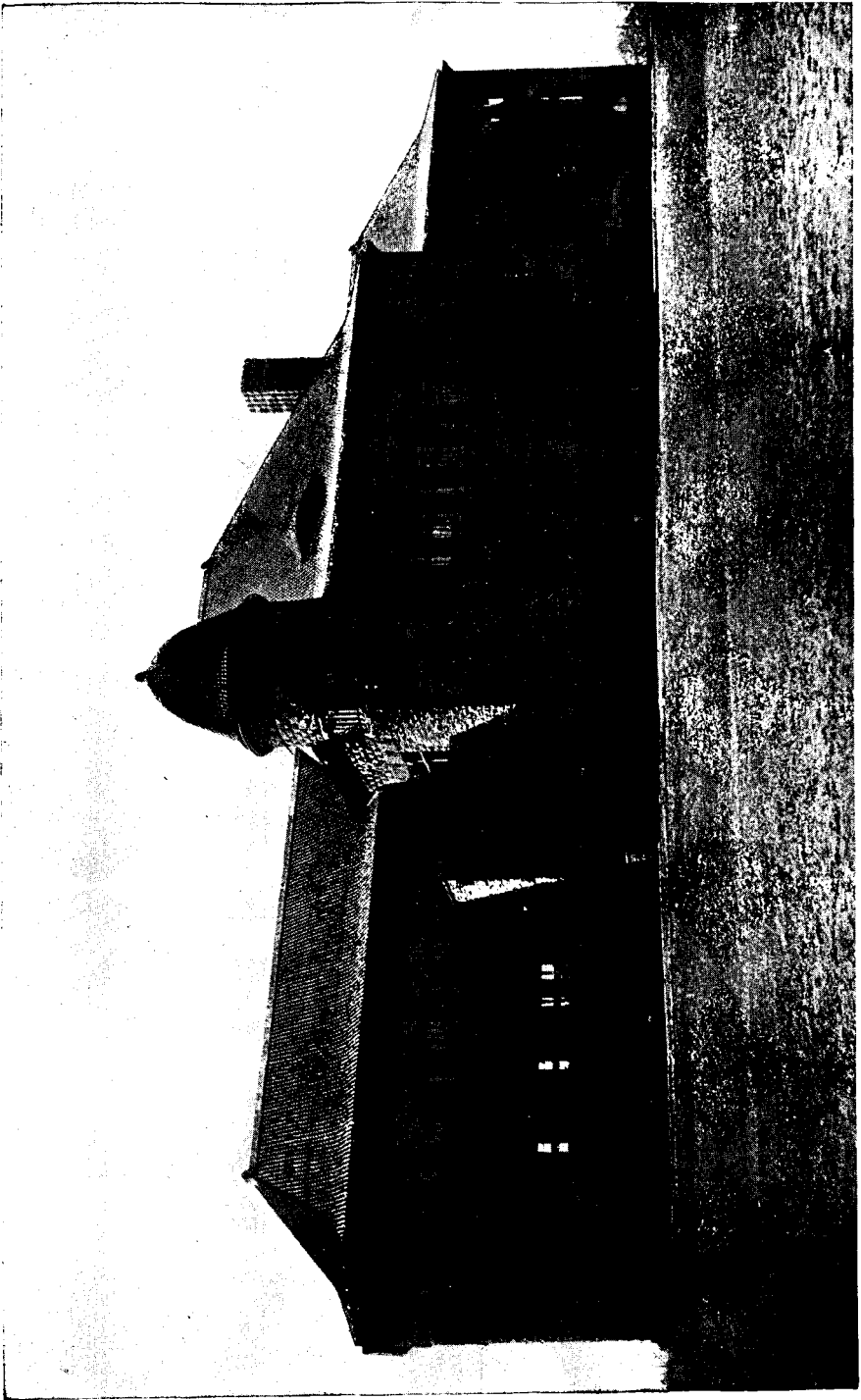


THE UNIVERSITY OF MINNESOTA.

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PILLSBURY HALL—STATE UNIVERSITY.

SIXTH BIENNIAL REPORT

[No. 17 IN SERIES.]

OF

THE BOARD OF REGENTS

OF THE

UNIVERSITY OF MINNESOTA,

TO THE GOVERNOR.

FOR THE

FISCAL YEARS 1889 AND 1890, ENDING JULY 31ST

Transmitted to the Legislature at the Twenty-Seventh (Sixth
Biennial) Session, 1891.

MINNEAPOLIS:
HARRISON & SMITH, PRINTERS.
1890.

NOTE.

The present university "charter" was enacted by the legislature February 18, 1868. The first annual report was that for 1868, transmitted to the legislature of 1869. The last annual report was that of 1878, There have been accordingly eleven annual reports, and this sixth biennial report is No. 17 of the series.

The annual reports of progress of the geological survey of Minnesota will be found in the annual reports of the board of regents, beginning 1872. The annual report of the survey for 1881 was printed separately, no other reports of or to the board being printed in that year.

THE UNIVERSITY OF MINNESOTA, }
OFFICE OF THE BOARD OF REGENTS, }
November 1, 1890.

SIR: In compliance with law, I have the honor to forward herewith the sixth biennial report of the Board of Regents for the fiscal years 1889 and 1890, ending July 31st.

Very respectfully,

Your obedient servant,

HENRY H. SIBLEY,

President.

To the HON. W. R. MERRIAM, *Governor of Minnesota.*

THE BOARD OF REGENTS.

The Board of Regents is composed at this date of the following gentlemen:

- The Hon. HENRY H. SIBLEY, LL. D., St. Paul; term expires in...1891
- *The Hon. GORDON E. COLE, Faribault; term expires in.....1891
- The Hon. W. M. LIGGETT, Benson; term expires in.....1891
- The Hon. GREENLEAF CLARK, M. A., St. Paul; term expires in..1892
- The Hon. CUSHMAN K. DAVIS, St. Paul; term expires in.....1892
- The Hon. SLOAN M. EMERY, Lake City; term expires in.....1895
- The Hon. STEPHEN MAHONEY, Minneapolis; term expires in....1895
- The Hon. KNUTE NELSON, Alexandria; term expires in.....1896
- The Hon. JOHN S. PILLSBURY, Minneapolis; term expires in....1896

AND EX-OFFICIO.

- The Hon. WM. R. MERRIAM, St. Paul, the Governor of the State.
 - The Hon. DAVID L. KIEHLE, LL. D., Minneapolis,
The State Superintendent of Public Instruction.
 - CYRUS NORTHROP, LL. D., Minneapolis,
The President of the University.
-

OFFICERS OF THE BOARD.

- H. H. SIBLEY *President.*
- D. L. KIEHLE..... *Recording Secretary.*
- H. P. BROWNE..... *Treasurer.*

EXECUTIVE COMMITTEE.

- J. S. PILLSBURY *Chairman*
- CYRUS NORTHROP..... *Secretary.*
- D. L. KIEHLE.

COMMITTEE ON COURSE OF STUDY.

- D. L. KIEHLE. CYRUS NORTHROP.

COMMITTEE ON AGRICULTURE.

- S. M. EMERY. KNUTE NELSON. W. M. LIGGETT.

COMMITTEE ON LIBRARY AND MUSEUM.

- D. L. KIEHLE. GREENLEAF CLARK. KNUTE NELSON.

LAW SCHOOL COMMITTEE.

- GREENLEAF CLARK. C. K. DAVIS. GORDON E. COLE.

MEDICAL COLLEGE COMMITTEE.

- W. R. MERRIAM. W. M. LIGGETT. S. MAHONEY.

AUDITING COMMITTEE.

- KNUTE NELSON. S. MAHONEY.

*Deceased.

REPORT

OF THE

UNIVERSITY OF MINNESOTA.

To His Excellency W. R. Merriam, Governor of Minnesota:

I have the honor to submit for your information the reports of the president of the University and its treasurer, for the two years ending July 31, 1890.

Without undertaking a resume of all that is included in these reports, I have to report with great satisfaction the unprecedented prosperity of the University in all its departments. There have been added all the new buildings contemplated in the appropriation made by the last legislature and by the generous gift of Ex-Gov. J. S. Pillsbury. The embarrassment of the board occasioned by the deferred payment by the state of its appropriation, was relieved by the advance payment by Regent Pillsbury of his donation for the erection of Science Hall. With this the board proceeded at once to the erection of the new dormitory for the school of agriculture to cost \$25,000, of the law school costing \$25,000, and of the chemical and physical laboratory costing \$100,000. In addition to these buildings, the new Science Hall donated by Regent Pillsbury costing about \$150,000, and therefore appropriately named by the board of regents "Pillsbury Hall" has been completed.

These buildings have been equipped with suitable apparatus and are now in use by the University.

The growth of the several departments has been very constant, the record for 1889-'90 being as follows:

	Attendance.	Graduates.
University courses.....	663	55
Law	134	40
Medicine and dentistry	127	23
School of agriculture.....	78	14
Total	1,002	132

The board of regents desires to remind the legislature that these important and expensive equipments of the University are permanent improvements and, therefore, when once made need not be repeated.

For the proper equipment of the University, provision must yet be made for the library, the medical college, the observatory, and the school of agriculture.

The first building immediately required is that for the medical college. The lease of the building now in use will soon expire, besides that, in location, capacity and other accommodations it is quite inadequate to the increasing demands of the several departments of medicine, pharmacy and dentistry that belong to this college.

The probable cost of a building which will adequately meet the necessities of this department will be not less than \$100,000.

The second is the educational building for the school of agriculture.

This school was opened in October, 1888, with an attendance of forty-seven scholars. The year following the attendance was increased to seventy-eight, with a graduating class of fourteen.

The present year, not included in this report, has, up to December 1st, an attendance of ninety-one students.

The plan of this school is to meet the special educational demands of farmers' sons who wish to pursue practical agriculture. It therefore gives its instruction in the matters that belong to this industry. For a fuller explanation of the purposes of this school you are respectfully referred to the report of the president and the announcement of the school.

The plan being somewhat experimental, the board of regents erected the first building at a cost of about \$20,000 out of the proceeds of the sale of the old experimental farm. The second building was erected with the appropriation made by the last legislature.

This school has now established itself as an essential part of our agricultural education, and has outgrown the accommodations so far provided.

Buildings already erected are for dormitories, and for the present accommodation of recitations and lectures. These buildings are now needed for the rooms of students, and a separate building especially adapted to the educational demands of this school should be at once erected. It must have besides its class rooms, lecture and assembly rooms, a physical

laboratory, an agricultural museum for purposes of instruction and illustration, a library, and a special apartment for the display of animals for purposes of examination, study and lectures in the courses of veterinary, care, breeding and selection of the same. The cost of this building will be \$75,000.

These increasing financial demands of the University are but the fairest measure of the great demands made upon it in a greatly increased attendance, and in the extension of its curriculum to satisfy the educational needs of every line of intelligent industry. The board has confidence that a careful examination of the work of the University in its several departments will prove the wisdom and economy of the expenditures already made and secure the necessary support for the completion of the plans herein set forth.

Respectfully submitted,

H. H. SIBLEY,
President Board of Regents.

THE UNIVERSITY OF MINNESOTA,
MINNEAPOLIS, MINN., NOV. 1, 1890.

To His Excellency W. R. Merriam, Governor of Minnesota:

SIR—I have the honor to transmit herewith the sixth biennial report (No. 17 of the series), of the condition and progress of the University for the years of 1888-89, and 1889-90.

Very respectfully,

Your obedient servant,

CYRUS NORTHROP,

President.

REPORT
OF THE
UNIVERSITY OF MINNESOTA.

To His Excellency, W. R. Merriam, Governor of Minnesota.

During the years 1888-89, 1889-90, the University of Minnesota has enjoyed a greater degree of prosperity, and has made greater progress than during any previous years of its history. The wisdom and confidence displayed by the board of regents in organizing the departments of law and medicine and the school of agriculture at the close of the year 1887-88, when there were no available funds for the support of these additional departments, have been amply vindicated by the prosperity which has attended the work in all of these new departments, and by the provision made for their support by the Legislature of the State in the winter of 1888-89. The University, however, would have been painfully cramped and hindered in its work during these years but for the munificent liberality of a member of the board of regents, Hon. John S. Pillsbury, to whom it owes not only the noblest building yet erected on the campus, but also the erection of other buildings at least a year earlier than would have been possible, if Gov. Pillsbury's advances of money had not been made much faster than it was proposed in the terms of his gift, and if it had been necessary to wait for the appropriations of the legislature to become available before beginning to build. The noble building which his liberality erected and equipped has been appropriately named by the board of regents, Pillsbury Hall, and it will stand as a lasting memorial not merely of his liberality but of his wise interest in the educational welfare of Minnesota. The full extent of his services to the University by his gift can not be measured by this one building. The chemical and physical laboratory, nobly planned and well built and furnished with adequate apparatus for the most efficient work, ready now for immediate use, would

not have been finished till the autumn of '91, but for the timely advances of money by Governor Pillsbury. As it is, most valuable time at a most important period of the University's development has been gained, and a wide interest in the University has been awakened not only in Minnesota but in all parts of our country, an interest fully justified by the present equipment of the institution for scientific study.

NEW BUILDINGS.

During the last two years buildings have been erected as follows:

1. Pillsbury Hall, 245 feet front, built of stone, has been finished and has been in use during most of the past year. In it are the most ample accommodations for the departments of geology, mineralogy, animal biology and botany, of which a more detailed statement is given elsewhere in this report; and also accommodations for the geological survey, the school of design, the school of mines and the museums.

2. The physical and chemical laboratory, built of Roman brick with red sandstone basement, 192 feet front, is now ready for use and will furnish accommodations to the departments of physics and chemistry, of which a more detailed statement is also given elsewhere. This building covers the ground formerly occupied by the agricultural and chemical building that was badly damaged by fire in the fall of 1888, but it is very much larger and in every respect better than the building whose place it takes.

3. The law building, 80 feet front, built of pressed brick with red sandstone trimmings, was finished in 1889, and has been in use by the department during the past year. It contains a large room for library, a large lecture room, four lecture and recitation rooms of smaller size, and offices for the dean and professors.

4. The heating plant, containing the heating apparatus for the university, and large enough to contain boilers in sufficient numbers to meet the requirement of twenty years to come, was built of brick, and finished in 1889, and has been in use during the past year. At the rear of this building, and resting on a part of its foundation, is the plant house, of which a more detailed account is given under the subject of botany.

5. The school of agriculture has a new building, 60 by 70 feet in dimensions, which was erected in 1888, and has been in use during the last year. It is built of brick, is situated in a

most commanding location, and besides furnishing ample recitation and lecture-room facilities, it enables the school to provide dormitories for one hundred students.

6. Fire having broken out in the upper part of the main building during the Christmas vacation of 1889, the library was in danger, and was removed as rapidly as possible to the law building. Considerable damage was done to the upper part of the building, and when the necessary repairs were made, the opportunity was embraced to improve some portions of the building that had long sadly needed attention. The assembly room or chapel in the fourth story, and many of the recitation rooms were repapered. The library, however, was restored to its old quarters unimproved. In this building, also, the rooms formerly occupied by the museum have been fitted up as recitation rooms, furnishing excellent accommodations to the departments of Latin and psychology. The removal of the various scientific departments to the new building erected for their especial accommodation, has relieved the pressure for room in the main building, and it is believed that all departments in this building are now reasonably well accommodated, though not all in an equal degree. The main building has been so greatly improved, and so many changes have been made in its rooms, that it now seems proper to place its record with that of the "new buildings."

7. The veterinary hospital at the experiment station, is a comparatively small building, built of wood, and designed to meet the wants of the veterinary department so far as practical instruction in the school of agriculture is concerned. This purpose it serves well. Should the veterinary department, however, grow into a college by itself, doing for the Northwest what veterinary colleges in the East, and notably in Philadelphia, do for the whole country, the present hospital will prove altogether too small for the needs of the institution. At present, however, it serves a useful purpose, and meets the actual needs of the work in the school of agriculture.

THE SCHOOL OF AGRICULTURE.

The school of agriculture has been in operation two years, and has been very successful. The number of students in the school the first year was fifty-seven, and the second year seventy-eight. The improvement in the students has been of a marked character. Fourteen graduated in the first class, April 4, 1890. Most of these after graduation returned to their homes

to engage in farm work. The course of study is now so arranged as to fit the student for practical work in farm life, while the opportunity is also given to those who wish it, to prepare for higher studies in science. The arrangement meets the hearty approval of the most intelligent farmers and friends of agricultural education in the state. The young men who have been in the school, have, it is believed been more than satisfied with the opportunities for improvement which have been given them, and an increasing number of young men are likely to avail themselves of the privileges of the school the next year. It would be difficult to plan a course of study of the same length that would be at once more practical and more stimulating to the intellect than the present course of the school of agriculture. While the state is to be congratulated on having such a school, there appears to be no good reason why its advantages should not be extended to the girls of the state. It would be very easy to provide for the comfort of the girls at the farm; the studies of interest to all they could share with the boys, just as the girls in other departments of the University pursue their studies in classes with the boys. Mathematics, botany, chemistry, zoology, entomology, horticulture and farm accounts, could thus be profitably taken by the girls as well as by the boys. They could also receive thorough instruction in cooking in all its varied operations of baking, boiling, broiling, frying, mixing and seasoning, serving, as also in all the other household duties upon the successful performance of which the happiness of home so much depends. In short they could be made accomplished housewives, capable of something far better than coarse drudgery, able to minister to the comfort of their households in health and sickness alike, making their homes neat and pleasant, and with their cultivated taste adding to the attractions of the homestead by skillful landscape gardening and the cultivation of flowers, as men rarely can. There is a real demand in the state that the girls shall be given an opportunity to thus prepare themselves for their duties in farmers' homes. More than twenty applications were received last year—and it needs but to be known that the farmers' daughters can be received at the school of agriculture and can there acquire knowledge and skill in all the practical work of housekeeping, to insure an attendance of girls in even greater numbers than the boys. The subject is one of the greatest practical importance and should receive the careful attention of the board. The girls should be received into the school at

the opening of the school in October, 1891. Fortunately the board will be able to secure for this work the services of a lady who probably has no superior in the country in respect to qualifications for this special work. Should this plan be approved by the board, it will be found to be easy of execution, and will prove of the greatest benefit to the people of the state. It can not wisely be put in operation the present year. It can not wisely be postponed beyond the present year.

THE DEPARTMENT OF LAW.

The law school was opened two years ago in the basement of the main building, where it remained during one year. During the last year it has occupied the new building erected for its accommodation. It has prospered from the day it was opened to the present time, and there is no doubt that largely increased prosperity awaits it in the future. Fifty seven students registered in this college the first year, and one hundred thirty-five in the second year. The accommodations of the school in its present quarters are ample. A library of respectable dimensions and of the most serviceable character has been provided, to which constant additions will be made. The Hon. William S. Pattee, Dean of the college, has devoted himself wholly to the interests of the college, and by his skill as a teacher, his wise administration, and his attractive personality, has contributed very largely to its success. Beside the very efficient corps of lecturers, all of whom have attended to their duties with great fidelity, Judge James O. Pierce, Selden Bacon, Esq., and Charles B. Elliott, Ph. D., have been employed as special instructors, and have rendered most efficient service

THE DEPARTMENT OF MEDICINE.

The department of medicine, embracing the three colleges of medicine and surgery, homeopathic medicine and surgery, and dentistry, has been conducted for two years in the hospital college building in Minneapolis, on the west side of the river. This building was originally leased to the board of regents of the University at a nominal rent for five years. The lease has already run more than two years. The building itself is not, either in its dimensions or its arrangement, all that the department needs, and the accommodations for all of the three colleges are in many respects inadequate. It has been necessary to rent another room for a chemical laboratory. A new building should be erected the coming year, on the University campus

with ample lecture rooms, laboratories and apparatus. The department will thus be brought into closer relations with the rest of the university and can more conveniently receive a larger degree of care and attention from the head of the University than its isolated situation at present permits. The demand for a first class medical education is strong, and there is no reason why that demand cannot be thoroughly met by the medical department of this university when provided with suitable equipments. But until it is thus provided the department will labor under serious difficulties and will do its work at great disadvantage. Application should be made by the board of regents to the next legislature for an appropriation that will supply this very urgent want of a new building and proper equipment.

Notwithstanding the difficulties under which the department has labored the past two years, a very creditable degree of success has attended its work. One hundred twenty-five students have been in attendance each year. The gentlemen of the different faculties have worked together in harmony; no jealousy between different "schools" of medicine has manifested itself; and the best has been done that could be with the means at hand. The faculty has been strengthened since the last report by the appointment of George A. Hendricks, M. S., M. D., of Ann Arbor, as professor of anatomy, and by the recent appointment of W. Xavier Sudduth, M. D., D. D. S., of Philadelphia, as professor of oral surgery and pathology in the college of dentistry. Professor Hendricks has already more than justified his high reputation by his lectures during nearly the whole of two years' courses; and although Dr. Sudduth has but just entered upon his duties he has already inspired great confidence in the consequent progress of the college of dentistry. The course of instruction in the medical department, the last two years, has been for a period of six months each year. This course was found to be too short for the work required to be done; and accordingly the course has been extended to eight months in each year. The work in future will begin early in October, and will close with the other colleges of the University, the first Thursday of June. It is exceedingly gratifying that this change, though it materially affected the personal convenience of many of the professors, was unanimously approved and recommended by the faculty of the medical department. Its immediate effect will be probably to lessen somewhat the number of students. The University

can suffer no real loss from this, however, since students who choose an institution in which to study on account of the shortness of its course are not at all desirable. It would be better that professional students whose sole desire is to do as little as possible for a diploma, should do nothing and never attempt to secure a diploma; for in no department of learning is inferior attainment so dangerous as in medicine.

THE LIBRARY.

The weakest part of the University, considering its importance, is the library. With twenty-three thousand volumes nominally on the shelves, it may be doubted whether there are really ten thousand that are live and up to the time. The purchase of private libraries in the earlier days of the institution secured many books, some of which were good, but many of which were comparatively worthless. Many books of former times have become practically worthless by later investigations and discoveries. The importance of a library, containing the latest results of scientific investigation and of historical research, cannot be overrated nor over stated. It is the heart of the University. But it is hardly less important that the library should be accessible and capable of being comfortably used. It should be in a suitable building. Within its walls should be the laboratories of those departments which, like history, English literature, political science and psychology, require reference to many books even in the investigation of a single subject. The library building in the modern conception is not merely a store room for books to be handed out by one to the seeker after knowledge; it is, on the contrary, to literature and historical, political, and mental science what physical and chemical laboratories are to the sciences taught in them—at once the store-house of material and the laboratory in which the material is profitably used. The library of the University at present is stored in a suite of rooms, six in number, on the first floor of the main building, a building into whose construction no thought of making it fire-proof ever entered. These rooms were not themselves intended for the library. As books and pamphlets have multiplied, one after another of these rooms has been converted to library use, each more uninviting than any of its predecessors. If the board of regents has the slightest doubt that a library building is imperatively needed at once and that there is no feature of the University so unpleasant as the contracted quarters in which the books of the

institution are piled, a visit by the board to the sacred spot, and through the six rooms, all too crowded for any other than store-rooms, and only one of them furnishing the slightest accommodation for the searcher after truth who wishes to examine books to find out whether they contain what he seeks, will remove the last lingering doubt on the subject and perfectly satisfy the board that a library building must be built at once.

It need not be a building for show. All that is wanted is a fire proof building with plenty of room for the books, and plenty of room for those who would use the books. A state institution should aim at utility rather than display in its buildings—and the officers and students of the university desire in the library building only security and room. The routine of daily teaching can go on with the library as it is—so it might go on if there were no library; but the modern library building with its store of live books, is what the University needs more than anything else, to lift it in its teaching, as well as its equipment, to the rank which its recent provision of buildings and equipment for scientific study has done so much to give it. It would be a noble act if some generous citizen should erect such a building for the University. But the state, for whose benefit the library is to exist, can richly afford to provide such a building as is needed; for its benefits will be conferred directly on thousands of her brightest sons and daughters and indirectly will be carried to every part of the commonwealth of Minnesota.

COLLEGE OF MECHANIC ARTS.

In the college of mechanic arts, Professor William A. Pike has ceased to be director and has been made dean of the faculty. Assistant Professor William R. Hoag has been elected professor of civil engineering and Assistant Professor John H. Barr has been elected professor of mechanical engineering. Mr. Albert I. Jones has been employed as instructor in metal working and Mr. Harry E. Smith, as instructor in mechanical engineering and wood-work. The removal of the department of physics to the new laboratory, and of the school of design to Pillsbury Hall, relieves the college of mechanic arts from unpleasant restriction in room, and gives it ample space for the prosecution of its work. The school of practical mechanics and the school of design attached to this college are well sustained and are worthy of the attention of persons desiring manual training. One hundred students have been connected with these schools the past year.

THE STUDY OF SCIENCES.

Two new buildings, the best on the campus, Pillsbury Hall and the physical and chemical laboratory, are devoted to the work of instruction in science. The equipment of these buildings for the purposes for which they are to be used, is believed to be equalled by the equipment for like purposes in few institutions in the country. Some idea of the amount of room and the value and variety of apparatus provided may be gained from the following statement of the provision made for the work in botany, animal biology, geology, physics and chemistry.

● BOTANY.

Rooms. The department of botany occupies a suite of six rooms in Pillsbury Hall, viz: (1), a lecture room, 34 x 38 feet (2), a herbarium and seminar room, 33 x 18 feet; (3), a student's morphological laboratory, 33 x 52 feet; (4), a physiological laboratory, 33 x 18 feet; (5), a special laboratory and office 21 x 34 feet and a work room 21 x 34 feet, giving in all a floor space of 5,224 square feet.

Furniture.—The furnishing of the botanical rooms is antique oak throughout. The lecture-room contains seats for seventy students, each seat fitted with a writing-arm. The lecturer's desk is 18 x 3 feet, with drawers, cupboard, and pneumatic trough. Further, there is a table and sink for the disposition of living, illustrative material not in immediate use before the class. A chart-rack, 12 x 4½ feet, and a blackboard 18 x 3 feet complete the list of furniture.

The herbarium room contains bookshelves, tables, and separable plant-cases modeled somewhat after those in the British Museum.

The morphological laboratory is furnished with three truncated, slate-top, iron-based microscope-tables, each 10 x 7 x 3 feet, (7 is the window-end measurement, 3, the inside end measurement,) each accommodating seven students. In addition there is a slate-top chemical desk 24 x 4 feet, accommodating twenty-four students and two apparatus cases.

The physiological laboratory contains slate, truncated, and wall-microscope tables, evaporating board, apparatus cases and moveable tables.

The special laboratory contains three slate-top wall-tables, book-shelves, apparatus cases, desk, library table and card catalogues.

The work room contains shelving, drying tables, vault, pig-eon-hole cases and sink.

All the rooms are furnished with gas and water.

Outfit.—The herbarium contains the following collections of plants:

The Sandberg collection of Phanerogams, numbering..	8,000
The Sandberg collection of Ferns and Hepaticæ.....	250
Underwood's Hepaticæ Americanae.....	40
Ellis & Ernhardt's North American Fungi.....	2,500
Willey's North American Lichens.....	290
Five other collections not yet distributed.....	12,400
Total	23,480

The department of botany subscribes for eleven English periodicals, eleven French, two Italian, and twelve German.

The lecture room contains sets of botanical and physiological charts.

The general laboratories are filled with a full stock of best imported glassware, 20 Leitz compound microscopes giving 50 to 600 diameters, 17 Beck microscopes giving from 70 to 480 diameters, 4 Bausch & Lomb microscopes giving from 50 to 600 diameters and 5 Leitz dissecting microscopes. Wall-lockers are provided for the use of students.

The physiological laboratory contains glassware, klinostat, anaxanometer, thermo-electric apparatus, microtomes, centrifugal wheels, induction-coils, batteries, mercury baths, heliostat and other physiological apparatus. A Climax water motor is attached to the sink.

The special laboratory contains a set of Koch's largest and latest pattern bacterioscopic apparatus, a Becker's balance, a large hand Leitz microscope giving from 25 to 2,400 diameters magnification, accessory apparatus, staining materials, etc.

A plant house has been built adjoining the engine house. In it material is grown for the following objects:

(a) The dissection work in the courses on anatomy and general morphology; (b) the special work on the lower aquatic plants and the ferns; (c) the experimental work in physiology; (d) the illustration of the Minnesota Phanerogamic flora by type-species from each family.

ANIMAL BIOLOGY.

The rooms devoted to this department are nine in number, seven of them being on the upper floor of Pillsbury Hall, and

two in the basement. Those on the upper floor are a lecture room containing 1,085 square feet, a preparation room 240 square feet, an apparatus room 189 square feet, photographic room 152 square feet, a general laboratory 2,070 square feet, laboratory library 80 square feet, and professor's office 120 square feet. In the basement are the store room and work shop, and the aquarium room together containing 550 square feet.

The general laboratory for animal biology contains: Thirty (30) Zeiss' microscopes, each provided with a nose piece, a condenser, Zeiss' new iris diaphragm etc.; twenty-one (21) dissecting microscopes; twenty (20) well microtomes, one large Yung-Thoma and two Minot microtomes; forty (40) complete dissecting sets of scissors, scalpels, forceps, etc.; imbedding baths and accessories; reagents and staining fluids; the full set of Dr. Ziegler's wax models; the papier mache models of Dr. Auzoux; a good collection of skeletons from Prof. Ward, and from V. Fric, Prague, Bohemia; a large collection of marine animals from the zoological station at Naples, and many other valuable preparations. The laboratory also has twelve (12) tables fully equipped with reagents and apparatus for animal chemistry; revolving drums with clock work; an improved Du Bois Reymond spring myograph; induction coils, moist chambers, a good collection of apparatus for demonstrations and experiments in physiological optics; apparatuses for counting blood corpuscles; Thompson's astatic galvanometer and various other pieces of apparatus used in physiological research and demonstrations. The photographic rooms are equipped with a heliostat, a Zeiss' large photo-micrographic apparatus and everything necessary for making photographs of both large and microscopic objects.

The department of animal biology also has one of Zeiss' large stands with a full set of objectives, including an apochromatic set, and nearly all of Zeiss' accessories, such as: binocular eye piece, micro-spectroscope, illuminating apparatus for monochromatic light, camera lucidas, etc.

Without particularizing further, it can be said that for general laboratory work in what is popularly called zoology and physiology the equipment of the department of animal biology is second to none in the country.

GEOLOGY AND MINERALOGY.

The rooms occupied by this department are on the first floor and in the basement of Pillsbury hall, directly under the rooms

devoted to botany and animal biology. There are large and well lighted laboratories beside recitation and lecture rooms and the office of the professor. The rooms are seven in number, containing 6,010 square feet. No mention is here intended to be made of the large amount of material accumulated by the department of geology in former years, or to be found in the museum. The changes and development of the last two years only are referred to.

Drawer cabinets have been provided in which to keep the study collections from the dust, and at the same time being in the laboratories, they are at all times accessible to the students.

The material composing these study collections has been largely increased by the addition of several hundred specimens of minerals and rocks and fossils, among which may be mentioned:

- (a.) A fine set of crystals, representing the six crystal systems.
- (b.) A series of minerals in the sulphide group.
- (c.) A large quantity of minerals by the pound for blow-pipe and other determinative work.
- (d.) A series of carboniferous fossils from Iowa.
- (e.) Collections in the state, and particularly around Minneapolis and St. Paul, have been made.

The beginning of a study collection of minerals has been made that the students in mineralogy may have a constant and ready reference in the laboratory.

A fine series of palæontologic charts, for illustrating the second term in geology, has been purchased.

Four lithologic microscopes, a fine stauroscope and an improved goniometer have also been purchased.

The two museums, each containing 4,000 square feet of space, the ample rooms of the geological survey, the room of the school of design, and the laboratory and assaying room of the school of mines, are all in Pillsbury hall. When these are added to the rooms already enumerated and described, the magnitude and value of the building can be readily appreciated.

CHEMISTRY.

The department of chemistry occupies the west half of the new physical and chemical laboratory. The chemical department has twenty-one rooms devoted to its use. Of these the

most important are the lecture room, the qualitative analytical laboratory, and the quantitative analytical laboratory. The lecture room, on the second floor, dimensions 30 ft. by 40 ft., seats about one hundred persons. It is intended to be used for lectures on general chemistry, with experiments, for which the customary arrangements have been provided. It will also be used as a recitation room for large classes. The qualitative analytical laboratory, on the second floor, dimensions $34\frac{1}{2}$ by 52 ft., has work tables for the accommodation of forty students. Water, gas and other facilities are arranged for convenient use. This room, as the name implies, is designed for practice in qualitative analysis. It will also, at different hours of the day, be used for instruction in certain parts of general chemistry. Immediately connected with this room, and to be used in the same work, are three small rooms, each about 11 by 15 ft., namely, a spectroscopy room, a microscope room and a room for keeping glassware and other apparatus. Considering the partitions as removed, the qualitative analytical laboratory is $34\frac{1}{2}$ by 68 ft., extending across the whole west end of the building. The quantitative analytical laboratory, on the first floor, $34\frac{1}{2}$ by $42\frac{1}{2}$ ft., contains work tables for thirty-two students. It is intended for chemical work of the upper classes, who have already pursued the courses in general chemistry and qualitative analysis. Immediately connected with this room are a balance room, 16 by $24\frac{1}{2}$ ft., and apparatus room, $17\frac{1}{2}$ by $24\frac{1}{2}$ ft. Including these the quantitative analytical laboratory is $34\frac{1}{2}$ by 68 ft., extending across the whole west end of the building, under the qualitative laboratory.

On the first floor is a recitation room, $24\frac{1}{2} \times 27\frac{1}{2}$ feet, for classes of moderate size. It is also fitted with arrangements for lectures with demonstrations. Other rooms on the first floor are: a room for water analysis, 15x30 feet, a private laboratory for the professor, 18x $24\frac{1}{2}$ feet, and a private laboratory for the assistant professor, $12\frac{1}{2} \times 30$ feet.

Rooms additional to those mentioned on the second floor are: a preparation room, $13\frac{1}{2} \times 24\frac{1}{2}$, near the lecture room and intended for keeping the apparatus used in lectures and for preparing the experiments for the day, and a room for the technological museum, $24\frac{1}{2} \times 28$ feet, furnished with large cases of shelves and drawers.

Passing to the basement, the department has two rooms opening into each other, each 17x29 feet, for an organic analytical laboratory, a room 17x24 feet, for gas analysis, and a

balance room, 16x24 feet. These four rooms occupy the whole west end of the building, directly under the quantitative laboratory already mentioned. In addition there are in the basement a room for assaying and other furnace work, 24x27 feet, a storeroom for chemicals, $17\frac{1}{2}$ x24 feet, and a storeroom for glassware, 12x29 feet.

The work of chemistry has for years been well done and the equipment even in the old laboratory, previous to the fire, was fairly good. Some additions in the way of apparatus for special purposes have been made the last year, of which the following are the most notable:

Three analytical balances, with sets of weights; three microscopes, and a large spectroscope, Bunsen's model, for use in analysis; a Scheibler's saccharimeter; a photometer, and other apparatus for tests and analysis of gas; a gas furnace and accessories for organic analysis; a set of apparatus for the projection of spectra, and similar lecture-room experiments; a number of technological wall charts; several gas generators; an ice machine, using ammonia; a number of steam water baths; a steam distilling apparatus; three furnaces for crucibles and similar work. Besides the foregoing, a large number—about twenty-four hundred—of reagent bottles, a corresponding supply of glass and other ware of various kinds for regular and constant use in the laboratory, and a large stock of chemicals have been purchased, provision being thus made for fitting up nearly eighty students' work tables, more than double the number of tables that have previously been furnished.

PHYSICS.

The department of physics in the east half of the physical and chemical laboratory, has seventeen rooms, as follows: In the basement; (1.) Precision room, 948 square feet, solid masonry pillars for support of sensitive instruments. (2.) Pendulum room, 567 square feet, masonry pillars. (3.) cathetometer room, 567 square feet, masonry pillars. (4.) engine, dynamo and motor room, 839 square feet, masonry beds for engine and machines; Westinghouse 10 horse power engine. (5.) Workshop, 282 square feet, carpenter and vice benches, lathe, etc. (6.) Battery and accumulator, 480 square feet. On the first floor, (7.) General physical laboratory, 1,190 square feet. (8.) Apparatus room, 1,590 square feet. (9.) General lecture Hall, 1,316 square feet, amphitheatre seats, lecture desk, etc. (10.) Coat room, 256 square feet. (11.) Recitation room, 816

square feet. On the second floor, (12.) Electrical laboratory, 1,200 square feet. (13.) Photometer room, 398 square feet. (14.) Professor's study and private laboratory, 495 square feet. (15.) Assistant's study and private laboratory, 432 square feet. (16.) Magnetometer room, 360 square feet. (17.) Library, reading and drawing room.

All rooms in this department are wired for electric light, for time, experimental current and call bells. Gas, water and sink in every room. In the attic are a meteorological room and a photograph room, provided with exposed window, skylight, &c. The whole available space for the department, exclusive of halls and stairways, is 12,712 square feet.

The department of physics possesses a large and valuable collection of instruments for lecture room purposes and practical laboratory work. Among the important pieces of apparatus are, a Societe Genevoise cathetometer, a Bianchi dividing engine, a spherometer, Atwood's machine, apparatus for illustrating all of the laws of elementary mechanics, hydraulic Press, U. S. signal service barometer, a complete set of thermometers, Breguet metallic thermometer, complete sets of hygrometers and hydrometers, three good chemical balances, one reversion pendulum, rotating table and attachments three normal tuning forks, complete Lissajou's apparatus, Helmholtz resonance globes, Chladni's plates, compound pendulum, manometric flame apparatus with mirror, sonometer, two heliostats, Browning spectroscope, Fresnel's mirrors and prisms, one Zeiss compound microscope, Duboscq optical bench and attachments, one W. and Q. spectrometer, diffraction grating, lantern polariscope, two students' polariscopes, an assortment of lenses and prisms, projecting lantern with Browning electric lamps, one Bunsen photometer, Goniometer, Holtz, Toepler-Holtz and frictional electric machines, storage batteries, Thompson's quadrant electrometer, spark micrometer, electric condensers, a variety of direct reading and reflecting galvanometers, two magnetometers, two induction coils, large and small, a collection of magnets of various forms, Verdi's chronograph, the complete set of meteorological instruments as furnished by the U. S. weather service, and the requisite glassware and mirror instruments to render the above a very complete physical equipment.

In addition to the apparatus of the physical laboratory, the electrical engineering department possesses Westinghouse 10 horse power engine, Edison 150 light dynamo, sets of lamps

and sockets, eight tangent galvanometers, two differential galvanometers, eight potential galvanometers, three Torsion galvanometers, two dynamometers, eight S. and H. resistance boxes, three normal ohms, two box bridges, six wire bridges, Thompson's reflecting galvanometers, three astatic galvanoscopes, sixty Daniell cells, twelve Bunsen cells, ten storage cells, four ammeters, four voltmeters, one Kruss incandescent lamp photometer, twelve reading telescopes and scales, magnetometer, one water voltameter, one copper voltometer, two silver voltmeters. These instruments with the accessories make the University of Minnesota as well equipped for electrical work as the Royal Polytechnic school of Berlin, or the Swiss Polytechnic of Zurich. (Alternating current machinery has been excluded as being dangerous for any but advanced and experienced students.)

MILITARY DEPARTMENT.

The military department has been in operation two years, under the efficient management of Lt. Edwin F. Glenn, of the United States army. Drill and the study of military science now constitute a part of the curriculum for Freshman year. A good degree of proficiency has been attained by the girls as well as by the boys. It has been the policy of the faculty to excuse from the drill all girls who do not wish to take the drill. This policy is wise and should be continued. The military drill would be a legitimate part of the training in the school of agriculture, and should be introduced there as soon as circumstances will permit. The only obstacle at present to its introduction is the want of a drill hall. As the school is in session only during the cold weather, military exercises are impossible without a drill hall. The matter is commended to the attention of the regents for action at such time as the other more pressing needs of the University will permit.

GYMNASIUM.

There is no gymnasium connected with the University and the want of one is very much felt by the students, particularly in that part of the year when out-of-door exercise is almost impossible. It is not desirable that a gymnasium should be provided solely or mainly in the interest of athletic sports, nor that these sports should become a leading feature of the University. But for the sake of the health of the students a gymnasium is desirable. A plain structure with the necessary apparatus and instruction in the use of it, will meet every re-

quirement. It is not expected that all the needs of the University will be met at once, especially in this, its building era. But attention is called to this want, simply because it is a real want, in order that it may be considered by the board in connection with the other needs of the institution and may receive such attention as its relative importance may justify.

NUMBER OF STUDENTS AND CONSEQUENT EXPENDITURES.

By vote of the board of regents the preparatory class was discontinued at the close of the year 1889-90, and no injurious results are likely to be experienced. The total number of students in the University in the year 1888-89 was seven hundred eighty-one; in the year 1889-90, one thousand two. The prospects for the coming year are such as to indicate a larger attendance even than during the past year. The expense of providing teachers for the large increase of students must be somewhat greater than heretofore, though the increase of expense will not by any means be in the same ratio as the increase in the number of students. It is very fortunate for the University that provision for the exigencies resulting from its rapid growth was made in good time, and that no serious difficulty need be apprehended no matter how many students may present themselves. Aside from the library and the medical department, the school of agriculture is the only part of the University that is likely in the near future to have more students than it can care for with its present buildings, and the erection of another building for this school as was contemplated when the last building was erected, would remove this difficulty. The present indications are that this new building will be needed the next year if not the present year.

CYRUS NORTROP,

President.

DEGREES CONFERRED.

Since the last report degrees have been conferred as follows:

	1889.	1890.
Bachelors of Arts.....	7	10
Bachelors of Science.....	10	22
Bachelors of Literature.....	9	11
Bachelors of Civil Engineering.....	1	9
Bachelors of Mechanical Engineering....	..	3
Bachelors of Laws.....	3	40
Doctors of Medicine.....	20	17
Doctors of Dental Surgery.....	1	6
Masters of Arts.....	1	..
Masters of Literature.....	..	1

The names and residences of these graduates are given in Appendix "A."

The enrollment and classification of students during the two years covered by this report, 1888-89 and 1889-90, are given in Appendix "B."

The following table shows the number and kinds of degrees which have been conferred by this University:

	1873	1874	1875	1876	1877	1878	1879	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	1890	Total.
B. A.....	2	1	3	3	9	5	8	4	10	11	8	9	3	6	7	6	7	10	112
B. S.....		1	2	5	3	8	10	9	10	9	7	9	3	6	12	12	10	22	138
B. L.....			1		4	1	6	4	7	11	7	3	2	6	5	14	9	11	95
B. O. E.....			3	3			2				2	3	2		1	1	1	9	27
B. M. E.....						1					1		1		1	2		3	9
B. Arch.....					1								1	1					2
B. Agric.....										1			1		1				3
L. L. B.....																3		40	43
B. M.....												2	2	3	2				9
M. D.....																	20	17	37
D. D. S.....																	1	6	7
M. A.....							1	1							1				4
M. S.....										1			1			1			3
M. L.....																		1	1
Ph. D.....																1			1
C. E.....																1			1
Totals.	2	2	9	11	17	15	26	18	28	33	25	26	19	22	30	38	52	119	492

The whole number of degrees conferred is 492, five persons having received degrees both in science and in engineering; one person having received a degree both in arts and in science, and seven bachelors having received a master's degree, after passing the required examinations. No honorary degrees have been conferred.

The whole number of degrees conferred on women is 108, viz: Bachelors of Arts, 17; of Science, 24; of Literature, 63; of Medicine, 1; Doctor of Medicine, 1; Master of Literature, 1; and Doctor of Dental Surgery, 1; one person having received a degree both in arts and science, and one person having received both a Bachelor's and a Master's degree in Literature: The number of women therefore who have received a degree is 106.

CYRUS NORTROP,

President.

APPENDIX "A."

At the seventeenth annual commencement, held June 6, 1889, the following persons received degrees:

THE COLLEGE OF SCIENCE, LITERATURE AND THE ARTS.

FOR BACHELOR OF ARTS—7.

William Whittelsey Cheney.....	Minneapolis
John Culbert Faries.....	Minneapolis
Arthur E. Giddings.....	Anoka
William Baker Ladue.....	Salem, Oregon
Margaret Louisa Sewall.....	St. Paul
Lydia Kathrina Strohmeier.....	Minneapolis
*Oscar Lovell Triggs.....	Taopi

FOR BACHELOR OF SCIENCE—10.

Frank Sherman Abernethy.....	Minneapolis
Earle J. Babcock.....	Minneapolis
Gratia Alta Countryman.....	Minneapolis
John Paul Goode.....	Marion
Frank Dumars Jones.....	Minneapolis
Alfred Lind.....	Winthrop
George Henry Meacham.....	Prescott, Wis
Alonzo Draper Meeds.....	Stillwater
Ada Emily Smith.....	Algona, Iowa
Walter Lincoln Stockwell.....	Anoka

FOR BACHELOR OF LITERATURE—9.

*Kendric Charles Babcock.....	So. Brookfield, N. Y.
Rebecca Virginia Baker.....	Minneapolis
Gustav O. Brohough.....	Red Wing
Mattie Laura Elwell.....	Minneapolis
Henry Johnson.....	Sauk Center
Jessie McMillan.....	Minneapolis
Robert Leslie Moffett.....	Minneapolis
Maud Thompson.....	Minneapolis
Helen Edith Waters.....	Minneapolis

FOR MASTER OF ARTS—1.

William Aaron Hadley (B. A. '81, Earlham College.)

THE COLLEGE OF MECHANIC ARTS.

FOR BACHELOR OF CIVIL ENGINEERING—1.

Clarence Stanley Coe.....Iowa City, Ia

THE DEPARTMENT OF LAW.

FOR BACHELOR OF LAWS—3.

James Manahan.....	Chatfield
Frank John Smith.....	Minneapolis
Charles Sumner Whiting.....	Rochester

*"Fellows of the University of Minnesota" for the year 1889-90, by election of the University Fellowship Association.

THE DEPARTMENT OF MEDICINE.

FOR DOCTOR OF MEDICINE—20.

The College of Medicine and Surgery—16.

John Allen Bernard.....	Minneapolis
Ralph Rollin Chase.....	Minneapolis
Guy Philander Corwin.....	Minneapolis
Nils Gustaf Dahlstedt.....	Minneapolis
Charles Elvin Dutton.....	Minneapolis
Edward Anton Edholm.....	Minneapolis
William Henry Hanscom.....	Minneapolis
Knute Andrias Kjos.....	Minneapolis
Ole Edvard Linjer.....	Duluth
William Francis McCarthy.....	Minneapolis
George W. Phillips.....	St. Paul
Johan Andrew Regner.....	Minneapolis
John South, Jr.....	Minneapolis
Edwin Darwin Steel.....	Mankato
Frank Adolphus Watkins.....	Minneapolis
Ulysses Grant Williams.....	Minneapolis

The College of Homeopathic Medicine and Surgery—4.

Wallace E. Belt.....	Minneapolis
Benedicta Lager Carlson.....	St. Peter
Fred Wilbur Urie.....	Minneapolis
Edward Weldon Young.....	Minneapolis

FOR DOCTOR OF DENTAL SURGERY—1.

Gainsford Ridgeway.....	Minneapolis
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At the Eighteenth Annual Commencement, held June 5, 1890.
the following persons received degrees:

THE COLLEGE OF SCIENCE, LITERATURE AND THE ARTS.

FOR BACHELOR OF ARTS—10.

Hattie Louise Andrews.....	Minneapolis
Christian H. Christianson.....	Bath
Charles Thompson Conger.....	78 Washington Place, N. Y.
Lana Mariah Countryman.....	Minneapolis
Harrison Earl Fryberger.....	Minneapolis
Lewis Henry Kennedy.....	Litchfield
Gustave Axel Petri.....	Minneapolis
*Joseph Brown Pike.....	Minneapolis
Milton Rex.....	Minneapolis
Frederick Cogswell Waite.....	Winona

FOR BACHELOR OF SCIENCE—22.

Henry Patterson Baily.....	Minneapolis
William Artemus Beach.....	Minneapolis
Frank Joseph Brabec.....	Hutchinson
Peter Christianson.....	Bath
Henry Cotton.....	Prescott, Wis.
Frank Edward Covell.....	Minneapolis
Rollin Edward Cutts.....	Forest City
Warren Maynard Dodge.....	Farmington
James Colfax Grant.....	Minneapolis
Otis Carsley Gross.....	Pickwick
Charles William Jackson.....	Brooklyn Centre
Harry Martin Kennedy.....	Litchfield
Patrick Kennedy.....	Oshawa

Burt Frank Lum.....	Minneapolis
*Louise Montgomery.....	St. Cloud
Herbert Gilman Richardson.....	Minneapolis
Oscar Kelsy Richardson.....	Minneapolis
Albert Woodward Shaw.....	Minneapolis
Edward Martin Spaulding.....	Minneapolis
Max West.....	Minneapolis
Ole Knute Wilson.....	Gilchrist
Walter Edwin Winslow.....	Minneapolis

FOR BACHELOR OF LITERATURE—II.

Antoinette Judson Abernethy.....	Minneapolis
Victor Selden Clark.....	Minneapolis
Sarah Catherine Comfort.....	Minneapolis
Flora Joy Frost.....	Jackson
Mary Mills.....	Elk River
Jessie May Nicol.....	Minneapolis
Edith Viola Phillips.....	Minneapolis
William Henry A. Rutherford.....	Rockford
Siver Serungard.....	Minneapolis
Charles Lyesring Sommers.....	St. Paul
Mary Louise Weber.....	Ellington

FOR MASTER OF LITERATURE—I.

Matilda Jane Wilkin.....	Minneapolis
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THE COLLEGE OF MECHANIC ARTS.

FOR BACHELOR OF CIVIL ENGINEERING—.

John Lucius Burt.....	Minneapolis
Wilbur Wainwright Dann.....	Minneapolis
Fred Hayward Gilman.....	Rosemount
Williston Wirt Greenwood.....	Mankato
John Foot Hayden.....	Fargo, N. D.
John Turner Higgins.....	Hutchinson
William Housmer Hoyt.....	Minneapolis
William Carpenter Smith.....	St. Cloud
Birney Elias Trask.....	Minneapolis

FOR BACHELOR OF MECHANICAL ENGINEERING—3.

Martin Hughes Gerry, Jr.....	Minneapolis
Thorwald Eid Nilson.....	Atwater
Herbert M. Woodward.....	Richfield

THE DEPARTMENT OF LAW.

FOR BACHELOR OF LAW—40.

Joseph Boyd Allen.....	Minneapolis
Michael M. Anderson.....	Hendrum
Bertrand A. Avery.....	Albert Lea
Winfield W. Bardwell.....	Minneapolis
John William Best.....	St. Paul
Charles E. Bond.....	Minneapolis
James Montgomery Burlingame, Jr.,.....	Owatonna
Johnston Campbell.....	Marine Mills
John William Conlow.....	Minneapolis
Frank Thomas Corrison.....	Minneapolis

*"Fellows of the University of Minnesota" for the year 1889, by election of the University Fellowship Association. Mr. O. L. Trigge, Fellow of '89, is also continued for another year, but without stipend.

Daniel Lincoln Dawley.....	Smithfield
Horace Danforth Dickinson.....	Minneapolis
George Perkins Douglass.....	Minneapolis
Simpson Ferree.....	Minneapolis
John Thomas Getty.....	Minneapolis
Edgerton Ferguson Gummer.....	Frazee City
James Elsworth Gyde.....	Minneapolis
Alfred James Harris.....	Kent
Charles August Holt.....	Minneapolis
John C. Judge.....	Minneapolis
Robert S. Kolliner.....	Stillwater
John Andrew Larimore.....	Minneapolis
Ezra Edward McCrear.....	Hamline
Henry Stowell Mead.....	Minneapolis
Charles J. Monson.....	Otisville
John Peter Nelson.....	Minneapolis
Robert Boyd Nutting.....	Northfield
James Paige.....	Minneapolis
Ralph James Parker.....	Spring Valley
Samuel Cleland Polley.....	Aitkin
Charles Edward Purdy.....	Minneapolis
John Rustgard.....	Minneapolis
Charles Melancthon Schaeffer.....	Minneapolis
Jacob Daniel Smeltzer.....	Minneapolis
Albert J. Smith.....	Minneapolis
Harry Davis Stocker.....	Minneapolis
Charles Fielding Stone.....	Howard Lake
William Robert Triggs.....	Minneapolis
James Henry Waters.....	Minneapolis
Edward Winterer.....	Le Sueur

THE DEPARTMENT OF MEDICINE.

FOR DOCTOR OF MEDICINE—17.

The College of Medicine and Surgery—15.

Frank Wilson Dean.....	Minneapolis
Rollo C. Dugan.....	Eyota
Corydon Lovine Ford.....	Ann Arbor, Mich
Frederick Erasmus Franchere.....	Lake Crystal
Charles Lyman Greene.....	St. Paul
John Louis Hennemuth.....	St. Paul
Charles Henry Jones.....	Minneapolis
John Lyng.....	Minneapolis
Dennis Francis O'Connor.....	Afton
Timothy O'Connor.....	Annandale
Alfred Miller Ridgway.....	Minneapolis
Abram Siemens.....	Mountain Lake
Andrew Soderlind.....	Minneapolis
Joab Stowell, Jr.....	Minneapolis
Charles Osborne Wright.....	Hastings

THE COLLEGE OF HOMEOPATHIC MEDICINE AND SURGERY—2.

Fred Augustus Carrell.....	Plainview
Arthur Eugene White.....	Minneapolis

FOR DOCTOR OF DENTAL SURGERY—6.

Clinton Smith Deitz.....	Lake Preston, S. D.
William Herbert Dunn.....	Northfield
Arthur Ellsworth Peck.....	Minneapolis
Charles Alonzo Van Duzee.....	St. Paul
Franklin Randolph Wright.....	Minneapolis
Edith Hewett White.....	Minneapolis

APPENDIX "B."

The following tables exhibit the enrollment and classification of the students:

SUMMARY 1888-89.

DEPARTMENT.	Class.	G'ntle- men.	Ladies	Total.
Graduate Students.....		20	14	34
College of Science, Literature and Arts, and College of Mechanic Arts	(Senior.....	20	9	29
	Junior.....	51	12	63
	Sophomore.....	56	14	70
	Freshmen.....	94	31	125
	Sub-Freshmen.....	42	4	46
	Special.....	39	42	81
School of Practical Mechanics.....		72		72
School of Design, Free-hand Drawing and Wood Carving.....		16	27	43
School of Agriculture.....		47		47
Department of Law	{ Senior.....	4		4
	{ Junior.....	63		63
College of Medicine and Surgery.. ..	{ Senior.....	16		16
	{ Middle.....	25	1	26
	{ Junior.....	30	3	33
College of Homeopathic Medicine and Surgery	{ Senior.....	3	1	4
	{ Middle.....	5		5
	{ Junior.....	3	1	4
College of Dentistry.....	{ Senior.....	1		1
	{ Middle.....	7	1	8
	{ Junior.....	12	1	13
Special Medical Students.....		5	1	6
		631	162	793
Twice counted.....		10	2	12
Total.....		621	160	781

SUMMARY 1889-90.

DEPARTMENT.	Class.	G'ntle- men.	Ladies	Total.
Graduate Students.....		23	25	48
College of Science, Literature and Arts, and College of Mechanic Arts.....	{ Senior.....	47	10	57
	{ Junior.....	50	16	66
	{ Sophomore.....	62	26	88
	{ Freshman.....	105	53	158
	{ Sub-Freshman.....	33	13	46
	{ Special.....	48	53	101
School of Practical Mechanics.....		62		62
School of Design, Free-hand Drawing and Wood Carving.....		13	25	38
School of Agriculture.....		78		78
Department of Law.....	{ Senior.....	45		45
	{ Junior.....	88	1	89
College of Medicine and Surgery.....	{ Senior.....	18		18
	{ Junior.....	27	5	32
	{ Freshman.....	35	2	37
College of Homeopathic Medicine and Surgery.....	{ Senior.....	3		3
	{ Junior.....	2		2
	{ Freshman.....	3		3
College of Dentistry.....	{ Senior.....	5	1	6
	{ Junior.....	9	1	10
	{ Freshman.....	12		12
Special Medical Students.....		3	1	4
Department of Veterinary Medicine.....	Junior.....	4		4
		775	232	1,007
Twice counted.....		5		5
Total.....		770	232	1,002

TREASURER'S REPORT.

H. P. BROWNE, TREASURER.

In Account with University of Minnesota, for the Fiscal Year Ending July
31, 1889.

CURRENT EXPENSE.

		Dr.	Cr.
1888.			
Aug.	1. By balance from last statement		\$25,419.87
Aug.	6. By cash from state treasurer, aud. warrant.....		20,967.41
Nov.	13. By cash from state treasurer, aud. warrant.....		10,260.53
Nov.	13. By cash from state treasurer, aud. warrant.....		16,090.17
Jan.	17. By cash from state treasurer, aud. warrant.....		9,731.23
Feb.	27. By cash from state treasurer, aud. warrant.....		11,985.52
May	26. By cash from state treasurer, aud. warrant.....		10,000.00
July	31. By cash from state treasurer, aud. warrant.....		6,805.32
July	31. To balance transferred from acct. chemical laborat'y	\$663.06	
July	31. To balance transferred from acct. campus	2,356.60	
July	31. To balance transferred from acct. experimental farm	5,368.21	
July	31. To balance transferred from acct. college mech. arts.	8,481.88	
July	31. To balance transferred from acct. employees.....	5,453.51	
July	31. To balance transferred from acct. heating.....	2,416.59	
July	31. To balance transferred from acct. library	2,476.12	
July	31. To balance transferred from acct. laboratory biology	85.95	
July	31. To balance transferred from acct. laboratory geology		
	and mineralogy	357.89	
July	31. To balance transferred from acct. physical laborat'y	918.30	
July	31. To balance transferred from acct. printing.....	1,661.60	
July	31. To balance transferred from acct. repairs.....	682.01	
July	31. To balance transferred from acct. salaries for instr..	46,263.00	
July	31. To balance transferred from acct. postage.....	563.77	
July	31. To balance transferred from acct. medical depart'm't	2,440.77	
July	31. To balance transferred from acct. incidentals.....	1,151.43	
July	31. To balance transferred from acct. college of law.....	456.15	
July	31. To balance transferred from acct. farm school.....	5,789.61	
July	31. To balance transferred to new account.....	23,563.68	
		\$111,160.05	\$111,160.05
Aug.	1. By balance.....		\$23,563.68

APPARATUS FOR MECHANICAL ARTS BUILDING.

		No. of Voucher.	Dr.	Cr.
1888.				
Aug.	3. To W. R. Hoag, expressage and drayage.....	1	\$28.70	
Aug.	20. To A. C. & C. F. Peters, plaster casts.....	12	21.93	
1889.				
Jan.	3. To J. S. MacClary, drawing benches.....	261	215.25	
Jan.	4. To W. K. Morrison & Co., wrenches, brushes, etc.	276	11.98	
March	8. To Janney, Semple & Co., saws, planes, etc.....	418	91.18	
March	8. To Janney, Semple & Co., mallets, rules, etc.....	420	105.00	
July	31. By balance transferred to account mechanical			\$474.04
	arts building.....			
			\$474.04	\$474.04

COLLEGE OF MECHANICAL ARTS BUILDING.

Jan.	3. To W. F. Porter & Co., placing coil, etc.....	258	110.00	
April	23. To F. A. Fisher & Co., finishing room.....	511	265.00	
July	31. To balance from account apparatus college of			474.04
	Mechanical Arts.....			
July	31. By balances transferred to acct. building fund..			\$849.04
			\$849.04	\$849.04

SCIENCE HALL BUILDING.

		No. of Voucher.	Dr.	Cr.
1888.				
Aug. 20.	To F. A. Fisher & Co., on account contract.....	24	\$10,000.00	
Sept. 13.	To F. A. Fisher & Co., on account contract.....	38	12,000.00	
Oct. 29.	To F. A. Fisher & Co., on account contract.....	95	15,000.00	
Nov. 15.	To L. S. Buffington, account services as architect	147	500.00	
Nov. 26.	To H. Kelly & Co., plumbing.....	192	185.19	
1889.				
Feb. 1.	To Trainor Bros., making change in porches....	326	220.00	
June 4.	To F. L. Douglas, making estimates, etc.....	612	30.00	
July 25.	To McCarthy & Courtney, lay'g gas and sewer pipe	714	538.50	
July 31.	By balance transferred to account building fund			\$38,473.69
			<u>\$38,473.69</u>	<u>\$38,473.69</u>

LABORATORY OF BIOLOGY.

Jan. 3.	To Shufeldt & Co., barrel of alcohol.....	269	\$29.30	
April 13.	To Educational Supply Co., dissecting stand.....	465	56.65	
July 31.	By balance transferred to current expense.....			\$85.95
			<u>\$85.95</u>	<u>\$85.95</u>

MILITARY BUILDING.

1888.				
Dec. 6.	To J. P. Gray, furnace.....	216	\$350.00	
1889.				
Jan. 2.	To R. B. Lees, repairing, etc.....	256	117.75	
Feb. 1.	To R. B. Lees, repairing, etc.....	329	4.10	
June 20.	To R. B. Lees, repairing, etc.....	644	125.01	
June 20.	To R. B. Lees, shelving.....	645	8.00	
July 31.	By balance carried to account building fund....			\$604.85
			<u>\$604.85</u>	<u>\$604.85</u>

CHEMICAL AND PHYSICAL LABORATORY BUILDING.

June 19.	To Globe Publishing Co., advrt'g for proposals. .	639	\$5.00	
June 26.	To L. S. Buffington, account services as architect	655	1,000.00	
June 25.	To Pioneer Press Co., advertising for proposals..	677	8.00	
July 31.	By balance carried to account building fund....			\$1,013.00

BUILDING FUND ACCOUNT.

Dec. 7.	To R. B. Lees, labor and repairs chemical dept'..	221	\$42.22	
1889.				
Jan. 2.	To R. B. Lees, labor and repairs physical dept'..	255	45.72	
Jan. 12.	To S. Sherman, labor greenhouse.....	300	8.70	
Feb. 21.	To F. A. Fisher & Co., fencing, glass, etc.....	374	464.00	
July 31.	To balance brought fr m acc't Mech. arts bid'g..		849.04	
July 31.	To balance brought from acc't science hall.....		38,473.69	
July 31.	To balance brought from acc't military building		604.85	
July 31.	To balance brought from acc't chemical and physical laboratory building.....		1,013.00	
1888.				
Aug. 1.	By balance from last statement.....			\$9,827.77
Aug. 24.	By cash from state treasurer on auditor's warrant.....			15,000.00
Sept. 27.	By cash from state treasurer on auditor's warrant.....			15,000.00
Dec. 21.	By losses paid by insurance companies.....			5,087.14
May 16.	By cash from state treasurer on auditor's warrant.....			280.00
June 8.	By cash from state treasurer on auditor's warrant.....			25,000.00
July 22.	By balance brought from sewerage acc't in 1887..			5,145.41
July 31.	To balance to new account.....		33,839.10	
			<u>\$75,340.32</u>	<u>\$75,340.32</u>
Aug. 1.	By balance.....			\$33,839.10

ENLARGEMENT OF CAMPUS.

1888.				
Aug. 1.	By balance from last statement.....			\$1,080.85
1889.				
July 31.	To balance to new account.....		1,080.85	
			<u>1,080.85</u>	<u>1,080.85</u>

CAMPUS.

1888.				
Sept. 24.	To Geo. A. Smith, labor on campus, &c.....	43	\$68.55	
Nov. 1.	To Fred Ahr, labor in October.....	107	35.00	
Nov. 30.	To Fred Ahr, labor in November.....	197	35.00	
1889.				
May 28.	To Balch & Weatherbee, grading.....	602	\$1,901.40	
May 31.	To S. Kixmoeller, sodding and trees.....	605	328.65	
July 31.	By balance carried to account current expense..			\$2,356.60
July 31.	By cash for rent of house on campus.....			12.00
			<u>\$2,368.60</u>	<u>\$2,368.60</u>

LABORATORY OF GEOLOGY AND MINERALOGY.

		No. of Voucher.	Dr.	Cr.
1888.				
Nov. 6.	To Frank Haywood & Co., museum trays.....	114	\$450.00	
Nov. 14.	To H. H. Shufeldt & Co., alcohol.....	140	29.00	
1889.				
Jan. 3.	To Alexander Murray, labor.....	262	20.00	
Jan. 3.	To Wheaton, Reynolds & Co., lumber for cab'n't	263	22.50	
Feb. 1.	To Alexander Murray, labor.....	328	16.00	
March 7.	To Alexander Murray, labor.....	395	7.20	
March 7.	To Sargent & Co., alcohol, lamps, etc.....	400	6.96	
March 8.	To Wheaton, Reynolds & Co., lumber and work.	411	12.29	
April 13.	To Pioneer Press, maps.....	472	7.50	
April 13.	To Sargent & Co., sundries.....	474	11.04	
May 22.	To Geo. S. Greenleaf, repairing blow-pipe, etc....	553	5.00	
May 22.	To Simmel & Co., glass crystal models.....	566	176.44	
July 10.	To C. W. Hall, sundries.....	695	33.11	
July 20.	To J. R. Hoffin & Co., bottles.....	709	4.35	
July 31.	By balance carried to current expense.....			\$357.89
			<hr/>	
			\$357.89	\$357.89

LIBRARY.

1888.				
Aug. 16.	To W. W. Folwell, freight and cartage.....	3	\$3.36	
Sept. 26.	To G. E. Stechert, books.....	44	303.03	
Sept. 26.	To G. E. Stechert, binding books.....	45	26.01	
Sept. 26.	To G. E. Stechert, books.....	46	183.47	
Sept. 26.	To W. W. Folwell, sundry expenses.....	48	9.40	
Sept. 28.	To W. T. Cole & Co., printed forms.....	57	7.50	
Sept. 29.	To Mrs. Mary Bowman, labor.....	61	32.70	
Oct. 13.	To G. Sidney Smith, second-hand books.....	89	6.00	
Oct. 20.	To W. W. Folwell, subscription Engineering News	92	3.25	
Oct. 30.	To D. Appleton & Co., books.....	115	24.00	
Oct. 30.	To S. E. Cassius, naturalists' directory.....	117	2.59	
Nov. 28.	To Gustav E. Stechert, books.....	200	44.69	
1889.				
Jan. 5.	To Gustav E. Stechert, books.....	286	102.77	
Feb. 1.	To W. H. Hoyt, books.....	327	23.75	
March 7.	To Gustav E. Stechert, books.....	404	212.05	
March 13.	To Gustav E. Stechert, books.....	405	176.45	
April 17.	To Gustav E. Stechert, books.....	458	24.50	
April 18.	To O. J. Breda, books.....	479	8.00	
April 18.	To Gustav E. Stechert, books.....	484	51.16	
April 18.	To Gustav E. Stechert, books.....	485	211.08	
April 22.	To James A. Dodge, books and expressage.....	497	25.80	
May 21.	To Gustav E. Stechert, books.....	579	40.17	
May 22.	To Ginn & Co., books.....	594	9.00	
June 5.	To C. D. Whitall & Co., books.....	614	10.80	
July 10.	To Houghton, Mifflin & Co., books.....	614	38.50	
July 20.	To Harrison & Smith, binding books.....	710	133.70	
July 20.	To Gustav E. Stechert, books.....	720	160.57	
July 31.	To Cyrus Northrop, Pres., books, freight, etc....	725	616.11	
Sept. 10.	By balance carried to account current expense....			\$2,476.12
Sept. 10.	By cash for injuries to books, books lost, etc.....			14.89
			<hr/>	
			\$2,491.01	\$2,491.01

CHEMICAL LABORATORY.

Sept. 26.	To Noyes Bros. & Cutler, sundries.....	47	\$48.49	
Oct. 5.	To Benjamin Mngf. Co., sundries.....	67	450.00	
Nov. 17.	To N. W. Star Oil Co., gasoline.....	111	8.84	
Nov. 20.	To McCarthy & Courtney, repairing pipes.....	185	50.00	
Nov. 28.	To Noyes Bros. & Cutler, sundries.....	195	12.48	
Nov. 26.	To V. Truesdell, coal.....	191	128.50	
Nov. 28.	To Emier & Amend, sundries.....	201	89.58	
Dec. 24.	To W. W. Sykes & Co., repairing pipes.....	245	13.11	
Dec. 6.	To Ward & Howell, various minerals.....	232	25.50	
1889.				
Jan. 8.	To N. W. Star Oil Co., gasoline and oil.....	289	10.12	
Feb. 2.	To V. Truesdell, coal.....	339	108.40	
Feb. 4.	To L. Kimball & Co., receipts, blanks, &c.....	341	11.25	
Feb. 1.	To Emier & Amend, sundries.....	350	54.58	
April 15.	To N. W. Star Oil Co., gasoline.....	478	8.25	
Mar 7.	To N. W. Star Oil Co., gasoline.....	397	8.93	
April 13.	To James W. Queen & Co., battery, &c.....	504	34.50	
May 29.	To Noyes Bros. & Cutler, bi-carbonate soda.....	609	1.50	
June 21.	To B. A. Avery, labor.....	647	19.50	
1888.				
Nov. 30.	By cash, students fees.....			\$102.10
Nov. 30.	By cash, 20 per cent receipts for outside work....			122.70
1889.				
June 21.	By cash, students' fees.....			114.75
June 21.	By cash, 20 per cent receipts for outside work....			80.00
July 31.	By balance carried to acct. current expense.....			663.98
			<hr/>	
			\$1,083.53	\$1,083.53

SIXTH BIENNIAL REPORT

		FURNITURE.	No. of Voucher.	Dr.	Cr.
1888.	Sept. 27.	To R. B. Lees, tables	55	\$16.00	
	Oct. 30.	To DeCoster and Clark, desks	98	45.00	
	Oct. 31.	To Barnard & Cope, chairs.....	101	80.00	
1889.	July 31.	To balance carried to new account		318.90	
1888.	July 31.	By balance from last statement			\$459.90
				\$459.90	\$459.90
1889.	Aug. 1.	By balance.....			\$318.90
HEATING AND LIGHTING.					
1888.	Sept. 7.	Minn. Brush Electric Co., lamps at Coliseum....	32	\$179.00	
	Oct. 6.	Lockwood, Upton & Co., iron bars	78	47.83	
	Oct. 6.	Lockwood, Upton & Co., iron bars	79	26.91	
	Oct. 8.	North Western Fuel Co., coal	81	284.57	
	Oct. 29.	Geo. C. Moore, wood.....	94	147.00	
	Nov. 14.	North Western Fuel Co., coal	129	14.28	
	Dec. 1.	Agent N. P. R. R., freight on wood	205	48.035	
	Dec. 7.	North Western Fuel Co., coal	225	71.25	
	Dec. 7.	North Western Fuel Co., coal	226	9.86	
	Dec. 21.	Agent N. P. R. R., freight on wood	243	18.00	
	Dec. 21.	Agent N. P. R. R., freight on wood	244	17.18	
1889.	Jan. 4.	North Western Fuel Co., coal	271	82.65	
	Jan. 4.	North Western Fuel Co., coal	272	74.33	
	Jan. 4.	North Western Fuel Co., coal	273	76.00	
	Jan. 4.	North Western Fuel Co., coal	274	74.34	
	Jan. 4.	North Western Fuel Co., coal	275	69.23	
	Feb. 1.	North Western Fuel Co., coal	311	78.38	
	Feb. 1.	North Western Fuel Co., coal	322	83.12	
	Feb. 2.	V. Truesdell, coal.....	332	106.40	
	March 7.	North Western Fuel Co., coal	393	283.33	
	March 7.	North Western Fuel Co., coal	394	76.95	
	May 22.	North Western Fuel Co., coal	554	500.40	
	June 24.	North Western Fuel Co., coal	653	47.50	
	July 31.	By balance carried to acct. current expense			\$2,416.59
				\$2,416.59	\$2,416.59
INSURANCE.					
1888.	Aug. 1.	To balance from last statement.....		\$254.00	
	Oct. 11.	Christian Wagner, on military bldg.....	88	16.15	
	Oct. 24.	McMillan & Hastings, state farm building.....	93	896.00	
1889.	Jan. 31.	McMillan & Hastings, state farm building.....	310	103.15	
1888.	Sept. 29.	By cash from state treasurer.....			\$1,000.00
1889.	July 31.	Balance carried to new account.....			17.84
				\$1,017.84	\$1,017.84
Aug. 1.	To balance.....			\$17.84	
INCIDENTALS.					
1888.	Aug. 1.	To D. L. Kiehle (this charge should have been made July 2—see explanation last statement)	29	\$19.77	
	Sept. 8.	To W. J. Mahaffy, printing	33	12.00	
	Sept. 7.	To M. Lara & Co., matting	34	121.58	
	Sept. 7.	To Warner Bros., sundry hardware	34	41.23	
	Sept. 14.	To J. A. Schlener & Co., stationery, &c.....	39	17.23	
	Sept. 22.	To J. W. Day, ice	42	11.67	
	Sept. 27.	To Middlemist & Taylor, plastering	49	22.00	
	Sept. 27.	To Middlemist & Taylor, plastering and papering	50	85.15	
	Sept. 27.	To Middlemist & Taylor, papering	51	2.98	
	Sept. 27.	To Middlemist & Taylor, papering	52	14.00	
	Sept. 27.	To Middlemist & Taylor, papering	53	41.05	
	Sept. 27.	To Folds & Griffiths, linoleum and shades.....	54	115.95	
	Sept. 27.	To Minneapolis Office and School Furniture Co., slate boards	58	124.00	
	Sept. 28.	To Warner Bros., picture nails, &c.....	58	16.03	
	Oct. 6.	To Warner Bros., sundries.....	68	10.11	
	Nov. 17.	To C. F. Sidener, prep. oxygen and hydrogen.....	180	5.00	
	Nov. 20.	To N. W. Telephone Co., services	187	122.45	
	Dec. 6.	To Gillilan, Belden & W., examining title, &c..	213	101.90	
	Dec. 7.	To E. B. Lees, table	220	7.75	
	Dec. 17.	To J. H. Bishop & Co., stationery.....	237	19.72	
	Dec. 18.	To F. A. Fletcher & Co., sundries	239	10.68	
	Dec. 29.	To N. W. Telephone Co., services	246	38.40	

		No. of Voucher.	Dr.	Cr.
1889.				
Jan. 2.	To R. B. Lees, table and book case.....	257	13.50	
Jan. 3.	To Warner Bros., glass, rope, &c.....	264	21.13	
Jan. 14.	To McCarthy & Courtney, repairing.....	297	9.75	
Feb. 1.	To R. B. Lees, tables.....	312	45.00	
Feb. 1.	To Naylor & Co., wrenches.....	325	5.80	
Feb. 4.	To Littlefield & Son, stovepipes, and putting up same.....	343	6.80	
Jan. 14.	To Cuzner & Odean, measuring quarry.....	347	9.00	
Feb. 1.	To D. L. Kiehle, sundries.....	351	35.33	
Feb. 9.	To George A. Smith, work on campus.....	354	5.55	
Feb. 19.	To N. W. Telephone Exchange Co., services.....	378	39.70	
March 8.	To O. W. Willitts, campus.....	410	5.00	
March 8.	To M. Lara & Co., linoleum.....	412	12.00	
March 8.	To Miller Bros. & Fletcher, sundries for plant-house.....	415	20.60	
March 16.	To Glessner & Washburn, repairing.....	425	8.75	
March 26.	To R. B. Lees, repairing.....	444	26.70	
March 26.	To R. B. Lees, work in library.....	445	32.20	
March 23.	To C. B. & Q. R. R., freight on guns.....	452	24.95	
April 13.	To D. L. Kiehle, sundries.....	464	47.72	
April 13.	To N. W. Telephone Co., services.....	469	38.30	
April 13.	To Wm. R. Burkhardt, wooden guns.....	473	30.00	
April 15.	To J. W. Day, ice.....	475	20.43	
April 23.	To F. H. Fisher & Co., repairs plant house.....	513	48.72	
May 20.	To R. B. Lees, gun racks, &c.....	544	27.75	
May 21.	To W. S. Nott & Co., hose.....	548	18.75	
May 24.	To J. H. Hagen & Co., painting.....	576	5.92	
June 11.	To McCarthy & Courtney, iron pipe, &c.....	616	19.74	
June 12.	To N. W. Telephone Co., services.....	625	38.00	
June 15.	To J. W. Day, ice.....	630	8.38	
June 20.	To W. H. Yattaw, cleaning buildings.....	646	50.00	
June 22.	To Dr. Jabez Brooks, money advanced to make purchases for university.....	652	300.00	
July 12.	To C. C. Curtis, filling out diplomas.....	698	69.75	
July 30.	To Cyrus Northrop, Pres., sundries.....	722	155.18	
July 30.	To Cyrus Northrop, Pres., sundries.....	723	957.33	
July 31.	To B. N. Johnson, commissions sale of lands.....	727	43.05	
July 31.	By balance carried to acct. current expense.....			\$1,151.43
July 31.	By cash for students' fees.....			2,010.00
				<hr/>
			\$3,161.43	\$3,161.43

PHYSICAL LABORATORY.

1888.				
Oct. 6.	To R. B. Lees, tables, &c.....	75	\$62.50	
Nov. 1.	To R. B. Lees, labor.....	109	28.25	
Nov. 17.	To Minneapolis Electric Co., binding posts, etc.....	113	1.74	
Oct. 30.	To James W. Queen & Co., sundry instruments.....	116	109.40	
Nov. 14.	To Edison Electric Light Co., insulated wire, &c.....	133	33.01	
Nov. 28.	To John Whitmore, sundries.....	193	12.25	
Dec. 4.	To Bell & Co., wire, &c.....	207	5.55	
1889.				
Jan. 3.	To Jas. W. Queen & Co., sundry instruments.....	284	233.50	
Jan. 3.	To Jas. W. Queen & Co., sundry instruments.....	285	289.50	
Jan. 10.	To Minneapolis Electric Co., wire, &c.....	292	4.80	
Jan. 31.	To John Whitmore, Edison meter No. 2.....	308	10.79	
April 13.	To James W. Queen & Co., sundry instruments.....	457	88.63	
April 16.	To John Whitmore, sundries.....	491	14.77	
April 17.	To Minneapolis Electric Co., wire.....	492	2.40	
April 20.	To Leonard & Izard, indicator lamps.....	536	3.65	
May 21.	To O. A. Hoffman & Bro., rubber trays, &c.....	545	3.60	
May 21.	To John Whitmore, sundries.....	562	10.96	
May 25.	To R. B. Lees, weather strips and labor.....	598	8.00	
July 31.	By balance carried to acct. current expense.....			\$918.30
				<hr/>
			\$918.30	\$918.30

PRINTING.

1888.				
Sept. 29.	Tribune Job Printing Co., sundries.....	60	\$77.10	
Oct. 31.	Tribune Job Printing Co., lecture cards, etc.....	103	9.00	
Nov. 19.	Tribune Job Printing Co., law dept. blanks.....	181	32.25	
Dec. 21.	Ariel Association, advertising, 1888.....	241	75.00	
1889.				
Jan. 12.	Tribune Job Printing Co., military dept. blanks.....	296	17.25	
April 20.	Tribune Job Printing Co., reports, etc.....	496	49.25	
June 12.	P. C. Thielen & Co., programmes.....	624	3.50	
June 18.	F. A. Johnson, adver. in various state newspapers.....	633	300.00	
June 12.	Louis Dreka, diplomas.....	635	68.75	
June 22.	The Gopher, advertising.....	650	25.00	
July 8.	Tribune Job Print'g Co., programmes, blanks, etc.....	688	886.05	
July 25.	Tribune Job Printing Co., receipts, etc.....	719	49.25	
July 30.	Cyrus Northrop, Pt., sundries.....	721	69.20	
July 31.	By balance carried to account current expense.....			\$1,661.60
				<hr/>
			\$1,661.60	\$1,661.60

REPAIRS.

		No of	Dr.	Cr.	
		Voucher.			
1888.					
Sept.	8.	W. F. Maffay, painting.....	30	\$18.00	
Oct.	31.	Warner Bros., labor and material.....	105	94.34	
Nov.	14.	Naylor & Co., sundries.....	134	21.66	
Dec.	6.	Littlefield & Son, fixing furnace.....	214	72.59	
1889.					
June	26.	Bovey-DeLaittre Lumber Co., lumber.....	668	87.03	
July	29.	Fred Piper, calcimining.....	673	125.00	
July	9.	Wheaton, Reynolds & Co., lumber.....	689	21.02	
July	9.	John Renville, labor.....	690	23.75	
July	9.	J. P. Gray, paint, putty, etc.....	693	56.85	
July	11.	Bovey, DeLaittre Lumber Co., lumber.....	697	6.12	
July	17.	W. H. Yattaw, calcimining.....	700	100.00	
July	27.	Littlefield & Moore, labor and material.....	718	55.65	
July	31.	By balance carried to account current expense.....			\$682.01
					\$682.01
					\$682.01

STATIONERY, POSTAGE, ETC.

1888.					
Sept.	10.	Jas. H. Bishop & Co., paper.....	37	\$36.00	
1889.					
July	30.	Cyrus Northrop, Pres., postage, wrappers, etc., 88-89.....	726	527.77	
July	31.	By balance carried to account current expense.....			\$563.77

MEDICAL DEPARTMENT.

1888.					
Sept.	30.	Professors and employees, salaries for Sept.....	63	\$191.66	
Oct.	6.	Warner Bros., material and labor.....	71	35.01	
Oct.	6.	W. H. Yattaw, overseeing repairs.....	72	10.00	
Oct.	6.	R. B. Lees, material and labor.....	73	7.45	
Oct.	6.	F. S. Martin, grate bars and fitting.....	77	23.90	
Oct.	8.	Trainer Bros., fire clay, &c.....	83	13.18	
Oct.	17.	Mrs. M. E. Marshall, janitor work.....	91	18.30	
Oct.	30.	P. H. Millard, salary due as dean.....	100	600.00	
Oct.	31.	Tribune Job Ptg. Co., sundry forms.....	104	84.00	
Nov.	1.	C. J. Bell, salary for Sept.....	106	120.00	
Nov.	1.	Professors and employees, salaries for Oct.....	118	351.66	
Nov.	14.	W. W. Parker, tank and labor.....	131	42.10	
Nov.	14.	P. H. Millard, stationery and postage.....	136	142.60	
Nov.	14.	Dispatch Job Ptg. Co., sundry cards.....	137	9.00	
Nov.	14.	N. W. Medical Lancet, advertising.....	139	60.00	
Nov.	14.	N. S. Davis, M. D., advertising.....	141	21.00	
Nov.	15.	N. W. Fuel Co., coal and wood.....	143	50.50	
Nov.	15.	H. C. Aldrich, circulars and stamps.....	144	14.00	
Nov.	15.	H. C. Aldrich, circulars and stamps.....	145	4.50	
Nov.	15.	H. C. Aldrich, advertising.....	146	53.50	
Nov.	16.	Mpls. Dental Mfg. Co., dental tools.....	151	69.06	
Nov.	16.	B. R. J. Thaxter, plumbing, &c.....	154	70.75	
Nov.	14.	Wm. Wood & Co., advertising.....	173	25.00	
Nov.	19.	Tribune Job Ptg. Co., sundry blanks.....	182	14.00	
Nov.	19.	City Water Works, one year's rent.....	183	65.80	
Nov.	23.	C. H. Hunter, invitations and stamps.....	190	21.25	
Nov.	30.	Professors and employees, salaries for Nov.....	199	351.66	
Dec.	6.	Bausch & Lomb Opt. Co., sundry instruments.....	219	200.00	
Dec.	7.	N. W. Fuel Co., coal.....	222	50.50	
Dec.	7.	Bell & Co., electric bells.....	227	7.75	
Dec.	10.	Warner Bros., labor and material.....	231	11.05	
Dec.	13.	May E. Norris, making charts.....	236	20.00	
Dec.	17.	James A. Tyler, repairs.....	238	25.96	
Dec.	19.	E. F. Kemp, hauling wood.....	240	22.75	
Dec.	21.	N. P. R. R., freight on wood.....	242	14.47	
Dec.	31.	Professors and employees, salaries for Dec.....	250	351.66	
1889.					
Jan.	2.	B. B. Marshall & Son, repairing clock.....	252	2.75	
Jan.	3.	P. G. Hanson, various supplies.....	267	14.73	
Jan.	12.	Tribune Job Ptg. Co., dental forms.....	295	6.00	
Jan.	15.	R. B. Lees, material and labor.....	298	120.92	
Jan.	23.	W. J. Rose, laundry work.....	301	15.00	
Feb.	1.	Victoria Cab Co., cabs for St. Paul doctors.....	315	13.25	
Feb.	1.	Northwestern Fuel Co., coal.....	319	91.67	
Feb.	1.	Northwestern Fuel Co., coal.....	321	88.35	
Feb.	1.	Ransom & Rudolph, advertising.....	323	12.00	
Feb.	1.	Noyes Bros & Cutler, samples, etc.....	324	32.40	
Feb.	2.	Geo. A. Hendricks, tables, etc.....	330	21.40	
Feb.	4.	H. C. Aldrich, postal cards, etc.....	346	5.50	
Feb.	1.	White Dental Manufacturing Co., advertising.....	348	16.67	
Feb.	1.	Welch Dental Co., advertising.....	349	10.00	
Feb.	1.	St. Barnabas Hospital, heating and use of amph-theatre.....	352	102.50	
Feb.	8.	W. T. Keener, advertising.....	368	12.50	
Feb.	8.	J. F. McQuillan & Co., gas fixture.....	367	3.65	
Jan.	31.	Professors and employees, salaries for January.....	370	351.66	

		No. of Voucher.	DR.	CR.
1889.				
March 2.	St. Paul & Pacific Coal Co., coal.....	353	175.00	
March 4.	H. J. Finnegan, plumbing.....	355	9.27	
March 4.	H. J. Finnegan, plumbing.....	356	3.10	
Feb. 1.	International Dental Journal Co., advertising.....	373	15.00	
Feb. 28.	Professors and employees salaries for February.....	388	351.66	
March 7.	Northwestern Fuel Co., coal.....	396	71.25	
Mar. 30.	Professors' and employees' salaries for March.....	451	351.66	
April 13.	Lyman-Eliel Drug Co., jars.....	470	90.40	
April 30.	Professors' and employees' salaries for April.....	535	301.66	
May 6.	A. J. Finnegan, labor and material.....	537	3.55	
May 10.	St. Paul & Pacific Coal Co., coal.....	539	17.50	
May 13.	W. J. Brady, services in dental dept.....	540	50.00	
May 22.	Dispatch Job Ptg. Co., cards.....	563	9.75	
May 22.	St. Paul Gas Light Co., gas, Dec. to March, inc.....	564	17.60	
May 22.	St. Paul Odorless Ex. Co., removing ashes.....	590	3.00	
May 22.	City Water Works, water rent, six mos.....	591	34.05	
May 22.	Northwestern Fuel Co., coal.....	555	73.40	
May 24.	May E. Norris, charts.....	575	20.00	
May 31.	Professors and employees, salaries for May.....	607	351.66	
May 29.	Am. Stove Repair Wks., labor and material.....	611	9.25	
June 25.	St. Paul & Pac. Coal Co., coal.....	658	17.50	
June 29.	Professors and employees, salaries for June.....	704	296.66	
July 25.	P. G. Hanson, sundries.....	717	8.45	
July 30.	Cyrus Northrop, P., sundries.....	724	320.43	
Jan 4.	By cash, students' fees.....			\$3,600.00
July 31.	By cash, students' fees.....			648.00
July 31.	By balance carried to account current expense.....			2 449.77
			\$6,697.77	\$6,297.77

COLLEGE OF MECHANICAL ARTS.

1888.				
Aug. 20.	Tribune Job Printing Co., catalogues.....	9	\$65.00	
Sept. 8.	Wheaton, Reynolds & Co., lumber.....	31	12.75	
Sept. 6.	Robinson & Cary, wooden shelves.....	35	4.80	
Sept. 6.	Mrs. Anna Miller, cleaning.....	96	16.50	
Sept. 30.	Professors and employees, salaries for Sept.....	63	755.00	
Oct. 6.	Naylor & Co., baskets.....	76	6.00	
Oct. 8.	Bradstreet, Thurber & Co., stools.....	82	5.00	
Oct. 9.	M. W. Glenn, labor.....	85	36.70	
Oct. 31.	J. S. MacClary, benches.....	102	123.50	
Nov. 1.	A. C. & C. F. Peters, picture frames, etc.....	108	9.05	
Nov. 12.	W. K. Morrison & Co., window glass.....	112	1.79	
Nov. 14.	Naylor & Co., sundries.....	130	12.95	
Nov. 14.	J. S. MacClary, drawing tables.....	135	60.00	
Nov. 15.	N. W. Fuel Co., coal.....	142	26.00	
Nov. 15.	Weiskopf Bros., blackboard slating.....	149	3.00	
Nov. 16.	C. M. Douglas & Co., coal.....	152	7.00	
Nov. 16.	Chas. T. Leonard, duck.....	153	4.90	
Nov. 17.	Minn. Electric Co., wire.....	159	4.50	
Oct. 31.	Professors and employees, pay roll, October.....	118	755.00	
Nov. 22.	E. T. Sykes & Co., stove pipe, etc.....	189	20.04	
Nov. 30.	Professors and employees, pay roll, November.....	199	755.00	
Dec. 7.	N. W. Fuel Co., coal.....	223	61.04	
Dec. 7.	N. W. Fuel Co., coal.....	224	7.00	
Dec. 31.	Professors and employees, pay roll, December.....	250	755.00	
1889.				
Jan. 3.	Lyman-Eliel Drug Co., vitriol.....	259	4.28	
Jan. 3.	W. F. Phelps, calcimining.....	260	6.00	
Jan. 3.	Trainer Bros., cement, etc.....	265	15.50	
Jan. 3.	Trainer Bros., mortar, etc.....	266	13.00	
Jan. 4.	Bovey-DeLaittre Lumber Co., lumber.....	277	7.10	
Jan. 4.	W. K. Morrison & Co., locks, etc.....	280	7.00	
Jan. 8.	J. P. Gilmore, material for painting.....	288	11.85	
Jan. 10.	Bradstreet, Thurber & Co., stools.....	291	14.70	
Jan. 10.	Mpls. Electric Co., batteries, etc.....	293	2.70	
Feb. 1.	N. W. Fuel Co., coal.....	320	82.65	
Jan. 31.	Professors and employees, pay roll, January.....	370	755.00	
Feb. 28.	Professors and employees, pay roll, February.....	388	755.00	
March 30.	Professors and employees, pay roll, March.....	451	755.00	
April 12.	W. K. Morrison & Co., sundries.....	466	20.35	
April 15.	Cooley & Vater, pulleys.....	476	8.30	
April 15.	N. W. Star Oil Co., oil and turpentine.....	477	10.35	
April 15.	Wm. A. Pike, sundries.....	480	23.71	
April 15.	W. S. Nott Co., belting.....	488	33.83	
April 30.	Professors and employees, pay-roll, April.....	535	755.00	
May 13.	E. W. Pyle, sundries.....	541	6.50	
May 14.	Littlefield & Son, materials and labor.....	542	9.05	
May 16.	S. C. Walters, benches.....	543	37.50	
May 22.	W. A. Pike, paid for labor.....	565	62.70	
May 22.	Harrison & Smith, printing blanks.....	574	11.50	
May 31.	Professors and employees, pay-roll, May.....	607	755.00	
May 29.	Robinson & Cary, pulleys.....	610	43.00	
June 6.	N. W. Paper Co., paper.....	617	10.50	

		No. of Voucher.	DR.	CR.	
1889.					
June	7.	Wm A. Pike, sundries.....	618	20.95	
June	10.	Pioneer Fuel Co., coal.....	619	9.00	
June	14.	Janney, Sample & Co., plate glass.....	629	6.64	
June	27.	Minneapolis Tribune Co., cuts.....	671	20.00	
July	15.	J. B. Gilmore, sundry drugs.....	699	9.10	
June	29.	Professors and employees, pay-roll, June.....	704	695.00	
July	31.	By balance carried to acct. current expense.....			\$8,481.88
			\$8,481.88		\$8,481.88

COLLEGE OF LAW.

1888.					
Sept.	30.	W. S. Pattee, salary, September.....	63	\$250.00	
Oct.	6.	R. B. Lees, book-cases and labor.....	74	25.15	
Oct.	31.	W. S. Pattee, salary, October.....	118	250.00	
Nov.	30.	W. S. Pattee, salary, November.....	199	250.00	
Dec.	31.	W. S. Pattee, salary, December.....	250	250.00	
1889.					
Jan.	31.	W. S. Pattee, salary, January.....	370	250.00	
Feb.	28.	W. S. Pattee, salary, February.....	388	250.00	
Mar.	30.	W. S. Pattee, salary, March.....	451	250.00	
April	30.	W. S. Pattee, salary, April.....	535	250.00	
May	31.	W. S. Pattee, salary, May.....	607	250.00	
June	29.	W. S. Pattee, salary, June.....	704	250.00	
July	31.	By balance carried to acct. current expense.....			\$2,525.15
			\$2,525.15		\$2,525.15

EMPLOYEES.

1888.					
Aug.	31.	Pay roll, wages August.....	27	\$301.66	
Sept.	15.	W. J. Rose, janitor work.....	40	60.00	
Sept.	30.	Pay roll, wages September.....	63	398.66	
Oct.	8.	E. A. Cuzner, janitor plant house.....	80	75.00	
Oct.	11.	Lettie M. Crafts, services in library.....	87	27.25	
Oct.	31.	Pay roll, wages October.....	118	413.66	
Nov.	30.	Pay roll, wages November.....	199	413.66	
Dec.	3.	Lettie M. Crafts, services in library.....	206	35.00	
Dec.	31.	Pay roll, wages December.....	250	413.66	
1889.					
Jan.	2.	W. H. Yattaw, assistant fireman December.....	253	30.00	
Jan.	2.	Fred Ahr, janitor work Drill Hall.....	254	35.00	
Jan.	31.	W. H. Yattaw, assistant fireman January.....	309	30.00	
Feb.	1.	Fred Ahr, janitor work Drill Hall.....	318	35.00	
Jan.	31.	Pay roll, wages January.....	370	453.66	
Feb.	28.	W. H. Yattaw, assistant fireman February.....	380	30.00	
Feb.	28.	Fred Ahr, janitor work Drill Hall.....	384	35.00	
Feb.	28.	Pay roll, wages February.....	388	433.66	
Mar.	30.	W. H. Yattaw, assistant fireman March.....	446	30.00	
Mar.	30.	Fred Ahr, janitor work Drill Hall.....	447	35.00	
Mar.	30.	Pay roll, wages March.....	451	433.66	
April	27.	Fred Ahr, janitor work Drill Hall.....	531	35.00	
April	30.	Pay roll, wages April.....	535	433.66	
May	22.	W. W. Folwell, on account services as librarian.....	568	250.00	
May	31.	Fred Ahr, janitor work Drill Hall.....	606	35.00	
May	31.	Pay roll, wages May.....	607	433.66	
June	18.	Horatio P. Browne, salary as treasurer.....	634	400.00	
June	29.	Fred Ahr, janitor work Drill Hall.....	672	35.00	
June	29.	W. W. Folwell, balance due salary librarian.....	683	250.00	
June	29.	Pay roll, wages June.....	704	421.66	
July	31.	By cash, from high school board.....			\$500.00
July	31.	By balance carried to current expense.....			5,453.51
			\$5,953.51		5,953.51

GEOLOGICAL SURVEY.

1888.					
Aug.	1.	To balance from last statement.....		\$50,561.89	
Aug.	31.	Pay roll August, professor and instructor.....	27	275.00	
Sept.	18.	N. H. Winchell, sundry expenses.....	41	420.43	
Sept.	28.	N. H. Winchell, sundry expenses.....	59	175.77	
Sept.	30.	Pay roll September, professor and instructor.....	63	275.00	
Nov.	2.	N. H. Winchell, sundry expenses.....	110	133.45	
Oct.	31.	Pay roll October, professor and instructor.....	118	275.00	
Nov.	17.	C. E. Sidener, chemical analysis.....	179	4.80	
Nov.	20.	N. H. Winchell, sundry expenses.....	188	174.38	
Nov.	30.	Pay roll November, professor and instructor.....	199	275.00	
Dec.	31.	Pay roll December, professor and instructor.....	250	275.00	
1889.					
Jan.	8.	N. H. Winchell, sundry expenses as per requisition, dated January 6, 1889.....	287	151.96	
Feb.	2.	N. H. Winchell, paid Anthony Woodward.....	337	260.00	
Feb.	2.	N. H. Winchell, sundry expenses.....	338	125.92	
Jan.	31.	Pay roll January, professor and instructor.....	370	275.00	
Feb.	28.	Pay roll February, professor and instructor.....	388	275.00	
Mar.	30.	Pay roll March, professor and instructor.....	451	275.00	

		No. of Voucher.	Dr.	Cr.
1880.				
April 15.	N. H. Winchell, sundry expenses.....	482	83.58	
April 15.	N. H. Winchell, sundry expenses.....	483	62.03	
April 30.	Pay roll April, professor and instructor.....	535	275.00	
May 30.	Pay roll May, professor and instructor.....	607	275.00	
June 29.	Pay roll June, professor and instructor.....	704	276.00	
Feb. 27.	By transfer from acct., salt spring lands.....			30,000.00
July 31.	By transfer from acct., salt spring lands.....			6,000.00
July 31.	By balance to new account.....			19,179.21
			<u>\$55,179.21</u>	<u>\$55,179.21</u>
Aug. 1.	To balance.....		\$19,179.21	
1888.	SEWERAGE.			
May 21.	By cash, from state treasurer.....			\$5,650.00
July 22.	To transferred to building fund.....		\$5,445.41	
July 31.	To balance.....		504.59	
			<u>\$5,650.00</u>	<u>\$5,650.00</u>
Aug. 1.	By balance.....			\$504.59
1888.	SALARIES FOR INSTRUCTION.			
Aug. 31.	Pay roll for August.....	27	\$100.00	
Sept. 30.	Pay roll for September.....	63	4,595.00	
Oct. 3.	H. P. Judson, balance salary, Sept.....	62	15.00	
Oct. 31.	Pay roll for October.....	118	4,630.00	
Nov. 30.	Pay roll for November.....	199	4,620.00	
Dec. 31.	Pay roll for December.....	250	4,470.00	
1889.				
Jan. 31.	Pay roll for January.....	370	4,470.00	
Feb. 28.	Pay roll for February.....	388	4,470.00	
Mar. 30.	Conway McMillan, salary for March.....	448	150.00	
Mar. 30.	Pay roll for March.....	451	4,470.00	
April 24.	E. F. Glenn, six months salary.....	515	300.00	
April 30.	Pay roll for April.....	535	4,620.00	
June 5.	Pay roll for May.....	607	4,620.00	
June 11.	E. F. Glenn, four months salary.....	622	200.00	
June 14.	Louise Montgomery, services as teacher.....	636	63.00	
June 29.	Pay roll for June.....	704	4,470.00	
July 31.	By balance carried to account current expense.....			\$46,263.00
			<u>\$46,263.00</u>	<u>\$46,263.00</u>
1888.	SALT LAND SALES.			
Aug. 1.	By balance from last statement.....			\$30,817.68
Sept. 12.	By cash, interest on certificate No. 99.....			18.69
Nov. 19.	By cash, First National Bank, Fergus Falls, for interest sale lands.....			1,985.51
Nov. 19.	By cash interest sale, S. 11, T. 135 R. 45.....			195.50
Dec. 5.	By cash sale certificate No. 93.....			300.00
1889.				
May 8.	By cash sale, W $\frac{1}{2}$ SE $\frac{1}{4}$, S. 31, T. 132 R. 42.....			285.96
May 8.	By cash sale, SE $\frac{1}{4}$, S. 3, T. 135, R. 45.....		642.00	
May 11.	By cash sale, SE $\frac{1}{4}$, S. 10, T. 135, R. 45.....		691.84	
May 11.	By cash sale, N $\frac{1}{2}$, NW $\frac{1}{4}$, S. 10, T. 135, R. 45.....		321.00	1,654.84
June 24.	By cash interest, N $\frac{1}{2}$, NE $\frac{1}{4}$ and SE $\frac{1}{4}$, NE $\frac{1}{4}$, S. 19 T. 133, R. 43.....		49.08	
June 24.	By cash sale, SW $\frac{1}{4}$, NE $\frac{1}{4}$, S. 19, T. 133, R. 43.....		133.34	182.42
June 29.	By cash interest, NW $\frac{1}{4}$, S. 19, T. 133, R. 43.....		17	71.46
July 5.	By cash interest, N $\frac{1}{2}$, NE $\frac{1}{4}$, S. 30, T. 119, R. 45.....			18.89
July 16.	By cash interest, NE $\frac{1}{4}$ and E $\frac{1}{2}$, NW $\frac{1}{4}$, S. 2, T. 135, R. 45.....			56.40
July 16.	By cash interest, S. 35, T. 136, R. 45.....		152.32	
July 22.	By cash S. 34, T. 136, R. 45.....		152.32	
July 22.	By cash W $\frac{1}{2}$ S. 12, T. 135, R. 45.....		95.20	
July 22.	By cash S $\frac{1}{2}$ S. 2, T. 135, R. 45.....		76.16	476.00
July 31.	By cash interest, SW $\frac{1}{4}$, NE $\frac{1}{4}$ S. 6, T. 131, R. 42.....			120.00
Feb. 27.	To transferred to account geological survey.....		30,000.00	
July 31.	To transferred to account geological survey.....		6,000.00	
July 31.	To balance to new account.....		183.35	
			<u>\$36,183.35</u>	<u>\$36,183.35</u>
Aug. 1.	By balance.....			183.35
1888.	FARM SCHOOL.			
Oct. 6.	W. W. Pendergast, salary for September.....	69	\$140.00	
Oct. 6.	H. W. Brewster, salary for September.....	70	80.00	
Aug. 20.	W. W. Pendergast, advertising.....	16	30.00	
Aug. 20.	Brown, Treacy & Co., circulars.....	17	25.00	
Aug. 20.	Fairbanks, Morse & Co., tank.....	20	50.00	
Oct. 30.	Noyes Bros & Cutler, sundry acids.....	99	55.12	
Oct. 31.	Pay roll for October.....	118	245.00	
Nov. 10.	Burns & Gorham, coal.....	160	4.25	
Nov. 14.	Ginn & Co., school books.....	161	16.80	
Nov. 14.	Boutell Bros., furniture.....	162	50.90	

		No. of Voucher.	DR.	CR.
1888.				
Nov. 14.	Ginn & Co. school books.....	163	18.90	
Nov. 14.	Mpls. Furniture Co., beds and mattresses.....	164	217.50	
Nov. 14.	H. W. Brewster, furniture, etc.....	165	88.50	
Nov. 14.	Folds & Griffiths, carpets, etc.....	166	92.95	
Nov. 14.	Mrs. Florence Brewster, carpets, etc.....	167	61.10	
Nov. 14.	Sheldon & Co., school books.....	168	28.75	
Nov. 14.	Paris Price, meat.....	169	3.11	
Nov. 14.	D. D. Merrill, school books.....	170	15.00	
Nov. 14.	St. Anthony Furniture Co., furniture.....	171	32.40	
Nov. 14.	VanAntwerp, Bragg & Co., school books.....	172	27.00	
Nov. 15.	Salisbury, Rolph & Co., mattresses.....	174	75.00	
Nov. 15.	J. R. Elliot, clock.....	175	6.00	
Nov. 16.	Merriman, Barrows & Co., lumber.....	176	67.95	
Nov. 16.	Janney, Semple & Co., knives, forks, etc.....	177	53.80	
Nov. 28.	D. L. Kiehle, dictionary.....	194	7.00	
Nov. 28.	Wm. Donaldson & Co., sundry house furnishings.....	196	375.67	
Nov. 30.	Pay roll for November.....	199	270.00	
Nov. 30.	D. W. Sprague, pay roll labor, November.....	204	27.48	
Dec. 6.	C. W. Menefley, groceries.....	217	19.88	
Dec. 7.	Wm. Donaldson & Co., sundries.....	228	10.52	
Dec. 15.	F. H. Peterson, carpet.....	229	35.00	
Dec. 10.	Folds & Griffith, carpet.....	230	24.50	
Dec. 13.	McCarthy & Co., sewer pipe, etc.....	235	172.00	
Dec. 31.	Pay roll for December.....	250	270.00	
1889.				
Jan. 3.	H. W. Brewster & Co., sundries.....	268	10.85	
Jan. 4.	F. H. Peterson & Co., carpet.....	270	7.70	
Jan. 4.	W. K. Morrison & Co., locks.....	278	1.95	
Jan. 4.	W. K. Morrison & Co., registers and shovels.....	279	3.92	
Jan. 7.	Janney Bros., range, etc.....	281	174.04	
Jan. 9.	Wm. Donaldson & Co., sundries.....	290	3.97	
Jan. 10.	Globe Furniture Co., desks.....	294	229.50	
Nov. 14.	American Ex. Co. Chgs. box from St. Paul.....	299	.60	
Jan. 31.	D. W. Sprague, pay roll labor Dec.....	361	39.68	
Feb. 2.	E. D. Porter, Supt. pay roll labor Dec.....	365	13.12	
Jan. 31.	Pay roll for January.....	370	270.00	
Feb. 16.	E. D. Porter, Supt. pay roll labor January.....	377	15.67	
March 1.	D. W. Sprague, pay roll labor January.....	382	75.99	
Feb. 28.	Pay roll for February.....	388	270.00	
March 7.	M. H. Crittenden, gutters, etc.....	390	8.89	
March 7.	J. A. Fillmore, repairing sofa.....	392	7.16	
March 7.	Ginn & Co., school books.....	398	6.30	
March 8.	W. F. Porter & Co., material and labor.....	408	5.17	
March 8.	McCarthy & Courtney, material and labor.....	417	21.08	
March 30.	Pay roll for March.....	451	270.00	
March 25.	E. D. Porter, Supt. pay roll labor March.....	454	12.27	
April 15.	Miller Bros. & Fletcher, hardware for building.....	484	138.89	
April 15.	Miller Bros. & Fletcher, white lead, etc.....	485	5.53	
April 22.	D. W. Sprague, payroll, labor, March.....	498	20.78	
April 22.	Chas. R. Aldrich, salary, part April.....	503	25.00	
April 22.	D. W. Sprague, payroll, students' labor, January to April.....	509	91.30	
April 24.	St. Paul Book and Stationery Co., stationery.....	517	43.80	
April 25.	W. K. Morrison & Co., sundry tools.....	526	19.49	
April 30.	Pay roll for April.....	535	220.00	
May 21.	St. Paul Book and Stationery Co., books.....	549	93.35	
May 22.	Bovey DeLaitre Lumber Co., lumber.....	561	22.20	
May 22.	Orange Judd Co., books.....	562	45.00	
May 25.	Chas. T. Leonard, duck.....	597	4.90	
May 27.	E. D. Porter, Supt. pay roll, labor, to April 15th.....	599	5.62	
May 31.	H. W. Brewster, dishes, etc.....	604	6.18	
May 22.	Bovey DeLaitre Lumber Co., lumber.....	599	14.00	
May 31.	Pay roll for May.....	607	220.00	
June 5.	D. Appleton & Co., botanical chart.....	613	16.00	
June 6.	H. Kelley & Co., plumbing.....	615	6.25	
June 10.	Smith & Smith, printing tickets.....	621	5.50	
June 17.	V. Truesdell, coal.....	631	213.46	
June 19.	W. W. Pendergast, sundry expenses.....	637	4.10	
June 12.	H. M. Crosby, wire screens.....	657	8.73	
June 25.	Chas. T. Leonard, window shades.....	660	5.76	
July 9.	Northwestern Pavement Co., tile floor in dining room.....	692	156.00	
June 29.	Pay roll for June.....	704	220.00	
June 7.	D. W. Sprague, payroll labor, May.....	706	823.64	
June 12.	Brooks Bros., mouldings.....	708	3.00	
June 27.	N. W. McLain, director payroll labor, last half April.....	680	12.79	
June 29.	D. W. Sprague, day book.....	681	1.48	
July 24.	D. W. Sprague, payroll labor, July.....	713	12.50	
July 31.	Iverson, Blakeman & Co., books.....	728	28.00	
July 15.	By cash from D. W. Sprague, account coal sold them.....			
July 31.	By balance carried to current expense.....			
			56.58	
			5,789.61	
			85,846.19	85,846.19

EXPERIMENTAL FARM.

		No. of Voucher.	Dr.	Cr.
1889.				
Aug. 1.	R. Osander & Co., (this voucher should have been charged March 29, 1888; see note last stat.)		\$34.44	
Aug. 20.	Shuman & Co., seed.....	8	21.25	
Aug. 21.	Dr. O. C. Lyford, medicine and attendance.....	25	90.79	
Oct. 6.	E. D. Porter, superintendent pay roll, August.....	65	531.06	
Oct. 29.	E. D. Porter, superintendent pay roll, Septemb'r.....	97	359.30	
Nov. 10.	McCarthy & Courtney, excavating and laying pipe.....	121	45.00	
Nov. 10.	Burns & Gorham, coal.....	127	10.58	
Nov. 14.	Frisk & Howard, cushions and repairs.....	132	25.35	
Nov. 16.	Merrian, Barrows & Co., lumber.....	155	11.07	
Nov. 16.	Merrian, Barrows & Co., lumber.....	156	117.65	
Nov. 30.	D. W. Sprague, students' pay roll to Nov. 15.....	202	42.88	
Dec. 6.	Geo. Huhn, drugs.....	208	18.15	
Dec. 6.	C. K. Perrine, repairing plows.....	212	22.40	
Dec. 6.	V. Truesdell, coal.....	215	749.07	
Dec. 6.	Price & Treacy, medicines.....	218	20.10	
Dec. 8.	E. D. Porter, superintendent pay roll, October.....	233	326.97	
Dec. 29.	C. D. Whitall & Co., memorandum books.....	247	2.65	
1889.				
Jan. 8.	E. D. Porter, superintendent pay roll, Novemb'r.....	283	432.86	
Jan. 28.	D. D. Bunn, expense attending meeting.....	302	18.00	
Jan. 28.	D. L. Wellman, expense attending meeting.....	303	23.00	
Jan. 28.	A. H. Bullis, expense attending meeting.....	305	16.00	
Jan. 28.	McMurrough & Treat, tools and repairs.....	306	22.40	
Feb. 1.	Northwestern Pavement Co., cementing, etc.....	317	198.06	
Feb. 2.	E. D. Porter, sundries.....	334	70.68	
Feb. 2.	P. Osander, material and labor.....	336	7.95	
Feb. 4.	Littlefield & Son, repairs.....	344	32.26	
Jan. 31.	D. W. Sprague, payroll, students' labor, Decemb'r.....	363	53.36	
Feb. 2.	E. D. Porter, superintendent pay roll, labor, Dec.....	364	360.00	
Feb. 2.	V. Truesdell, coal.....	331	258.52	
Feb. 27.	Lockwood, Upton & Co., labor.....	357	6.07	
Feb. 14.	N. W. Fuel Co., coal.....	358	123.69	
Feb. 16.	E. D. Porter, Supt., pay roll labor, Jan.....	376	284.92	
Feb. 25.	McMurrough & Treat, shoeing horses, &c.....	379	24.50	
Mch. 1.	D. W. Sprague, pay roll, student labor, Jan.....	383	5.54	
Mch. 7.	Geo. Huhn, oil.....	391	9.50	
Mch. 7.	M. H. Crittenden, material and labor.....	399	29.32	
Mch. 7.	Fairbanks, Morse & Co, material and labor.....	402	9.52	
Mch. 8.	Miller Bros. & Eletcher, nails and rope.....	414	20.05	
Mch. 8.	McCarthy & Courtney, material for cistern.....	416	74.77	
Mch. 8.	Janney, Semple & Co., sundries.....	421	170.74	
Mch. 11.	Morrison & Co., window glass, &c.....	423	19.46	
Mch. 7.	Farmer & Martin, use of teams, &c.....	426	34.87	
Mch. 30.	C. A. Pillsbury & Co., feed.....	449	623.54	
Mch. 25.	E. D. Porter, supt., pay roll for Feb.....	455	291.42	
April 13.	James E. Treat, repairs.....	467	18.10	
April 13.	McMurrough & Treat, shoeing horses.....	468	7.00	
April 15.	Janney, Semple & Co., sundries.....	486	85.81	
April 15.	Geo. Huhn, oil.....	490	7.90	
April 22.	E. D. Porter, pay roll for March.....	500	208.83	
April 13.	Theodore Anderson, filling ice houses.....	506	46.50	
April 29.	D. W. Sprague, student labor from Jan. to April.....	510	3.05	
May 21.	Orange Judd Co., advertising.....	547	14.00	
May 22.	Farm, Stock and Home Pub. Co, advertising.....	581	15.75	
May 27.	C. A. Pillsbury & Co., feed.....	596	392.64	
May 27.	E. D. Porter, Supt., pay roll labor April 1-15.....	601	113.98	
June 12.	J. M. Kelly & Co., repairs on steam pump.....	623	169.65	
June 12.	Orange Judd Farm Co., advertising.....	627	5.60	
June 12.	N. W. Farmer and Breeder, advertising.....	628	12.50	
June 22.	W. K. Morrison & Co., sundries.....	651	8.82	
July 9.	Phelps Well Co., repairs.....	691	7.40	
1888.				
Aug. 1.	By cash, should have been cr July 16, '88, last year's ac. See last statement.....			116.65
Nov. 26.	By cash, proceeds sale stock and garden produce.....			55.21
Dec. 8.	By cash, proceeds sale stock and rent Poden tract.....			54.00
1889.				
Jan. 29.	By cash, proceeds sale from D. W. Sprague.....			326.94
Mch. 11.	By cash, proceeds sale from D. W. Sprague.....			114.24
Mch. 26.	By cash, proceeds sale from D. W. Sprague.....			470.47
April 16.	By cash, proceeds sale from D. W. Sprague.....			185.00
April 22.	By cash, proceeds sale from D. W. Sprague.....			176.84
July 31.	By balance carried to ac. current expense.....			5,368.21

\$6,867.56 \$6,867.56

EXPERIMENTAL STATION.

		No. of Voucher.	Dr.	Cr.
1888.			\$ 116 65	
Aug. 1.	Error credit July 16, 1888, see last statement.....		2,000 00	
Aug. 10.	F. A. Fisher & Co., acct. contract building.....	2		
Aug. 20.	H. Sibley & Co., seed corn for ensilage.....	4	7 40	
Aug. 20.	Whitall, Tatum & Co., fruit jars.....	5	9 00	
Aug. 20.	Field Force Pump Co., spraying apparatus.....	6	6 00	
Aug. 20.	Shuman & Co., tomato plants, &c.....	7	6 23	
Aug. 20.	F. A. Fisher & Co., lumber and shelving.....	10	41 98	
Aug. 20.	F. A. Fisher & Co., fitting up tool room.....	11	51 49	
Aug. 20.	Wheaton, Reynolds & Co., lumber for stakes.....	13	22 60	
Aug. 20.	Wheaton, Reynolds & Co., lumber for stakes.....	14	1 33	
Aug. 20.	Miller Bros. & Fletcher, agricultural impl'mts.....	15	54 60	
Aug. 20.	Emil Schumacher, pins.....	18	30 50	
Aug. 20.	E. H. S. Dartt, sundries for station at Owatonna.....	19	199 95	
Aug. 20.	Chas. Pomeroulie, microscope.....	21	50 00	
Aug. 20.	Graphic Illustrator Co., four cuts.....	22	8 00	
Aug. 20.	D. W. Sprague, traveling expenses.....	23	1 80	
Aug. 21.	Harrison & Smith, printing.....	26	125 00	
Aug. 31.	Pay roll for August.....	28	758 32	
Sept. 30.	Pay roll for September.....	64	758 32	
Oct. 6.	E. D. Porter, director, pay roll labor, August.....	66	319 81	
Oct. 9.	Otto Luggger, traveling expenses, &c.....	84	38 71	
Oct. 10.	M. J. Treacy, services in veterinary department.....	86	100 00	
Oct. 17.	Noyes Bros. & Cutler, demijohns.....	90	5 40	
Oct. 29.	E. D. Porter, director, pay roll labor, September.....	96	486 82	
Oct. 31.	Pay roll for October.....	119	758 32	
Nov. 10.	McCarthy & Courtney, plumbing in building, &c.....	120	495 50	
Nov. 10.	Graphic Illustrator Co., cuts.....	122	16 75	
Nov. 10.	Henry J. Green, sundry instruments.....	123	301 50	
Nov. 10.	Gilbert & Baker Mfg. Co., gasoline.....	124	85 96	
Nov. 10.	C. V. Riley, cuts.....	125	55 00	
Nov. 10.	James W. Queen & Co., sundry instruments.....	126	150 00	
Nov. 10.	Morgan Envelope Co., making and prt'g. envel'es.....	128	60 32	
Nov. 14.	Lyman-Elie! Drug Co., bottles and corks.....	138	8 25	
Nov. 15.	Dreunam & Co., fruit jars.....	148	5 50	
Nov. 16.	Fairbanks, Morse & Co., way bill press.....	150	18 90	
Nov. 17.	C. D. Whitall & Co., letter books, etc.....	157	17 17	
Nov. 17.	C. D. Whitall & Co., stationery, &c.....	158	50 56	
Nov. 16.	Fairbanks, Morse & Co., scales.....	178	6 60	
Nov. 19.	F. A. Fisher & Co., on acct. contract station bldg.....	184	1,750 00	
Nov. 20.	W. F. Phelps, painting letters, &c.....	186	35 00	
Nov. 30.	Pay roll for November.....	198	758 32	
Nov. 30.	D. W. Sprague, students' pay roll, November.....	203	65 12	
Dec. 6.	Middlemist & Earl, copper boilers, etc.....	209	22 00	
Dec. 6.	Harrison & Smith, sundry printing.....	210	238 10	
Dec. 6.	Farnham Marble & Mantel Co., mantels and grates.....	211	63 00	
Dec. 8.	E. D. Porter, director, pay roll, labor for Oct.....	234	478 47	
Dec. 29.	C. D. Whitall & Co., sundries.....	248	2 00	
Dec. 29.	C. D. Whitall & Co., sundries.....	249	7 30	
Dec. 31.	Pay roll for December.....	251	758 32	
1889.				
Jan. 8.	E. D. Porter, director pay roll, labor November..	282	185 59	
Jan. 31.	Olaf Schwarzkopff, salary January.....	307	150 00	
Feb. 1.	J. B. Chatterton, cedar posts.....	313	10 80	
Feb. 1.	J. B. Chatterton, cedar posts.....	314	33 00	
Feb. 2.	E. D. Porter, sundry expenses.....	333	81 00	
Feb. 2.	Russell, Boynton & Co., asbestos mill board.....	335	2 02	
Feb. 4.	Littlefield & Son, material and labor.....	340	18 41	
Feb. 4.	Littlefield & Son, sprinkling pots.....	342	1 20	
Feb. 4.	Littlefield & Son, material and labor.....	345	11 50	
Jan. 31.	D. W. Sprague, student labor to Dec. 15.....	362	47 29	
Feb. 2.	E. D. Porter, director, pay roll, labor Dec.....	366	130 41	
Jan. 31.	Pay roll for January.....	369	758 32	
Jan. 28.	Geo. W. Sprague exp. attending meeting board.....	304	21 00	
Feb. 27.	Lockwood, Upton & Co., material and labor.....	359	11 83	
Feb. 11.	W. K. Morrison & Co., sundries.....	360	3 92	
Feb. 9.	Noyes Bros. & Cutler, drugs.....	371	4 16	
March 1.	D. W. Sprague, mail bag for station.....	372		
Feb. 16.	E. D. Porter, director, pay roll, labor January.....	375	215 59	
March 1.	D. W. Sprague, student labor to January 24.....	381	48 14	
March 2.	Otto Luggger, sundry expenses.....	385	67 98	
March 2.	Marion Hays, making drawings.....	387	20 00	
March 2.	Marion Hays, making drawings.....	387	30 00	
Feb. 28.	Pay roll for February.....	389	908 32	
Feb. 1.	N. W. Pavement Co., cement floor in building.....	316	78 96	
March 7.	W. B. Hemenway, lumber.....	401	9 04	
March 7.	Educational Supply Co., sundry instruments.....	403	59 12	
March 7.	Gustav E. Stechert, books for library.....	406	748 00	
March 8.	W. F. Porter & Co., work at green-house.....	407	25 00	
March 8.	W. F. Porter & Co., labor and material.....	409	26 81	
March 8.	Miller Bros. & Fletcher, sundries.....	413	42 60	
March 8.	Janney, Semple & Co., sundries.....	419	2 53	
March 11.	Frisk & Howard, repairs, &c.....	422	6 25	

1880.		No. of Voucher.	Dr.	Cr.
March 11.	W. K. Morrison & Co., weather strips, &c.	424	4.15	
March 7.	J. C. Vaughan, sundries	427	18.16	
March 21.	Thos. W. Weathered, vent. app. for greenhouse.	428	57.00	
March 21.	C. V. Riley, cuts	429	34.00	
March 21.	Graphic Illustr. Co., cuts	430	16.68	
March 21.	Graphic Illustr. Co., cuts	431	52.97	
March 21.	Miss L. Sullivan, drawings	432	69.00	
March 21.	Pioneer Press Co., 1000 copies Bulletin No. 1	433	16.00	
March 22.	C. D. Whitall & Co., sundries	434	34.06	
March 22.	M. Lara & Co., window shades	435	49.15	
March 22.	N. W. Pavement Co., cement pavement	436	39.78	
March 22.	F. S. Martin, material and labor	437	23.13	
March 23.	Mpls. Freie Presse, letter heads and envelopes	438	17.60	
March 23.	Mendenhall Greenhouse, roses	439	5.00	
March 25.	J. I. Case Implement Co., knives	440	5.78	
March 25.	Janney, Semple & Co., sundries	441	40.19	
March 25.	Janney, Semple & Co., sundries	442	17.58	
March 26.	F. A. Fletcher & Co., horse blankets, &c.	443	10.65	
March 30.	Pay-roll for March	450	908.32	
March 25.	E. D. Porter, director, pay-roll labor, Feb.	453	227.73	
April 6.	Minn. Linseed Oil Co., oil meal	456	24.00	
April 13.	Jas. M. Thorburn & Co., seeds	459	6.47	
April 13.	Morgan Envelope Co., envelopes, &c.	460	69.29	
April 13.	Wm. Henry Maule, seeds	461	2.70	
April 13.	James J. H. Gregory, seeds	462	7.60	
April 13.	W. Atlee Burpee, seeds	463	3.00	
April 13.	F. W. Pickard, P. M., stamps, postals, &c.	471	18.48	
April 15.	Harrison & Smith, sundry printing	481	165.80	
April 15.	Occidental Mill Co., meal	487	9.31	
April 15.	Miller Bros. & Fletcher, building hardware	489	144.82	
April 18.	W. M. Hays, traveling expenses	493	6.11	
April 22.	E. D. Porter, director, pay-roll, labor, March	499	206.54	
April 22.	S. B. Green, sundry expenses	501	196.64	
April 22.	S. B. Green, expressage on books, &c.	502	13.40	
April 13.	Emier & Amend, thermometers	505	6.07	
April 13.	Burns & Gorham, scale weights	507	3.60	
April 22.	D. W. Sprague, student labor, January to April	508	89.91	
April 23.	F. A. Fisher & Co., work at greenhouse	512	12.40	
April 24.	J. T. Lovett & Co., plants, etc.	514	5.95	
April 24.	Noyes Bros. & Cutler, drugs	516	7.75	
April 24.	Bush, Son & Meissner, plants	518	4.85	
April 24.	Noyes Bros. & Cutler, dissecting case repaired	519	2.50	
April 24.	Noyes Bros. & Cutler, scalpels	520	5.44	
April 24.	E. Moody & Sons, plants	521	13.39	
April 24.	Emier & Amend, rubber stoppers and tubing	522	11.61	
April 24.	Whiteall, Tatum & Co., phials	523	20.26	
April 24.	Fisher Bros & Co., plants	524	2.50	
April 25.	Glessner & Washburn, instrument case	525	35.00	
April 25.	Minneapolis Freie Presse, letter heads and envelopes	527	8.00	
April 26.	Geo. Huhn, drugs	528	1.50	
April 27.	Harrison & Smith, letter heads and envelopes	529	12.50	
April 27.	Harrison & Smith, letter heads and envelopes	530	14.00	
April 30.	Warner Bros., tools	532	2.15	
May 3.	Middlemist & Earle, sundries	533	10.30	
April 30.	Pay roll for April	534	908.32	
May 6.	C. D. Whitall & Co., record books	538	1.65	
May 21.	Harrison & Smith, printing bulletins, etc	546	290.80	
May 21.	Graphic Illustrator Co., engravings for bulletins	550	126.75	
May 21.	R. Douglas & Sons, trees	551	19.25	
May 22.	Olof. Schwartzkopf, medicines and instruments	552	54.80	
May 22.	Northrop, Braslau & Goodwin Co., seeds	556	6.03	
May 22.	Northrop, Braslau & Goodwin Co., corn	557	3.65	
May 22.	Northrop, Braslau & Goodwin Co., seeds	558	19.12	
May 22.	Naylor & Co., sundries	559	2.59	
May 22.	John A. Salzer, seeds	567	1.00	
May 22.	Noyes Bros. & Cutler, caustic soda	569	2.13	
May 22.	Noyes Bros. & Cutler, drugs, veterinary dept.	570	1.70	
May 22.	Noyes Bros. & Cutler, repairing dissecting case	571	2.50	
May 22.	Noyes Bros. & Cutler, dissecting case	572	7.50	
May 22.	Noyes Bros. & Cutler, morphine and strychnine	573	4.25	
May 24.	S. B. Green, sundries	577	14.87	
May 21.	Emier & Amend, rubber stoppers	578	61.42	
May 21.	A. K. Eaton, sundries	580	40.50	
May 22.	D. M. Ferry & Co., seeds	582	.94	
May 22.	B. A. Elliott & Co., seeds	583	20.95	
May 22.	Plant Seed Co., seeds	584	.50	
May 22.	T. S. Hubbard Co., grape vines	585	6.60	
May 22.	Jas. M. Thorburn & Co., seeds	586	2.71	
May 22.	Emier & Amend, rubber stoppers	587	2.35	
May 22.	Frank Ford & Sons, raspberry vines	588	4.80	
May 22.	Ellwanger & Barry, trees and plants	589	20.00	
May 22.	Jas. H. Gregory, seeds	593	5.33	

		No. of Voucher.	Dr.	Gr.	
1880.	May 23.	Noyes Bros. & Cutler, instruments veterinary department.....	505	143.34	
	May 27.	E. D. Porter, director, pay roll labor April 1-15..	600	108.35	
	May 29.	W. M. Hays, sundry expenses.....	603	18.03	
	May 22.	Peter Henderson & Co., seeds.....	608	4.51	
	May 31.	Pay roll for May.....	620	908.32	
	June 12.	Occidental Mill Co., grinding feed.....	626	4.01	
	June 17.	V. Truesdell, coal.....	632	171.56	
	June 19.	Noyes Bros. & Co., instruments.....	638	3.96	
	June 19.	Merriman, Barrows & Co., lumber.....	640	24.22	
	June 19.	J. W. Shadewald & Co., oats.....	641	21.50	
	June 19.	Naylor & Co., tools.....	642	5.29	
	June 19.	Russell, Boynton & Co., tools.....	643	24.74	
	June 22.	C. A. Pillsbury & Co., screenings.....	648	9.00	
	June 22.	Northrop, Braslau & Co., seeds.....	649	4.06	
	June 25.	Olof Schwartzkopf, sundries.....	654	.50	
	June 26.	John Guth, picture frames.....	656	5.00	
	June 25.	North Oaks farm, short-horn animals.....	659	335.00	
	June 25.	C. E. Angel, clover seed.....	661	.30	
	June 25.	St. Paul Book & Stationery Co., journal and record book.....	662	.93	
	June 25.	J. H. Sanders Publishing Co., book.....	663	2.00	
	June 25.	St. Paul Book & Stationery Co., stationery.....	664	21.88	
	June 25.	Burns, Gorham & Co., horseshoes.....	665	7.00	
	June 25.	Emier & Amend, bottles, etc., chemical dept.....	666	130.47	
	June 25.	Gustav E. Stechert, books.....	667	15.00	
	June 26.	J. I. Case Implement Co., corn planter.....	669	33.50	
	June 26.	J. A. Scorie, moving house.....	670	35.00	
	June 25.	Alexander Drug & Seed Co., seeds.....	674	.70	
	June 19.	James E. Treat, repairs, etc.....	675	57.47	
	June 20.	Jewell Nursery Co., plants and trees.....	676	15.45	
	June 25.	Graphic Illustrator Co., printing.....	679	291.56	
	June 27.	N. W. McLain, director, pay roll labor April 16-30.....	682	25.28	
	June 29.	D. W. Sprague, treas. board ass't chemical dept.,	684	29.00	
	June 29.	D. N. Harper, sundry expenses.....	685	76.07	
	July 1.	Otto Luggen, sundry expenses.....	686	7.05	
	July 1.	W. M. Hays, sundry expenses.....	687	37.00	
	July 6.	E. D. Porter, pine and oak slabs.....	686	9.50	
	July 10.	C. A. Hoffman, thermometers.....	701	.97	
	June 19.	James Carter & Co., seeds.....	702	9.08	
	June 29.	D. N. Harper, travelling expenses.....	703	908.32	
	June 29.	Pay roll for June.....	705	131.48	
	July 6.	E. D. Porter, sundry expenses.....	707	461.56	
	June 7.	D. W. Sprague, pay roll labor May.....	711	17.89	
	July 22.	Samuel B. Green, sundry expenses.....	712	429.15	
	July 24.	D. W. Sprague, pay roll labor for June.....	715	3.86	
	July 25.	S. Frogener, potatoes.....	715	535.00	
	July 25.	Harrison & Smith, printing bulletin.....	416		
1888.	Aug. 1.	By balance from last statement.....			85,043.79
	Aug. 1.	By error charge, see last statement.....			54.21
	Aug. 1.	By cash from E. D. Porter, cattle sold.....			163.12
	Aug. 1.	By cash from E. D. Porter, team work.....			29.60
	Oct 16.	By cash from treasurer U. S.....			3,750.00
	Nov. 26.	By cash proceeds sale garden produce.....			32.49
1889.	Jan. 9.	By cash from treasurer U. S.....			3,750.00
	Jan. 29.	By cash from D. W. Sprague, proceeds sales.....			3.46
	April 1.	By cash from treasurer U. S.....			3,750.00
	May 6.	By cash from D. W. Sprague, proceeds sales.....			186.11
	May 23.	By cash from D. W. Sprague, proceeds sales.....			340.65
	June 17.	By cash from D. W. Sprague, proceeds sales.....			217.53
	June 24.	By cash from D. W. Sprague, proceeds sales.....			95.00
	July 3.	By cash from treasurer U. S.....			3,750.00
	July 5.	By cash from D. W. Sprague, proceeds sales.....			92.26
	July 31.	By balance to new account.....			3,410.49
			\$24,668.81		\$24,668.81
	Aug. 1.	To balance.....		\$3,410.49	
SUMMARY OF ACCOUNTS AUGUST 1, 1889.					
			DR.	CR.	
1889	Aug. 1.	By balance to account building fund.....			\$33,839.10
	Aug. 1.	By balance to account current expense.....			23,563.68
	Aug. 1.	By balance to account enlargement campus.....			1,060.85
	Aug. 1.	By balance to account furniture.....			318.90
	Aug. 1.	By balance to account salt land sales.....			183.25
	Aug. 1.	By balance to account sewerage.....			504.59
	Aug. 1.	To balance to account geological survey.....	\$19,179.21		
	Aug. 1.	To balance to account insurance.....		17.84	
	Aug. 1.	To balance to account experimental station.....		3,410.49	
	Aug. 1.	To cash on hand.....		36,882.93	
			\$59,490.47		\$59,490.47

TREASURER'S REPORT.

H. P. BROWNE, TREAS.

In Account with the University of Minnesota, for the month ending, Aug. 31, 1889.

CURRENT EXPENSE.

		Dr.	Cr.
1889.			
Aug. 1.	By balance from last statement.....		\$23,563.68
Aug. 3.	By cash from state treasurer—auditor's warrant. . .		36,932.17
Aug. 31.	By transferred from furniture account.....		318.90
Aug. 31.	To balance transferred from account of college mechanical arts.....	\$ 213.19	
Aug. 31.	To balance transferred from account of employees....	599.88	
Aug. 31.	To balance transferred from account of insurance....	17.84	
Aug. 31.	To balance transferred from account of laboratory biology.....	1,400.00	
Aug. 31.	To balance transferred from account of printing.....	191.00	
Aug. 31.	To balance transferred from account of repairs.....	885.83	
Aug. 31.	To balance transferred from account of salaries for instruction.....	1,200.00	
Aug. 31.	To balance transferred from account of medical department.....	1,259.03	
Aug. 31.	To balance transferred from account of experimental station.....	9,060.44	
Aug. 31.	To balance transferred from account of incidentals..	1,425.49	
Aug. 31.	To balance transferred from account of farm school..	161.22	
Aug. 31.	To balance transferred from account of department botany.....	500.00	
Aug. 31.	To balance.....	43,900.83	
		<u>\$60,814.75</u>	<u>\$60,814.75</u>
Sept. 1.	By balance.....		\$43,900.83

BUILDING ACCOUNT.

1889.			
Aug. 31.	To balance brought from account of science hall....	\$11,691.28	
Aug. 31.	To balance brought from account of chemical and physical laboratory apparatus.....	1,708.00	
Aug. 31.	To balance brought from account of law school building.....	8,500.00	
Aug. 31.	To balance brought from account of farm school building.....	2,000.00	
Aug. 31.	By balance from last statement.....		\$33,639.10
Aug. 31.	To balance.....	9,939.82	
		<u>\$33,639.10</u>	<u>\$33,639.10</u>
Sept. 1.	By balance.....		\$9,939.82

SCIENCE HALL.

		No. of Voucher.	Dr.	Cr.
1889.				
Aug. 1.	To W. F. Porter & Co., labor and materia.....	5	\$1,600.00	
Aug. 5.	To F. A. Fisher & Co., labor.....	46	10,000.00	
Aug. 22.	Balch & Wetherbee, grading.....	63	91.28	
Aug. 31.	By balance carried to building account.....			\$11,691.28
			<u>\$11,691.28</u>	<u>\$11,691.28</u>

CHEMICAL AND PHYSICAL LABORATORY APPARATUS.

1889.				
May 16.	To J. S. Pillsbury, money advanced F. S. Jones to purchase apparatus in Europe.....	50	\$1,708.00	
Aug. 31.	By balance carried to building account.....			\$1,708.00
			<u>\$1,708.00</u>	<u>\$1,708.00</u>

COLLEGE OF MECHANICAL ARTS.

		No. of Voucher.	DR.	CR.
1889.				
Aug. 1.	A. C. & C. F. Peters, frames, mats and glass...	1	\$13.61	
Aug. 1.	Mack Cannon, whitening walls.....	7	63.75	
Aug. 2.	North Western Fuel Co., coal.....	31	88.58	
Aug. 2.	North Star Oil Co., lard oil.....	33	3.25	
Aug. 2.	W. W. Sykes, sundries.....	34	4.00	
Aug. 5.	H. T. Ardley, sundries.....	45	40.00	
Aug. 31.	By balance carried to current expense.....			\$213.19
			\$213.19	\$213.19

FARM SCHOOL BUILDING.

1889.				
Aug. 22.	Forster & Smith, acct. contract on building.....	62	\$2,000.00	
Aug. 31.	By balance carried to building fund.....			\$2,000.00
			\$2,000.00	\$2,000.00

LAW SCHOOL BUILDING.

1889.				
Aug. 9.	F. A. Fisher & Co., acct. contract on building ..	54	\$8,000.00	
Aug. 23.	J. W. Stevens, plans, &c., for building.....	68	\$500.00	
Aug. 31.	By balance carried to building fund.....			\$8,500.00
			\$8,500.00	\$8,500.00

DEPARTMENT OF BOTANY.

1889.				
Aug. 31.	J. H. Sandberg, herbarium	84	\$500.00	
Aug. 31.	By balance carried to current expense.....			\$500.00
			\$500.00	\$500.00

LABORATORY OF BIOLOGY.

1889.				
June 5.	H. F. Nachtrieb, apparatus.....	51	\$1,400.00	
Aug. 31.	By balance carried to current expense.....			\$1,400.00
			\$1,400.00	\$1,400.00

SALARIES FOR INSTRUCTION.

1889.				
June 22.	Jabez Brooks, salary advanced, 1889-90.....	52	\$1,200.00	
Aug. 31.	By balance carried to current expense.....			\$1,200.00
			\$1,200.00	\$1,200.00

GEOLOGICAL SURVEY.

1889.				
Aug. 1.	To balance from last statement.....		\$19,179.21	
Aug. 1.	N. H. Winchell, sundry expenses.....	4	87.83	
Aug. 1.	Pay roll for July.....	11	275.00	
Aug. 31.	Pay roll for August.....	100	275.00	
Aug. 31.	By balance carried to current expense.....			\$19,633.69
Aug. 31.	By balance transfer'd from salt spring lands ac.			183.35
			\$19,817.04	\$19,817.04

INCIDENTALS.

1889.				
Aug. 1.	W. F. Porter & Co., labor & material, main bldg	6	\$1,200.00	
Aug. 1.	McCarthy & Courtney, closet, tanks and bows	8	112.00	
Aug. 31.	Mrs. Anna Miller, cleaning.....	86	43.50	
Aug. 31.	E. B. Johnson, sundry expenses.....	109	22.12	
Aug. 31.	S. M. Emery, traveling expenses	114	39.62	
Aug. 31.	Geo. M. Furber & Co, sundries.....	113	8.25	
Aug. 31.	By balance carried to current expense.....			\$1,425.49
			\$1,425.49	\$1,425.49

FARM SCHOOL.

1889.				
Aug. 22.	L. S. Lute, superintending construction school building.....	70	\$65.00	
Aug. 22.	L. S. Lute, superintending construction school building	71	60.00	
Aug. 3.	D. W. Sprague, accountant, pay roll labor, July.	76	5.52	
Aug. 31.	Farmer & Martin, team work on grounds	185	22.80	
Aug. 31.	D. W. Sprague, accountant, pay roll labor, Aug.	197	5.65	
Aug. 31.	W. W. Pendergast, sundries	116	2.25	
Aug. 31.	By balance carried to acct. current expense.....			\$161.22
			\$161.22	\$161.22

COLLEGE OF MEDICINE.

1889.		No. of Voucher.	Dr.	Cr.
July 31.	Pay roll for July.....	11	\$176.66	
July 31.	P. H. Millard, stationery, postage, &c.....	15	70.85	
July 31.	St. Paul Sanitation Co., removing ashes.....	16	3.00	
July 31.	St. Paul Gas Light Co., bill May and June.....	18	4.00	
Aug. 7.	P. H. Millard, insurance and taxes.....	49	553.86	
Aug. 22.	R. B. Lees, repairs.....	64	20.56	
Aug. 22.	J. P. Gray, sundries.....	66	33.89	
Aug. 22.	P. G. Hanson, sundries.....	69	2.55	
Aug. 24.	H. C. Aldrich, postage.....	73	6.50	
Aug. 24.	H. C. Aldrich, advertising.....	74	98.50	
Aug. 31.	R. B. Lees, blackboard.....	82	6.50	
Aug. 31.	Ransom & Randolph, advertising.....	92	9.00	
Aug. 31.	Archives Publishing Co., advertising.....	93	8.00	
Aug. 31.	H. D. Justi, advertising.....	95	20.00	
Aug. 31.	Pay roll for August.....	100	176.66	
Aug. 31.	Tribune Job Printing Co., stationery.....	110	18.50	
Aug. 31.	S. S. White D. M. Co., advertising.....	111	25.00	
Aug. 31.	Wilmington Dental Mfg. Co., advertising.....	112	10.00	
Aug. 31.	International Dental Mfg. Co., advertising.....	115	15.00	
Aug. 31.	By balance carried to acct. current expense.....			\$1,259.03
			\$1,259.03	\$1,259.03

EXPERIMENTAL STATION.

1889.				
Aug. 1.	To balance from last statement.....	3	\$3,410.49	
Aug. 1.	Thos. F. Mea, soaking boots.....	2	6.00	
Aug. 1.	Otto Luger, sundry expenses.....	3	93.75	
April 24.	Peter Henderson, seeds and plants.....	9	16.47	
April 24.	Peter Henderson, seeds and plants.....	10	25.51	
July 31.	Pay roll for July.....	12	858.32	
July 31.	D. N. Harper, postage &c.....	13	4.94	
July 31.	E. H. S. Dartt, sundry exp. at Owatonna station.....	14	200.00	
July 31.	Noyes Bros. & Cutler, drugs.....	17	20.06	
July 31.	Brooks Bros., two windows &c.....	19	10.00	
July 31.	Noyes Bros. & Cutler, instruments.....	20	53.36	
July 31.	Gustav E. Stechert, books.....	21	424.59	
July 31.	St. Anthony Furn. Co., two stools.....	22	1.50	
Aug. 1.	J. W. Shadewald & Co., oats.....	23	56.54	
Aug. 1.	W. K. Morrison & Co., nails &c.....	24	22.28	
Aug. 1.	Harrison & Smith, circulars.....	25	8.00	
Aug. 1.	C. A. Smith & Co., lumber.....	26	282.30	
Aug. 1.	Houston & Harris, sanitary parchment.....	27	5.50	
Aug. 1.	Marion Hays, drawings.....	28	4.00	
Aug. 1.	Marion Hays, drawings.....	29	1.00	
Aug. 2.	Whitall, Tatum & Co., insect bottles.....	32	26.84	
Aug. 2.	E. Cooler, feed.....	35	12.21	
Aug. 2.	T. A. Fletcher & Co., harness.....	36	3.50	
Aug. 2.	C. A. Hoffman, thermometers.....	37	3.00	
Aug. 3.	Elmer & Amend, sundry instruments.....	38	1,066.78	
Aug. 3.	Warner Bros., tarred paper.....	39	1.92	
Aug. 3.	N. W. McLain, salary 3 1/4 mos.....	40	666.66	
Aug. 3.	J. H. Kerrick, boiler and engine.....	41	118.50	
Aug. 3.	Enterprise Machine Co., repairing.....	42	8.75	
Aug. 3.	Bradstreet, Thurber & Co., office desk and chairs.....	43	52.00	
Aug. 3.	W. M. Hays, sundry expenses.....	44	14.90	
Aug. 6.	C. D. Whitall & Co., sundries.....	47	4.92	
Aug. 7.	Russell, Boynton & Co., piping.....	48	1.10	
Aug. 10.	Rugg, Fuller & Co., block tin piping.....	55	1.50	
Aug. 15.	C. A. Pillsbury & Co., screenings.....	56	8.70	
Aug. 15.	C. A. Pillsbury & Co., screenings.....	57	11.25	
Aug. 15.	Northrop, Braslan & Co., seeds.....	58	40	
Aug. 22.	J. L. Sparks, repairs.....	72	6.25	
Aug. 26.	Union R'y Storage Co., drain tiling.....	75	4.13	
Aug. 2.	Peter Henderson & Co., plants and seeds.....	53	22.50	
Aug. 3.	D. W. Sprague, accountant, pay roll, labor July.....	77	422.99	
Aug. 31.	D. W. Sprague, sundry expenses.....	91	13.03	
Aug. 31.	Marion Hays, drawings.....	94	4.00	
Aug. 31.	Frisk & Howard, wheels and tires, &c.....	96	20.80	
Aug. 31.	D. W. Sprague, accountant, pay roll, labor August.....	98	377.40	
Aug. 31.	Pay roll for August.....	99	874.08	
Aug. 31.	D. N. Harper, sundry expenses.....	101	1.83	
Aug. 31.	D. N. Harper, sundry expenses.....	102	10.85	
Aug. 31.	W. M. Hays, sundry expenses.....	103	20.10	
Aug. 31.	W. M. Hays, sundry expenses.....	104	3.28	
Aug. 31.	F. G. McMillan, building hay silo.....	106	75.00	
Aug. 21.	By cash from D. W. Sprague, account sales.....			304.24
Aug. 31.	By balance carried to account current expense.....			9,060.44
			\$9,364.68	\$9,364.68

SIXTH BIENNIAL REPORT

		REPAIRS.	No. of Voucher	Dr.	Dr.
1889.					
Aug. 16.	T. H. Drew Glass Co., glass.....		59	\$8.58	
Aug. 21.	Parish Mfg. Co., set aetna bars.....		60	73.58	
Aug. 22.	R. H. Boldingh, labor.....		61	74.25	
Aug. 22.	J. P. Gray, paint, nails, &c.....		65	31.17	
Aug. 22.	Wheaton, Reynolds & Co., lumber, &c.....		67	26.07	
Aug. 26.	T. H. Drew Glass Co., glass.....		79	5.13	
Aug. 27.	J. H. Hagen & Co., painting.....		80	50.25	
Aug. 30.	A. P. Rushton, plastering.....		81	43.20	
Aug. 31.	R. B. Lees, chalk rack and tables.....		85	30.25	
Aug. 31.	W. J. Johnson, papering and painting.....		87	174.47	
Aug. 31.	W. H. Yattaw, sundries.....		90	10.88	
Aug. 31.	J. E. Gray, sundries.....		105	14.48	
Aug. 31.	Lockwood, Upton & Co., repairing boilers, &c.....		107	34.79	
Aug. 31.	M. Lara & Co., carpets, shades, &c.....		108	308.73	
Aug. 31.	By balance carried to current expense.....				\$885.83
				\$885.83	\$885.83
PRINTING.					
Aug. 31.	Tribune Job Printing Co., circulars, blanks, &c.....		89	\$147.50	
Aug. 26.	Tribune Job Printing Co., envelopes.....		78	15.50	
Aug. 2.	Tribune Job Printing Co., envelopes and paper.....		30	28.00	
Aug. 31.	By balance carried to current expense.....				\$191.00
				\$191.00	\$191.00
ENLARGEMENT OF CAMPUS.					
1889.					
Sept. 1.	By balance from last statement.....				\$1,080.85
SEWERAGE.					
1889.					
Sept. 1.	By balance from last statement.....				\$504.50
SALT LAND SALES.					
1889.					
Aug. 1.	By balance from last statement.....				\$183.35
Aug. 31.	To transferred to acct geological survey.....			\$183.35	
				\$183.35	\$183.35
FURNITURE.					
1889.					
Aug. 1.	By balance from last statement.....				\$318.90
Aug. 31.	To transferred to acct. current expense.....			\$318.90	
				\$318.90	\$318.90
INSURANCE.					
1889.					
Aug. 1.	To balance from last statement.....			\$17.84	
Aug. 31.	By transferred to acct. current expense.....				\$17.84
				\$17.84	\$17.84
EMPLOYEES.					
1889.					
July 31.	Pay roll for July.....		11	\$301.66	
Aug. 31.	Fred Ahr, 12 days work main building.....		88	16.56	
Aug. 31.	Pay roll for August.....		100	281.66	
Aug. 31.	By transferred to acct. current expense.....				\$599.88
				\$599.88	\$599.88
SUMMARY OF ACCOUNTS.					
1889.					
	Building fund.....			\$9,939.82	
	Current expense.....			43,900.83	
	Enlargement of campus.....			1,080.85	
	Geological survey.....			\$19,633.69	
	Sewerage.....			504.50	
	Cash on hand.....			35,792.40	
				\$55,426.09	\$55,426.09
BALANCE SHEET, TREASURER OF THE UNIVERSITY OF MINNESOTA, AUGUST 31st, 1889.					
1889.					
	Building fund.....			\$9,939.82	
	Current expense.....			43,900.83	
	Enlargement of campus.....			1,080.85	
	Geological survey.....			\$19,633.69	
	Sewerage fund.....			504.50	
	Cash on hand in Commercial Bank.....			35,792.40	
				\$55,426.09	\$55,426.09

H. P. BROWNE,
Treasurer Board of Regents.

ACCOUNTANT'S REPORT.

D. W. SPRAGUE, ACCOUNTANT.

*Showing Receipts and Disbursements of the University of Minnesota for the
Fiscal Year Ending July 31, 1890.*

FINANCIAL STATEMENT OF THE UNIVERSITY OF MINNESOTA FROM SEPTEMBER 1st, 1889, TO THE CLOSE OF THE FISCAL YEAR ENDING JULY 31st, 1890:

CURRENT EXPENSES.

Amounts received from state treasurer on auditor's warrants.		
Sept. 9.	August expense list.....	\$ 1,415.43
Sept. 28.	September pay roll.....	8,470.77
Oct. 10.	September expense list.....	2,147.91
Nov. 1.	October pay roll.....	8,950.92
Nov. 25.	October expense list.....	5,325.07
Dec. 3.	November pay roll.....	8,505.30
Dec. 17.	November expense list.....	4,291.70
Dec. 23.	December pay roll.....	8,445.30
Jan'y 22.	December expense list.....	3,860.51
Feb'y 5.	January pay roll.....	8,918.29
Feb'y 20.	January expense list.....	8,183.57
Feb'y 27.	February pay roll.....	9,018.57
March 22.	February expense list.....	12,568.05
March 29.	March pay roll.....	9,339.06
April 23.	March expense list.....	4,024.19
April 30.	April pay roll.....	9,000.92
May 23.	April expense list.....	8,292.96
May 28.	May pay roll.....	9,040.01
July 3.	May expense list.....	4,174.13
July 3.	June pay roll.....	*
July 31.	June expense list.....	3,609.11
July 31.	July pay roll.....	2,331.78
		\$139,914.55

Included in the above are the following amounts received by the university, and paid over to the state treasurer, for the credit of the current expense fund of the university:

Paid over to state treasurer by H. P. Browne, treasurer of university, upon settlement September 9, 1889.....		\$35,792.40
University, fees and sundry items.....	\$10,947.16	
Insurance, from Insurance Co., on account of losses.....	15,914.94	
U. S. Treasury, appropriation for experiment station.....	11,250.00	
Experiment station, proceeds of sales.....	1,267.78	
Salt spring lands, proceeds of sales.....	3,415.50	
		\$42,795.38
Total.....		\$78,587.78

*No funds in the treasury to meet June pay roll; provided for by Gov. Pillsbury.

GENERAL UNIVERSITY EXPENSES.

CURRENT EXPENSES.

		Number of Voucher.	
1889.			
Aug.	29.	118	\$28.00
Sept.	5.	119	44.25
Sept.	4.	120	48.30
Aug.	5.	122	52.00
July	17.	123	10.80
Aug.	20.	124	43.64
Sept.	30.	165	4,560.00
Sept.	16.	166	15.25
Sept.	16.	167	33.92
Sept.	16.	168	6.83
Aug.	29.	170	91.50
Sept.	11.	171	65.35
Sept.	13.	172	40.00
Sept.	19.	173	133.80
Sept.	30.	174	5.50
Sept.	2.	175	161.00
Sept.	33.	176	25.00
Sept.	3.	177	15.90
Aug.	20.	178	2.50
Sept.	23.	179	25.00
Sept.	23.	180	34.00
Sept.	23.	181	19.50
Sept.	23.	182	17.00
Sept.	23.	183	18.00
Sept.	23.	185	10.00
Sept.	13.	186	11.09
Sept.	17.	189	27.50
Sept.	28.	190	49.75
Sept.	27.	191	17.65
Sept.	26.	197	10.00
Sept.	26.	198	48.60
Sept.	26.	204	9.00
Sept.	27.	238	24.50
Nov.	1.	213	4,885.00
Nov.	1.	217	122.76
Oct.	1.	216	65.55
Oct.	16.	218	38.70
Oct.	1.	219	4.50
Oct.	18.	220	32.01
Oct.	7.	221	6.00
Oct.	1.	222	2.50
Oct.	22.	225	437.03
Oct.	10.	226	99.75
Nov.	1.	229	5.30
Sept.	30.	232	174.55
Oct.	28.	233	26.50
Oct.	21.	234	78.56
Oct.	15.	240	9.05
Oct.	1.	241	27.80
Oct.	9.	242	15.90
Oct.	10.	247	660.42
Sept.	30.	249	503.86
Sept.	30.	250	60.00
Oct.	26.	251	15.36
Oct.	2.	254	20.39
Sept.	30.	255	7.25
Oct.	10.	257	37.45
Oct.	31.	259	57.60
Oct.	29.	260	39.75
Oct.	1.	262	4.92
Nov.	2.	263	12.00
Nov.	2.	265	15.00
Nov.	2.	270	8.50
Nov.	1.	303	60.00
Nov.	23.	305	14.13
Oct.	23.	304	138.44
Oct.	22.	308	1.00
Nov.	1.	311	122.23
Nov.	8.	312	10.00
Dec.	1.	321	4,952.00
Nov.	29.	326	55.50
Nov.	1.	330	11.25
Oct.	30.	335	10.00
Nov.	11.	336	9.85
Nov.	18.	343	21.00
Oct.	28.	345	78.60
Nov.	30.	352	976.00
Nov.	27.	362	22.25
Dec.	2.	363	27.00
Nov.	30.	365	41.25

1889.		No. of	
		Voucher.	
Nov.	1.	F. A. Fisher & Co., labor in moving to P. Hall.....	380 892.68
Nov.	21.	F. A. Fisher & Co., cement floor, etc., main buildin.....	381 64.85
Oct.	31.	Harrison & Smith, binding books, printing blanks.....	384 78.30
Dec.	2.	C. M. Douglass & Co., fuel.....	382 831.85
Dec.	31.	Pay roll, college L. S. and the arts.....	416 4,902.00
Dec.	10.	James R. Taggart, historical chart.....	418 10.00
Dec.	31.	Lotta Black, copying bills.....	420 4.00
Dec.	28.	C. M. Douglass & Co., fuel.....	423 552.57
Dec.	23.	McCarthy & Courtney, repair closets.....	429 15.10
Dec.	17.	J. Hessel, 20 cords wood.....	432 50.00
Dec.	14.	E. B. Johnson, haul 20 cords wood.....	433 7.00
Nov.	19.	Chas. D. Whitall & Co., 1 Webster's dictionary.....	435 9.50
Dec.	16.	W. F. Porter & Co., one gate valve.....	445 9.00
Dec.	28.	E. B. Johnson, petty expense bills paid by him.....	446 37.08
Dec.	28.	E. B. Johnson, petty expense bills paid by him.....	446 30.75
Dec.	28.	W. H. Moore, magazines and papers.....	448 267.41
Dec.	19.	Geo. E. McLean, one Stormouth's dictionary.....	450 5.00
Dec.	16.	Peter Anderson, unload three cars of wood.....	453 10.50
Dec.	28.	E. B. Johnson, petty expense bills paid by him.....	454 15.55
Dec.	28.	E. B. Johnson, stamps.....	456 25.00
Dec.	14.	S. M. Emery, traveling expenses Regent's meeting.....	457 5.21
Dec.	28.	Wm. H. Yaitaw, petty expense bills paid by him.....	462 89.91
Dec.	23.	L. Kimball Printing Co., 1,000 West article.....	463 3.00
Dec.	1.	Ina Firkins, copying bills.....	464 3.00
Dec.	1.	Northwestern Telephone Exchange, tel. service 2 mo's.....	467 12.00
Dec.	30.	The Ariel Association, advertising 1889 to 1890.....	468 75.00
Dec.	9.	Minneapolis Electric and Construction Co., repairs.....	474 3.00
Jan.	31.	Pay roll, college L. S. and the arts.....	497 5,002.00
Jan.	1.	James W. Day, 10,575 pounds ice.....	498 27.43
1889-90.			
Dec.	14.	Century Oil Works, oil and oil cups.....	501 9.00
Jan.	1.	Wm. W. Folwell, services as librarian.....	503 300.00
Jan.	24.	Northwestern Fuel Co., fuel.....	504 29.00
July	25.	John Kelley, repair ceiling.....	505 5.00
Jan.	20.	Lotta Black, copying bills.....	506 1.25
Jan.	10.	C. W. Hall, petty expense bills.....	507 62.70
Jan.	24.	Peter Christianson, work in department mineralogy.....	508 21.20
Jan.	2.	W. H. Moore, magazines and papers.....	515 123.82
Jan.	11.	Union School Furniture Co., crayon and erasers.....	516 16.66
Dec.	5.	Sanford Niles, one copy School Education.....	525 2.00
July	23.	Northwestern Star Oil Co., six samples petroleum.....	529 8.25
Jan.	25.	C. M. Douglass & Co., fuel.....	532 1,209.26
Jan.	1.	John A. Schlener & Co., one hektograph and stationery.....	534 5.15
Jan.	3.	Clark & McCarthy, one "King Lear".....	543 3.29
Jan.	21.	Milton Rex, paid students moving books after fire.....	539 105.08
Jan.	19.	Morris & Wilson, one Shaks. grammar.....	545 1.30
Dec.	28.	New England Furniture Co., six kitchen tables.....	547 9.00
Jan.	29.	E. B. Johnson, gas, postage, express and grading bills.....	549 144.88
Jan.	20.	Morgan Envelope Co., 7,000 manilla envelopes.....	550 21.70
Nov.	16.	Bradstreet, Thurber & Co., 15 arm chairs.....	552 36.90
Jan.	15.	W. F. Porter & Co., connect mech. A. bldg. to boiler house.....	568 450.00
Jan.	20.	W. F. Porter & Co., piping main building.....	570 125.52
Jan.	31.	Mary L. Benton, instructor in Latin.....	571 30.00
Jan.	31.	O. L. Triggs, two vols. Ivan Panin.....	572 3.00
Jan.	29.	R. B. Lees, carpenter work in library.....	574 14.88
Dec.	1.	F. A. Fisher & Co., furniture, etc., Pillsbury hall.....	575 1,769.50
Jan.	31.	Tanz Orchestra, music at Pillsbury contest.....	687 25.00
Jan.	31.	Geo. C. Merrill, abstract of title.....	588 4.50
Feb.	1.	Littlefield & Moore, fix eave spouts.....	591 6.95
Feb.	3.	J. H Hagen & Co., slating blackboards.....	592 46.30
Jan.	9.	Chas. L. Webster, 10 vols. Steadman's Am. Literature.....	595 40.00
Jan.	29.	R. B. Lees, making stand for instruments.....	614 5.95
Dec.	21.	St. Paul Brass Works, six copper galvanometers dampers.....	615 11.00
Jan.	2.	Littlefield & Moore, ventilating piping after fire.....	617 500.00
Feb.	28.	Pay roll, college L. S. and the arts.....	622 5,032.00
Jan.	23.	W. K. Morrison & Co., taper files.....	624 1.00
Mch.	1.	P. F. Parker 25 hours copying bills.....	628 6.25
Feb.	1.	Tribune Job Printing Co., printed blanks.....	629 80.25
Jan.	22.	Harrison & Smith, repairing 16 vol. Naturalists.....	630 19.52
Mch.	1.	E. B. Johnson, stamps, gas bills, etc.....	631 71.24
Jan.	20.	Eimer & Amend, chemical supplies.....	635 72.47
Feb.	25.	C. S. Ooe, work on library.....	636 20.85
Feb.	17.	Glessner & Washburn, one cushion.....	637 2.50
Feb.	20.	Twin City Awning Co., shades for office.....	642 11.00
Feb.	27.	Verdine Truesdell, eleven cars of coal.....	643 798.18
Jan.	20.	Eimer & Amend, 20 lbs. mercury.....	644 15.80
Mch.	1.	O. L. Triggs, work in dept. of English.....	641 55.00
Feb.	15.	Oscar L. Firkins, work in dept. rhetoricals.....	645 60.00
Feb.	10.	Noyes Bros. & Cutler, glass tubing, etc.....	648 2.83
Feb.	1.	Minneapolis Paper Box Co., one Mtrays.....	652 7.00
Feb.	5.	Northwestern Fuel Co., four cars coal.....	653 315.54
Feb.	22.	C. M. Douglass & Co., two cars coal.....	653 170.34
Feb.	7.	F. A. Fisher & Co., repairs Pills. Hall after fire.....	656 7,582.80

		Voucher.	
1889.			
Feb. 15.	John A. Schlener & Co., one mem. book and pens.....	698	\$1 00
Feb. 11.	Gustav E. Stechert, bill of books.....	700	31.90
Feb. 15.	Wm. M. Liggett, trav. expenses regents' meeting.....	704	8.00
Feb. 28.	W. F. Porter & Co., bal. due on heating and ventilating main bld.....	704½	200.00
Mch. 31.	Pay roll, College Lt Science and the Arts.....	725	5,002.00
Mch. 20.	Miss Kate Oliver, instruction in elocution.....	726	50.00
Mch. 6.	Glessner & Washburn, repair furniture after fire.....	727	95.75
June 30.	Wm. W. Folwell, build cheap cases for library.....	728	5.93
Mch. 22.	Minneapolis Elec. and Const. Co., repair electric bells and electric clock.....	729	50.00
Mch. 15.	Wm. W. Folwell Am. Archaeolog. Institute (1890).....	730	10.00
Mch. 20.	Northwest. Telephone Exch. Co., service for two months.....	731	12.00
Mch. 18.	C. W. Menellep, brooms, brushes, soap, baskets, etc.....	732	17.43
Feb. 20.	Elmer & Amend, chemical supplies.....	733	5.30
Mch. 4.	Wm. W. Folwell, paid Mary Bowen, work in library.....	734	11.89
Mch. 11.	Bradstreet, Thurber & Co., 50 arm chairs.....	735	110.42
Mch. 21.	Gustav E. Stechert, books for library.....	736	24.65
Mch. 29.	Verdine Truesdell, bill of fuel, ten carloads.....	737	700.50
Feb. 28.	Franklin Institute of Pa., index to vol. 1 to 120.....	738	5.00
Feb. 19.	Ginn & Co., Journal of Morphology.....	739	9.00
April 1.	M. Lara & Co., carpet laying, matting, shades, etc.....	740	202.17
Mch. 5.	J. P. Gray, bill of hardware.....	741	42.05
Mch. 25.	Wm. H. Yattaw, petty bills paid by him.....	742	154.91
Mch. 25.	E. B. Johnson, bill of stamps, gas, etc.....	743	62.97
1890.			
Mch. 1.	Minneapolis Gas Light Co., bill of piping and connections.....	744	20.50
Mch. 29.	Tribune Job, printed blanks.....	745	10.25
Feb. 1.	Littlefield & Moore, speaking tubes.....	746	6.70
Mch. 25.	Wm. H. Yattaw, work on campus and in buildings.....	742	41.50
Mch. 25.	E. B. Johnson, paid instructor in Latin, etc.....	743	33.50
Feb. 3.	F. A. Fisher & Co., 400 fire brick.....	760	12.00
April 1.	E. B. Johnson, petty bills paid by him.....	764	22.00
Mch. 31.	W. F. Porter & Co., repairs on Pillsbury Hall after fire.....	765½	1,200.00
April 30.	Pay roll, College of Literature, Science and the Arts.....	800	4,952.00
April 10.	Wm. W. Folwell, services as librarian.....	801	200.00
April 25.	Northwestern Telephone Exch. Co., telephone services.....	802	12.00
April 22.	F. A. Fisher & Co., repair main building after fire.....	803	4,429.60
April 30.	Oscar L. Triggs, instructor during spring term.....	804	60.00
April 23.	Harrison & Smith, repair 84 vols., binding others.....	805	106.93
April 30.	Wm. H. Yattaw, petty bills paid by him.....	806	177.67
April 25.	Peter Christianson, cleaning specimens after fire.....	807	16.20
Jan. 30.	Gustav E. Stechert, bill of books for library.....	808	79.01
April 19.	C. S. Coe, work in library.....	809	20.72
Mch.	John S. Pillsbury, money advanced to Dr. Brooks for pur- chase of books.....	810	219.15
Mch. 18.	Northwestern Fuel Co., 2 car loads coal.....	811	122.51
April 30.	Verdine Truesdell, 7 car loads coal.....	812	474.19
April 5.	M. Lara & Co., one carpet, matting, fixtures and laying.....	813	227.53
May 1.	E. B. Johnson, petty expense bills paid by him.....	814	91.40
Mch. 22.	P. F. Parker, work in copying bills.....	815	6.00
Mch. 28.	Gustav E. Stechert, bill of books.....	817	20.32
Jan. 1.	Gull River Lumber Co., 5 car loads slab wood.....	818	112.50
April 23.	Harrison & Smith, printing blanks.....	819	6.75
May 1.	E. B. Johnson, petty bills paid by him.....	844	17.78
May 1.	Cyrus Northrop, one Century dictionary.....	862	10.00
April 23.	Harrison & Smith, 2 books—2,500 lithograph orders.....	875	26.22
April 26.	E. B. Johnson, 135 diplomas.....	877	168.75
May 1.	Bladon & Gibbs, 5 chandeliers and fixtures.....	816	168.75
May 31.	Pay roll, College Literature, Science and the Arts.....	882	4,952.00
June 1.	Tribune Job, printing catalogues and sundries.....	883	505.53
May 17.	W. S. Nott & Co., 100 feet rub. hose.....	884	15.00
June 1.	Bulletin Educational Society, to "ad" in official bulletin.....	885	30.00
May 5.	Russell H. Folwell, finishing library tables.....	900	7.77
June 1.	E. B. Johnson, bills paid by him as per sub-vouchers at- tached.....	901	320.13
June 2.	E. B. Johnson, printing catalogues.....	905	500.00
May 15.	Henry Nachtrieb, 3 vols. microscopical science.....	906	30.00
May 1.	Wm. W. Folwell, services as librarian.....	908	100.00
May 29.	D. Appleton & Co., Annual Cyclopaedia.....	909	6.00
May 30.	Mary Bowen, preparing periodicals for binding.....	910	23.67
May 1.	Tribune Job, 2,000 circulars.....	911	11.75
May 31.	The Gopher, 11 plates of university buildings.....	912	175.00
May 31.	Verdine Truesdell, 3 car-loads coal.....	914	236.66
Mar. 31.	W. F. Porter & Co., repair Pillsbury hall after fire.....	938	840.40
June 30.	E. B. Johnson, petty expenses paid by him.....	940	72.61
June 30.	E. B. Johnson, stamps, gas, diplomas, etc.....	940	263.85
July 1.	E. B. Johnson, petty bills paid by him.....	950	22.11
June 1.	Wm. H. Yattaw, petty bills paid by him.....	951	78.28
May 7.	Elmer & Amend, 2 bbls alcohol.....	952	49.35
June 30.	D. W. Sprague, petty expenses paid by him.....	953	8.00
June 17.	J. P. Haine, 1 copy Century dictionary.....	954	10.00
June 18.	James A. Dodge, petty bills, minerals, chemicals, etc.....	955	40.00
Feb. 28.	W. F. Porter & Co., work in main building.....	956	175.85

1889.		Voucher.	
June 6.	C. P. Lommen, work done in rhetorical department.....	957	\$8.00
April 12.	C. A. Hoffman, repairing 18 microscopes.....	958	110.00
June 14.	Glessner & Washburn, 1 lounge—repairing furniture.....	959	62.00
June 5.	Conway McMillan, petty expenses as per sub-voucher.....	960	34.45
June 30.	H. P. Browne, services as treasurer.....	961	400.00
June 19.	F. A. Fisher, & Co., repairs on "Coliseum".....	962	61.02
June 30.	Peter Christianson, work on campus.....	963	16.50
June 18.	M. C. Lilley & Co., for U. S. flag, markers, lettering.....	964	82.95
June 1.	Tribune Job, printing programs, etc.....	965	68.50
June 3.	Bradstreet, Thurber & Co., 415 yards bunting.....	966	24.90
June 25.	Dr. H. Parmaby, treas., to assessment of exp. stations.....	967	25.00
June 27.	Henry T. Ardley, bill of sundries.....	976	16.09
May 7.	R. B. Lees, changes in "Coliseum".....	984	63.50
July 1.	O. C. Grogger, publishing university article.....	990	50.00
June 25.	J. H. Dorn, 403 dinners (commencement).....	991	403.00
June 23.	Danz' orchestra, music at commencement and reception...	992	110.00

\$81,334.48

Less voucher 470 paid twice, having been improperly approved

23.30

Total..... \$81,311.18

SCHOOL OF AGRICULTURE.

CURRENT EXPENSES.

1889.			
Aug. 29.	J. H. Perry, 2500 letter circulars.....	117	\$16.50
Sept. 30.	Pay roll, school of agriculture.....	165	220.00
Oct. 31.	Pay roll, school of agriculture.....	213	270.00
Sept. 27.	Wm. M. Liggett, hotel exp while looking after new bid'g.....	227	8.38
Nov. 1.	John A. Schlenker & Co., stationery.....	229	4.03
Aug. 21.	Elmer & Amend, supplies for school laboratory.....	271	190.80
Oct. 21.	St. Anthony Furniture Co., 35 tables made to order.....	273	91.60
Oct. 19.	Boutell Brothers, furniture.....	276	41.85
Oct. 19.	F. W. Pickard, P. M., stamps.....	277	1.00
Oct. 22.	Salisbury, Rolph & Co., bedsteads and mattresses.....	280	240.00
Oct. 21.	Bovey-DeLaitre Lumber Co., bill of lumber.....	288	25.00
Oct. 17.	J. R. Elliott, table furniture.....	293	45.20
Sept. 2.	Journal Printing Co., printing notice of bids.....	295	20.01
Oct. 18.	H. W. Brewster, settling in new build. and petty bills.....	296	91.50
Oct. 19.	Bateman & Clark, bill of crockery.....	297	43.50
Oct. 29.	McCarthy & Courtney, plumbing contract.....	315	125.00
Oct. 28.	John A. Schlenker & Co., bill of stationery.....	310	3.50
Dec. 1.	Pay roll, school of agriculture.....	321	270.00
Dec. 1.	Pay roll, students pay roll.....	322	82.11
Nov. 14.	W. E. Porter & Co., labor and material in "coil".....	325	50.00
Oct. 18.	J. H. Sanders & Co., 40 copies Cattle Breeding.....	327	50.00
Oct. 28.	Orange Judd Co., 36 copies Fuller's Small Fruit.....	328	40.50
Nov. 1.	D. D. Merrill, bill of stationery.....	332	49.45
Nov. 29.	Poster & Smith, carpenter work.....	334	25.00
Oct. 17.	John Wiley & Sons, 1 chemistry.....	348	2.12
Oct. 16.	Henry Holt, 18 Renssen's chemistry.....	359	14.40
Nov. 1.	Peter Schons & Co., anatomical aid.....	369	30.00
Nov. 1.	Ginn & Co., bill of text-books.....	372	26.73
Oct. 15.	D. Appletton & Bragg, 20 phys. geographies.....	377	17.00
Oct. 15.	D. Appletton & Co., text books.....	378	5.07
Oct. 15.	Goodfellow & Co., bedding and table linen.....	379	36.74
Oct. 31.	Harrison & Smith, printing.....	384	3.00
Oct. 15.	Iverson, Blakeman & Co., 18 How Plants Grow.....	388	12.00
Dec. 31.	Pay roll, school of agriculture.....	416	270.00
Dec. 31.	Pay roll, students' pay roll.....	417	133.62
Dec. 9.	Northwestern Fuel Co., 2 tons stove coal.....	419	15.50
Nov. 30.	Harrison & Smith, cards and blanks.....	425	11.00
Oct. 23.	St. Paul Book and Stationery Co., 2 dozen erasers.....	430	1.90
Nov. 21.	H. W. Brewster, board of Smith and petty expenses.....	431	18.34
Nov. 14.	John A. Schlenker & Co., stationery.....	441	3.25
Dec. 21.	C. M. Douglas & Co., 55,100 lbs. coal.....	440	210.62
Dec. 12.	Alfred P. Gage, apparatus to illustrate physics.....	459	105.27
Dec. 12.	Northwestern Fuel Co., 18 tons 300 lbs. coal.....	460	132.67
Nov. 30.	Pioneer Fuel Co., 3 cords pine slabs.....	471	10.50
Dec. 9.	W. M. Hays, freight and postage.....	475	8.75
Nov. 14.	Wm. Donaldson & Co., furniture.....	478	178.40
Jan. 31.	Pay roll, school of agriculture.....	497	270.00
Jan. 31.	Pay roll, students' pay roll.....	497	44.45
Nov. 4.	W. M. Hays, express.....	518	2.55
Nov. 23.	W. J. Beal, 19 copies Grasses North America.....	517	35.87
Dec. 2.	Orange Judd Co., 10 Fuller's Small Fruits.....	527	11.25
Dec. 17.	Brown, Treacy & Co., 5 gal. writing fluid.....	528	8.00
Jan. 30.	H. W. Brewster, freight, postage and sundries.....	530	17.93
Jan. 15.	Ginn & Co., 24 geometrys.....	531	16.29
Jan. 29.	Harrison & Smith, printing.....	532	4.59
Nov. 21.	A. S. Woodburn, 40 copies Dairy Practice.....	640	20.00
Jan. 2.	M. Lara & Co., carpets, matting, webbing and shades.....	548	278.62

		No. of	
		Voucher.	
Jan.	1.	Tribune Job, printing class reports, course of study, &c.....	551 \$29.50
Dec.	1.	Union Railway Storage Co., material for sewer.....	553 20.65
Jan.	10.	Northwestern Fuel Co., 3 tons coal.....	554 24.00
Dec.	20.	Russell, Boynton & Co., plumbing.....	581 3.40
Nov.	1.	D. Ramaley & Sons, book-keeping blanks.....	585 12.00
Feb.	1.	Clark Bros., bill of crockery.....	593 16.48
Nov.	12.	Northwestern Fuel Co., 18 tons 14 cwt. coal.....	594 135.58
Jan.	1.	Held & Emenhagen, tools and hardware.....	596 3.93
Dec.	20.	W. F. Porter & Co., plumbing.....	616 56.94
Feb.	1.	Students' pay roll, janitor work, scrubbing, etc.....	618 119.86
Feb.	28.	Pay roll, school of agriculture.....	622 310.00
Feb.	28.	Pay roll, pay roll of assistants.....	622 39.25
Nov.	30.	W. K. Morrison & Co., carpenters' tools, dept. manual labor.....	623 91.35
Feb.	11.	J. P. Gilmore, 4 boxes crayon.....	627 .60
Jan.	30.	Northwestern Fuel Co., 21 tons coal.....	634 153.50
Feb.	13.	Northwestern Fuel Co., 19 tons 700 cwt. coal.....	655 140.28
Jan.	1.	Drainage and Farm Journal, 1 copy.....	657 1.00
Jan.	1.	The Iowa Homestead, 1 copy.....	658 1.00
Jan.	29.	Orange Judd Farmer Co., 20 copies Stewart's Feeding.....	659 32.83
Dec.	24.	Farmer's Review, 1 copy.....	667 1.25
Dec.	28.	Luther Tucker & Son, 1 copy Country Gentleman.....	668 2.00
Feb.	4.	W. M. Hays, express charges.....	669 1.65
Sept.	25.	N. C. Anderson, carpenter work.....	673 5.10
Dec.	10.	Nelson, Tenney & Co., bill of lumber.....	674 70.43
Jan.	21.	Nelsons & Tenney, bill of lumber.....	676 19.56
Nov.	11.	Mpls. Tubular Well Co., well, windmill and appurtenances.....	677 541.80
Jan.	31.	W. K. Morrison & Co., kitchen furniture.....	691 16.96
Dec.	27.	J. H. Sanders Publishing Co., 1 Breeder's Gazette.....	697 2.00
Feb.	15.	John A. Schlener & Co., stationery.....	698 1.50
Dec.	31.	W. K. Morrison & Co., kitchen furniture, hardware, &c.....	701 113.02
Feb.	28.	Students' pay roll, janitor, firemen, sundries.....	703 64.76
Mar.	31.	Pay roll, school of agriculture.....	725 290.00
Mar.	31.	Pay roll of assistants.....	725 30.30
Mar.	31.	Pay roll, students' pay roll.....	725 188.56
Mar.	29.	Northwestern Fuel Co., 14 tons, 1,450 cwt., coal.....	752 107.82
Mar.	6.	Northwestern Fuel Co., 41,900 lbs. coal.....	753 151.88
April	1.	E. B. Johnson, petty bills.....	764 6.45
Feb.	28.	W. K. Morrison & Co., hardware.....	765 5.50
1890.			
April	30.	Pay roll, school of agriculture.....	800 243.50
Mar.	18.	Northwestern Fuel Co., 18 tons, 300 cwt. coal.....	811 131.58
April	26.	Calhoun & Long, bill of crockery.....	822 14.16
Mar.	31.	Tribune Job, 500 commencement programs.....	823 6.75
May	1.	E. B. Johnson, petty bills paid by him.....	844 15.47
Sept.	30.	W. K. Morrison & Co., hardware.....	871 5.25
May	31.	Pay roll, school of agriculture.....	882 240.42
Nov.	27.	Noyes Bros. & Cutler, bill of chemicals.....	891 12.52
Nov.	2.	R. S. Goodfellow & Co., crash, shades, etc.....	894 6.31
June	5.	P. V. Collins, advertising.....	970 25.00
Feb.	5.	Orange Judd Farmer Co., 6 copies Stewart's feeding.....	971 9.84
			\$7,483.58
Deduct bill No. 553, it having been included in another bill			20.65
Total			\$7,462.93

VETERINARY DEPARTMENT.

CURRENT EXPENSE.

July	12.	Noyes Bros. & Cutler, 1 syringe.....	140 \$4.07
Sept.	30.	Pay roll, salary.....	165 125.00
Sept.	24.	Noyes Bros. & Cutler, 1 hyperdermic syringe.....	205 4.07
Nov.	1.	Pay roll, salary.....	213 125.00
Oct.	22.	Noyes Bros. & Cutler, 3 set drills.....	228 1.28
Oct.	10.	M. H. Kennedy, 1 blacksmith's forge.....	281 11.00
Oct.	1.	Noyes Bros. & Cutler, 1 patent drill.....	284 2.00
Sept.	3.	J. M. Kelly & Co., boiler band.....	299 2.00
Sept.	16.	Noyes Bros. & Cutler, chemicals.....	301 1.38
Oct.	5.	Noyes Bros. & Cutler, equipment.....	306 77.10
Oct.	8.	Noyes Bros. & Cutler, equipment.....	307 20.06
Dec.	1.	Pay roll, salary.....	321 150.00
Dec.	1.	Pay roll, salary.....	322 70
Nov.	1.	Warner Brothers, equipment.....	337 119.45
Oct.	28.	Chas. Friend & Son, horse blinder.....	370 3.00
Nov.	11.	O. W. Firkins, cedar posts.....	387 5.53
Nov.	15.	John Smith, work around hospital.....	376 4.50
Dec.	31.	Pay roll, salaries.....	416 150.00
Dec.	31.	Pay roll, student labor.....	417 8.85
Jan.	31.	Pay roll, salaries.....	497 150.00
Dec.	1.	Warner Brothers, hardware.....	513 1.48
Dec.	11.	Henry H. Shuffeld & Co., 1/2 bbl. alcohol.....	519 9.80

1889			No. of Voucher.	
Dec.	23.	John Smith, salary as assistant	520	\$25.00
Dec.	4.	Gustav E. Stechert, journal compar. medicine	526	2.00
Jan.	29.	Harrison & Smith, printing	538	8.50
Jan.	1.	Warner Brothers, bill of tools	541	3.02
Jan.	4.	Olof Schwartzkopff, bill of petty expenses	560	14.96
Jan.	1.	Held & Gruenhagen, bill of tools and hardware	596	16.85
Dec.	17.	Noyes Bros. & Cutler, instruments	606	3.96
Nov.	10.	Burns & Graham, black-smith work	609	4.00
Feb.	1.	Students pay roll, work	618	.84
Feb.	28.	Pay roll, salaries	622	150.00
Feb.	1.	Chas. D. Whitall & Co., hektograph	626	3.75
Feb.	1.	Northwestern Scavenger Co., horse for dissection	632	5.00
Mar.	1.	Thomas F. Mea, barn rented for dissection	654	22.50
Feb.	7.	Noyes Bros. & Cutler, chemicals	681	1.00
Dec.	31.	W. K. Morrison & Co., 40 gal. oil, and hardware for hosp't	701	33.41
Mar.	31.	Pay roll, salaries	725	148.00
April	30.	Pay roll, salaries	800	176.32
Jan.	28.	St. Anthony Furniture Co., tables	824	7.00
Mar.	31.	Thomas F. Mea, rent of stable for dissection	825	15.00
Feb.	18.	Glessner & Washburn, 1 office desk	834	25.00
May	1.	E. B. Johnson, petty bills paid for veterinary dept	844	9.47
May	31.	Pay roll, salaries	882	155.00
April	22.	Gustav E. Stechert, books for library	886	30.24
May	8.	School of agriculture, board of John Smith, assistant	895	54.00
May	12.	Noyes Bros. & Cutler, bill of instruments	896	32.41
June	2.	E. B. Johnson, petty bills paid for this department	902	17.30
July	1.	E. B. Johnson, petty bill, printing	950	2.25
June	2.	Northwest Scavenger Co., taking horse to and from hosp't	972	10.00
June	1.	L. B. Loge, harness supplies	973	12.70
June	1.	M. Lara & Co., 13 shades	974	13.00
June	27.	Robert Olson, building pasture fence	975	5.25
July	31.	Pay roll, salaries	1,026	155.00
Total				\$2,138.80

MILITARY TACTICS.

CURRENT EXPENSE.

Sept.	30.	Fred. Ahr, salary	187	\$35.00
Oct.	31.	Fred. Ahr, salary	213	35.00
Nov.	30.	Fred. Ahr, salary	321	35.00
Dec.	31.	Fred. Ahr, salary	416	35.00
June	—	John S. Pillsbury, freight on gun carriages	466	27.76
Jan.	31.	Fred. Ahr, salary	497	35.00
Feb.	28.	Fred. Ahr, salary	622	35.00
Mar.	31.	Fred. Ahr, salary	725	35.00
April	31.	Fred. Ahr, salary	800	35.00
May	31.	Fred. Ahr, salary	882	35.00
Total				\$342.76

COLLEGE OF MECHANIC ARTS.

CURRENT EXPENSE.

1889.			Voucher.	
Sept.	6.	C. H. Whipps, salary as janitor, 22 days	121	\$ 46.15
Sept.	30.	Pay roll, salaries	164	930.00
Sept.	20.	Wm. Donaldson, wardrobe for books (Barr)	184	18.50
Oct	28.	Northwestern Fuel Co., crushed coke	230	7.50
April	4.	Lockwood, Upton & Co., castings and bushing	231	9.35
Aug.	20.	Taylor & Galpin, groceries for mechanical department	235	3.30
Oct.	...	Northwestern Star Oil Co., 20 gallons oil	236	6.70
Oct.	21.	Bovey, DeLaitre & Co., bill of lumber	237	31.60
Sept.	20.	Geo. M. Furber & Co., brooms, so ap., etc	232	1.65
Oct.	1.	W. K. Morrison & Co., tools, hardware	239	26.31
Sept.	30.	W. K. Morrison & Co., bill of glass	243	10.21
Oct.	24.	Minneapolis Paper Box Co., 500 trays	244	3.50
Oct.	21.	Janney, Semple & Co., bill of bar iron	245	18.27
Oct.	15.	Northwestern Paper Co., 1 case toilet paper	248	11.10
Oct.	28.	Littlefield & Son, making oil box	258	1.50
Sept.	26.	Naylor & Co., tools and machinery	261	10.95
Oct.	14.	Jas. H. Bishop & Co., 1 ream paper	267	1.80
Oct.	23.	W. F. Porter & Co., repairing mechanic building	302	11.70
Oct.	31.	Pay roll, salaries for October	213	930.00
Dec.	1.	Pay roll, salaries	321	945.00
Nov.	9.	Wm. Donaldson & Co., 1 wardrobe (Hoag)	329	17.00
Nov.	18.	Henry T. Ardley, furniture	348	66.50
Oct.	31.	W. K. Morrison & Co., bill of hardware	351	18.26
Oct.	30.	Janney, Semple & Co., bill of hardware	353	23.65
Nov.	14.	Minneapolis Electric and Construction Co., sundries	354	5.03
Nov.	9.	R. C. Clark, inspecting boiler	355	3.00
Oct.	15.	Bradstreet & Thurber, 6 stools	357	5.40
Nov.	18.	Naylor & Co., 1-3 inch discs	358	6.75

1889.		Voucher.	
Sept.	30.	W. F. Porter Co., bill of plumbing	385
Dec.	21.	Pay roll, salaries	827.10
Dec.	31.	C. H. Christianson, janitor work	418
Nov.	26.	The Clare Speaker Co., brushes; paints	424
Nov.	11.	E. W. Ashenden, carpenter work	434
Dec.	28.	W. H. Hobbs & Son, repairing roof	461
Jan.	31.	Pay roll, salaries	469
Dec.	21.	M. J. Galpin, wooden panels for drawing	497
Jan.	2.	A. C. & C. F. Peters, artists' materials	509
Dec.	19.	Miller Bros. & Fletcher, bill of tools	512
Dec.	31.	W. K. Morrison & Co., bill of iron and tools	556
Jan.	1.	J. P. Gilmore, bill of paints	558
Jan.	22.	Naylor & Co., bill of supplies	561
Dec.	10.	Northwestern Star Oil Co., 5 gallons lard oil	562
Jan.	10.	Janney, Semple & Co., assortment of screws, steel	560
Feb.	28.	Pay roll, salaries	590
March	1.	E. B. Johnson, gas bill	622
Jan.	31.	W. K. Morrison & Co., screw plate, emery cloth, etc	631
Feb.	15.	John A. Schlener & Co., 1 plain meter	660
Nov.	30.	W. K. Morrison & Co., bill of hardware	661
Feb.	14.	Naylor & Co., plumbing fittings	662
Feb.	1.	Edward C. Cavett, work and material	663
Feb.	22.	Robinson & Cary Co., 52 lbs. tool steel and cutting	664
Jan.	31.	Simonsen Bros. Manufacturing Co., bill of lumber	665
Feb.	14.	W. S. Nott & Co., 25 feet tubing	666
March	31.	Pay roll, salaries	633
March	25.	E. B. Johnson, gas bill	725
March	30.	John H. Barr, petty bill paid by him	743
Feb.	5.	F. A. Fisher & Co., repairs on building	749
March	28.	Carroll & Hankinson, 1 8-inch cir. protractor	750
April	1.	E. B. Johnson, petty bills paid by him	751
April	30.	Pay roll, salaries	764
May	1.	E. B. Johnson, gas bill	800
Feb.	28.	W. F. Porter & Co., plumbing repairs	814
May	1.	Boeringer & Son, repairing transit	820
April	4.	John A. Schlener & Co., surveying instruments	826
April	1.	Chas. Koch & Brother, bill of print paper	827
April	24.	Northwestern Paper Co., 1 case toilet paper	828
May	1.	E. B. Johnson, petty bills paid by him	829
May	31.	Pay roll, salaries	844
May	11.	Lockwood, Upton & Co., coke, pig iron and machinery	882
May	31.	Wm. A. Pike, petty bills paid by him	897
June	1.	E. B. Johnson, gas bill	899
June	2.	E. B. Johnson, petty bills paid by him	901
June	30.	E. B. Johnson, gas bill	903
July	1.	E. B. Johnson, petty bills paid by him	949
May	6.	Theodore Logaard, blue print paper	950
June	23.	John A. Schlener & Co., 1 compass and tripod, and other instruments	977
May	31.	W. K. Morrison & Co., bill of hardware	978
June	16.	Naylor & Co., bill of machinery	979
			980
Total			\$9,560.86

GEOLOGICAL SURVEY.

CURRENT EXPENSE.

Sept.	30.	Pay-roll, salaries	165	\$ 275.00
Sept.	25.	N. H. Winchell, petty bills paid by him	207	91.06
Nov.	1.	Pay-roll, salaries	213	275.00
Oct.	28.	N. H. Winchell, petty bills paid by him	252	21.87
Sept.	30.	Siemens-Lungren Illum. Co., gas heating stove	253	17.65
Dec.	1.	Pay-roll, salaries	321	275.00
Jan.	1.	Pay-roll, salaries	416	275.00
Jan.	31.	Pay-roll, salaries	497	275.00
Jan.	1.	N. H. Winchell, petty bills paid by him	510	60.54
Jan.	26.	N. H. Winchell, petty bills paid by him	576	29.45
Feb.	28.	Pay-roll, salaries	622	275.00
March	31.	Pay-roll, salaries	725	275.00
March	8.	Mpls. Show Case Factory, 1 iron stand	747	7.50
March	26.	N. H. Winchell, petty bills paid by him	748	33.48
April	30.	Pay-roll, salaries	800	275.00
May	3.	N. H. Winchell, petty bills paid by him	830	48.72
May	31.	Pay-roll, salaries	882	275.00
June	26.	Louis Ogard, labor in Geol. Dept.	981	75.00
June	25.	N. H. Winchell, petty bills paid by him	982	49.43
July	1.	Pay-roll, salaries	1026	275.00
Total				\$3,164.70

DEPARTMENT OF LAW.

CURRENT EXPENSE.

Voucher.

1889.				
Sept.	30.	Pay-roll, salaries.....	165	250.00
Sept.	11.	Emma K. Worrall, U. S. SC. Reports and Danforth's Digest.	188	109.00
Oct.	31.	Pay-roll, salaries.....	213	200.00
Oct.	31.	Pay-roll, salaries.....	264	40.00
Nov.	1.	Selden Bacon, 130 vol. Mass. Reports, and other works.....	264	141.75
Oct.	8.	Mpls. Gas Light Co., putting gas into law building.....	266	107.50
Nov.	30.	Pay-roll, salaries.....	321	290.00
Nov.	30.	Pay-roll, salaries.....	396	85.00
Nov.	30.	Pay-roll, salaries.....	397	65.00
Dec.	31.	Pay-roll, salaries.....	416	290.00
Dec.	28.	E. B. Johnson, gas bill.....	446	6.48
Dec.	6.	West Publishing Co., bill of law books.....	458	89.25
Jan.	31.	Pay-roll, salaries.....	497	290.00
Dec.	1.	The Advocate Company, advertising.....	546	10.00
Jan.	29.	E. B. Johnson, gas bill.....	549	10.08
Jan.	31.	Chas. Elliott, salary.....	573	40.00
Feb.	28.	Pay-roll, salaries.....	622	290.00
March	1.	E. B. Johnson, gas bill.....	631	9.36
March	31.	Pay-roll, salaries.....	725	290.90
March	25.	Pay-roll, salary of Judge Pierce and Mr. Elliott.....	743	95.00
March	25.	E. B. Johnson, gas bill.....	743	10.80
April	30.	Pay-roll, salaries.....	800	290.00
May	1.	E. B. Johnson, gas bill.....	814	10.98
April	22.	Callahan & Co., Blackstone, Coke and Littleton.....	821	13.00
May	1.	E. B. Johnson, 4 Law Journals.....	844	2.24
May	31.	Pay-roll, salaries.....	882	290.00
June	1.	E. B. Johnson, lectures by Elliott.....	901	35.00
June	1.	E. B. Johnson, gas bill.....	901	11.34
May	31.	Seldon Bacon, 31 extra lectures.....	907	155.00
May	31.	Seldon Bacon, paid for printing.....	907	3.50
June	30.	Pay-roll, lectures by Elliott.....	949	50.00
June	30.	E. B. Johnson, gas bill.....	949	9.54
June	30.	E. B. Johnson, petty expenses paid by Pattee.....	949	15.50
June	30.	W. S. Pattee, 200 copies of "Green Bag,".....	983	50.00
Total.....				\$3,745.32

DEPARTMENT OF MEDICINE.

CURRENT EXPENSE.

1889.				
Sept.	30.	Pay-roll, salaries.....	165	721.66
Sept.	27.	Northwestern Telephone Ex., telephone service.....	208	24.00
Nov.	1.	Pay-roll, salaries.....	213	776.66
Aug.	3.	Journal Am. Med. Assoc., advertising.....	215	21.00
Sept.	13.	Am. Stove Repair works, repairs.....	223	3.50
Oct.	6.	D. Ramaley & Sons, bill of printing.....	224	17.25
Oct.	1.	Henry H. Shufeldt & Co., 1 bbl. alcohol.....	241	27.85
Oct.	26.	Eimer & Amend, bill of apparatus.....	256	100.56
Oct.	15.	Minn. Hosp. college, rent of college building.....	268	50.00
Oct.	23.	Buffalo Dental Manuf. Co., bill of apparatus.....	304
Nov.	1.	M. A. Marshall, janitor.....	269	10.00
Dec.	1.	Pay-roll, salaries.....	321	748.32
Nov.	25.	Dr. J. C. Stewart, express charges.....	347	4.00
Nov.	19.	Bausch-Lomb Optical Co., 4 objectives (microscopes).....	349	100.00
Nov.	15.	Northwestern Lancet, advertising.....	350	60.00
Nov.	27.	Minn. Hosp. college, rent.....	356	50.00
Nov.	29.	Johnson & Hurd, 1 dental cabinet.....	390	18.00
Nov.	29.	Franklin Benner, 3 dental brackets.....	391	6.00
Nov.	27.	Mpls. Dental Manuf. Co., apparatus.....	392	14.24
Nov.	29.	Mpls. Gas Light Co., gas light fixtures.....	393	23.20
Nov.	29.	Thos. A. Clark & Co., printing slips for Dental College.....	394	2.25
Nov.	29.	B. R. J. Thaxter, 3 bracket tables.....	395	1.50
Nov.	25.	Mpls. Jewelry Manuf. Co., bill of instruments.....	383	9.05
Dec.	31.	Pay-roll, salaries.....	416	748.32
Dec.	30.	Perry H. Millard, cash adv. to Jas. Queen & Co., apparat.....	421	239.84
Nov.	8.	American Stove Repair works, tin box.....	422	5.50
Oct.	17.	Vanderwerker & Acker, fuel.....	425	210.00
Nov.	27.	Edward H. Angle, histological materials.....	427	28.09
Dec.	23.	Minn. Hosp. college, rent.....	437	50.00
Dec.	14.	P. G. Hanson, groceries.....	443	4.25
Dec.	28.	E. B. Johnson, gas and water bills.....	446	67.86
Dec.	30.	P. H. Millard, petty expenses.....	447	30.57
Dec.	31.	E. B. Johnson, stationery.....	454	10.98
Dec.	28.	Wm. H. Yattaw, petty expenses.....	462	5.50
Dec.	1.	Northwestern Telephone Co., service.....	467	12.45
Dec.	9.	Minneapolis Gas Light Co., furnace, crucible, etc.....	470	23.20
Dec.	18.	Dr. J. Clark Stewart, petty bills paid by him.....	473	6.43
Jan.	31.	Pay-roll, salaries.....	497	748.32
Dec.	31.	F. S. Martin, repairing heating apparatus.....	497½	9.45
Dec.	30.	Harrington Beard, stationery.....	502	6.82

1889.		Voucher.	
Dec. 31.	St. Paul Gas Light Co., gas bill.....	511	\$11.20
Dec. 30.	H. C. Aldrich, M. D., postage.....	514	6.00
Sept. 28.	Dr. C. M. Bailey, apparatus.....	523	57.74
Jan. 1.	Weinhold Bros., druggists' materials.....	524	8.57
Dec. 27.	Thos. Gardiner, 36 test tubes.....	533	18.00
Oct. 23.	McCarthy & Courtney, fitting up laboratory.....	542	147.00
Oct. 25.	Tribune Job Office, 500 lecture cards.....	544	5.00
Jan. 27.	E. B. Johnson, gas bills, express.....	549	41.94
Dec. 19.	B. E. J. Thaxter, carpenter work, medical college.....	555	52.00
Dec. 14.	W. K. Morrison & Co., hardware.....	557	1.89
Jan. 16.	P. G. Hanson, jars.....	559	1.75
Jan. 13.	C. J. Bell, express bills.....	563	36.15
Dec. 27.	Lyman-Ellel Drug Co., chemicals.....	565	23.96
Jan. 24.	Lyman-Ellel Drug Co., chemicals.....	566	8.90
Jan. 28.	Lyman-Ellel Drug Co., chemicals.....	586	1.87
Jan. 29.	R. B. Lees, carpenter work, as per contract.....	589	278.10
Feb. 28.	Pay roll, salaries.....	622	748.32
Jan. 30.	New England Furniture Co., bill of shades.....	625	17.00
Mar. 31.	E. B. Johnson, gas bills.....	631	50.58
Jan. 3.	Inter-Dental Pub. Co., advertising six months.....	639	15.00
Feb. 12.	Minneapolis Dental Manuf. Co., bill of dental supplies.....	640	35.30
Feb. 12.	C. J. Bell, report blanks.....	646	3.00
Jan. 9.	Elmer & Amend, chemical supplies and apparatus.....	647	232.32
Feb. 12.	Lyman-Ellel Drug Co., chemical supplies.....	649	13.06
Jan. 15.	Minn. Hosp. college, one month's rent.....	650	50.00
Feb. 7.	Noyes Bros. & Cutler, caustic soda.....	651	5.00
Jan. 6.	Chas. E. F. Todd, Rodman's lathe head and 10 chucks.....	696	6.80
Mar. 31.	Pay roll, salaries.....	725	823.32
Mar. 20.	Northwestern Telephone Exch., telephone service.....	731	12.30
Mar. 25.	E. B. Johnson, gas bill.....	743	29.34
Mar. 27.	Minn. Hosp. College, rent.....	754	50.00
Mar. 12.	Lyman-Ellel Drug Co., chemical supplies.....	755	9.35
Feb. 12.	Elmer & Amend, chemical apparatus.....	756	19.45
Feb. 10.	Northwestern Fuel Co., 22,000 lbs. coal.....	757	49.50
Mar. 3.	P. G. Hanson, janitor's supplies.....	758	7.40
April 1.	E. B. Johnson, paid freight.....	764	1.17
April 30.	Pay roll, salaries.....	800	755.82
Mar. 25.	Northwestern Telephone Exch., service.....	802	12.60
May 1.	E. B. Johnson, gas bills.....	814	35.10
Mar. 18.	Northwestern Fuel Co., 26,750 lbs. coal.....	831	61.20
Mar. 27.	Elmer & Amend, chemical apparatus.....	832	7.30
Jan. 15.	Minn. Hosp. college, rent.....	833	50.00
Oct. 3.	Perry H. Millard, 1 articulated skeleton.....	839	35.00
Mar ^h 26.	Noyes Brothers & Cutler, bill of chemicals.....	835	36.46
April 7.	Noyes Brothers & Cutler, 1 Flint's Amamentamums.....	836	51.00
April 19.	B. Hogden, M. D., trav. exp. in delivering 32 lectures.....	837	16.00
April 24.	David A. Strickler, M. D., 2 trips to Duluth, 18 to Mpls.....	838	31.00
May 1.	Chas. A. Wheeler, 25 trips to Minneapolis to lecture.....	840	50.00
May 1.	A. McLaren, M. D., 10 trips to Minneapolis to lecture.....	841	20.00
May 1.	J. F. Fulton, M. D., 20 trips to Minneapolis to lecture.....	842	40.00
May 1.	A. E. Senkler, M. D., 25 trips to Minneapolis to lecture.....	843	50.00
May 1.	E. B. Johnson, petty bills paid by him.....	844	14.10
April 27.	Dr. Park Ritchie, lecture at Minneapolis.....	867	50.00
May 1.	Dr. Alex. J. Stone, lecture at Minneapolis.....	868	50.00
April 1.	W. A. Barnes & Co., sundries, fixtures and supplies.....	872	20.00
Mar ^h 31.	Edward C. Cauvett, plumbers supplies.....	873	32.00
April 5.	Cody & Hinelme, plumbers supplies.....	874	13.61
May 31.	Pay roll, salaries.....	882	755.82
May 27.	Dr. E. C. Spencer, lectures.....	887	25.00
May 6.	Dr. H. C. Aldrich, petty expenses.....	888	7.05
May 1.	Tribune Job, printing envelopes.....	889	8.50
May 1.	E. L. Mann, M. D., lectures.....	890	15.50
May 13.	Noyes Bros. & Cutler, instruments.....	892	89.45
May 1.	Henry Hutchinson, lectures.....	893	78.00
June 1.	E. B. Johnson, gas bills.....	901	16.92
May 1.	D. Ramaley & Son, 200 cards.....	938	2.50
June 30.	E. B. Johnson, gas bill.....	949	10.44
July 1.	E. B. Johnson, petty bills.....	950	3.75
June 1.	Wm. H. Yattaw, glass for doors.....	951	3.75
May 20.	R. B. Lees, changes and repairs.....	984	10.30
May 1.	St. Paul Gas Light Co., gas furnished.....	985	0.30
July 1.	George Reiss, street sprinkling.....	986	9.45
July 1.	Board Water Comrs., water supply.....	987	3.56
July 30.	Pay roll, salaries.....	1,026	243.32
Total.....			\$10,699.38

EXPERIMENT STATION.

GENERAL STATION EXPENSES—CURRENT EXPENSES.

1889.		Voucher.	
Aug. 30.	Wm. M. Liggett, traveling expenses.....	118	\$61.65
July 23.	H. W. Brewster, mortuary expenses of Fillman.....	125	9.21
Aug. 1.	Dr. F. F. Daigneau, emergency call of Fillman.....	126	4.00
July 20.	Glessner & Washburn, casket and attendance of Fillman.....	127	26.14

1889.			Voucher.	
May	26.	W. T. Kenner, American Veterinary Review.....	129	84.00
Aug.	16.	Gustav E. Stechert, books for station library.....	130	22.52
July	31.	W. R. Heminway, bill of lumber and felt.....	131	17.15
July	1.	Northwestern Star Oil Co., 5 gallons lard oil.....	132	2.40
June	1.	Littlefield & Moore, repairing roof.....	133	7.12
July	30.	Phelps Wind Mill Co., wind mill fixtures.....	134	6.41
July	1.	North Star Boiler Works, boiler stack.....	143	16.50
Jan.	24.	Gustav E. Stechert, books for library.....	146	1.61
Aug.	23.	Russell, Boynton & Co., emery cloth and waste.....	148	.56
Aug.	2.	Russell, Boynton & Co., fixtures for pump.....	158	1.41
Aug.	22.	J. I. Case Implement Co., 1 top buggy.....	159	100.60
Sept.	30.	Pay roll, salaries.....	165	241.66
May	25.	W. P. Johnston, printing 4,000 extra bulletins.....	192	1,004.72
Aug.	31.	W. K. Morrison & Co., hardware.....	194	10.00
Sept.	23.	Brooks Brothers, sash.....	195	2.75
Aug.	30.	Gustav E. Stechert, books for library.....	196	5.75
Aug.	15.	Enterprise Machine Co., pulley and shaft.....	199	5.00
Sept.	1.	Chas. D. Whitall & Co., stationery.....	203	9.23
Sept.	7.	Northwestern Telephone Exchange, telephone service.....	208	28.00
Nov.	1.	Pay roll, salaries.....	213	241.66
Oct.	3.	County treasurer Ramsey County, taxes on Poden tract (40 acres).....	246	228.69
Oct.	1.	Held & Gruenhagen, hardware.....	274	3.51
Sept.	18.	Goodyear Rubber Co., packing.....	275	1.05
Sept.	25.	Phelps Wind Mill Co., plunger.....	282	.50
Oct.	1.	Tribune Job Printing Co., 13,000 bulletins.....	290	221.80
Oct.	10.	E. S. Coffin, one box.....	291	1.00
Oct.	14.	Chester Oil Co., 10 gallons oil.....	296	1.20
Oct.	23.	W. F. Porter & Co., repair furnace.....	302	6.75
Sept.	9.	Pioneer Fuel Co., 2 tons Youghegheny coal.....	314	13.00
Nov.	7.	Pay roll, salaries.....	321	241.66
Nov.	7.	Foster & Smith, repair farm house.....	333	14.50
Sept.	26.	Brooks Brothers, changing sash.....	341	.50
Sept.	27.	Hobart & Willis, sink into farm house.....	364	14.40
Nov.	7.	E. F. Batten, expenses in collecting cows.....	336	25.97
Oct.	21.	Chas. Pomerouille, addressing bulletins.....	367	10.85
Oct.	26.	W. A. Weaver, subscrip. to Country Gentleman 5 years.....	368	7.00
Nov.	20.	E. A. Delhorbe, 500 feet pipe, shear sheep.....	375	15.00
Nov.	15.	John Smith, work sundry times.....	376	6.00
Oct.	15.	Goodfellow & Eastman, table cloth and toweling.....	379	7.11
Oct.	12.	Graphic Illustrating Co., illustrations in bulletins.....	386	8.50
Dec.	31.	Pay roll, salaries.....	416	241.66
Dec.	20.	Am. Entomological Society, transactions of society.....	426	55.00
Oct.	31.	J. H. Herrick, steam engine (exchange).....	438	171.00
Nov.	30.	Otto Luggar, traveling expenses to Washington, D. C.....	439	40.00
Dec.	24.	Sam. B. Green, 23 vol. Mass. Reports.....	452	10.00
Dec.	14.	S. M. Emery, traveling expenses.....	457	24.84
Dec.	1.	Northwestern Telephone Exchange Co., telephone service.....	467	14.00
Nov.	20.	Am. Meterol. Journal Co., subscription.....	472	2.00
Jan.	31.	Pay roll, salaries.....	497	287.26
Nov.	19.	Phelps Wind Mill Co. brass poppet and leathers.....	578	1.00
Oct.	31.	A. C. McClurg & Co., one copy Darwinism.....	580	1.56
Dec.	27.	Russell, Boynton & Co., bill of plumbing.....	581	47.96
1890.				
Jan.	1.	Held & Gruenhagen, hardware.....	506	1.53
Dec.	1.	Tribune Job Printing Co., 100 contracts for cows.....	597	3.00
Jan.	2.	American Dairyman, subscription.....	599	1.50
Feb.	1.	E. F. Batten, petty expenses.....	600	2.20
Dec.	1.	Tribune Job Printing Co., printing bulletins.....	601	169.40
Jan.	10.	W. M. Hays, petty bills paid by him.....	603	9.45
Dec.	30.	Pioneer Fuel Co., 10 1/4 cords oak wood.....	608	31.50
Jan.	4.	Brooks Bros., bill of sash.....	610	20.45
Oct.	24.	Garden Publishing Co., subscription.....	613	2.95
Dec.	20.	W. F. Porter & Co., plumbing as per contract.....	616	49.65
Feb.	28.	Pay roll, salaries.....	622	241.66
Feb.	28.	Pay roll, salaries.....	622	88.50
Feb.	18.	W. A. Gould, petty expenses.....	671	2.75
Jan.	...	N. C. Anderson, carpenter work.....	673	16.80
Jan.	13.	Fairbanks, Morse & Co., set of scales.....	685	9.00
Jan.	25.	Chas. D. Whitall & Co., stationery.....	688	.70
Jan.	30.	Northwestern Fuel Co., 36,400 pounds coal.....	694	131.95
Dec.	21.	C. M. Douglass & Co., 13,690 lbs. coal.....	702	113.42
Feb.	31.	Wm. M. Liggett, traveling expenses.....	704	40.75
Dec.	31.	W. K. Morrison & Co., bill of hardware.....	701	68.58
Mar.	31.	Pay roll, salaries and wages.....	725	417.15
Mar.	25.	Northwestern Telephone Exchange Co., telephone service.....	731	14.00
Dec.	24.	Northwestern Fuel Co., 3 car-loads coal.....	759	386.41
Feb.	22.	C. M. Douglass & Co., bill of coal.....	761	83.42
April	1.	E. B. Johnson, petty bills paid by him.....	784	9.30
April	30.	Pay roll, salaries and wages.....	800	380.12
Mar.	25.	Northwestern Telephone Exchange Co., telephone service.....	802	14.00
Mar.	20.	Tribune Job Printing Co., 500 envelopes.....	850	72.00
April	7.	Marion Hays, drawings for bulletin.....	852	9.50
April	15.	Chas. D. Whitall & Co., stationery.....	853	4.70

SIXTH BIENNIAL REPORT

1890.		Voucher.	
April 12.	S. M. Emery, expenses to and from station, 7 trips.....	856	\$38.32
Sept. 9.	Pioneer Fuel Co., 2 tons coal.....	857	13.00
April 14.	W. A. Gould, railroad fares, stamps, etc.....	866	5.85
Sept. 30.	W. K. Morrison & Co., kitchen furniture and sundries.....	871	25.04
April 5.	E. B. Johnson, petty bills paid by him.....	876	4.09
May 31.	Pay roll, salaries and wages.....	882	429.97
June 2.	E. B. Johnson, petty bills paid by him.....	904	6.43
May 13.	Rugg, Fuller & Co., plumbers' supplies.....	913	12.71
May 20.	W. A. Gould, stamps, fares, etc.....	915	10.05
May 20.	Chas. D. Whitall & Co., stationery.....	917	4.50
May 9.	Tribune Job Printing Co., printing bulletins and circulars.....	924	196.98
May 16.	The Graphic Illustrating Co., illustrations in bulletins.....	932	24.25
May 25.	Gustav E. Stechert, books for library.....	936	14.68
July 1.	E. B. Johnson, petty bills paid by him.....	950	5.20
July 1.	A. N. Nelson, taxes paid on Poden tract (40 acres).....	968	152.46
Feb. 5.	M. C. Bray, taxes paid on Poden tract (40 acres).....	969	69.90
Jan. 28.	Northwestern Fuel Co., bill of fuel.....	989	18.36
June 20.	Nelson, Tenney & Co., bill of lumber.....	995	43.93
June 20.	W. K. Morrison & Co., kitchen furniture.....	997	19.60
April 25.	Gustav E. Stechert, books for library.....	998	8.45
June 6.	Gardiner & Firkins, cedar posts.....	1000	5.60
May 20.	W. F. Porter & Co., repairing boiler.....	1001	10.95
May 25.	W. P. Hemenway, bill of lumber.....	1005	6.93
June 14.	Tribune Job Printing Co., 5,000 bulletins, etc.....	1006	109.85
June 6.	J. B. Chatterton, cedar posts.....	1008	8.40
May 2.	The Crookston Times, 2,000 circulars.....	1010	6.50
June 20.	W. A. Gould, stamps, fares, etc.....	1011	7.15
July 31.	Pay roll, salaries and wages.....	1026	372.71
Total.....			\$7,583.82

EXPERIMENT STATION.

DIVISION OF AGRICULTURE—CURRENT EXPENSE.

1880.		Voucher.	
Aug. 1.	Red Wing Lime Co., 1 bbl. lime.....	128	\$3.00
July 31.	Geo. Huhn, 1 bottle strychnine.....	135	.70
Aug. 1.	F. A. Fletcher & Co., harness fixtures.....	136	3.45
July ..	Janney, Semple & Co., bolts.....	137	1.19
June 1.	J. C. Vaughan, garden seeds.....	142	3.95
July 22.	J. I. Case Implement Co., 50 lbs. binding twine.....	144	8.00
Aug. 7.	Red Wing Lime Co., lime and cement.....	149	2.00
Aug. 14.	J. W. Shadewald & Co., 1,740 lbs. oats.....	153	15.80
Aug. 14.	C. A. Pillsbury & Co., ground feed.....	154	9.80
July 31.	W. K. Morrison & Co., hardware.....	138	7.22
Sept. 30.	Pay roll, salaries.....	164	445.94
Sept. 30.	Pay roll, salaries.....	165	200.00
Aug. 31.	W. K. Morrison & Co., hardware.....	194	2.13
July 26.	Fairbanks, Morse & Co., supplies for Panpenny mill.....	200	5.40
Sept. 24.	J. W. Shadewald & Co., feed.....	201	27.25
Aug. 31.	J. W. Shadewald & Co., feed.....	202	42.68
Aug. 29.	Nelson, Tenney & Co., bill of lumber.....	206	14.52
Nov. 1.	Pay roll, salaries.....	213	200.00
Nov. 1.	Pay roll, salaries.....	214	451.47
Nov. 1.	John A. Schlener & Co., stationery.....	229	.72
Oct. 8.	R. J. Reckey, papering farm house.....	279	14.35
Nov. 1.	W. M. Hays, petty expenses paid by him.....	278	11.90
Oct. 3.	Burns & Gorham, blacksmithing.....	283	8.38
Oct. 1.	George Edwards, blacksmithing.....	285	7.25
Sept. 25.	Nelson-Tenney Lumber Co., lumber.....	287	2.70
Nov. 1.	Chas. A. Pillsbury & Co., bill of feed.....	289	24.80
Oct. 1.	Union Railway Storage Co., lime and paint.....	300	11.65
Sept. 4.	Detroit Stove Works, 1 range.....	313	41.00
Dec. 21.	Pay roll, salaries.....	321	200.00
Dec. 21.	Pay roll, salaries.....	322	413.08
Oct. 1.	W. K. Morrison & Co., hardware.....	324	8.70
Nov. 11.	D. M. Sullivan, freight.....	351	34.65
Sept. 27.	U. S. Butter Extractor Co., 1 butter worker.....	342	25.00
Nov. 19.	D. M. Sullivan, freight.....	360	29.60
Nov. 19.	D. M. Sullivan, freight.....	361	26.25
Nov. 29.	Barney Ruud, plastering.....	373	13.50
Oct. 3.	Wm. M. Liggett, registering cattle.....	389	8.00
Nov. 20.	E. A. Delhorbe, shearing sheep.....	375	3.50
Dec. 31.	Pay roll, salaries.....	416	200.00
Dec. 31.	Pay roll, salaries.....	417	349.65
Dec. 9.	W. M. Hays, register cattle, stamps, &c.....	465	9.50
Dec. 9.	W. M. Hays, stamps.....	475	1.00
1890.			
Jan. 31.	Pay roll, salaries.....	497	472.94
Dec. 23.	Northrup, Brasian & Co., bill of seeds.....	507	72.97

Dec. 2.	George Edwards, shoeing horses.....	579	88.00
Dec. .	J. W. Shadewald & Co., feed.....	582	75.60
Dec. 4.	J. I. Case Implement Co., cutter ex.....	583	5.87
Nov. 4.	E. L. Sykes, 1 radiator.....	584	8.96
Nov. 22.	Cornish, Curtiss & Green, creamery equipment.....	598	159.75
Feb. 1.	E. F. Batten, petty bills paid by him.....	600	2.00
Dec. 9.	M. D. Allen & Co., pulley, hose, etc.....	602	4.35
Dec. 19.	S. T. Albuger, 1 Gurnsey cow.....	604	40.00
Jan. 18.	E. F. Batten, petty expenses.....	605	6.39
Nov. 30.	Enterprise Machine Co., 2 pulleys.....	607	5.20
Nov. 10.	Burns & Gorham, blacksmithing.....	609	17.25
Jan. 4.	Brooks Bros., bill of sash, blinds and doors.....	610	22.30
Dec. 1.	F. A. Fletcher & Co., harness fixtures.....	611	14.05
Dec. 30.	Frisk & Howard, repairing (wheelwright).....	612	6.40
Feb. 1.	Students' pay roll, wages.....	618	58.95
Feb. 28.	Pay roll, salaries.....	622	465.52
Sept. 25.	Clark Bros., crockery.....	670	16.91
Jan. 31.	Jacob Casper, cutting ice.....	672	13.90
Jan. —	N. C. Anderson, carpenter work.....	673	60.30
Dec. 9.	Nelson-Tenney Lumber Co., lumber.....	674	172.78
Feb. 11.	Nelson-Tenney Lumber Co., lumber.....	675	7.00
Nov. 1.	Chas. A. Pillsbury & Co., bill of feed.....	678	241.77
Feb. 1.	F. S. Stevens, sawdust.....	679	7.65
Feb. 6.	Cornish, Curtiss & Green, dairy supplies.....	680	14.54
Feb. 1.	Brooks Bros., 1 tank.....	682	11.00
Jan. 21.	Thos. K. Gray, drugs and oil.....	683	1.13
Feb. 4.	W. M. Hays, expressage.....	690	1.25
Feb. 3.	Stewart & Co., sheep dip.....	692	2.00
Jan. 20.	J. I. Case Implement Co., feed cutters' fixtures.....	695	.40
Feb. 7.	F. H. Peavey & Co., 463 7-60 bu. corn.....	699	125.04
Feb. 28.	Students' pay roll, wages.....	703	27.20
Mar. 31.	Pay roll, salaries.....	725	434.41
Jan. 28.	J. T. McLain, creamery supplies.....	760	12.00
Feb. —	Mrs. Waldron, 3 dozen one-half gallon jars.....	763	5.65
April 1.	E. B. Johnson, petty bills paid by him.....	764	12.68
Mar. 31.	W. F. Porter & Co., error No.....	765 1/2	
Nov. 19.	N. W. McLain, freight paid him.....	765 1/2	26.25
April 30.	Pay roll, salaries.....	800	414.11
May 1.	E. B. Johnson, petty bills paid by him.....	844	5.80
April 1.	Burns & Gorham, blacksmithing.....	847	6.60
Mar. 28.	W. M. Hays, registering 2 animals.....	849	12.00
April 17.	Held & Gruenhagen, hardware.....	854	8.96
April 18.	Chas. A. Pillsbury & Co., 14 bushels seed wheat.....	859	13.38
April 21.	E. G. Carpenter, 1 Poland China boar.....	861	20.00
April 22.	L. T. Soule Elevator Co., 24 bushels barley and sax.....	863	14.81
April 26.	W. M. Liggett, balance due on boar.....	864	15.00
April 16.	E. F. Batten, petty expenses paid by him.....	870	8.46
May 1.	E. B. Johnson, petty bills paid by him.....	876	3.60
May 1.	E. B. Johnson, petty bills paid by him.....	876	4.17
May 31.	Pay roll, salaries.....	882	380.35
May 20.	W. M. Hays, petty expense and trip to R. R. Valley.....	898	83.28
June 2.	E. B. Johnson, bills paid by him.....	904	11.20
May 20.	Chas. D. Whitall & Co., stationery.....	917	2.90
April 1.	Chas. A. Pillsbury & Co., 13 bushels wheat.....	919	10.66
May 16.	Louis Duensing, 53 1/2 bushels oats.....	922	15.90
May 1.	Geo. Edwards, blacksmithing.....	923	4.00
May 21.	M. K. Prime & Son, 2 Berkshire sows.....	925	70.00
May 1.	Northrup, Braslan & Co., bill of seeds.....	926	24.81
May 5.	S. H. Haynes, 3 bushels wheat.....	929	5.00
May 21.	A. A. Arnold, one Berkshire sow.....	931	35.00
April 16.	John A. Saltzler, seeds.....	937	7.60
July 1.	E. B. Johnson, petty bills paid by him.....	950	4.25
June 20.	Northrup, Braslan & Co., bills of seeds.....	988	26.70
June 18.	W. M. Hays, trip to Red River Valley.....	993	54.32
May 23.	D. C. Martin, man and team.....	996	7.00
May 3.	A. R. Herrman, seed wheat.....	999	6.28
Jan. 1.	Minnesota Linseed Oil Co., 3000 lbs oil meal.....	1,002	31.50
April 21.	Bowker Fertilizer Co., artificial manures.....	1,003	128.00
May 30.	G. W. Plank, one boar pig.....	1,009	30.00
July 31.	Pay roll, salaries and wages.....	1,026	470.33
Aug. 13.	North Oak farm, two Shorthorns and keeping of same.....	150	196.70

Less voucher (361), improperly certified.....

\$7,661.67
26.25

Total.....

\$7,635.42

SIXTH BIENNIAL REPORT

EXPERIMENT STATION.

DIVISION OF CHEMISTRY,—CURRENT EXPENSE.

1889.			No of Voucher.	
July	31.	Eimer & Amend, bill of chemical supplies	141	\$220.93
July	26.	Flour City Manufacturing Co., nuts and tap.	145	1.25
June	28.	Middlemist & Earle, copper vessels	147	18.45
Sept.	13.	D. N. Harper, express postage, etc	169	7.78
Sept.	30.	Pay roll, salary	165	125.00
Sept.	27.	D. N. Harper, expenses to Red River Valley	193	19.00
Nov.	1.	Pay roll, salary	213	125.00
Aug.	21.	Eimer & Amend, chemical supplies (error)	271	
Sept.	16.	Noyes Bros. & Cutler, chemical supplies	301	.70
Sept.	5.	St. Paul Book & Stationery Co., stationery	294	2.20
Dec.	1.	Pay roll, salary	321	125.00
Nov.	30.	Pay roll, wages farm hands	322	3.30
Oct.	25.	D. N. Harper, expressage and trip to Cannon Falls	346	26.22
Nov.	5.	Bemis Bros. Bag Co., 50 small sacks	374	1.65
Dec.	31.	Pay roll, salary	416	125.00
Dec.	31.	Pay roll, wages farm hands	417	5.25
Nov.	12.	Goodyear Rubber Co., pure sheet rubber	461	4.41
Jan.	31.	Pay roll, salary	497	125.00
Dec.	21.	Noyes Bros. & Cutler, bill of corks and packers	499	8.06
Dec.	30.	D. N. Harper, express charges	500	4.70
Dec.	11.	Henry H. Shufeldt & Co., ½ bbl. alcohol	519	9.60
Nov.	16.	Eimer & Amend, chemicals, apparatus and supplies	521	57.44
Nov.	27.	Gustav E. Stechert, books for library	522	11.54
Dec.	1.	Lockwood, Upton & Co, 1 plate	577	1.76
Dec.	17.	Noyes Bros. & Cutler, chemical supplies	606	9.90
Feb.	1.	Pay roll, students wages.	618	.38
Feb.	28.	Pay roll, salary	622	125.00
Feb.	7.	Noyes Bros. & Cutler, chemical supplies	681	7.80
Feb.	28.	Pay roll, student's wages.	703	5.80
Mar.	31.	Pay roll, salary	725	129.16
April	1.	E. B. Johnson, 1 coffee mill.	764	.50
April	30.	Pay roll, salary	800	125.00
Feb.	1.	Thomas K. Gray, bill of bottles and vials	846	9.33
April	15.	Chas. D. Whitall & Co., stationery	853	1.00
April	26.	D. N. Harper, expenses to Windom	858	6.50
April	12.	Noyes Bros. & Cutler, chemical supplies	860	6.50
April	10.	Wm. Donaldson & Co., drapery, brackets, rings, etc.	865	9.96
May	31.	Pay roll, salary	882	125.00
June	2.	E. B. Johnson, petty bills paid by him	904	2.00
May	13.	Rugg, Fuller & Co., plumbing work and material	913	5.73
May	20.	Twin City Envelope Co., 1950 envelopes (prepared)	930	10.60
May	20.	D. N. Harper, expense to Windom (2 trips)	934	26.20
July	1.	E. B. Johnson, petty bills paid by him	950	3.85
July	31.	Pay roll, salary	1026	125.00
				\$1,764.30

EXPERIMENT STATION.

DIVISION OF ENTOMOLOGY—CURRENT EXPENSE.

1889.			No. of Voucher.	
Aug.	8.	E. B. Chape, cork and spread boards	155	\$36.95
Aug.	26.	Graphic Illus. Co., illustrations for bulletin	156	13.50
Sept.	1.	Otto Luggler, petty expenses paid by him	157	53.81
Sept.	30.	Pay roll, salary	165	166.66
Nov.	1.	Pay roll, salary	213	166.66
Oct.	16.	C. V. Riley, eight cuts (electrotypes of insects)	272	11.00
Dec.	1.	Pay roll, salary	321	166.66
Dec.	31.	Pay roll, salary	416	166.66
Dec.	31.	Pay roll, wages of farm hands	417	9.48
Dec.	20.	Otto Luggler, petty expenses, September to December	444	76.19
1890.				
Jan.	31.	Pay roll, salary	497	166.66
Dec.	11.	Henry H. Shufeldt & Co., ½ bbl. alcohol	519	9.60
Feb.	1.	Pay roll, students' wages	618	12.54
Feb.	28.	Pay roll, salary	622	166.66
Feb.	1.	Chas. D. Whitall & Co., one hectograph	623	3.75
Jan.	28.	Boutell Bros., one coal stove	680	15.00
Feb.	28.	Pay roll, students' wages	703	11.04
Mch.	31.	Pay roll, salary	725	166.66
Mch.	31.	Pay roll, wages of students	725	13.08
April	30.	Pay roll, salary	800	166.66
April	1.	Otto Luggler, petty expenses, December to April	882	38.61
May	31.	Pay roll, salaries	920	166.66
May	6.	Thos. G. Newman & Son, glass pails	920	8.50
April	19.	Donaldson, Ogden & Co., fish globes and jars	927	5.40
July	31.	Pay roll, salary	1023	166.66
Total				\$1,985.05

EXPERIMENT STATION.

DIVISION OF HORTICULTURE—CURRENT EXPENSES.

		Voucher.	
1889.			
Jul. —	Janney, Semple & Co., harness fixtures.....	136	83.10
July 30.	L. W. Goodell, pansy seed.....	139	2.50
Aug. 8.	Elwanger & Barry, strawberry plants.....	150	2.50
Aug. 12.	Peter Henderson & Co., flower seeds.....	151	.57
Sept. 30.	Pay roll, wages of laborers.....	164	68.19
Sept. 30.	Pay roll, salary.....	165	141.66
Nov. 1.	Pay roll, salary.....	213	141.66
Nov. 1.	Pay roll, wages farm hands.....	214	72.81
Sept. 1.	F. A. Fletcher & Co., repair bridle.....	286	1.30
Oct. 3.	Marion Hays, drawing and engraving 3 cuts.....	292	9.00
Oct. 16.	R. Douglass & Sons, 300 trees.....	309	3.25
Dec. 1.	Pay roll, salary.....	321	141.66
Nov. 30.	Pay roll, wages farm hands.....	312	61.17
Nov. 14.	Northrup, Braslan & Co., bill of seeds.....	353	12.30
Nov. 8.	Wood Brothers, roses.....	339	4.50
Nov. 1.	Miller Bros. & Fletcher, tools.....	340	2.14
Nov. 8.	Farmer & Martin, man and team one day.....	371	3.50
Dec. 31.	Pay roll salary.....	416	141.66
Dec. 31.	Pay roll, wages farm hands.....	417	56.59
Dec. 6.	Sam B. Green, to and from Hutchinson.....	440	3.74
Nov. 13.	Jewell Nursery Co., 3,000 apple seedlings.....	442	9.75
Nov. 11.	Nichols & Sorten, 500 pear seedlings.....	455	6.00
1890.			
Jan. 31.	Pay roll, salary.....	497	151.66
Dec. 31.	Chas. G. Patten, plums and plum stock.....	535	4.50
Nov. 22.	Ellwanger & Barry, roses.....	556	1.83
Dec. 27.	Nichols & Sorten, plants.....	537	.60
Dec. 23.	Northrup, Braslan & Co., bill of seeds.....	567	25.81
Dec. 30.	W. F. Porter & Co., grate rings.....	569	3.60
Feb. 1.	Pay roll, wages of students.....	618	29.62
Feb. 28.	Pay roll, salary.....	622	141.66
Jan. 10.	Samuel B. Green, express charges.....	638	4.70
Jan. 31.	Jas. M. Thorburn & Co., flower seeds.....	684	1.70
Jan. 30.	J. C. Vaughan, flower seeds.....	686	3.60
Feb. 14.	Sam B. Green, farm wages paid.....	693	14.00
Feb. 28.	Pay roll, students' wages.....	703	19.82
Mar. 31.	Pay roll, salary.....	725	186.42
Mar. 6.	Jas. M. Thorburn & Co., bill of seeds.....	762	4.01
April 1.	E. B. Johnson, petty bills paid by him.....	764	2.94
April 30.	Pay roll, salary and wages.....	800	277.39
May 1.	E. B. Johnson, petty bills.....	844	1.20
April 9.	R. Douglass & Sons, plants.....	845	6.76
April 14.	Samuel B. Green, petty bills paid by him.....	848	12.80
Feb. 24.	Wood Brothers, flowers.....	851	7.97
Mar. 18.	James Carter & Co., vegetable seeds.....	855	2.70
May 1.	E. B. Johnson, petty bills paid by him.....	876	3.76
May 31.	Pay roll, salaries.....	882	324.79
June 2.	E. B. Johnson, petty bills paid by him.....	904	3.60
May 20.	Nichols & Sorten, 1,300 seedlings.....	916	11.40
May 3.	A. Clark Tuttle, apple trees.....	918	13.05
May 7.	Minn. Pack. & Prov. Co., 13 sacks fertilizer.....	921	15.08
Mar. 24.	James H. Engory, bill of seeds.....	928	5.20
May 1.	J. I. Case Implement Co., 1 wagon.....	938	39.00
May 20.	Samuel B. Green, expressage.....	935	12.85
July 1.	E. B. Johnson, petty bills paid by him.....	950	6.80
June 20.	Northrup, Braslan & Co., garden supplies.....	988	2.50
June 16.	Sam B. Green, expressage and petty expenses.....	994	11.59
May 19.	Joseph Anderson, 100 red cedars.....	1004	5.00
May 23.	Iowa Ag. college, fruit trees.....	1007	6.55
July 31.	Pay roll, salary and wages.....	1026	243.66
Total.....			\$2,499.67

CURRENT EXPENSE—SUMMARY OF DISBURSEMENTS.

General university expenses.....		\$81,311.54
School of agriculture.....		7,462.95
Veterinary department.....		2,138.80
Military tactics.....		542.76
College of mechanic arts.....		9,560.86
Geological survey.....		3,184.70
Department of law.....		3,745.32
Department of medicine.....		10,690.38
Experiment station—		
General station expenses.....	\$7,583.82	
Division of agriculture.....	7,635.42	
Division of chemistry.....	1,764.30	
Division of entomology.....	1,985.05	
Division of horticulture.....	2,409.67	
Total.....		\$139,014.55

BUILDING AND EQUIPMENT FUND.—RECEIPTS.

Received from state treasurer on auditor's warrants the following amounts:

Sept. 9.	For August bills.....	\$12,070 82	
Oct. 10.	For September bills.....	27,284 88	
Oct. 16.	For September bills (supplementary).....	1,000 00	
Nov. 25.	For October bills.....	23,084 79	
Dec. 21.	For November bills.....	23,292 36	
Jan. 22.	For December bills.....	27,124 96	
Feb. 20.	For January bills.....	1,893 12	
Mar. 24.	For February bills.....	3,953 07	
April 23.	For March bills.....	4,700 67	
May 28.	For April bills.....	8,721 40	
July 3.	For May bills.....	2,964 27	
April 16.	For building school of agriculture. Became available April 1st, 1890.....	24,372 96	
			\$160,353.30

Included in the above are the following amounts received by the treasurer of the university and paid over to the state treasurer for the credit of the building and equipment fund of the university.

Balance on hand on settlement with H. P. Browne Sept. 14, 1889.....	\$9,930 82	
and paid over to state treasurer.....	106,785 85	
A portion of the gift from Hon. John S. Pillsbury.....		\$116,725.67

BUILDING AND EQUIPMENT.

DISBURSEMENTS.

Voucher.		Building.	Equipment.
160	W. F. Porter & Co., ventilating main building.....	\$ 1,824 00	
161	W. F. Porter & Co., heating Pillsbury hall.....	1,600 00	
162	F. A. Fisher & Co., building law school.....	8,000 00	
163	W. M. Liggett, letting contract heating and plumbing.....	11 25	
118	W. M. Liggett, letting contract for building S. A.....	61 25	
209	F. A. Fisher & Co., contract Pillsbury hall.....	10,000 00	
210	F. A. Fisher & Co., contract phys. and chem. lab'y.....	10,000 00	
211	F. A. Fisher & Co., contract for boiler house.....	7,000 00	
212	Minneapolis Furniture Co., 4 cases drawers, 3 B. cases.....		\$ 800 00
198	Minneapolis Electric and Construction Co., electric bells, Pillsbury hall.....		59 20
212½	L. S. Buffington, services architect Pillsbury hall.....	1,000 00	
316	F. A. Fisher & Co., contract phys. and chem. lab'y.....	15,000 00	
317	F. A. Fisher & Co., contract boiler house.....	8,000 00	
318	Littlefield & Moore, speaking tubes Pillsbury hall.....		17 20
319	L. J. Anderson, foundation vet. hospital.....	70 00	
320	O. W. Firkins, posts for foundation vet. hospital.....	7 59	
344	H. H. Mallow, equipping department biology.....		204 30
398	W. F. Porter & Co., contract heating Pillsbury hall.....	2,800 00	
401	W. F. Porter & Co., conduits to Pillsbury hall.....	3,113 45	
400	W. F. Porter & Co., conduits to Pillsbury hall.....	653 18	
403	F. A. Fisher & Co., contract phys. and chem. laboratory.....	10,000 00	
402	Foster & Smith, building vet. hospital.....	1,226 60	
405	F. A. Fisher & Co., contract boiler house.....	2,620 31	
404	F. A. Fisher & Co., contract Pillsbury hall.....	1,420 18	
406	Gustav E. Stechert, equipping department botany.....		193 65
407	N. C. Anderson, building hog house.....	54 90	
408	L. S. Buffington, architect boiler house.....	500 00	
410	N. C. Anderson, work on vet. hospital.....	27 50	
409	Ward & Howell, minerals, crystal and apparatus.....		150 31
411	E. H. Sargent & Co., equipping department mineralogy.....		61 41
412	Minneapolis Paper Box Co., 2 250 trays for dept. botany.....		19 50
413	Jas. H. Bishop & Co., equipping department botany.....		14 00
414	W. R. Hoag, locating the new buildings.....	22 00	
415	Geo. L. English & Co., equipping depart. of mineralogy.....		180 57
477	Sunnel & Co., equipping department mineralogy.....		22 00
478	Trainer Bros., grading around Pillsbury hall.....	249 75	
479	Forman, Ford & Co., equipping phys. laboratory.....		5 00
480	Mpls. Elec. and Cont. Co., equipping phys. laboratory.....		21 53
481	F. A. Fisher & Co., contract phys. and chem. laboratory.....	15,000 00	
482	A. C. Bausman, equipping department botany.....		46 50
483	J. B. Ellis, equipping department botany.....		5 20
484	Gustav E. Stechert, equipping department mineralogy.....		82 84
485	Dennison Manuf. Co., equipping department botany.....		2 25
486	F. A. Fisher & Co., work in law building.....	7,000 00	
487	J. W. Stevens & Co., plans for law building.....	285 00	
488	Gustav E. Stechert, equipping department of botany.....		33 00
489	W. F. Porter & Co., contract heating and ventilating Pillsbury hall.....	2,000 00	
		2,150 42	
490	Haxton Steam Heating Co., heating law building.....		67 48
491	J. S. Kearney & Co., lighting law building.....		18 50
492	Bradstreet, Thurber & Co., furnishing law building.....		
619	F. A. Fisher & Co., ventilating Pillsbury hall.....	749 12	
620	Bradstreet, Thurber & Co., furniture for law building.....		354 00
621	L. S. Buffington, architect chemical laboratory.....	700 00	
704	Wm. M. Liggett, looking after school building.....	27 00	
705	W. F. Porter & Co., plumbing at school and hospital.....	8 69	
706	J. B. Ellis, equipping department botany.....		14 30
707	Hern E. Litz, equipping department botany.....		835 37

Voucher.	Building.	Equipment.
708 Chas. W. Stites, equipping department biology		227.04
709 A. Montandon, equipping department biology		1,205.10
710 Elliott Brothers, equipping department biology		109.51
711 Eimer & Amend, equipping department mineralogy		375.97
712 Minneapolis Sash & Door Factory, for school of agricul.	115.00	
713 Pioneer Press Co., advertising for proposals	10.87	
714 Dr. G. Grubler, equipping department biology		96.26
715 Wilk. Petrolid, equipping department biology		133.44
716 H. H. Malloy, equipping department biology		3.75
717 Henry A. Ward, equipping department biology		60.00
718 Littlefield & Moore, equipping department mineralogy97
719 W. S. Nott & Co., equipping Pillsbury hall		231.75
720 Herzog Manuf. Co., fire escape, school of agriculture....	199.00	
721 Chas. T. Leonard, shades for Pillsbury hall		35.58
722 Am. Dist. Telegraph Co., annealed wire		2.47
723 Minneapolis Office and School Furnishing Co., furniture law school		86.00
724 W. F. Porter & Co., heat, boiler house	175.00	
767 Foster & Smith, school of agriculture	9,985.00	
767½ Foster & Smith, school of agriculture	4,500.00	
768 L. S. Lutz, superintendent of construction school of ag- riculture	120.00	
769 L. S. Lutz, superintendent of construction school of ag- riculture	95.00	
770 Hobart & Willis, plumbing school of agriculture	350.00	
771 L. S. Lutz, superintendent of construction school of ag- riculture	115.00	
772 Foster & Smith, school of agriculture	6,528.00	
773 Russell & Boynton, for boiler school of agriculture	29.31	
774 Frank Johnson, boiler walls school of agriculture	32.00	
775 W. F. Porter & Co., heating school of agriculture	1,200.00	
776 W. E. Tripp, setting seats school of agriculture		24.80
777 Foster & Smith, brick for boiler, school of agriculture ..	60.00	
778 Lintgers, Connells & Co., one boiler school of agricul- ture	378.95	
779 N. C. Anderson, water closets school of agriculture	10.50	
780 J. T. Million, grading around school of agriculture	85.00	
781 W. F. Porter & Co., piping and coils	300.00	
782 Foster & Smith, making 3 drawing tables school of agri- culture		100.00
783 Hobart & Willis, plumbing school of agriculture	431.00	
784 Union Railway Storage Co., lime and cement school of agriculture	28.40	
785 W. B. Dunnell, architect school of agriculture	758.82	
786 H. L. Day, equipping physical laboratory		35.41
787 Minn. Phonograph Co., equipping physical laboratory ..		36.90
788 Glessner & Washburn, furniture Pillsbury hall		95.00
789 Woodruff & Hunter, cess-pool school of agriculture	25.30	
790 Barney Ruude, cess-pool school of agriculture	51.70	
792 Minneapolis Furniture Co., furniture Pillsbury hall ..		202.87
791 Glessner & Washburn, furniture Pillsbury hall		25.50
793 Morris & Wilson, library Pillsbury hall (biology)		46.87
794 Carl Zeiss, equipping department of biology		3,023.83
795 Elmer & Amend, equipping department of botany		41.90
796 Rugg, Fuller & Co., equipping department of botany ..		15.00
797 H. H. Malloy, equipping department of biology		13.00
798 Dr. A. Zelgler, equipping department of biology		231.08
799 Elmer & Amend, equipping department of biology		97.69
878 E. E. Foss, grading school of agriculture	177.95	
879 Minneapolis Stamp Co., apparatus department of botany		10.00
880 F. A. Fisher & Co., contract physical and chemical lab- oratory	8,000.00	
881 Elmer & Amend, equipping department of botany		533.45
939 Henry A. Ward, equipping department of biology		440.00
940 Stazione Zoologica, equipping department of biology ..		284.17
941 John S. Pillsbury, equipping department of physics		1,704.34
942 Voigt & Hochgesang, equipping department of miner- alogy		452.40
943 Gustav E. Stechert, equipping department of botany ..		23.00
944 Ole Bostad, cess-pool school of agriculture	6.25	
945 Gust. Johnson, cess-pool school of agriculture	8.50	
946 Sam. B. Green, grading school of agriculture	6.00	
947 W. P. Hemenway, build, school of agriculture	39.61	
Total equipment		\$13,348.95
Total building		147,004.35
Total building and equipment		\$160,353.30

SUMMARY OF DISBURSEMENTS.

General university	\$122,080.67
School of agriculture	25,878.10
Veterinary hospital	1,333.74
Law school	10,098.89
Experiment station (wagon house)	54.90
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	\$160,353.30

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