
Transportation of students	3.48
Miscellaneous	1,539.91
Total expenditures	$43,883.15
Balance on hand	4,203.63
Total credits	$48,086.78

SUMMARY.

Balances on hand June 30, 1916:

General support	$ 4,203.63
Contingent and repairs	252.89

TABLE NO. 9—SPECIAL APPROPRIATION FUNDS FOR THE YEAR CLOSING JUNE 30TH, 1916.

	Expended	Balance June 30, 1915	Received 1916	Balance June 30, 1916
Contingent and repairs (Ch. 328, Sec. 5, 35th G. A.)	$ 766.87	$ 766.87		
Remodeling and extension of main building (Ch. 328, Sec. 6, 35th G. A.)	7.75	7.75		
Land, paving, sidewalks, improvements grounds (Senate File 242, Sec. 4, 36th G. A.)	7,102.31		$10,000.00	$ 2,897.69
Barn and silo (Senate File 242, Sec. 4, 36th G. A.)	4,500.00		4,500.00	
Piano and furniture (Senate File 242, Sec. 4, 36th G. A.)	3,012.76		5,000.00	1,987.24
Electric light plant, (Senate File 242, Sec. 4, 36th G. A.)	3,000.00		3,000.00	
Oculist (Senate File 288, Sec. 4, 36th G. A.)	100.00		100.00	
Contingent and repairs (Senate File 288, Sec. 4, 36th G. A.)	1,247.11		1,500.00	252.89
Totals	$19,736.80	$ 774.62	$24,100.00	$ 5,137.82

The Contingent and Repairs Fund was received in monthly payments of $125.00 each, for twelve months from June 30th, 1915, to June 30th, 1916.

The Land and Paving Funds and the Piano and Furniture Funds were requisitioned for as needed.

CLASSIFICATION OF EXPENDITURES FROM SPECIAL FUNDS.

Extraordinary repairs	$ 610.72
Equipment	3,240.94
Labor	5,594.03
Material	6,232.02
Land	3,000.00
Miscellaneous	1,059.03
Total	$19,736.80

TABLE NO. 10—SUMMARY OF RECEIPTS AND EXPENDITURES FOR THE BIENNIAL PERIOD CLOSING JUNE 30TH, 1916.

	1914-1915	1915-1916	Biennial Totals	
General Support:				
Receipts	$47,609.65	$48,086.78	$95,696.43	
Expenditures	42,968.47	43,883.15		$ 86,851.62
Balance in Support Fund	4,641.18	4,203.63		8,844.81
Contingent and Repairs:				
Receipts	2,835.54	2,266.87	5,102.41	
Expenditures	2,068.67	2,013.98		4,082.65
Balance in Contingent and Repairs	766.87	252.89		1,019.76
Totals			$100,798.84	$100,798.84

SPECIAL FUNDS.

	1914-1915	1915 1916	Biennial Totals	
Receipts	$ 5,768.37	$24,874.62	$30,642.99	
Expenditures	4,993.75	19,736.80		$ 24,730.55
Balance	774.62	5,137.82		5,912.44
Totals			$30,642.99	$ 30,642.99

FINANCES OF THE COLLEGE FOR THE BLIND

Report of the Treasurer Regarding Receipts and Disbursements of all Funds from July 1, 1914, to June 30, 1916.

F. G. RAY, TREASURER.

GENERAL SUPPORT.

Receipts	$89,516.78	
Expenditures		$87,849.66
Balance on hand June 30, 1916		1,667.12
Totals	$89,516.78	$89,516.78

SPECIAL FUNDS.

	Balances June 30, 1914	Receipts	Expenditures	Balances
Contingent and repair (Senate File 288, Sec. 4, 36th G. A.)	$ 1,210.54	$ 3,000.00	$ 4,027.20	$ 183.34
Remodeling and extension main building (Ch. 328, Sec. 6, 35th G. A.)	2,133.06		2,129.06	4.00
Land, paving, sidewalks and improvements grounds (Senate File 242, Sec. 4, 36th G. A.)		7,500.00	6,851.68	648.32
Barn and silo (Senate File 242, Sec. 4, 36th G. A.)		4,500.00	4,500.00	
Piano and furniture (Senate File 242, Sec. 4, 36th G.A.)		5,000.00	3,012.76	1,987.24
Electric light plant (Senate File 242, Sec. 4, 36th G. A.)		3,000.00	3,000.00	
Oculist (Senate File 288, Sec. 4, 36th G. A.)	150.00	100.00	250.00	
Totals	$ 3,493.60	$23,100.00	$23,770.70	$ 2,822.90

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